

August 5, 2021

Mr. Jerome Jackson
NuStar Terminals Ops Partnership LP
9280 W Stockton Blvd, Ste 220
Elk Grove, CA 95758

Re: Notice of Preliminary Decision – Title V Permit Renewal
Facility Number: N-829
Project Number: N-1202078

Dear Mr. Jackson:

Enclosed for your review and comment is the District's analysis of the application to renew the Federally Mandated Operating Permit for NuStar Terminals Ops Partnership LP at 2941 Navy Dr, Stockton, California.

The notice of preliminary decision for this project has been posted on the District's website (www.valleyair.org). After addressing all comments made during the 30-day public notice and the 45-day EPA comment periods, the District intends to issue the renewed Federally Mandated Operating Permit. Please submit your written comments on this project within the 30-day public comment period, as specified in the enclosed public notice.

Thank you for your cooperation in this matter. If you have any questions, please contact Mr. Nick Peirce, Permit Services Manager, at (209) 557-6400.

Sincerely,



Brian Clements
Director of Permit Services

Enclosures

cc: Courtney Graham, CARB (w/enclosure) via email
cc: Laura Yannayon, EPA (w/enclosure) via EPS

Samir Sheikh
Executive Director/Air Pollution Control Officer

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**SAN JOAQUIN VALLEY
AIR POLLUTION CONTROL DISTRICT**

**Proposed Title V Permit Renewal Evaluation
NuStar Terminals Ops Partnership LP
N-829**

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TITLE V PERMIT RENEWAL EVALUATION

Bulk Terminal

Engineer: John Yoshimura
Date: August 5, 2021

Facility Number: N-829
Facility Name: NuStar Terminals Ops Partnership LP
Mailing Address: 9280 W Stockton Blvd, Ste 220
Elk Grove, CA 95758

Contact Name: Jerome Jackson
Phone: (916) 509-3274

Responsible Official: Jerome Jackson
Title: General Manager

Project # : N-1202078
Deemed Complete: July 1, 2020

I. PROPOSAL

NuStar Terminals OPS Partnership, LP submitted an application to renew their Title V permit on May 29, 2020, which was within the timeframe required by Section 5.2 of District Rule 2520. Therefore, all terms and conditions of the Title V permit shall remain in effect until the renewal permit has been issued pursuant to Section 8.3 of District Rule 2520. During this renewal process, the existing permits will be revised to include any updated or new requirements from District, State and Federal rules that were adopted or amended since the issuance of the previous Title V permit renewal that was finalized on April 4, 2017.

The purpose of this document is to provide the legal and factual basis for all updated applicable requirements and to determine if the facility will comply with these updated requirements. This document also identifies all additions, deletions, and/or changes made to permit conditions or equipment descriptions.

II. FACILITY LOCATION

NuStar Terminals Ops Partnership LP is located at 2941 Navy Dr in Stockton, CA.

III. EQUIPMENT LISTING

A detailed facility printout listing all permitted equipment at the facility is included as Attachment C.

IV. GENERAL PERMIT TEMPLATE USAGE

The applicant does not propose to use any model general permit templates.

V. SCOPE OF EPA AND PUBLIC REVIEW

The applicant is not requesting any model general permit templates. Therefore, all federally enforceable conditions in this current Title V permit will be subject to EPA and public review.

VI. FEDERALLY ENFORCEABLE REQUIREMENTS

A. Rules Updated

- District Rule 2201, New and Modified Stationary Source Review Rule (amended August 15, 2019)
- District Rule 2520 Federally Mandated Operating Permits (amended August 15, 2019)
- District Rule 4601 Architectural Coatings (amended April 16, 2020)
- 40 CFR Part 60, Subpart Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984 (Amended January 19, 2021)
- 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners (amended March 24, 2021)
- 40 CFR Part 82, Subpart F, Recycling and Emission Reduction (amended December 1, 2016)

B. Rules Removed

There are no applicable rules that were removed since the last Title V renewal.

C. Rules Added

The following rules are that are applicable to operation of this facility has been adopted since issuance of the initial Title V permit.

- District Rule 2410, Prevention of Significant Deterioration (Adopted June 16, 2011)

D. Rules Not Updated

- District Rule 1070, Inspections (amended December 17, 1992)
- District Rule 1080, Stack Monitoring (amended December 17, 1992)
- District Rule 1081, Source Sampling (amended December 17, 1992)
- District Rule 1100, Equipment Breakdown (amended December 17, 1992)
- District Rule 1160, Emission Statements (amended December 17, 1992)
- District Rule 2010, Permits Required (amended December 17, 1992)
- District Rule 2020, Exemptions (amended December 18, 2014)
- District Rule 2031, Transfer of Permits (amended December 17, 1992)
- District Rule 2040, Applications (amended December 17, 1992)
- District Rule 2070, Standards for Granting Applications (amended December 17, 1992)
- District Rule 2080, Conditional Approval (amended December 17, 1992)
- District Rule 4001 New Source Performance Standards (amended April 14, 1999)
- District Rule 4002 National Emissions Standards for Hazardous Air Pollutants (amended May 20, 2004)
- District Rule 4101, Visible Emissions (amended February 17, 2005)
- District Rule 4601, Architectural Coatings (amended December 17, 2009)
- District Rule 4623, Storage of Organic (amended May 19, 2005)
- District Rule 4624, Transfer of Organic Liquid (amended December 20, 2007)

- District Rule 8011, Fugitive Dust General Requirements (Amended August 19, 2004)
- District Rule 8021, Fugitive Dust Requirements for Control of Fine Particulate Matter (PM10) from Construction, Demolition, Excavation, and Extraction Activities (Amended August 19, 2004)
- District Rule 8031, Fugitive Dust Requirements for Control of Fine Particulate Matter (PM10) from Handling and Storage of Bulk Materials (Amended August 19, 2004)
- District Rule 8041, Fugitive Dust Requirements for Control of Fine Particulate Matter (PM10) from Carryout and Trackout (Amended August 19, 2004)
- District Rule 8051, Fugitive Dust Requirements for Control of Fine Particulate Matter (PM10) from Open Area (Amended August 19, 2004)
- District Rule 8061, Fugitive Dust Requirements for Control of Fine Particulate Matter (PM10) from Paved and Unpaved Roads (Amended August 19, 2004)
- District Rule 8071, Fugitive Dust Requirements for Control of Fine Particulate Matter (PM10) from Unpaved Vehicle/Equipment Areas (Amended September 16, 2004)
- 40 CFR Part 60, Subpart K, Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced after June 11, 1973, and Prior to May 19, 1978 (Amended October 17, 2000)
- 40 CFR Part 60, Subpart Ka, Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced after May 18, 1978, and Prior to July 23, 1984 (Amended December 14, 2000)
- 40 CFR Part 60, Subpart XX, Standards of Performance for Bulk Gasoline Terminals (Amended December 19, 2003)
- 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos (Amended July 20, 2004)
- 40 CFR Part 63, Subpart R, Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations) (Amended December 4, 2020)
- 40 CFR Part 63, Subpart BBBB, Gasoline Distribution Bulk Terminals, Bulk Plants, and Pipeline Facilities (Amended January 24, 2011)

- 40 CFR Part 64, Compliance Assurance Monitoring

VII. REQUIREMENTS NOT FEDERALLY ENFORCEABLE

For each Title V source, the District issues a single permit that contains the Federally Enforceable requirements, as well as the District-only requirements. The District-only requirements are not a part of the Title V Operating Permits. The terms and conditions that are part of the facility's Title V permit are designated as "Federally Enforceable Through Title V Permit".

For this facility, the following are not federally enforceable and will not be discussed in further detail:

A. Rules Added/Updated

There are no new rules that are not federally enforceable being added at this time.

B. Rules Not Updated

- District Rule 4102, Nuisance (as amended December 17, 1992)

For this facility, condition #42 of the facility wide requirements N-829-0-5; condition #1, 9, and 25 of '-20-10; condition #1 of '-31-7, condition #2 of '-33-3, condition #1 of '-35-3; condition #1 of '-37-1; and condition #1 of '-38-1 are based on District Rule 4102 listed above and is not Federally Enforceable through Title V.

- Title 17, California Code of Regulations, Section 92000 through 92540

No changes were made to these rules since the renewed Title V permit was issued, therefore, they will not be discussed any further.

VIII. PERMIT REQUIREMENTS

The purpose of this evaluation is to review changes to federally enforceable requirements; therefore, this compliance section will only address rules that have been amended or added since the issuance of the initial Title V permit or most recent renewal of the Title V permit.

A. District Rule 2020 - Exemptions

District Rule 2020 lists equipment which is specifically exempt from obtaining permits and specifies recordkeeping requirements to verify such exemptions. The amendments to this rule do not have any effect on current permit requirements and will therefore not be addressed in this evaluation.

B. District Rule 2201 - New and Modified Stationary Source Review Rule (NSR)

District Rule 2201 has been amended since this facility's initial Title V permit was issued. However, the requirements of this rule are only triggered at the time the source undergoes a modification. All applicable requirements from any NSR permit actions have already been incorporated into the current Title V permit.

C. District Rule 2520 - Federally Mandated Operating Permits

No changes to this Rule have occurred since issuance of the previous TV permit; however, greenhouse gas emissions will be addressed under Rule 2520 during this renewal.

Greenhouse Gas Discussion

There are no federally applicable Greenhouse Gas (GHG) requirements for this source. It should be noted that the Mandatory Greenhouse Gas Reporting rule (40 CFR Part 98) is not included in the definition of an applicable requirement within Title V (per 40 CFR 71.2). Therefore, there will be no further discussion of GHG in this evaluation.

D. District Rule 4601 – Architectural Coatings

This rule limits the emissions of VOCs from architectural coatings. It requires limiting the application of any architectural coating to no more than what is listed in the Table of Standards (Section 5.0). The rule was amended in April 16, 2020. Since the following changes included in the latest rule amendment did not result in adding new requirements and/or revising current requirements in the facility-wide permit, no further evaluation is needed.

Section 2.0 — Applicability

The phrase "blends or repackages" was added to rule language to extend the applicability of rule language to facilities involved in those activities.

Section 3.0 — Definitions

Numerous definitions was added, deleted or modified in order to make the amended rule harmonize with definitions and rule requirements presented in the California Air Resources Board (ARB) Suggested Control Measures (SCM).

Section 4.0 — Exemptions

A reporting requirement was added for any architectural coating that is sold in a container with a volume of one liter or less. The exemption for architectural coatings was further defined by adding "coatings that are supplied and offered for sale" to current language, in order to make the rule consistent with the ARB SCM.

Section 5.0 — Requirements

The amended rule implements the recommended VOC limits per the ARB SCM. The following changes were as follows: 15 coating categories were eliminated, ten were added, nineteen coatings categories remained unchanged, and the VOC content limits for 19 categories were lowered.

Section 6.0 — Administrative Requirements

Section 6.1 — Labeling Requirements

Labeling requirements were updated to add new labeling standards consistent with new coatings categories per the SCM.

Section 6.2 — Reporting Requirements

A new section was added to include reporting requirements per the SCM. The SCM contains a new requirement to submit sales data. Collection of this data is authorized in the California Health and Safety Code which requires submission of data to estimate emissions.

Section 6.3 — Test Methods

New sections were added to coincide with new coating categories pursuant to the ARB SCM.

Section 7.0 — Compliance Schedule

This section was updated to account for the new amendments to rule language by adding the phrase "the dates specified within the text of the rule."

Section 8.0 — Averaging Compliance Option

This section was deleted in its entirety.

Conditions #23, 24, and 25 of the draft facility-wide permit (N-829-0-5) enforce the above requirements.

E. 40 CFR Part 60, Subpart K, Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced after June 11, 1973, and Prior to May 19, 1978

F. 40 CFR Part 60, Subpart Ka, Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced after May 18, 1978, and Prior to July 23, 1984

G. 40 CFR Part 60, Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction or Modification Commenced after July 23, 2003

The current Title V permit for each of the organic liquid storage tanks contain the 40 CFR 60, Subpart K, Ka, and Kb requirements for external floating roof storage tanks.

Subpart K and Subpart Ka have not been updated since the last Title V renewal action, so there are no changes to the existing permit conditions for permit units N-829-5, '-6, '-16, '-17, '-18, '-21, '-22, '-28, '-29, and '-31. Although permit unit N-829-35 was not included in the last Title V renewal action, it is still in compliance with all the applicable requirements. However, Subpart Kb was recently updated by the EPA to allow owners or operators of storage vessels subject to Subpart Kb, and equipped with either an external floating roof or an internal floating roof, the choice to elect to comply with the requirements specified in NESHAP Subpart WW as an alternative standard, in lieu of the requirements specified in NSPS Subpart Kb. NuStar did not elect to comply with the alternative requirements in NESHAP Subpart WW. Therefore, the changes to Subpart Kb does not affect the existing Title V permits.

The existing permit conditions demonstrating compliance with the requirements of these rules are summarized in the table below:

| Permit Number | Permit Condition Number |
|---------------|---|
| N-829-5-7 | 14, 15, 17, 18, 19, 20, 21, 22, 23, 32, 34, 35, 26, 44, and 46 |
| N-829-6-9 | 24, 31, 40, and 41 |
| N-829-16-11 | 4 |
| N-829-17-10 | 4 |
| N-829-18-11 | 4, 5, 27, 34, 43, and 44 |
| N-829-21-7 | 2, 3, 41, and 42 |
| N-829-22-6 | 2, 3, 9, 10, 11, 12, 13, 14, 15, 19, 24, 27, 35, 38, 29, 40, 41, and 43 |
| N-829-28-8 | 2, 3, 41, and 42 |
| N-829-29-9 | 2, 3, 4, 5, 8, 10, 12, 15, 19, 20, 21, 27, 28, 31, 42, 43, 44, 45, 46, and 47 |
| N-829-31-7 | 7, 21, 22, 23, 24, 25, 26, 27, 30, 31, 36, and 37 |
| N-829-35-3 | 7, 20, 21, 22, 23, 24, 25, 26, 29, 30, 31, and 35 |

H. 40 CFR Part 82, Subpart B – Servicing of Motor Vehicle Air Conditions

The requirements of this Subpart pertain to air conditioners, chillers and refrigerators located at a Title V source and to disposal of air conditioners or maintenance/recharging/disposal of motor vehicle air conditioners (MVAC).

Compliance with the requirements of this rule will be ensured with the listed permit conditions for the facility-wide permit in the table below:

| Permit Number | Permit Condition Number |
|---------------|-------------------------|
| N-829-0-5 | 28 |

I. 40 CFR Part 82, Subpart F – Recycling and Emission Reduction

The requirements of this subpart pertain to air conditioners, chillers and refrigerators located at a Title V source and to disposal of air conditioners or maintenance/recharging/disposal of motor vehicle air conditioners (MVAC).

Compliance with the requirements of this rule will be ensured with the listed permit conditions for the facility-wide permit in the table below:

| Permit Number | Permit Condition Number |
|---------------|-------------------------|
| N-829-0-5 | 27 |

F. 40 CFR Part 64 - Compliance Assurance Monitoring (CAM)

40 CFR Part 64 requires Compliance Assurance Monitoring for units that meet the following three criteria:

- 1) the unit must have an emission limit for the pollutant;
- 2) the unit must have add-on controls for the pollutant; these are devices such as flue gas recirculation (FGR), baghouses, and catalytic oxidizers; and
- 3) the unit must have a pre-control potential to emit of greater than the major source thresholds.

| Pollutant | Major Source Threshold (lb/year) |
|------------------|----------------------------------|
| NO _x | 20,000 |
| SO _x | 140,000 |
| PM ₁₀ | 140,000 |
| CO | 200,000 |
| VOC | 20,000 |

a. N-829-1-12 and ‘-2-13: North and South Truck Loading Racks

These permits are for the north and south truck loading racks. The truck loading racks are served by the vapor combustion system listed in PTO N-829-20-10. These units were previously determined to be subject to CAM and were evaluated in detail in a prior Title V renewal (District Project N-1092711) and CAM was determined at that time. The CAM requirements will continue to be included on PTO N-829-20-10 as conditions #10 and #11.

b. N-829-5-7, ‘-21-7, ‘-28-8, and ‘-29-9: Organic Liquid Storage Tanks

These organic liquid storage tanks are equipped with floating roofs with annular seals to prevent the release of VOCs. Per the definition of “control device” in 40 CFR 64.1, the roofs and seals are considered to be passive control measures and are excluded from

the definition of “control device”. Therefore, these tanks are not equipped with any add-on control equipment so CAM is not applicable to these units.

c. N-829-6-9, ‘-16-11, ‘-17-10, ‘-18-11, ‘-22-6, and ‘-31-7: Organic Liquid Storage Tanks

These tanks were evaluated in a prior TV Renewal (District Project N-1092711) and were determined to not be equipped with any add-on control equipment; therefore, CAM requirements are not applicable to these units.

d. N-829-20-10: Vapor Combustion System

This permit is for the add-on control equipment. No emission units are associated with this permit. Therefore, CAM is not applicable.

e. N-829-32-2, ‘-33-3, and ‘-35-3: Organic Liquid Storage Tanks

These are internal floating roof tanks with no add-on control technology. It has been previously determined that the internal floating roofs are not add-on controls (TV Renewal for Project N-1092711). Therefore, CAM is not applicable.

f. N-829-37-1 and ‘-38-1: Denatured Ethanol Bulk Offloading

These are denatured ethanol bulk offloading operations with no add-on control technology. It has been previously determined that the internal floating roofs are not add-on controls (Project N-1171064). Thus, CAM is not applicable.

IX. PERMIT SHIELD

A permit shield legally protects a facility from enforcement of the shielded regulations when a source is in compliance with the terms and conditions of the Title V permit. Compliance with the terms and conditions of the Operating Permit is considered compliance with all applicable requirements upon which those conditions are based, including those that have been subsumed.

A. Requirements Addressed by Model General Permit Templates

The applicant does not propose to use any model general permit templates.

B. Requirements not Addressed by Model General Permit Templates

The facility has not requested any permit shields.

C. Obsolete Permit Shields From Existing Permit Requirements

The permits do not contain any obsolete permit shields.

X. CALIFORNIA ENVIRONMENTAL QUALITY ACT

The purpose of the Title V permit renewal is to update the permit to ensure that any changes to regulations since the issuance of the initial Title V permit or most recent renewal of the Title V permit are incorporated as permit requirements.

Per the California Environmental Quality Act (CEQA) Statute §21080.24, and CEQA Guidelines §15281, the issuance, modification, amendment, or renewal of any permit by an air pollution control district or air quality management district pursuant to Title V is exempt from CEQA, unless the issuance, modification, amendment, or renewal authorizes a physical or operational change to a source or facility. There will be no physical or operational change to the source or facility nor will the Title V permit renewal authorize a physical or operational change to the source or facility. Therefore, this project, a Title V permit renewal, is subject to a ministerial action that is exempt from CEQA.

XI. PERMIT CONDITIONS

See Attachment A - Draft Renewed Title V Operating Permit.

ATTACHMENTS

- A. Draft Renewed Title V Operating Permit
- B. Previous Title V Operating Permit
- C. Detailed Summary List of Facility Permits

ATTACHMENT A

Draft Renewed Title V Operating Permit

San Joaquin Valley Air Pollution Control District

FACILITY: N-829-0-5

EXPIRATION DATE: 11/30/2020

FACILITY-WIDE REQUIREMENTS

1. {4362} The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
2. {4363} The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
3. {4364} The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0] Federally Enforceable Through Title V Permit
4. {4365} Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (12/20/07). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
5. {4366} The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.8.1 and 9.13.1] Federally Enforceable Through Title V Permit
6. {4367} A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031] Federally Enforceable Through Title V Permit
7. {4368} Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District. [District Rule 2040] Federally Enforceable Through Title V Permit
8. {4369} The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate. Any amendments to these Facility-wide Requirements that affect specific Permit Units may constitute modification of those Permit Units.

Facility Name: NUSTAR TERMINALS OPS PARTNERSHIP LP

Location: 2941 NAVY DRIVE, STOCKTON, CA 95206

N-829-0-5 : Aug 2 2021 1:33PM - YOSHIMUJ

9. {4370} The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
10. {4371} The operator shall submit reports of any required monitoring at least every six months unless a different frequency is required by an applicable requirement. All instances of deviations from permit requirements must be clearly identified in such reports. [District Rule 2520, 9.5.1] Federally Enforceable Through Title V Permit
11. {4372} Deviations from permit conditions must be promptly reported, including deviations attributable to upset conditions, as defined in the permit. For the purpose of this condition, promptly means as soon as reasonably possible, but no later than 10 days after detection. The report shall include the probable cause of such deviations, and any corrective actions or preventive measures taken. All required reports must be certified by a responsible official consistent with section 10.0 of District Rule 2520 (6/21/01). [District Rules 2520, 9.5.2 and 1100, 7.0] Federally Enforceable Through Title V Permit
12. {4373} If for any reason a permit requirement or condition is being challenged for its constitutionality or validity by a court of competent jurisdiction, the outcome of such challenge shall not affect or invalidate the remainder of the conditions or requirements in that permit. [District Rule 2520, 9.7] Federally Enforceable Through Title V Permit
13. {4374} It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. [District Rule 2520, 9.8.2] Federally Enforceable Through Title V Permit
14. {4375} The permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [District Rule 2520, 9.8.3] Federally Enforceable Through Title V Permit
15. {4376} The permit does not convey any property rights of any sort, or any exclusive privilege. [District Rule 2520, 9.8.4] Federally Enforceable Through Title V Permit
16. {4377} The Permittee shall furnish to the District, within a reasonable time, any information that the District may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the District copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to EPA along with a claim of confidentiality. [District Rule 2520, 9.8.5] Federally Enforceable Through Title V Permit
17. {4378} The permittee shall pay annual permit fees and other applicable fees as prescribed in Regulation III of the District Rules and Regulations. [District Rule 2520, 9.9] Federally Enforceable Through Title V Permit
18. {4379} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to enter the permittee's premises where a permitted source is located or emissions related activity is conducted, or where records must be kept under condition of the permit. [District Rule 2520, 9.13.2.1] Federally Enforceable Through Title V Permit
19. {4380} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. [District Rule 2520, 9.13.2.2] Federally Enforceable Through Title V Permit
20. {4381} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit. [District Rule 2520, 9.13.2.3] Federally Enforceable Through Title V Permit
21. {4382} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [District Rule 2520, 9.13.2.4] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE
These terms and conditions are part of the Facility-wide Permit to Operate.

22. {4383} No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann #1 or equivalent to 20% opacity and greater, unless specifically exempted by District Rule 4101 (02/17/05). If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition, the more stringent visible emission limit shall supersede this condition. [District Rule 4101, and County Rules 401 (in all eight counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit
23. {4384} No person shall manufacture, blend, repackage, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in Table of Standards 1 effective until 12/30/10 or Table of Standards 2 effective on and after 1/1/11 of District Rule 4601 (12/17/09) for use or sale within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit
24. {4385} All VOC-containing materials subject to Rule 4601 (12/17/09) shall be stored in closed containers when not in use. [District Rule 4601, 5.4] Federally Enforceable Through Title V Permit
25. {4386} The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (12/17/09). [District Rule 4601, 6.1 and 6.3] Federally Enforceable Through Title V Permit
26. {4387} With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.13.1 and 10.0] Federally Enforceable Through Title V Permit
27. {4388} If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. [40 CFR 82 Subpart F] Federally Enforceable Through Title V Permit
28. {4389} If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B. [40 CFR Part 82, Subpart B] Federally Enforceable Through Title V Permit
29. {4390} Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8021] Federally Enforceable Through Title V Permit
30. {4391} Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8031] Federally Enforceable Through Title V Permit
31. {4392} An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8041] Federally Enforceable Through Title V Permit
32. {4393} Whenever open areas are disturbed, or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8051] Federally Enforceable Through Title V Permit
33. {4394} Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8061] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE
These terms and conditions are part of the Facility-wide Permit to Operate.

34. {4395} Any unpaved vehicle/equipment area that anticipates more than 50 Average annual daily Trips (AADT) shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 150 vehicle trips per day (VDT) shall comply with the requirements of Section 5.1.2 of District Rule 8071. On each day that 25 or more VDT with 3 or more axles will occur on an unpaved vehicle/equipment traffic area, the owner/operator shall comply with the requirements of Section 5.1.3 of District Rule 8071. On each day when a special event will result in 1,000 or more vehicles that will travel/park on an unpaved area, the owner/operator shall comply with the requirements of Section 5.1.4 of District Rule 8071. All sources shall comply with the requirements of Section 5.0 of District Rule 8071 unless specifically exempted under Section 4.0 of Rule 8071 (9/16/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8071] Federally Enforceable Through Title V Permit
35. {4396} Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation). [40 CFR 61 Subpart M] Federally Enforceable Through Title V Permit
36. {4397} The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.16] Federally Enforceable Through Title V Permit
37. {4398} The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2] Federally Enforceable Through Title V Permit
38. {4399} When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permits shall apply. [District Rule 2520, 9.1.1] Federally Enforceable Through Title V Permit
39. {4400} Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: Rule 401 (Madera, Fresno, Kern, Kings, San Joaquin, Stanislaus, Tulare and Merced), Rule 110 (Fresno, Stanislaus, San Joaquin), Rule 109 (Merced), Rule 113 (Madera), Rule 111 (Kern, Tulare, Kings), and Rule 202 (Fresno, Kern, Tulare, Kings, Madera, Stanislaus, Merced, San Joaquin). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
40. {4401} Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (2/17/05); 4601 (12/17/09); 8021 (8/19/2004); 8031 (8/19/2004); 8041 (8/19/2004); 8051 (8/19/2004); 8061 (8/19/2004); and 8071 (9/16/2004). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
41. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin January 1 of every year, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of the reporting period [District Rule 2520] Federally Enforceable Through Title V Permit
42. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-829-1-12

EXPIRATION DATE: 11/30/2020

EQUIPMENT DESCRIPTION:

FOUR LANE TRUCK LOADING RACK (NORTH) CONSISTING OF 7 GASOLINE LOADING ARMS, 3 DIESEL/BIODIESEL LOADING ARMS, AND 1 BIODIESEL LOADING ARM, A BIODIESEL LOADING PUMP, AND A 2-STREAM BLEND SKID

PERMIT UNIT REQUIREMENTS

1. Fugitive VOC from components, such as valve, flange, connector, pump seal, etc., associated with this permit unit shall not exceed 219 pounds in any one calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Fugitive VOC emissions from component leaks shall be calculated using component count and appropriate emission factors from "California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities", Table IV-1b (Feb 1999) - Marketing Terminal Average Emission Factors. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The combined quantity of organic liquids (as defined in District Rule 4624) loaded through permit units N-829-1 and N-829-2 shall not exceed 2,071,233 gallons in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The combined quantity of organic liquids (as defined in District Rule 4624) loaded through permit units N-829-1 and N-829-2 shall not exceed 756,000,000 gallons in any one rolling 12-month period. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The combined maximum number of organic liquids hose disconnections performed by permit units N-829-1 and N-829-2 shall not exceed 2,072 disconnects in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The combined maximum number of organic liquids hose disconnections performed by permit units N-829-1 and N-829-2 shall not exceed 756,000 disconnects in any one rolling 12-month period. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The VOC emission rate from each organic liquids hose disconnect shall not exceed 0.0172 pounds per disconnect. {The VOC emissions rate from each disconnect shall be calculated as follow: VOC emissions rate (lb/disconnect) = 10 mL-VOC/disconnect x organic liquid density (lb/gal) x (1 gal/3785.41 mL)}. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The loading rack shall be equipped with bottom loading equipment, dry break couplers, and a vapor collection and control system such that the VOC emissions shall not exceed 0.08 pounds per 1,000 gallons of organic liquid loaded. [District Rule 2201] Federally Enforceable Through Title V Permit
9. All vapors displaced from tank truck loading shall be vented to the vapor combustion system under permit unit N-829-20. [District Rule 2201 and 40 CFR Part 60.502(a), (f), and (g)] Federally Enforceable Through Title V Permit
10. The vapor collection system shall be operated in a manner to prevent any organic vapors collected at one loading rack from passing to another loading rack. [40 CFR Part 60.502(d) and 40 CFR Part 63.11088(a)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

11. Gasoline shall be loaded only into vapor-tight tank trucks. [40 CFR Part 60.502(e) and 40 CFR Part 63.11088(a)] Federally Enforceable Through Title V Permit
12. The facility shall obtain the vapor tightness documentation specified in 40 CFR Part 60.505(b) for each gasoline tank truck that is to be loaded at the facility. [40 CFR Part 60.502(e)(1)] Federally Enforceable Through Title V Permit
13. The vapor collection and control system shall operate such that the pressure in the delivery tank being loaded does not exceed 18 inches water column pressure and 6 inches water column vacuum. [District Rule 4624 and 40 CFR Part 60.502(h)] Federally Enforceable Through Title V Permit
14. All delivery tanks which previously contained organic liquids, including gasoline, with a TVP greater than 1.5 psia at loading conditions shall be filled only at Class 1 loading facilities using bottom loading equipment with a vapor collection and control system operating such that VOC emissions do not exceed 0.08 pounds per 1,000 gallons of organic liquid loaded and which operate so the delivery tank does not exceed 18 inches water column pressure nor 6 inches water column vacuum. [District Rule 4624] Federally Enforceable Through Title V Permit
15. The vapor collection system, the vapor destruction device, and each transfer rack handling organic liquids shall be tested for leaks at least once every calendar quarter with using a portable hydrocarbon analyzer in accordance with EPA Method 21. [District Rule 4624] Federally Enforceable Through Title V Permit
16. Loading and vapor collection and control equipment shall be maintained and operated such that there are no leaks and is no excess organic liquid drainage during disconnections. A leak is defined as the dripping of organic compounds at a rate of more than three drops per minute or the detection of organic compounds, in excess of 10,000 ppm as methane measured at the surface of the component interface from the potential source in accordance with EPA Method 21. Excess organic liquid drainage is defined as an average of more than 10 milliliters liquid drainage per disconnect from three consecutive disconnects. [District Rule 4624] Federally Enforceable Through Title V Permit
17. The equipment that are found leaking shall be repaired or replaced within 72 hours after detecting the leakage. If the leaking component cannot be repaired or replaced within 72 hours, the component shall be taken out of service until such time the component is repaired or replaced. The repaired or replacement equipment shall be reinspected the first time the equipment is in operation after the repair or replacement. [District Rule 4624] Federally Enforceable Through Title V Permit
18. Each calendar month, the vapor collection system, the vapor processing system and each loading rack handling gasoline shall be inspected during the loading of gasoline tank trucks for organic liquid and organic vapor leaks. For the purpose of this condition, detection methods incorporating sight, sound and smell are acceptable. [40 CFR Part 60.502(j) and 40 CFR Part 63.11089(a)] Federally Enforceable Through Title V Permit
19. An operator or owner may apply for a written approval from the APCO to change the EPA Method 21 leak inspection frequency from quarterly to annually provided no leaks were found during five consecutive quarterly inspections. Upon identification of any leak during an annual inspection, the inspection frequency shall revert back to quarterly, and the operator shall contact the APCO in writing within 14 days. [District Rule 4624] Federally Enforceable Through Title V Permit
20. For monthly leak inspection, a log book shall be used and shall be signed by the owner or operator at the completion of each inspection. A section of the log book shall contain a list, summary description, or diagram(s) showing the location of all equipment in gasoline service at the facility. [40 CFR Part 63.11089(b) and 40 CFR Part 63.11094(d)] Federally Enforceable Through Title V Permit
21. Each calendar month, liquid drainage at disconnect of each loading arm shall be determined, and appropriate action shall be taken in case excess liquid drainage occurs from any loading arm. If no excess drainage conditions are found during five consecutive monthly inspections, the drainage inspection frequency may be changed from monthly to quarterly. However, if one or more excess drainage condition is found during a quarterly inspection, the inspection frequency shall return to monthly. [District Rule 2520] Federally Enforceable Through Title V Permit
22. Liquid drainage inspections shall be completed after midnight and before 10:00 AM the day of inspection. Compliance shall be demonstrated by collecting all drainage at disconnect in a spouted container. The drainage shall be transferred to a graduated cylinder and the volume determined within one minute of collection. [District Rule 2520] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

23. Loading of a delivery vessel shall discontinue if its pressure relief valve opens. Corrective action shall be taken should this condition occur. [District Rule 2520] Federally Enforceable Through Title V Permit
24. Documentation attesting to the vapor tightness of each truck loaded with gasoline shall be kept. The documentation file for each tank truck shall be updated at least once per year to reflect the current test results as determined by EPA method 27. [40 CFR Part 60.505(a) and (b), and 40 CFR Part 63.11094(b)] Federally Enforceable Through Title V Permit
25. The owner or operator shall maintain a log book that contains the following information: 1.) dates of leak inspections, 2.) the nature of the leak and the method of detection; 3.) findings, 4.) corrective action (date each leak is repaired), 5.) repair methods applied in each attempt to repair the leak; 6.) the reason for the delay if the leak is not repaired within 3 calendar days after discovery of the leak; 7.) the date of successful repair of the leak; and 8.) inspector name and signature. [District Rule 4624, 40 CFR Part 60.505(c), 40 CFR Part 63.11089(g), 40 CFR Part 11094(e), and 40 CFR Part 63.11095(a)(3)] Federally Enforceable Through Title V Permit
26. The owner or operator shall submit a semi-annual compliance report that includes each loading of a gasoline cargo tank for which vapor tightness documentation had not been previously obtained by the facility. [40 CFR Part 63.11088(f) and 40 CFR Part 63.11095(a)(2)] Federally Enforceable Through Title V Permit
27. The owner or operator shall keep records of the organic liquids throughput, in gallons from permit units N-829-1 and N-829-2. [District Rules 2201 and 4624] Federally Enforceable Through Title V Permit
28. The owner or operator shall keep records of the cumulative organic liquids throughput on a rolling 12-month basis, in gallons from permit units N-829-1 and N-829-2. The record shall be updated at least weekly. [District Rule2 2201 and 4624] Federally Enforceable Through Title V Permit
29. All records shall be maintained on site for a period of at least five years and shall be made available for District, ARB, or EPA inspection upon request. [District Rules 1070, 2201, 4624, and 40 CFR Part 60.505, and 40 CFR Part 63.11094(a)] Federally Enforceable Through Title V Permit

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-829-2-13

EXPIRATION DATE: 11/30/2020

EQUIPMENT DESCRIPTION:

FOUR LANE TRUCK LOADING RACK (SOUTH) CONSISTING OF 4 GASOLINE LOADING ARMS, 4 DIESEL/BIODIESEL LOADING ARMS, A BIODIESEL LOADING PUMP, A 4-STREAM BLEND SKID, AND A BIODIESEL TRUCK OFF-LOADING PUMP

PERMIT UNIT REQUIREMENTS

1. Fugitive VOC from components, such as valve, flange, connector, pump seal, etc., associated with this permit unit shall not exceed 256 pounds in any one calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Fugitive VOC emissions from component leaks shall be calculated using component count and appropriate emission factors from "California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities", Table IV-1b (Feb 1999) - Marketing Terminal Average Emission Factors. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The combined quantity of organic liquids (as defined in District Rule 4624) loaded through permit units N-829-1 and N-829-2 shall not exceed 2,071,233 gallons in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The combined quantity of organic liquids (as defined in District Rule 4624) loaded through permit units N-829-1 and N-829-2 shall not exceed 756,000,000 gallons in any one rolling 12-month period. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The combined maximum number of organic liquid hose disconnections performed by permit units N-829-1 and N-829-2 shall not exceed 2,072 disconnects in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The combined maximum number of organic liquid hose disconnections performed by permit units N-829-1 and N-829-2 shall not exceed 756,000 disconnects in any one rolling 12-month period. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The VOC emission rate from each organic liquid hose disconnect shall not exceed 0.0172 pounds per disconnect. {The VOC emissions rate from each disconnect shall be calculated as follow: VOC emissions rate (lb/disconnect) = 10 mL-VOC/disconnect x organic liquid density (lb/gal) x (1 gal/3785.41 mL)}. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The loading rack shall be equipped with bottom loading equipment, dry break couplers, and a vapor collection and control system such that the VOC emissions shall not exceed 0.08 pounds per 1,000 gallons of organic liquid loaded. [District Rule 2201] Federally Enforceable Through Title V Permit
9. All vapors displaced from tank truck loading shall be vented to the vapor combustion system under permit unit N-829-20. [District Rule 2201 and 40 CFR Part 60.502(a), (f), and (g)] Federally Enforceable Through Title V Permit
10. The vapor collection system shall be operated in a manner to prevent any organic vapors collected at one loading rack from passing to another loading rack. [40 CFR Part 60.502(d) and 40 CFR Part 63.11088(a)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

11. Gasoline shall be loaded only into vapor-tight tank trucks. [40 CFR Part 60.502(e) and 40 CFR Part 63.11088(a)] Federally Enforceable Through Title V Permit
12. The facility shall obtain the vapor tightness documentation specified in 40 CFR Part 60.505(b) for each gasoline tank truck that is to be loaded at the facility. [40 CFR Part 60.502(e)(1)] Federally Enforceable Through Title V Permit
13. The vapor collection and control system shall operate such that the pressure in the delivery tank being loaded does not exceed 18 inches water column pressure and 6 inches water column vacuum. [District Rule 4624 and 40 CFR Part 60.502(h)] Federally Enforceable Through Title V Permit
14. All delivery tanks which previously contained organic liquids, including gasoline, with a TVP greater than 1.5 psia at loading conditions shall be filled only at Class 1 loading facilities using bottom loading equipment with a vapor collection and control system operating such that VOC emissions do not exceed 0.08 pounds per 1,000 gallons of organic liquid loaded and which operate so the delivery tank does not exceed 18 inches water column pressure nor 6 inches water column vacuum. [District Rule 4624] Federally Enforceable Through Title V Permit
15. The vapor collection system, the vapor destruction device, and each transfer rack handling organic liquids shall be tested for leaks at least once every calendar quarter with using a portable hydrocarbon analyzer in accordance with EPA Method 21. [District Rule 4624] Federally Enforceable Through Title V Permit
16. Loading and vapor collection and control equipment shall be maintained and operated such that there are no leaks and is no excess organic liquid drainage during disconnections. A leak is defined as the dripping of organic compounds at a rate of more than three drops per minute or the detection of organic compounds, in excess of 10,000 ppm as methane measured at the surface of the component interface from the potential source in accordance with EPA Method 21. Excess organic liquid drainage is defined as an average of more than 10 milliliters liquid drainage per disconnect from three consecutive disconnects. [District Rule 4624] Federally Enforceable Through Title V Permit
17. The equipment that are found leaking shall be repaired or replaced within 72 hours after detecting the leakage. If the leaking component cannot be repaired or replaced within 72 hours, the component shall be taken out of service until such time the component is repaired or replaced. The repaired or replacement equipment shall be reinspected the first time the equipment is in operation after the repair or replacement. [District Rule 4624] Federally Enforceable Through Title V Permit
18. Each calendar month, the vapor collection system, the vapor processing system and each loading rack handling gasoline shall be inspected during the loading of gasoline tank trucks for organic liquid and organic vapor leaks. For the purpose of this condition, detection methods incorporating sight, sound and smell are acceptable. [40 CFR Part 60.502(j) and 40 CFR Part 63.11089(a)] Federally Enforceable Through Title V Permit
19. An operator or owner may apply for a written approval from the APCO to change the EPA Method 21 leak inspection frequency from quarterly to annually provided no leaks were found during five consecutive quarterly inspections. Upon identification of any leak during an annual inspection, the inspection frequency shall revert back to quarterly, and the operator shall contact the APCO in writing within 14 days. [District Rule 4624] Federally Enforceable Through Title V Permit
20. For monthly leak inspection, a log book shall be used and shall be signed by the owner or operator at the completion of each inspection. A section of the log book shall contain a list, summary description, or diagram(s) showing the location of all equipment in gasoline service at the facility. [40 CFR Part 63.11089(b) and 40 CFR Part 63.11094(d)] Federally Enforceable Through Title V Permit
21. Each calendar month, liquid drainage at disconnect of each loading arm shall be determined, and appropriate action shall be taken in case excess liquid drainage occurs from any loading arm. If no excess drainage conditions are found during five consecutive monthly inspections, the drainage inspection frequency may be changed from monthly to quarterly. However, if one or more excess drainage condition is found during a quarterly inspection, the inspection frequency shall return to monthly. [District Rule 2520] Federally Enforceable Through Title V Permit
22. Liquid drainage inspections shall be completed after midnight and before 10:00 AM the day of inspection. Compliance shall be demonstrated by collecting all drainage at disconnect in a spouted container. The drainage shall be transferred to a graduated cylinder and the volume determined within one minute of collection. [District Rule 2520] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

23. Loading of a delivery vessel shall discontinue if its pressure relief valve opens. Corrective action shall be taken should this condition occur. [District Rule 2520] Federally Enforceable Through Title V Permit
24. Documentation attesting to the vapor tightness of each truck loaded with gasoline shall be kept. The documentation file for each tank truck shall be updated at least once per year to reflect the current test results as determined by EPA method 27. [40 CFR Part 60.505(a) and (b), and 40 CFR Part 63.11094(b)] Federally Enforceable Through Title V Permit
25. The owner or operator shall maintain a log book that contains the following information: 1.) dates of leak inspections, 2.) the nature of the leak and the method of detection; 3.) findings, 4.) corrective action (date each leak is repaired), 5.) repair methods applied in each attempt to repair the leak; 6.) the reason for the delay if the leak is not repaired within 3 calendar days after discovery of the leak; 7.) the date of successful repair of the leak; and 8.) inspector name and signature. [District Rule 4624, 40 CFR Part 60.505(c), 40 CFR Part 63.11089(g), 40 CFR Part 11094(e), and 40 CFR Part 63.11095(a)(3)] Federally Enforceable Through Title V Permit
26. The owner or operator shall submit a semi-annual compliance report that includes each loading of a gasoline cargo tank for which vapor tightness documentation had not been previously obtained by the facility. [40 CFR Part 63.11088(f) and 40 CFR Part 63.11095(a)(2)] Federally Enforceable Through Title V Permit
27. The owner or operator shall keep records of the organic liquids throughput, in gallons from permit units N-829-1 and N-829-2. [District Rules 2201 and 4624] Federally Enforceable Through Title V Permit
28. The owner or operator shall keep records of the cumulative organic liquids throughput on a rolling 12-month basis, in gallons from permit units N-829-1 and N-829-2. The record shall be updated at least weekly. [District Rule2 2201 and 4624] Federally Enforceable Through Title V Permit
29. All records shall be maintained on site for a period of at least five years and shall be made available for District, ARB, or EPA inspection upon request. [District Rules 1070, 2201, 4624, and 40 CFR Part 60.505, and 40 CFR Part 63.11094(a)] Federally Enforceable Through Title V Permit

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-829-5-7

EXPIRATION DATE: 11/30/2020

EQUIPMENT DESCRIPTION:

630,000 GALLON WELDED INTERNAL FLOATING ROOF STORAGE TANK (#1502) WITH A MINISHOE PRIMARY SEAL AND A VAPORFLEX SECONDARY SEAL

PERMIT UNIT REQUIREMENTS

1. The maximum throughput for this tank shall not exceed 15,000 barrels in any one day. [District Rule 2201]
2. The true vapor pressure (TVP) of the organic liquid stored in the tank shall be less than 11 psia at the actual storage temperature of the tank contents. [District Rules 2201 and 4623]
3. {2506} Gaps between the tank shell and the primary seal shall not exceed 1 1/2 inches. [District Rule 4623]
4. {2507} The cumulative length of all gaps between the tank shell and the primary seal greater than 1/2 inch shall not exceed 10% of the circumference of the tank. [District Rule 4623]
5. {2508} The cumulative length of all primary seal gaps greater than 1/8 inch shall not exceed 30% of the circumference of the tank. [District Rule 4623]
6. {2509} No continuous gap in the primary seal greater than 1/8 inch wide shall exceed 10% of the tank circumference. [District Rule 4623]
7. {2510} No gap between the tank shell and the secondary seal shall exceed 1/2 inch. [District Rule 4623]
8. {2511} The cumulative length of all gaps between the tank shell and the secondary seal, greater than 1/8 inch shall not exceed 5% of the tank circumference. [District Rule 4623]
9. {2555} The metallic shoe-type seal shall be installed so that one end of the shoe extends into the stored liquid and the other end extends a minimum vertical distance of 18 inches above the stored liquid surface. [District Rule 4623]
10. {2513} The geometry of the metallic-shoe type seal shall be such that the maximum gap between the shoe and the tank shell shall be no greater than 3 inches for a length of at least 18 inches in the vertical plane above the liquid. [District Rule 4623]
11. {2514} There shall be no holes, tears, or openings in the secondary seal or in the primary seal envelope that surrounds the annular vapor space enclosed by the roof edge, seal fabric, and secondary seal. [District Rule 4623]
12. {2515} The secondary seal shall allow easy insertion of probes of up to 1 1/2 inches in width in order to measure gaps in the primary seal. [District Rule 4623]
13. {2516} The secondary seal shall extend from the roof to the tank shell and shall not be attached to the primary seal. [District Rule 4623]
14. The internal floating roof shall float on the surface of the stored liquid at all times (i.e., off the roof leg supports) except during the initial fill until the roof is lifted off the leg supports and when the tank is completely emptied and subsequently refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible. Whenever the permittee intends to land the roof on its legs, the permittee shall notify the APCO in writing at least five calendar days prior to performing the work. The tank must be in compliance with this rule before it may land on its legs. [District Rule 4623, 40 CFR 60.112b(a)(1) and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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15. All openings in the roof used for sampling and gauging shall provide a projection below the liquid surface to prevent belching of liquid and to prevent entrained or formed organic vapor from escaping from the liquid contents of the tank and shall be equipped with a cover, seal or lid. The cover seal or lid shall be in a closed position, with no visible gaps and be leak-free, except when the device or appurtenance is in use for sampling or gauging. [District Rule 4623 and 40 CFR 60.112b(a)(1)]
16. A leak-free condition is defined as a condition without a gas leak or a liquid leak. A gas leak is defined as a reading in excess of 10,000 parts per million by volume (ppmv), as methane, above background on a portable hydrocarbon detection instrument that is calibrated with methane in accordance with the procedures specified in EPA Method 21. Liquid leak is defined as the dripping of organic liquid at a rate of more than 3 drops per minute. A reading in excess to 10,000 ppmv, as methane, above background, or dripping of organic liquid at a rate of more than 3 drops per minute, is a violation of this permit and Rule 4623 and shall be reported as a deviation. [District Rule 4623] Federally Enforceable Through Title V Permit
17. Each opening in a non-contact internal floating roof except for automatic bleeder vents (vacuum breaker vents) and rim space vents shall provide a projection below the liquid surface. [District Rule 4623, 40 CFR 60.112b(a)(1), and 40 CFR 63.11087(a)]
18. Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, combination manway/vacuum breakers, and stub drains shall be equipped with a cover, or a lid shall be maintained in a closed position at all times (i.e. no visible gaps) except when the device is in use. The cover or lid shall be equipped with a gasket. Covers on each access hatch and automatic gauge float well shall be bolted in place except when they are in use. [District Rule 4623 and 40 CFR 60.112b(a)(1)]
19. Automatic bleeder vents shall be equipped with a gasket and shall be closed at all times when the roof is floating except when the roof is being floated off or is being landed on the leg roof supports. [District Rule 4623 and 40 CFR 60.112b(a)(1)]
20. Rim vents shall be equipped with a gasket and shall be set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting. [District Rule 4623 and 40 CFR 60.112b(a)(1)]
21. Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The well shall have a slit fabric cover that covers at least 90% of the opening. The fabric cover must be impermeable. [District Rule 4623 and 40 CFR 60.112b(a)(1)]
22. 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. The fabric sleeve must be impermeable. [District Rule 4623 and 40 CFR 60.112b(a)(1)]
23. Each penetration of the internal floating roof that allows for the passage of a ladder shall have a gasketed sliding cover. [40 CFR 60.112b(a)(1)]
24. All slotted sampling or gauging wells, and similar fixed projections through the floating roof shall provide a projection below the liquid surface. [District Rule 4623] Federally Enforceable Through Title V Permit
25. The gap between the pole wiper and the slotted guidepole shall not exceed 1/8 inch. [District Rule 4623] Federally Enforceable Through Title V Permit
26. The permittee shall notify the District in writing at least 30 days prior to conduct the visual inspection of the storage vessel, so the District can arrange an observer. [40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
27. For newly constructed, repaired, or rebuilt internal floating roof tanks, the permittee shall visually inspect the internal floating roof and its appurtenant parts, fittings, etc., and measure the gaps of the primary seal and/or secondary seal prior to filling the tank. If there are holes, tears, or other openings in the primary seal, the secondary seal, or the seal fabric or defects in the internal floating roof or its appurtenant parts, components, fittings, etc., the operator shall repair the defects before filling the tank. [District Rule 4623 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

28. The owner or operator shall perform a monthly leak inspection of all equipment in gasoline service, as defined in section 63.11100. For this inspection, detection methods incorporating sight, sound, and smell are acceptable. [40 CFR Part 63.11089(a)] Federally Enforceable Through Title V Permit
29. For monthly leak inspection, a log book shall be used and shall be signed by the owner or operator at the completion of each inspection. A section of the log book shall contain a list, summary description, or diagram(s) showing the location of all equipment in gasoline service at the facility. [40 CFR Part 63.11089(b)] Federally Enforceable Through Title V Permit
30. Each detection of a liquid or vapor leak shall be recorded in the log book. When a leak is detected, an initial attempt at repair shall be made as soon as practicable, but no later than 5 calendar days after the leak is detected. Repair or replacement of leaking equipment shall be completed within 15 calendar days after detection of each leak. Delay of repair of leaking equipment will be allowed if the repair is not feasible within 15 days. The owner or operator shall provide in the semiannual report the reason(s) why the repair was not feasible and the date each repair was completed. [40 CFR Part 63.11089(d)] Federally Enforceable Through Title V Permit
31. The owner or operator shall maintain a log book that contain the following information for a leak during during monthly inspection: 1.) equipment type and identification number; 2.) the nature of the leak (i.e. vapor or liquid) and the method of detection (i.e. sight, sound, or smell); 3.) the date the leak was detected and the date of each attempt to repair the leak; 4.) repair methods applied in each attempt to repair the leak; 5.) repair delayed and the reason for the delay if the leak is not repaired within 15 calendar days after discovery of the leak; 6) the expected date of successful repair of the leak if the leak is not repaired within 15 days; and 7.) the date of successful repair of the leak. [40 CFR 63.11089(g)] Federally Enforceable Through Title V Permit
32. The permittee shall visually inspect, through the manholes, roof hatches, or other opening on the fixed roof, the internal floating roof and its appurtenant parts, fittings, etc., and the primary seal and/or secondary seal at least once every 12 months after the tank is initially filled with an organic liquid. There should be no visible organic liquid on the roof, tank walls, or anywhere. Other than the gap criteria specified by this rule, no holes, tears, or other openings are allowed that would permit the escape of vapors. Any defects found are violations of this rule. [District Rule 4623, 40 CFR 60.113b, and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
33. {2564} The permittee shall conduct actual gap measurements of the primary seal and/or secondary seal at least once every 60 months. [District Rule 4623]
34. If any failure (i.e. visible organic liquid on the internal floating roof, tank walls or anywhere, holes or tears in the seal fabric) is detected during 12 month visual inspection, the permittee shall repair the items or empty and remove the storage vessel from service within 45 days. If the detected failure cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the APCO in the inspection report. Such a request must document that alternate storage capacity is unavailable and specify a schedule of actions the company will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible. [40 CFR 60.113b and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
35. The permittee shall visually inspect the internal floating roof, the primary seal, the secondary seal, gaskets, slotted membranes and sleeve seals (if any) each time the vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10 percent open area, the owner or operator shall repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel. [40 CFR 60.113b and 40 CFR Part 63.11087(c)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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36. The permittee shall notify the District in writing at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by paragraphs (a)(1) and (a)(4) of 40 CFR 60.113b to afford the District the opportunity to have an observer present. If the inspection required by paragraph (a)(4) of 40 CFR 60.113b is not planned and the owner or operator could not have known about the inspection 30 days in advance or refilling the tank, the owner or operator shall notify the District at least 7 days prior to the refilling of the storage vessel. Notification shall be made by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, this notification including the written documentation may be made in writing and sent by express mail so that it is received by the Administrator at least 7 days prior to the refilling. [40 CFR 60.113b]
37. The owner or operator shall report the number of equipment leaks not repaired within 15 days after detection in a semi-annual report. [40 CFR 63.11089(g)] Federally Enforceable Through Title V Permit
38. All covers, seals and lids covering openings in the roof used for sampling and gauging shall be inspected annually by the facility operator to ensure compliance with the provisions of this permit. If one or more of the components are found to leak during an annual inspection, the inspection frequency for that component type shall be changed from annual to quarterly. If none of the components of that type are subsequently found to be leaking during five consecutive inspections, the inspection frequency may be changed from quarterly to annual. Components located in inaccessible (over 15 feet above ground when access is required from the ground or over 6 feet away from a platform when access is required from the platform) locations shall be inspected at least annually and components located in unsafe areas shall be inspected and repaired upon detection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
39. The operator shall determine the presence of gas leaks using portable hydrocarbon detection instrument in accordance with EPA Method 21. The instrument shall be calibrated before use each day of its use by the procedures specified in Method 21 using the following calibration gases: 1.) Zero air (less than 10 ppm of hydrocarbon in air); and 2.) A mixture of methane or n-hexane and air at a concentration of about, but less than, 10,000 ppm methane or n-hexane. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
40. The operator shall maintain an inspection log containing the following: 1.) Type of component leaking; 2.) Date of leak detection, and method of detection; 3.) Date and emission level of recheck after leak is repaired. Leaks over 10,000 ppmv shall be reported as a deviation. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
41. The permittee shall conduct actual gap measurements of the primary seal and/or secondary seal at least once every 60 months. Other than the gap criteria specified by this permit, no holes, tears, or other openings are allowed that would permit the escape of hydrocarbon vapors. Any defects found shall constitute a violation of this rule. [District Rule 4623 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
42. {2706} Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid whenever there is a change in the source or type of organic liquid stored in this tank. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
43. {2592} As used in this permit, the term "source or type" shall mean liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids stored in this unit to determine which are from common source. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
44. The operator shall keep a record of liquids stored in each container, period of storage, and the maximum true vapor pressure of the liquid during the respective storage period. [District Rule 40 CFR 60.116b] Federally Enforceable Through Title V Permit
45. Permittee shall keep a record of the daily quantity of organic liquid loaded into the tank, in barrels. [District Rule 2201]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

46. The permittee shall determine the maximum true vapor pressure of the stored organic liquid on a monthly basis, using the calculation methodology listed in Appendix B of District Rule 4623. The permittee shall keep a record of all Reid vapor pressure measurements for the stored organic liquid and shall use the highest recorded Reid vapor pressure of the month when determining the maximum true vapor pressure. The permittee shall keep a record of the actual storage temperature of the organic storage tank and shall use the highest temperature recorded of the month when determining the maximum true vapor pressure. [District Rule 4623 and 40 CFR 60.116b] Federally Enforceable Through Title V Permit
47. The permittee shall submit the reports of the floating roof tank inspections to the APCO within five calendar days after the completion of the inspection only for those tanks that failed to meet the applicable requirements of Rule 4623, Sections 5.2 through 5.5. The inspection report for tanks that have been determined to be in compliance with the requirements of Sections 5.2 through 5.5 need not be submitted to the APCO, but the inspection report shall be kept on-site and made available upon request by the APCO. The inspection report shall contain all necessary information to demonstrate compliance with the provisions of this rule, including the following: 1.) Date of inspection and names and titles of company personnel doing the inspection; 2.) Tank identification number and Permit to Operate number; 3.) Measurements of the gaps between the tank shell and primary and secondary seals; 4.) Leak-free status of the tank and floating roof deck fittings. Records of the leak-free status shall include the vapor concentration values measured in ppmv. 5.) Data, supported by calculations, demonstrating compliance with the requirements specified in Sections 5.3, 5.4, 5.5.2.3.3, 5.5.2.4.2, and 5.5.2.4.3 of Rule 4623. 6.) Any corrective actions or repairs performed on the tank in order to comply with Rule 4623 and the date(s) such actions were taken. [District Rule 4623 and 40 CFR 63.11087(e)] Federally Enforceable Through Title V Permit
48. The permittee shall maintain the records of the internal floating roof landing activities that are performed pursuant to Rule 4623, Sections 5.3.1.3 and 5.4.3. The records shall include information on the true vapor pressure (TVP), API gravity, storage temperature, type of organic liquid stored in the tank, the purpose of landing the roof on its legs, the date of roof landing, duration the roof was on its legs, the level or height at which the tank roof was set to land on its legs, and the lowest liquid level in the tank. [District Rule 4623] Federally Enforceable Through Title V Permit
49. The following test methods shall be used: ASTM Method D287 for determining API Gravity, ASTM Method D4057 sampling for API Gravity testing; ASTM D323 for determining RVP, and converting RVP to TVP at the tank's maximum organic liquid storage temperature; ARB Method 422 for determining exempt halogenated VOCs in gases; EPA Method 21 for measuring gas-leak concentration. Should the owner or operator wish to use test methods other than the ones mentioned in this condition, the methods must be approved by the District prior to its use. [District Rule 4623] Federally Enforceable Through Title V Permit
50. The operator shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rules 4623 and 2520] Federally Enforceable Through Title V Permit

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-829-6-9

EXPIRATION DATE: 11/30/2020

EQUIPMENT DESCRIPTION:

630,000 GALLON WELDED INTERNAL FLOATING ROOF STORAGE TANK (#1501) WITH A HMT FOAM LOG PRIMARY SEAL AND A HMT VAPOR FLEX SECONDARY SEAL AND A SLOTTED GUIDEPOLE

PERMIT UNIT REQUIREMENTS

1. True vapor pressure of the organic liquid stored shall be less than 11 psia. [District Rule 4623, 5.1.1] Federally Enforceable Through Title V Permit
2. The internal floating roof shall float on the surface of the stored liquid at all times (i.e., off the roof leg supports) except during the initial fill until the roof is lifted off the leg supports and when the tank is completely emptied and subsequently refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible. Whenever the permittee intends to land the roof on its legs, the permittee shall notify the APCO in writing at least five calendar days prior to performing the work. The tank must be in compliance with this rule before it may land on its legs. [District Rule 4623, 5.3.1.3 and 5.4.3 and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
3. VOC emissions shall not exceed 5.6 pounds in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The organic liquid throughput shall not exceed 30,240,000 gallons in any one calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The primary resilient toroid seal shall be mounted on the perimeter of the roof such that it is in contact with the tank's liquid contents at all times while the roof is floating. [District Rule 4623, 5.3.2.3.1 and 5.4.1] Federally Enforceable Through Title V Permit
6. No gap between the tank shell and the primary seal shall exceed 1/2 inch. [District Rule 4623, 5.3.2.3.2 and 5.4.1] Federally Enforceable Through Title V Permit
7. The cumulative length of all primary seal gaps greater than 1/8 inch shall not exceed 5% of the tank circumference. [District Rule 4623, 5.3.2.3.2 and 5.4.1] Federally Enforceable Through Title V Permit
8. No continuous gap in the primary seal greater than 1/8 inch wide shall exceed 10% of the tank circumference. [District Rule 4623, 5.3.2.3.2 and 5.4.1] Federally Enforceable Through Title V Permit
9. No gap between the tank shell and the secondary seal shall exceed 1/2 inch. [District Rule 4623, 5.3.2.3.3 and 5.4.1] Federally Enforceable Through Title V Permit
10. The cumulative length of all gaps between the tank shell and the secondary seal, greater than 1/8 inch shall not exceed 5% of the tank circumference. [District Rule 4623, 5.3.2.3.3 and 5.4.1] Federally Enforceable Through Title V Permit
11. There shall be no holes, tears, or openings in the secondary seal or in the primary seal envelope that surrounds the annular vapor space enclosed by the roof edge, seal fabric, and secondary seal. [District Rule 4623, 5.3.2.3.4 and 5.4.1] Federally Enforceable Through Title V Permit
12. The secondary seal shall allow easy insertion of probes up to 1/2 inch in width in order to measure gaps in the primary seal. [District Rule 4623, 5.3.2.3.5 and 5.4.1] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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13. The secondary seal shall extend from the roof to the tank shell and shall not be attached to the primary seal. [District Rule 4623, 5.3.2.3.6 and 5.4.1] Federally Enforceable Through Title V Permit
14. All slotted sampling or gauging wells, and similar fixed projections through the floating roof shall provide a projection below the liquid surface. [District Rule 4623, 5.5.2.4.1] Federally Enforceable Through Title V Permit
15. The gap between the pole wiper and the slotted guidepole shall not exceed 1/8 inch. [District Rule 4623, 5.5.2.4.3] Federally Enforceable Through Title V Permit
16. All openings in the roof used for sampling and gauging shall provide a projection below the liquid surface to prevent belching of liquid and to prevent entrained or formed organic vapor from escaping from the liquid contents of the tank and shall be equipped with a cover, seal or lid that shall be in a closed position at all times, with no visible gaps and be leak-free, except when the device or appurtenance is in use for sampling or gauging. [District Rule 4623, 5.5.1] Federally Enforceable Through Title V Permit
17. A leak-free condition is defined as a condition without a gas leak or a liquid leak. A gas leak is defined as a reading in excess of 10,000 parts per million by volume (ppmv), as methane, above background on a portable hydrocarbon detection instrument that is calibrated with methane in accordance with the procedures specified in EPA Method 21. Liquid leak is defined as the dripping of organic liquid at a rate of more than 3 drops per minute. A reading in excess to 10,000 ppmv, as methane, above background, or dripping of organic liquid at a rate of more than 3 drops per minute, is a violation of this permit and Rule 4623 and shall be reported as a deviation. [District Rule 4623, 3.11, 3.17, 3.18 and 6.4.8] Federally Enforceable Through Title V Permit
18. Each opening in a non-contact internal floating roof, except for automatic bleeder vents (vacuum breaker vents) and rim space vents, shall provide a projection below the liquid surface. [District Rule 4623, 5.5.2.1.1 and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
19. Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, combination manway/vacuum breakers, 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. [District Rule 4623, 5.5.2.1.2] Federally Enforceable Through Title V Permit
20. Automatic bleeder vents shall be equipped with a gasket and shall 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. [District Rule 4623, 5.5.2.1.3] Federally Enforceable Through Title V Permit
21. Rim 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. [District Rule 4623, 5.5.2.1.4] Federally Enforceable Through Title V Permit
22. Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The well shall have a slit fabric cover that covers at least 90% of the opening. The fabric cover must be impermeable. [District Rule 4623, 5.5.2.1.5] Federally Enforceable Through Title V Permit
23. Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover. The fabric sleeve must be impermeable. [District Rule 4623, 5.5.2.1.6] Federally Enforceable Through Title V Permit
24. The permittee shall notify the District in writing at least 30 days prior to conduct the visual inspection of the storage vessel, so the District can arrange an observer. [40 CFR 60.11087(c)] Federally Enforceable Through Title V Permit
25. For newly constructed, repair, or rebuilt internal floating roof tanks, the permittee shall visually inspect the internal floating roof, and its appurtenant parts, fittings, etc. and measure the gaps of the primary seal and/or secondary seal prior to filling the tank. If holes, tears, or openings in the primary seal, the secondary seal, the seal fabric or defects in the internal floating roof or its appurtenant parts, components, fittings, etc., are found, they shall be repaired prior to filling the tank. [District Rule 4623, 6.1.4.1 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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26. The owner or operator shall perform a monthly leak inspection of all equipment in gasoline service, as defined in section 63.11100. For this inspection, detection methods incorporating sight, sound, and smell are acceptable. [40 CFR Part 63.11089(a)] Federally Enforceable Through Title V Permit
27. For monthly leak inspection, a log book shall be used and shall be signed by the owner or operator at the completion of each inspection. A section of the log book shall contain a list, summary description, or diagram(s) showing the location of all equipment in gasoline service at the facility. [40 CFR Part 63.11089(b)] Federally Enforceable Through Title V Permit
28. Each detection of a liquid or vapor leak shall be recorded in the log book. When a leak is detected, an initial attempt at repair shall be made as soon as practicable, but no later than 5 calendar days after the leak is detected. Repair or replacement of leaking equipment shall be completed within 15 calendar days after detection of each leak. Delay of repair of leaking equipment will be allowed if the repair is not feasible within 15 days. The owner or operator shall provide in the semiannual report the reason(s) why the repair was not feasible and the date each repair was completed. [40 CFR Part 63.11089(d)] Federally Enforceable Through Title V Permit
29. The owner or operator shall maintain a log book that contain the following information for a leak during during monthly inspection: 1.) equipment type and identification number; 2.) the nature of the leak (i.e. vapor or liquid) and the method of detection (i.e. sight, sound, or smell); 3.) the date the leak was detected and the date of each attempt to repair the leak; 4.) repair methods applied in each attempt to repair the leak; 5.) repair delayed and the reason for the delay if the leak is not repaired within 15 calendar days after discovery of the leak; 6) the expected date of successful repair of the leak if the leak is not repaired within 15 days; and 7.) the date of successful repair of the leak. [40 CFR 63.11089(g)] Federally Enforceable Through Title V Permit
30. The permittee shall visually inspect, through the manholes, roof hatches, or other opening on the fixed roof, the internal floating roof and its appurtenant parts, fittings, etc., and the primary seal and/or secondary seal at least once every 12 months after the tank is initially filled with an organic liquid. There should be no visible organic liquid on the roof, tank walls, or anywhere. Other than the gap criteria specified by this rule, no holes, tears, or other openings are allowed that would permit the escape of vapors. Any defects found are violations of this rule. [District Rule 4623, 6.1.4.2 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
31. If any failure (i.e. visible organic liquid on the internal floating roof, tank walls or anywhere, holes or tears in the seal fabric) is detected during 12 month visual inspection, the permittee shall repair the items or empty and remove the storage vessel from service within 45 days. If the detected failure cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the APCO in the inspection report. Such a request must document that alternate storage capacity is unavailable and specify a schedule of actions the company will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible. [40 CFR 60.11087(c)] Federally Enforceable Through Title V Permit
32. The permittee shall visually inspect the internal floating roof, the primary seal, the secondary seal, gaskets, slotted memberanes and sleeve seals (if any) each time the vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10 percent open area, the owner or operator shall repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel. [40 CFR Part 63.11087(c)] Federally Enforceable Through Title V Permit
33. The owner or operator shall report the number of equipment leaks not repaired within 15 days after detection in a semi-annual report. [40 CFR 63.11089(g)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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34. All covers, seals and lids covering openings in the roof used for sampling and gauging shall be inspected annually by the facility operator to ensure compliance with the provisions of this permit. If one or more of the components are found to leak during an annual inspection, the inspection frequency for that component type shall be changed from annual to quarterly. If none of the components of that type are subsequently found to be leaking during five consecutive inspections, the inspection frequency may be changed from quarterly to annual. Components located in inaccessible (over 15 feet above ground when access is required from the ground or over 6 feet away from a platform when access is required from the platform) locations shall be inspected at least annually and components located in unsafe areas shall be inspected and repaired upon detection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
35. The operator shall determine the presence of gas leaks using portable hydrocarbon detection instrument in accordance with EPA Method 21. The instrument shall be calibrated before use each day of its use by the procedures specified in Method 21 using the following calibration gases: 1.) Zero air (less than 10 ppm of hydrocarbon in air); and 2.) A mixture of methane or n-hexane and air at a concentration of about, but less than, 10,000 ppm methane or n-hexane. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
36. The operator shall maintain an inspection log containing the following: 1.) Type of component leaking; 2.) Date of leak detection, and method of detection; 3.) Date and emission level of recheck after leak is repaired. Leaks over 10,000 ppmv shall be reported as a deviation. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
37. The permittee shall conduct actual gap measurements of the primary seal and/or secondary seal at least once every 60 months. Other than the gap criteria specified by this permit, no holes, tears, or other openings are allowed that would permit the escape of hydrocarbon vapors. Any defects found shall constitute a violation of this rule. [District Rule 4623, 6.1.4.3 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
38. {2706} Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid whenever there is a change in the source or type of organic liquid stored in this tank. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
39. {2592} As used in this permit, the term "source or type" shall mean liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids stored in this unit to determine which are from common source. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
40. The operator shall keep a record of liquids stored in each container, period of storage, and the maximum true vapor pressure of the liquid during the respective storage period. [40 CFR 60.113(a)] Federally Enforceable Through Title V Permit
41. The permittee shall determine the maximum true vapor pressure of the stored organic liquid on a monthly basis, using the calculation methodology listed in Appendix B of District Rule 4623. The permittee shall keep a record of all Reid vapor pressure measurements for the stored organic liquid and shall use the highest recorded Reid vapor pressure of the month when determining the maximum true vapor pressure. The permittee shall keep a record of the actual storage temperature of the organic storage tank and shall use the highest temperature recorded of the month when determining the maximum true vapor pressure. [District Rule 4623 and 40 CFR 60.113(b)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

42. The permittee shall submit the reports of the floating roof tank inspections to the APCO within five calendar days after the completion of the inspection only for those tanks that failed to meet the applicable requirements of Rule 4623, Sections 5.2 through 5.5. The inspection report for tanks that have been determined to be in compliance with the requirements of Sections 5.2 through 5.5 need not be submitted to the APCO, but the inspection report shall be kept on-site and made available upon request by the APCO. The inspection report shall contain all necessary information to demonstrate compliance with the provisions of this rule, including the following: 1.) Date of inspection and names and titles of company personnel doing the inspection; 2.) Tank identification number and Permit to Operate number; 3.) Measurements of the gaps between the tank shell and primary and secondary seals; 4.) Leak-free status of the tank and floating roof deck fittings. Records of the leak-free status shall include the vapor concentration values measured in ppmv. 5.) Data, supported by calculations, demonstrating compliance with the requirements specified in Sections 5.3, 5.4, 5.5.2.3.3, 5.5.2.4.2, and 5.5.2.4.3 of Rule 4623. 6.) Any corrective actions or repairs performed on the tank in order to comply with Rule 4623 and the date(s) such actions were taken. [District Rule 4623, 6.3.5 and 40 CFR 63.11087(e)] Federally Enforceable Through Title V Permit
43. The permittee shall maintain the records of the internal floating roof landing activities that are performed pursuant to Rule 4623, Sections 5.3.1.3 and 5.4.3. The records shall include information on the true vapor pressure (TVP), API gravity, storage temperature, type of organic liquid stored in the tank, the purpose of landing the roof on its legs, the date of roof landing, duration the roof was on its legs, the level or height at which the tank roof was set to land on its legs, and the lowest liquid level in the tank. [District Rule 4623, 6.3.7] Federally Enforceable Through Title V Permit
44. The following test methods shall be used: ASTM Method D287 for determining API Gravity, ASTM Method D4057 sampling for API Gravity testing; ASTM D323 for determining RVP, and converting RVP to TVP at the tank's maximum organic liquid storage temperature; ARB Method 422 for determining exempt halogenated VOCs in gases; EPA Method 21 for measuring gas-leak concentration. Should the owner or operator wish to use test methods other than the ones mentioned in this condition, the methods must be approved by the District prior to its use. [District Rule 4623, 6.4] Federally Enforceable Through Title V Permit
45. Records of the cumulative annual organic liquid throughput shall be maintained and updated monthly. [District Rule 2201] Federally Enforceable Through Title V Permit
46. The permittee shall maintain records sufficient to demonstrate compliance with the daily VOC emission limit. These records shall contain the calculated emission quantity as well as each process variable used in the respective calculations/modeling. [District Rule 2080] Federally Enforceable Through Title V Permit
47. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623, 6.3] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-829-7-8

EXPIRATION DATE: 11/30/2020

EQUIPMENT DESCRIPTION:

420,000 GALLON WELDED INTERNAL FLOATING ROOF TANK (#1002) WITH A PRIMARY FOAM LOG SEAL, A SECONDARY WIPER SEAL, AND A SOLID GUIDEPOLE

PERMIT UNIT REQUIREMENTS

1. The tank shall be equipped with a cover consisting of either a pontoon-type or double-deck-type cover which rests upon the surface of the liquid being stored and is equipped with a closure device between the tank shell and roof edge consisting of a primary and a secondary seal. [District Rule 4623, 5.3.1 and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
2. The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel that has a fixed roof. The internal roof shall be floating on the liquid surface except during initial fill and when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible. Whenever the permittee intends to land the roof on it's legs, the permittee shall notify the APCO in writing at least five days prior to performing the work. [District Rule 4623, 5.3.1.3 and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
3. VOC emissions from the storage tank shall not exceed 11.4 pounds in any given day. [District Rule 2201] Federally Enforceable Through Title V Permit
4. True vapor pressure of the organic liquid stored shall be less than 11 psia. [District Rule 4623, 5.1.1] Federally Enforceable Through Title V Permit
5. The primary resilient toroid seal shall be mounted on the perimeter of the roof such that it is in contact with the tank's liquid contents at all times while the roof is floating. [District Rule 4623, 5.3.2.3.1 and 5.4.1] Federally Enforceable Through Title V Permit
6. No gap between the tank shell and the primary seal shall exceed 1/2 inch. [District Rule 4623, 5.3.2.3.2 and 5.4.1] Federally Enforceable Through Title V Permit
7. The cumulative length of all primary seal gaps greater than 1/8 inch shall not exceed 5% of the tank circumference. [District Rule 4623, 5.3.2.3.2 and 5.4.1] Federally Enforceable Through Title V Permit
8. No continuous gap in the primary seal greater than 1/8 inch wide shall exceed 10% of the tank circumference. [District Rule 4623, 5.3.2.3.2 and 5.4.1] Federally Enforceable Through Title V Permit
9. No gap between the tank shell and the secondary seal shall exceed 1/2 inch. [District Rule 4623, 5.3.2.3.3 and 5.4.1] Federally Enforceable Through Title V Permit
10. The cumulative length of all gaps between the tank shell and the secondary seal, greater than 1/8 inch shall not exceed 5% of the tank circumference. [District Rule 4623, 5.3.2.3.3 and 5.4.1] Federally Enforceable Through Title V Permit
11. There shall be no holes, tears, or openings in the secondary seal or in the primary seal envelope that surrounds the annular vapor space enclosed by the roof edge, seal fabric, and secondary seal. [District Rule 4623, 5.3.2.3.4 and 5.4.1] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

12. The secondary seal shall allow easy insertion of probes up to 1/2 inch in width in order to measure gaps in the primary seal. [District Rule 4623, 5.3.2.3.5 and 5.4.1] Federally Enforceable Through Title V Permit
13. The secondary seal shall extend from the roof to the tank shell and shall not be attached to the primary seal. [District Rule 4623, 5.3.2.3.6 and 5.4.1] Federally Enforceable Through Title V Permit
14. All solid sampling or gauging wells, and similar fixed projections through the floating roof shall provide a projection below the liquid surface. [District Rule 4623, 5.5.2.3.1] Federally Enforceable Through Title V Permit
15. The solid guidepole well shall be equipped with a pole wiper and a gasketed cover, seal or lid which shall be in a closed position at all times (i.e, no visible gap) except when the well is in use. [District Rule 4623, 5.5.2.3.2] Federally Enforceable Through Title V Permit
16. The gap between the pole wiper and the solid guidepole shall not exceed 1/2 inch. [District Rule 4623, 5.5.2.3.3] Federally Enforceable Through Title V Permit
17. All openings in the roof used for sampling and gauging shall provide a projection below the liquid surface to prevent belching of liquid and to prevent entrained or formed organic vapor from escaping from the liquid contents of the tank and shall be equipped with a cover, seal or lid that shall be in a closed position at all times, with no visible gaps and be leak-free, except when the device or appurtenance is in use for sampling or gauging. [District Rule 4623, 5.5.1] Federally Enforceable Through Title V Permit
18. A leak-free condition is defined as a condition without a gas leak or a liquid leak. A gas leak is defined as a reading in excess of 10,000 parts per million by volume (ppmv), as methane, above background on a portable hydrocarbon detection instrument that is calibrated with methane in accordance with the procedures specified in EPA Method 21. Liquid leak is defined as the dripping of organic liquid at a rate of more than 3 drops per minute. A reading in excess to 10,000 ppmv, as methane, above background, or dripping of organic liquid at a rate of more than 3 drops per minute, is a violation of this permit and Rule 4623 and shall be reported as a deviation. [District Rule 4623, 3.11, 3.17, 3.18 and 6.4.8] Federally Enforceable Through Title V Permit
19. Each opening in a non-contact internal floating roof, except for automatic bleeder vents (vacuum breaker vents) and rim space vents, shall provide a projection below the liquid surface. [District Rule 4623, 5.5.2.1.1 and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
20. Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, combination manway/vacuum breakers, 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. [District Rule 4623, 5.5.2.1.2] Federally Enforceable Through Title V Permit
21. Automatic bleeder vents shall be equipped with a gasket and shall 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. [District Rule 4623, 5.5.2.1.3] Federally Enforceable Through Title V Permit
22. Rim 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. [District Rule 4623, 5.5.2.1.4] Federally Enforceable Through Title V Permit
23. Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The well shall have a slit fabric cover that covers at least 90% of the opening. The fabric cover must be impermeable. [District Rule 4623, 5.5.2.1.5] Federally Enforceable Through Title V Permit
24. Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover. The fabric sleeve must be impermeable. [District Rule 4623, 5.5.2.1.6] Federally Enforceable Through Title V Permit
25. The permittee shall notify the District in writing at least 30 days prior to conduct the visual inspection of the storage vessel, so the District can arrange an observer. [40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

26. For newly constructed, repair, or rebuilt internal floating roof tanks, the permittee shall visually inspect the internal floating roof, and its appurtenant parts, fittings, etc. and measure the gaps of the primary seal and/or secondary seal prior to filling the tank. If holes, tears, or openings in the primary seal, the secondary seal, the seal fabric or defects in the internal floating roof or its appurtenant parts, components, fittings, etc., are found, they shall be repaired prior to filling the tank. [District Rule 4623, 6.1.4.1 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
27. The owner or operator shall perform a monthly leak inspection of all equipment in gasoline service, as defined in section 63.11100. For this inspection, detection methods incorporating sight, sound, and smell are acceptable. [40 CFR Part 63.11089(a)] Federally Enforceable Through Title V Permit
28. For monthly leak inspection, a log book shall be used and shall be signed by the owner or operator at the completion of each inspection. A section of the log book shall contain a list, summary description, or diagram(s) showing the location of all equipment in gasoline service at the facility. [40 CFR Part 63.11089(b)] Federally Enforceable Through Title V Permit
29. Each detection of a liquid or vapor leak shall be recorded in the log book. When a leak is detected, an initial attempt at repair shall be made as soon as practicable, but no later than 5 calendar days after the leak is detected. Repair or replacement of leaking equipment shall be completed within 15 calendar days after detection of each leak. Delay of repair of leaking equipment will be allowed if the repair is not feasible within 15 days. The owner or operator shall provide in the semiannual report the reason(s) why the repair was not feasible and the date each repair was completed. [40 CFR Part 63.11089(d)] Federally Enforceable Through Title V Permit
30. The owner or operator shall maintain a log book that contain the following information for a leak during during monthly inspection: 1.) equipment type and identification number; 2.) the nature of the leak (i.e. vapor or liquid) and the method of detection (i.e. sight, sound, or smell); 3.) the date the leak was detected and the date of each attempt to repair the leak; 4.) repair methods applied in each attempt to repair the leak; 5.) repair delayed and the reason for the delay if the leak is not repaired within 15 calendar days after discovery of the leak; 6) the expected date of successful repair of the leak if the leak is not repaired within 15 days; and 7.) the date of successful repair of the leak. [40 CFR 63.11089(g)] Federally Enforceable Through Title V Permit
31. The permittee shall visually inspect, through the manholes, roof hatches, or other opening on the fixed roof, the internal floating roof and its appurtenant parts, fittings, etc., and the primary seal and/or secondary seal at least once every 12 months after the tank is initially filled with an organic liquid. There should be no visible organic liquid on the roof, tank walls, or anywhere. Other than the gap criteria specified by this rule, no holes, tears, or other openings are allowed that would permit the escape of vapors. Any defects found are violations of this rule. [District Rule 4623, 6.1.4.2 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
32. If any failure (i.e. visible organic liquid on the internal floating roof, tank walls or anywhere, holes or tears in the seal fabric) is detected during 12 month visual inspection, the permittee shall repair the items or empty and remove the storage vessel from service within 45 days. If the detected failure cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the APCO in the inspection report. Such a request must document that alternate storage capacity is unavailable and specify a schedule of actions the company will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible. [40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
33. The permittee shall visually inspect the internal floating roof, the primary seal, the secondary seal, gaskets, slotted membranes and sleeve seals (if any) each time the vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10 percent open area, the owner or operator shall repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel. [40 CFR Part 63.11087(c)] Federally Enforceable Through Title V Permit
34. The owner or operator shall report the number of equipment leaks not repaired within 15 days after detection in a semi-annual report. [40 CFR 63.11089(g)] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

35. All covers, seals and lids covering openings in the roof used for sampling and gauging shall be inspected annually by the facility operator to ensure compliance with the provisions of this permit. If one or more of the components are found to leak during an annual inspection, the inspection frequency for that component type shall be changed from annual to quarterly. If none of the components of that type are subsequently found to be leaking during five consecutive inspections, the inspection frequency may be changed from quarterly to annual. Components located in inaccessible (over 15 feet above ground when access is required from the ground or over 6 feet away from a platform when access is required from the platform) locations shall be inspected at least annually and components located in unsafe areas shall be inspected and repaired upon detection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
36. The operator shall determine the presence of gas leaks using portable hydrocarbon detection instrument in accordance with EPA Method 21. The instrument shall be calibrated before use each day of its use by the procedures specified in Method 21 using the following calibration gases: 1.) Zero air (less than 10 ppm of hydrocarbon in air); and 2.) A mixture of methane or n-hexane and air at a concentration of about, but less than, 10,000 ppm methane or n-hexane. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
37. The operator shall maintain an inspection log containing the following: 1.) Type of component leaking; 2.) Date of leak detection, and method of detection; 3.) Date and emission level of recheck after leak is repaired. Leaks over 10,000 ppmv shall be reported as a deviation. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
38. The permittee shall conduct actual gap measurements of the primary seal and/or secondary seal at least once every 60 months. Other than the gap criteria specified by this permit, no holes, tears, or other openings are allowed that would permit the escape of hydrocarbon vapors. Any defects found shall constitute a violation of this rule. [District Rule 4623, 6.1.4.3 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
39. {2706} Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid whenever there is a change in the source or type of organic liquid stored in this tank. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
40. {2592} As used in this permit, the term "source or type" shall mean liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids stored in this unit to determine which are from common source. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
41. The operator shall keep a record of liquids stored in each container, period of storage, and the maximum true vapor pressure of the liquid during the respective storage period. [40 CFR 60.113(a)] Federally Enforceable Through Title V Permit
42. The permittee shall determine the maximum true vapor pressure of the stored organic liquid on a monthly basis, using the calculation methodology listed in Appendix B of District Rule 4623. The permittee shall keep a record of all reid vapor pressure measurements for the stored organic liquid and shall use the highest recorded reid vapor pressure of the month when determining the maximum true vapor pressure. The permittee shall keep a record of the actual storage temperature of the organic storage tank and shall use the highest temperature recorded of the month when determining the maximum true vapor pressure. [District Rule 4623 and 40 CFR 60.113(a) and (b)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

43. The permittee shall submit the reports of the floating roof tank inspections to the APCO within five calendar days after the completion of the inspection only for those tanks that failed to meet the applicable requirements of Rule 4623, Sections 5.2 through 5.5. The inspection report for tanks that have been determined to be in compliance with the requirements of Sections 5.2 through 5.5 need not be submitted to the APCO, but the inspection report shall be kept on-site and made available upon request by the APCO. The inspection report shall contain all necessary information to demonstrate compliance with the provisions of this rule, including the following: 1.) Date of inspection and names and titles of company personnel doing the inspection; 2.) Tank identification number and Permit to Operate number; 3.) Measurements of the gaps between the tank shell and primary and secondary seals; 4.) Leak-free status of the tank and floating roof deck fittings. Records of the leak-free status shall include the vapor concentration values measured in ppmv. 5.) Data, supported by calculations, demonstrating compliance with the requirements specified in Sections 5.3, 5.4, 5.5.2.3.3, 5.5.2.4.2, and 5.5.2.4.3 of Rule 4623. 6.) Any corrective actions or repairs performed on the tank in order to comply with Rule 4623 and the date(s) such actions were taken. [District Rule 4623, 6.3.5 and 40 CFR 63.11087(e)] Federally Enforceable Through Title V Permit
44. The permittee shall maintain the records of the internal floating roof landing activities that are performed pursuant to Rule 4623, Sections 5.3.1.3 and 5.4.3. The records shall include information on the true vapor pressure (TVP), API gravity, storage temperature, type of organic liquid stored in the tank, the purpose of landing the roof on its legs, the date of roof landing, duration the roof was on its legs, the level or height at which the tank roof was set to land on its legs, and the lowest liquid level in the tank. [District Rule 4623, 6.3.7] Federally Enforceable Through Title V Permit
45. The following test methods shall be used: ASTM Method D287 for determining API Gravity, ASTM Method D4057 sampling for API Gravity testing; ASTM D323 for determining RVP, and converting RVP to TVP at the tank's maximum organic liquid storage temperature; ARB Method 422 for determining exempt halogenated VOCs in gases; EPA Method 21 for measuring gas-leak concentration. Should the owner or operator wish to use test methods other than the ones mentioned in this condition, the methods must be approved by the District prior to its use. [District Rule 4623, 6.4] Federally Enforceable Through Title V Permit
46. The permittee shall maintain records sufficient to demonstrate compliance with the daily VOC emission limit. These records shall contain the calculated emission quantity as well as each process variable used in the respective calculations/modeling. [District Rule 2080] Federally Enforceable Through Title V Permit
47. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623, 6.3] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-829-16-11

EXPIRATION DATE: 11/30/2020

EQUIPMENT DESCRIPTION:

1,386,000 GALLON INTERNAL FLOATING ROOF MECHANICALLY FASTENED DECK AND WELDED STORAGE TANK (#3301) WITH A MECHANICAL SHOE PRIMARY SEAL AND A WIPER SECONDARY SEAL

PERMIT UNIT REQUIREMENTS

1. True vapor pressure (TVP) of the organic liquid stored shall be less than 11 psia. [District Rule 4623, 5.1.1] Federally Enforceable Through Title V Permit
2. VOC emissions shall not exceed 9.1 pounds in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The organic liquid throughput shall not exceed 33,264,000 gallons during any one rolling 12-month period. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The tank shall be equipped with a fixed roof with an internal floating type cover equipped with a continuous closure device between the tank wall and the cover edge. [40 CFR 60.112a(2) and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
5. The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel that has a fixed roof. The internal roof shall be floating on the liquid surface except during initial fill and when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible. Whenever the permittee intends to land the roof on it's legs, the permittee shall notify the APCO in writing at least five days prior to performing the work. [District Rule 4623, 5.4.1 and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
6. Gaps between the tank shell and the primary seal shall not exceed 1 1/2 inches. [District Rule 4623, 5.3.2.1.1 and 5.4.1] Federally Enforceable Through Title V Permit
7. The cumulative length of all gaps between the tank shell and the primary seal greater than 1/2 inch shall not exceed 10% of the circumference of the tank. [District Rule 4623, 5.3.2.1.1 and 5.4.1] Federally Enforceable Through Title V Permit
8. The cumulative length of all primary seal gaps greater than 1/8 inch shall not exceed 30% of the circumference of the tank. [District Rule 4623, 5.3.2.1.1 and 5.4.1] Federally Enforceable Through Title V Permit
9. No continuous gap in the primary seal greater than 1/8 inch wide shall exceed 10% of the tank circumference. [District Rule 4623, 5.3.2.1.1 and 5.4.1] Federally Enforceable Through Title V Permit
10. No gap between the tank shell and the secondary seal shall exceed 1/2 inch. [District Rule 4623, 5.3.2.1.2 and 5.4.1] Federally Enforceable Through Title V Permit
11. The cumulative length of all gaps between the tank shell and the secondary seal, greater than 1/8 inch shall not exceed 5% of the tank circumference. [District Rule 4623, 5.3.2.1.2 and 5.4.1] Federally Enforceable Through Title V Permit
12. The metallic shoe-type seal shall be installed so that one end of the shoe extends into the stored liquid and the other end extends a minimum vertical distance of 18 inches above the stored liquid surface. [District Rule 4623, 5.3.2.1.3 and 5.4.1] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

13. The geometry of the metallic-shoe type seal shall be such that the maximum gap between the shoe and the tank shell shall be no greater than 3 inches for a length of at least 18 inches in the vertical plane above the liquid. [District Rule 4623, 5.3.2.1.4 and 5.4.1] Federally Enforceable Through Title V Permit
14. There shall be no holes, tears, or openings in the secondary seal or in the primary seal envelope that surrounds the annular vapor space enclosed by the roof edge, seal fabric, and secondary seal. [District Rule 4623, 5.3.2.1.5 and 5.4.1] Federally Enforceable Through Title V Permit
15. The secondary seal shall allow easy insertion of probes of up to 1 1/2 inches in width in order to measure gaps in the primary seal. [District Rule 4623, 5.3.2.1.6 and 5.4.1] Federally Enforceable Through Title V Permit
16. The secondary seal shall extend from the roof to the tank shell and shall not be attached to the primary seal. [District Rule 4623, 5.3.2.1.7 and 5.4.1] Federally Enforceable Through Title V Permit
17. All openings in the roof used for sampling and gauging shall provide a projection below the liquid surface to prevent belching of liquid and to prevent entrained or formed organic vapor from escaping from the liquid contents of the tank and shall be equipped with a cover, seal or lid that shall be in a closed position at all times, with no visible gaps and be leak free, except when the device or appurtenance is in use for sampling and gauging. [District Rule 5.5.2.1.2] Federally Enforceable Through Title V Permit
18. A leak-free condition is defined as a condition without a gas leak or a liquid leak. A gas leak is defined as a reading in excess of 10,000 parts per million by volume (ppmv), as methane, above background on a portable hydrocarbon detection instrument that is calibrated with methane in accordance with the procedures specified in EPA Method 21. Liquid leak is defined as the dripping of organic liquid at a rate of more than 3 drops per minute. A reading in excess to 10,000 ppmv, as methane, above background, or dripping of organic liquid at a rate of more than 3 drops per minute, is a violation of this permit and Rule 4623 and shall be reported as a deviation. [District Rule 4623, 3.11, 3.17, 3.18 and 6.4.8] Federally Enforceable Through Title V Permit
19. Each opening in a non-contact internal floating roof, except for automatic bleeder vents (vacuum breaker vents) and rim space vents, shall provide a projection below the liquid surface. [District Rule 4623, 5.5.2.1.1 and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
20. Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, combination manway/vacuum breakers, 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. [District Rule 4623, 5.5.2.1.2] Federally Enforceable Through Title V Permit
21. Automatic bleeder vents shall be equipped with a gasket and shall 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. [District Rule 4623, 5.5.2.1.3] Federally Enforceable Through Title V Permit
22. Rim 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. [District Rule 4623, 5.5.2.1.4] Federally Enforceable Through Title V Permit
23. Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover. The fabric sleeve must be impermeable. [District Rule 4623, 5.5.2.1.6] Federally Enforceable Through Title V Permit
24. Slotted sampling or gauging wells shall meet the following requirements: 1) The well shall provide a projection below the liquid surface; 2) The well shall be equipped with the following: a sliding cover, a well gasket, a pole sleeve, a pole wiper, and an internal float and float wiper designed to minimize the gap between the float and the well, and provided the gap shall not exceed one-eighth (1/8) inch; or shall be equipped with a well gasket, a zero gap pole wiper seal and a pole sleeve that projects below the liquid surface; and 3) The gap between the pole wiper and the guidepole shall be added to the gaps measured to determine compliance with the secondary seal requirement, and in no case shall exceed one-eighth (1/8) inch. [District Rule 4623, 5.5.2.4] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

25. The permittee shall notify the District in writing at least 30 days prior to conduct the visual inspection of the storage vessel, so the District can arrange an observer. [40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
26. For newly constructed, repaired, or rebuilt internal floating roof tanks, the permittee shall visually inspect the internal floating roof, and its appurtenant parts, fittings, etc. and measure the gaps of the primary seal and/or secondary seal prior to filling the tank. If holes, tears, or openings in the primary seal, the secondary seal, the seal fabric or defects in the internal floating roof or its appurtenant parts, components, fittings, etc., are found, they shall be repaired prior to filling the tank. [District Rule 4623, 6.1.4.1 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
27. The owner or operator shall perform a monthly leak inspection of all equipment in gasoline service, as defined in section 63.11100. For this inspection, detection methods incorporating sight, sound, and smell are acceptable. [40 CFR Part 63.11089(a)] Federally Enforceable Through Title V Permit
28. For monthly leak inspection, a log book shall be used and shall be signed by the owner or operator at the completion of each inspection. A section of the log book shall contain a list, summary description, or diagram(s) showing the location of all equipment in gasoline service at the facility. [40 CFR Part 63.11089(b)] Federally Enforceable Through Title V Permit
29. Each detection of a liquid or vapor leak shall be recorded in the log book. When a leak is detected, an initial attempt at repair shall be made as soon as practicable, but no later than 5 calendar days after the leak is detected. Repair or replacement of leaking equipment shall be completed within 15 calendar days after detection of each leak. Delay of repair of leaking equipment will be allowed if the repair is not feasible within 15 days. The owner or operator shall provide in the semiannual report the reason(s) why the repair was not feasible and the date each repair was completed. [40 CFR Part 63.11089(d)] Federally Enforceable Through Title V Permit
30. The owner or operator shall maintain a log book that contain the following information for a leak during during monthly inspection: 1.) equipment type and identification number; 2.) the nature of the leak (i.e. vapor or liquid) and the method of detection (i.e. sight, sound, or smell); 3.) the date the leak was detected and the date of each attempt to repair the leak; 4.) repair methods applied in each attempt to repair the leak; 5.) repair delayed and the reason for the delay if the leak is not repaired within 15 calendar days after discovery of the leak; 6) the expected date of successful repair of the leak if the leak is not repaired within 15 days; and 7.) the date of successful repair of the leak. [40 CFR 63.11089(g)] Federally Enforceable Through Title V Permit
31. The permittee shall visually inspect, through the manholes, roof hatches, or other opening on the fixed roof, the internal floating roof and its appurtenant parts, fittings, etc., and the primary seal and/or secondary seal at least once every 12 months after the tank is initially filled with an organic liquid. There should be no visible organic liquid on the roof, tank walls, or anywhere. Other than the gap criteria specified by this rule, no holes, tears, or other openings are allowed that would permit the escape of vapors. Any defects found are violations of this rule. [District Rule 4623, 6.1.4.2 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
32. If any failure (i.e. visible organic liquid on the internal floating roof, tank walls or anywhere, holes or tears in the seal fabric) is detected during 12 month visual inspection, the permittee shall repair the items or empty and remove the storage vessel from service within 45 days. If the detected failure cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the APCO in the inspection report. Such a request must document that alternate storage capacity is unavailable and specify a schedule of actions the company will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible. [40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
33. The permittee shall visually inspect the internal floating roof, the primary seal, the secondary seal, gaskets, slotted memberanes and sleeve seals (if any) each time the vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10 percent open area, the owner or operator shall repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel. [40 CFR Part 63.11087(c)] Federally Enforceable Through Title V Permit
34. The owner or operator shall report the number of equipment leaks not repaired within 15 days after detection in a semi-annual report. [40 CFR 63.11089(g)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

35. All covers, seals and lids covering openings in the roof used for sampling and gauging shall be inspected annually by the facility operator to ensure compliance with the provisions of this permit. If one or more of the components are found to leak during an annual inspection, the inspection frequency for that component type shall be changed from annual to quarterly. If none of the components of that type are subsequently found to be leaking during five consecutive inspections, the inspection frequency may be changed from quarterly to annual. Components located in inaccessible (over 15 feet above ground when access is required from the ground or over 6 feet away from a platform when access is required from the platform) locations shall be inspected at least annually and components located in unsafe areas shall be inspected and repaired upon detection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
36. The operator shall determine the presence of gas leaks using portable hydrocarbon detection instrument in accordance with EPA Method 21. The instrument shall be calibrated before use each day of its use by the procedures specified in Method 21 using the following calibration gases: 1.) Zero air (less than 10 ppm of hydrocarbon in air); and 2.) A mixture of methane or n-hexane and air at a concentration of about, but less than, 10,000 ppm methane or n-hexane. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
37. The operator shall maintain an inspection log containing the following: 1.) Type of component leaking; 2.) Date of leak detection, and method of detection; 3.) Date and emission level of recheck after leak is repaired. Leaks over 10,000 ppmv shall be reported as a deviation. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
38. The permittee shall conduct actual gap measurements of the primary seal and/or secondary seal at least once every 60 months. Other than the gap criteria specified by this permit, no holes, tears, or other openings are allowed that would permit the escape of hydrocarbon vapors. Any defects found shall constitute a violation of this rule. [District Rule 4623, 6.1.4.3 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
39. {2706} Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid whenever there is a change in the source or type of organic liquid stored in this tank. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
40. The permittee shall determine the maximum true vapor pressure of the stored organic liquid on a monthly basis, using the calculation methodology listed in Appendix B of District Rule 4623. The permittee shall keep a record of all Reid vapor pressure measurements for the stored organic liquid and shall use the highest recorded Reid vapor pressure of the month when determining the maximum true vapor pressure. The permittee shall keep a record of the actual storage temperature of the organic storage tank and shall use the highest temperature recorded of the month when determining the maximum true vapor pressure. [District Rule 4623] Federally Enforceable Through Title V Permit
41. {2592} As used in this permit, the term "source or type" shall mean liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids stored in this unit to determine which are from common source. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
42. The permittee shall submit the reports of the floating roof tank inspections to the APCO within five calendar days after the completion of the inspection only for those tanks that failed to meet the applicable requirements of Rule 4623, Sections 5.2 through 5.5. The inspection report for tanks that have been determined to be in compliance with the requirements of Sections 5.2 through 5.5 need not be submitted to the APCO, but the inspection report shall be kept on-site and made available upon request by the APCO. The inspection report shall contain all necessary information to demonstrate compliance with the provisions of this rule, including the following: 1.) Date of inspection and names and titles of company personnel doing the inspection; 2.) Tank identification number and Permit to Operate number; 3.) Measurements of the gaps between the tank shell and primary and secondary seals; 4.) Leak-free status of the tank and floating roof deck fittings. Records of the leak-free status shall include the vapor concentration values measured in ppmv. 5.) Data, supported by calculations, demonstrating compliance with the requirements specified in Sections 5.3, 5.4, 5.5.2.3.3, 5.5.2.4.2, and 5.5.2.4.3 of Rule 4623. 6.) Any corrective actions or repairs performed on the tank in order to comply with Rule 4623 and the date(s) such actions were taken. [District Rule 4623, 6.3.5 and 40 CFR 63.11087(e)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

43. The permittee shall maintain the records of the internal floating roof landing activities that are performed pursuant to Rule 4623, Sections 5.3.1.3 and 5.4.3. The records shall include information on the true vapor pressure (TVP), API gravity, storage temperature, type of organic liquid stored in the tank, the purpose of landing the roof on its legs, the date of roof landing, duration the roof was on its legs, the level or height at which the tank roof was set to land on its legs, and the lowest liquid level in the tank. [District Rule 4623, 6.3.7] Federally Enforceable Through Title V Permit
44. The following test methods shall be used: ASTM Method D287 for determining API Gravity, ASTM Method D4057 sampling for API Gravity testing; ASTM D323 for determining RVP, and converting RVP to TVP at the tank's maximum organic liquid storage temperature; ARB Method 422 for determining exempt halogenated VOCs in gases; EPA Method 21 for measuring gas-leak concentration. Should the owner or operator wish to use test methods other than the ones mentioned in this condition, the methods must be approved by the District prior to its use. [District Rule 4623,6.4] Federally Enforceable Through Title V Permit
45. On a monthly basis, the permittee shall calculate and record organic liquid throughput, in gallons, for the previous 12-consecutive months. [District Rule 2201] Federally Enforceable Through Title V Permit
46. The permittee shall maintain records sufficient to demonstrate compliance with the daily VOC emission limit. These records shall contain the calculated emission quantity as well as each process variable used in the respective calculations/modeling. [District Rules 2080 and 2201] Federally Enforceable Through Title V Permit
47. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623, 6.3] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-829-17-10

EXPIRATION DATE: 11/30/2020

EQUIPMENT DESCRIPTION:

1,008,000 GALLON WELDED INTERNAL FLOATING ROOF STORAGE TANK (#2401) WITH A MECHANICAL SHOE PRIMARY SEAL AND A WIPER SECONDARY SEAL, AND A SLOTTED GUIDE POLE WITH INTERNAL FLOAT AND POLE SLEEVE

PERMIT UNIT REQUIREMENTS

1. True vapor pressure (TVP) of the organic liquid stored shall be less than 11 psia. [District Rule 4623] Federally Enforceable Through Title V Permit
2. VOC emissions shall not exceed 19.9 pounds in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The organic liquid throughput shall not exceed 24,192,000 gallons in any one calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The tank shall be equipped with a fixed roof with an internal floating type cover equipped with a continuous closure device between the tank wall and the cover edge. [40 CFR 60.112a(2) and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
5. The slotted guide pole shall be equipped with a float, a sleeve and a wiper and the pole shall have no openings above the tank's roof; all slots between the floating roof deck and liquid surface shall be covered by the vapor tight sleeve. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel that has a fixed roof. The internal roof shall be floating on the liquid surface except during initial fill and when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible. Whenever the permittee intends to land the roof on it's legs, the permittee shall notify the APCO in writing at least five days prior to performing the work. [District Rule 4623 and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
7. Gaps between the tank shell and the primary seal shall not exceed 1 1/2 inches. [District Rule 4623] Federally Enforceable Through Title V Permit
8. The cumulative length of all gaps between the tank shell and the primary seal greater than 1/2 inch shall not exceed 10% of the circumference of the tank. [District Rule 4623] Federally Enforceable Through Title V Permit
9. The cumulative length of all primary seal gaps greater than 1/8 inch shall not exceed 30% of the circumference of the tank. [District Rule 4623] Federally Enforceable Through Title V Permit
10. No continuous gap in the primary seal greater than 1/8 inch wide shall exceed 10% of the tank circumference. [District Rule 4623] Federally Enforceable Through Title V Permit
11. No gap between the tank shell and the secondary seal shall exceed 1/2 inch. [District Rule 4623] Federally Enforceable Through Title V Permit
12. The cumulative length of all gaps between the tank shell and the secondary seal, greater than 1/8 inch shall not exceed 5% of the tank circumference. [District Rule 4623] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

13. The metallic shoe-type seal shall be installed so that one end of the shoe extends into the stored liquid and the other end extends a minimum vertical distance of 18 inches above the stored liquid surface. [District Rule 4623] Federally Enforceable Through Title V Permit
14. The geometry of the metallic-shoe type seal shall be such that the maximum gap between the shoe and the tank shell shall be no greater than 3 inches for a length of at least 18 inches in the vertical plane above the liquid. [District Rule 4623] Federally Enforceable Through Title V Permit
15. There shall be no holes, tears, or openings in the secondary seal or in the primary seal envelope that surrounds the annular vapor space enclosed by the roof edge, seal fabric, and secondary seal. [District Rule 4623] Federally Enforceable Through Title V Permit
16. The secondary seal shall allow easy insertion of probes of up to 1 1/2 inches in width in order to measure gaps in the primary seal. [District Rule 4623] Federally Enforceable Through Title V Permit
17. The secondary seal shall extend from the roof to the tank shell and shall not be attached to the primary seal. [District Rule 4623] Federally Enforceable Through Title V Permit
18. All openings in the roof used for sampling and gauging shall provide a projection below the liquid surface to prevent belching of liquid and to prevent entrained or formed organic vapor from escaping from the liquid contents of the tank and shall be equipped with a cover, seal or lid that shall be in a closed position at all times, with no visible gaps and be leak free, except when the device or appurtenance is in use for sampling and gauging. [District Rule 4623] Federally Enforceable Through Title V Permit
19. A leak-free condition is defined as a condition without a gas leak or a liquid leak. A gas leak is defined as a reading in excess of 10,000 parts per million by volume (ppmv), as methane, above background on a portable hydrocarbon detection instrument that is calibrated with methane in accordance with the procedures specified in EPA Method 21. Liquid leak is defined as the dripping of organic liquid at a rate of more than 3 drops per minute. A reading in excess to 10,000 ppmv, as methane, above background, or dripping of organic liquid at a rate of more than 3 drops per minute, is a violation of this permit and Rule 4623 and shall be reported as a deviation. [District Rule 4623] Federally Enforceable Through Title V Permit
20. Each opening in a non-contact internal floating roof, except for automatic bleeder vents (vacuum breaker vents) and rim space vents, shall provide a projection below the liquid surface. [District Rule 4623 and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
21. Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, combination manway/vacuum breakers, 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. [District Rule 4623] Federally Enforceable Through Title V Permit
22. Automatic bleeder vents shall be equipped with a gasket and shall 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. [District Rule 4623] Federally Enforceable Through Title V Permit
23. Rim 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. [District Rule 4623] Federally Enforceable Through Title V Permit
24. Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The well shall have a slit fabric cover that covers at least 90% of the opening. The fabric cover must be impermeable. [District Rule 4623] Federally Enforceable Through Title V Permit
25. Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover. The fabric sleeve must be impermeable. [District Rule 4623] Federally Enforceable Through Title V Permit
26. The permittee shall notify the District in writing at least 30 days prior to conduct the visual inspection of the storage vessel, so the District can arrange an observer. [40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

27. For newly constructed, repaired, or rebuilt internal floating roof tanks, the permittee shall visually inspect the internal floating roof, and its appurtenant parts, fittings, etc. and measure the gaps of the primary seal and/or secondary seal prior to filling the tank. If holes, tears, or openings in the primary seal, the secondary seal, the seal fabric or defects in the internal floating roof or its appurtenant parts, components, fittings, etc., are found, they shall be repaired prior to filling the tank. [District Rule 4623 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
28. The owner or operator shall perform a monthly leak inspection of all equipment in gasoline service, as defined in section 63.11100. For this inspection, detection methods incorporating sight, sound, and smell are acceptable. [40 CFR Part 63.11089(a)] Federally Enforceable Through Title V Permit
29. For monthly leak inspection, a log book shall be used and shall be signed by the owner or operator at the completion of each inspection. A section of the log book shall contain a list, summary description, or diagram(s) showing the location of all equipment in gasoline service at the facility. [40 CFR Part 63.11089(b)] Federally Enforceable Through Title V Permit
30. Each detection of a liquid or vapor leak shall be recorded in the log book. When a leak is detected, an initial attempt at repair shall be made as soon as practicable, but no later than 5 calendar days after the leak is detected. Repair or replacement of leaking equipment shall be completed within 15 calendar days after detection of each leak. Delay of repair of leaking equipment will be allowed if the repair is not feasible within 15 days. The owner or operator shall provide in the semiannual report the reason(s) why the repair was not feasible and the date each repair was completed. [40 CFR Part 63.11089(d)] Federally Enforceable Through Title V Permit
31. The owner or operator shall maintain a log book that contain the following information for a leak during during monthly inspection: 1.) equipment type and identification number; 2.) the nature of the leak (i.e. vapor or liquid) and the method of detection (i.e. sight, sound, or smell); 3.) the date the leak was detected and the date of each attempt to repair the leak; 4.) repair methods applied in each attempt to repair the leak; 5.) repair delayed and the reason for the delay if the leak is not repaired within 15 calendar days after discovery of the leak; 6) the expected date of successful repair of the leak if the leak is not repaired within 15 days; and 7.) the date of successful repair of the leak. [40 CFR 63.11089(g)] Federally Enforceable Through Title V Permit
32. The permittee shall visually inspect, through the manholes, roof hatches, or other opening on the fixed roof, the internal floating roof and its appurtenant parts, fittings, etc., and the primary seal and/or secondary seal at least once every 12 months after the tank is initially filled with an organic liquid. There should be no visible organic liquid on the roof, tank walls, or anywhere. Other than the gap criteria specified by this rule, no holes, tears, or other openings are allowed that would permit the escape of vapors. Any defects found are violations of this rule. [District Rule 4623 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
33. If any failure (i.e. visible organic liquid on the internal floating roof, tank walls or anywhere, holes or tears in the seal fabric) is detected during 12 month visual inspection, the permittee shall repair the items or empty and remove the storage vessel from service within 45 days. If the detected failure cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the APCO in the inspection report. Such a request must document that alternate storage capacity is unavailable and specify a schedule of actions the company will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible. [40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
34. The permittee shall visually inspect the internal floating roof, the primary seal, the secondary seal, gaskets, slotted pole membranes and sleeve and sleeve seals (if any) each time the vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10 percent open area, the owner or operator shall repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel. [40 CFR Part 63.11087(c)] Federally Enforceable Through Title V Permit
35. The owner or operator shall report the number of equipment leaks not repaired within 15 days after detection in a semi-annual report. [40 CFR 63.11089(g)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

36. All covers, seals and lids covering openings in the roof used for sampling and gauging shall be inspected annually by the facility operator to ensure compliance with the provisions of this permit. If one or more of the components are found to leak during an annual inspection, the inspection frequency for that component type shall be changed from annual to quarterly. If none of the components of that type are subsequently found to be leaking during five consecutive inspections, the inspection frequency may be changed from quarterly to annual. Components located in inaccessible (over 15 feet above ground when access is required from the ground or over 6 feet away from a platform when access is required from the platform) locations shall be inspected at least annually and components located in unsafe areas shall be inspected and repaired upon detection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
37. The operator shall determine the presence of gas leaks using portable hydrocarbon detection instrument in accordance with EPA Method 21. The instrument shall be calibrated before use each day of its use by the procedures specified in Method 21 using the following calibration gases: 1.) Zero air (less than 10 ppm of hydrocarbon in air); and 2.) A mixture of methane or n-hexane and air at a concentration of about, but less than, 10,000 ppm methane or n-hexane. [District Rule 2520] Federally Enforceable Through Title V Permit
38. The operator shall maintain an inspection log containing the following: 1.) Type of component leaking; 2.) Date of leak detection, and method of detection; 3.) Date and emission level of recheck after leak is repaired. Leaks over 10,000 ppmv shall be reported as a deviation. [District Rule 2520] Federally Enforceable Through Title V Permit
39. The permittee shall conduct actual gap measurements of the primary seal and/or secondary seal at least once every 60 months. Other than the gap criteria specified by this permit, no holes, tears, or other openings are allowed that would permit the escape of hydrocarbon vapors. Any defects found shall constitute a violation of this rule. [District Rule 4623 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
40. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid whenever there is a change in the source or type of organic liquid stored in this tank. [District Rule 2520] Federally Enforceable Through Title V Permit
41. The permittee shall determine the maximum true vapor pressure of the stored organic liquid on a monthly basis, using the calculation methodology listed in Appendix B of District Rule 4623. The permittee shall keep a record of all Reid vapor pressure measurements for the stored organic liquid and shall use the highest recorded Reid vapor pressure of the month when determining the maximum true vapor pressure. The permittee shall keep a record of the actual storage temperature of the organic storage tank and shall use the highest temperature recorded of the month when determining the maximum true vapor pressure. [District Rule 4623] Federally Enforceable Through Title V Permit
42. As used in this permit, the term "source or type" shall mean liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids stored in this unit to determine which are from common source. [District Rule 2520] Federally Enforceable Through Title V Permit
43. The permittee shall submit the reports of the floating roof tank inspections to the APCO within five calendar days after the completion of the inspection only for those tanks that failed to meet the applicable requirements of Rule 4623, Sections 5.2 through 5.5. The inspection report for tanks that have been determined to be in compliance with the requirements of Sections 5.2 through 5.5 need not be submitted to the APCO, but the inspection report shall be kept on-site and made available upon request by the APCO. The inspection report shall contain all necessary information to demonstrate compliance with the provisions of this rule, including the following: 1.) Date of inspection and names and titles of company personnel doing the inspection; 2.) Tank identification number and Permit to Operate number; 3.) Measurements of the gaps between the tank shell and primary and secondary seals; 4.) Leak-free status of the tank and floating roof deck fittings. Records of the leak-free status shall include the vapor concentration values measured in ppmv. 5.) Data, supported by calculations, demonstrating compliance with the requirements specified in Sections 5.3, 5.4, 5.5.2.3.3, 5.5.2.4.2, and 5.5.2.4.3 of Rule 4623. 6.) Any corrective actions or repairs performed on the tank in order to comply with Rule 4623 and the date(s) such actions were taken. [District Rule 4623 and 40 CFR 63.11087(e)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

44. The permittee shall maintain the records of the internal floating roof landing activities that are performed pursuant to Rule 4623, Sections 5.3.1.3 and 5.4.3. The records shall include information on the true vapor pressure (TVP), API gravity, storage temperature, type of organic liquid stored in the tank, the purpose of landing the roof on its legs, the date of roof landing, duration the roof was on its legs, the level or height at which the tank roof was set to land on its legs, and the lowest liquid level in the tank. [District Rule 4623] Federally Enforceable Through Title V Permit
45. The following test methods shall be used: ASTM Method D287 for determining API Gravity, ASTM Method D4057 sampling for API Gravity testing; ASTM D323 for determining RVP, and converting RVP to TVP at the tank's maximum organic liquid storage temperature; ARB Method 422 for determining exempt halogenated VOCs in gases; EPA Method 21 for measuring gas-leak concentration. Should the owner or operator wish to use test methods other than the ones mentioned in this condition, the methods must be approved by the District prior to its use. [District Rule 4623] Federally Enforceable Through Title V Permit
46. Records of the cumulative annual organic liquid throughput shall be maintained and updated monthly. [District Rule 2201] Federally Enforceable Through Title V Permit
47. The permittee shall maintain records sufficient to demonstrate compliance with the daily VOC emission limit. These records shall contain the calculated emission quantity as well as each process variable used in the respective calculations/modeling. [District Rules 2080 and 2201] Federally Enforceable Through Title V Permit
48. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

DRAFT

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-829-18-11

EXPIRATION DATE: 11/30/2020

EQUIPMENT DESCRIPTION:

1,008,000 GALLON WELDED INTERNAL FLOATING ROOF ORGANIC LIQUID STORAGE TANK (#2402) WITH A PRIMARY MECHANICAL SHOE SEAL, A SECONDARY WIPER SEAL, AND A SLOTTED GUIDEPOLE

PERMIT UNIT REQUIREMENTS

1. True vapor pressure (TVP) of the organic liquid stored shall be less than 11 psia. [District Rule 4623] Federally Enforceable Through Title V Permit
2. VOC emissions shall not exceed 14.2 pounds in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The organic liquid throughput shall not exceed 24,192,000 gallons in any one calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The tank shall be equipped with a fixed roof with an internal floating type cover equipped with a continuous closure device between the tank wall and the cover edge. [40 CFR 60.112a(2) and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
5. The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel that has a fixed roof. The internal roof shall be floating on the liquid surface except during initial fill and when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible. Whenever the permittee intends to land the roof on it's legs, the permittee shall notify the APCO in writing at least five days prior to performing the work. [District Rule 4623, 40 CFR 60.112a(2) and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
6. Gaps between the tank shell and the primary seal shall not exceed 1 1/2 inches. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The cumulative length of all gaps between the tank shell and the primary seal greater than 1/2 inch shall not exceed 10% of the circumference of the tank. [District Rule 4623] Federally Enforceable Through Title V Permit
8. The cumulative length of all primary seal gaps greater than 1/8 inch shall not exceed 30% of the circumference of the tank. [District Rule 4623] Federally Enforceable Through Title V Permit
9. No continuous gap in the primary seal greater than 1/8 inch wide shall exceed 10% of the tank circumference. [District Rule 4623] Federally Enforceable Through Title V Permit
10. No gap between the tank shell and the secondary seal shall exceed 1/2 inch. [District Rule 4623] Federally Enforceable Through Title V Permit
11. The cumulative length of all gaps between the tank shell and the secondary seal, greater than 1/8 inch shall not exceed 5% of the tank circumference. [District Rule 4623] Federally Enforceable Through Title V Permit
12. The metallic shoe-type seal shall be installed so that one end of the shoe extends into the stored liquid and the other end extends a minimum vertical distance of 18 inches above the stored liquid surface. [District Rule 4623] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

13. The geometry of the metallic-shoe type seal shall be such that the maximum gap between the shoe and the tank shell shall be no greater than 3 inches for a length of at least 18 inches in the vertical plane above the liquid. [District Rule 4623] Federally Enforceable Through Title V Permit
14. There shall be no holes, tears, or openings in the secondary seal or in the primary seal envelope that surrounds the annular vapor space enclosed by the roof edge, seal fabric, and secondary seal. [District Rule 4623] Federally Enforceable Through Title V Permit
15. The secondary seal shall allow easy insertion of probes of up to 1 1/2 inches in width in order to measure gaps in the primary seal. [District Rule 4623] Federally Enforceable Through Title V Permit
16. The secondary seal shall extend from the roof to the tank shell and shall not be attached to the primary seal. [District Rule 4623] Federally Enforceable Through Title V Permit
17. All openings in the roof used for sampling and gauging, except pressure-vacuum valves which shall be set to within 10% of the maximum allowable working pressure of the roof, shall provide a projection below the liquid surface to prevent belching of liquid and to prevent entrained or formed organic vapor from escaping from the liquid contents of the tank and shall be equipped with a cover, seal or lid that shall be in a closed position at all times, with no visible gaps and be leak free, except when the device or appurtenance is in use for sampling or gauging. [District Rule 4623] Federally Enforceable Through Title V Permit
18. A leak-free condition is defined as a condition without a gas leak or a liquid leak. A gas leak is defined as a reading in excess of 10,000 parts per million by volume (ppmv), as methane, above background on a portable hydrocarbon detection instrument that is calibrated with methane in accordance with the procedures specified in EPA Method 21. Liquid leak is defined as the dripping of organic liquid at a rate of more than 3 drops per minute. A reading in excess to 10,000 ppmv, as methane, above background, or dripping of organic liquid at a rate of more than 3 drops per minute, is a violation of this permit and Rule 4623 and shall be reported as a deviation. [District Rule 4623] Federally Enforceable Through Title V Permit
19. Each opening in a non-contact internal floating roof, except for automatic bleeder vents (vacuum breaker vents) and rim space vents, shall provide a projection below the liquid surface. [District Rule 4623 and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
20. Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, combination manway/vacuum breakers, 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. [District Rule 4623] Federally Enforceable Through Title V Permit
21. Automatic bleeder vents shall be equipped with a gasket and shall 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. [District Rule 4623] Federally Enforceable Through Title V Permit
22. Rim 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. [District Rule 4623] Federally Enforceable Through Title V Permit
23. Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The well shall have a slit fabric cover that covers at least 90% of the opening. The fabric cover must be impermeable. [District Rule 4623] Federally Enforceable Through Title V Permit
24. Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover. The fabric sleeve must be impermeable. [District Rule 4623] Federally Enforceable Through Title V Permit
25. All slotted sampling or gauging wells shall provide a projection below the liquid surface. [District Rule 4623] Federally Enforceable Through Title V Permit
26. The gap between the pole wiper and the slotted guidepole shall be added to the gaps measured to determine compliance with the secondary seal requirement, and in no case shall exceed one-eighth inch. [District Rule 4623] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

27. The permittee shall notify the District in writing at least 30 days prior to conduct the visual inspection of the storage vessel, so the District can arrange an observer. [40 CFR 60.11087(c)] Federally Enforceable Through Title V Permit
28. For newly constructed, repaired, or rebuilt internal floating roof tanks, the permittee shall visually inspect the internal floating roof, and its appurtenant parts, fittings, etc. and measure the gaps of the primary seal and/or secondary seal prior to filling the tank. If holes, tears, or openings in the primary seal, the secondary seal, the seal fabric or defects in the internal floating roof or its appurtenant parts, components, fittings, etc., are found, they shall be repaired prior to filling the tank. [District Rule 4623, 6.1.4.1 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
29. The owner or operator shall perform a monthly leak inspection of all equipment in gasoline service, as defined in section 63.11100. For this inspection, detection methods incorporating sight, sound, and smell are acceptable. [40 CFR Part 63.11089(a)] Federally Enforceable Through Title V Permit
30. For monthly leak inspection, a log book shall be used and shall be signed by the owner or operator at the completion of each inspection. A section of the log book shall contain a list, summary description, or diagram(s) showing the location of all equipment in gasoline service at the facility. [40 CFR Part 63.11089(b)] Federally Enforceable Through Title V Permit
31. Each detection of a liquid or vapor leak shall be recorded in the log book. When a leak is detected, an initial attempt at repair shall be made as soon as practicable, but no later than 5 calendar days after the leak is detected. Repair or replacement of leaking equipment shall be completed within 15 calendar days after detection of each leak. Delay of repair of leaking equipment will be allowed if the repair is not feasible within 15 days. The owner or operator shall provide in the semiannual report the reason(s) why the repair was not feasible and the date each repair was completed. [40 CFR Part 63.11089(d)] Federally Enforceable Through Title V Permit
32. The owner or operator shall maintain a log book that contain the following information for a leak during during monthly inspection: 1.) equipment type and identification number; 2.) the nature of the leak (i.e. vapor or liquid) and the method of detection (i.e. sight, sound, or smell); 3.) the date the leak was detected and the date of each attempt to repair the leak; 4.) repair methods applied in each attempt to repair the leak; 5.) repair delayed and the reason for the delay if the leak is not repaired within 15 calendar days after discovery of the leak; 6) the expected date of successful repair of the leak if the leak is not repaired within 15 days; and 7.) the date of successful repair of the leak. [40 CFR 63.11089(g)] Federally Enforceable Through Title V Permit
33. The permittee shall visually inspect, through the manholes, roof hatches, or other opening on the fixed roof, the internal floating roof and its appurtenant parts, fittings, etc., and the primary seal and/or secondary seal at least once every 12 months after the tank is initially filled with an organic liquid. There should be no visible organic liquid on the roof, tank walls, or anywhere. Other than the gap criteria specified by this rule, no holes, tears, or other openings are allowed that would permit the escape of vapors. Any defects found are violations of this rule. [District Rule 4623, 6.1.4.2 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
34. If any failure (i.e. visible organic liquid on the internal floating roof, tank walls or anywhere, holes or tears in the seal fabric) is detected during 12 month visual inspection, the permittee shall repair the items or empty and remove the storage vessel from service within 45 days. If the detected failure cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the APCO in the inspection report. Such a request must document that alternate storage capacity is unavailable and specify a schedule of actions the company will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible. [40 CFR 60.11087(c)] Federally Enforceable Through Title V Permit
35. The permittee shall visually inspect the internal floating roof, the primary seal, the secondary seal, gaskets, slotted memberanes and sleeve seals (if any) each time the vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10 percent open area, the owner or operator shall repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel. [40 CFR Part 63.11087(c)] Federally Enforceable Through Title V Permit
36. The owner or operator shall report the number of equipment leaks not repaired within 15 days after detection in a semi-annual report. [40 CFR 63.11089(g)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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37. All covers, seals and lids covering openings in the roof used for sampling and gauging shall be inspected annually by the facility operator to ensure compliance with the provisions of this permit. If one or more of the components are found to leak during an annual inspection, the inspection frequency for that component type shall be changed from annual to quarterly. If none of the components of that type are subsequently found to be leaking during five consecutive inspections, the inspection frequency may be changed from quarterly to annual. Components located in inaccessible (over 15 feet above ground when access is required from the ground or over 6 feet away from a platform when access is required from the platform) locations shall be inspected at least annually and components located in unsafe areas shall be inspected and repaired upon detection. [District Rule 2520] Federally Enforceable Through Title V Permit
38. The operator shall determine the presence of gas leaks using portable hydrocarbon detection instrument in accordance with EPA Method 21. The instrument shall be calibrated before use each day of its use by the procedures specified in Method 21 using the following calibration gases: 1.) Zero air (less than 10 ppm of hydrocarbon in air); and 2.) A mixture of methane or n-hexane and air at a concentration of about, but less than, 10,000 ppm methane or n-hexane. [District Rule 2520] Federally Enforceable Through Title V Permit
39. The operator shall maintain an inspection log containing the following: 1.) Type of component leaking; 2.) Date of leak detection, and method of detection; 3.) Date and emission level of recheck after leak is repaired. Leaks over 10,000 ppmv shall be reported as a deviation. [District Rule 2520] Federally Enforceable Through Title V Permit
40. The permittee shall conduct actual gap measurements of the primary seal and/or secondary seal at least once every 60 months. Other than the gap criteria specified by this permit, no holes, tears, or other openings are allowed that would permit the escape of hydrocarbon vapors. Any defects found shall constitute a violation of this permit. [District Rule 4623 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
41. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid whenever there is a change in the source or type of organic liquid stored in this tank. [District Rule 2520] Federally Enforceable Through Title V Permit
42. As used in this permit, the term "source or type" shall mean liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids stored in this unit to determine which are from common source. [District Rule 2520] Federally Enforceable Through Title V Permit
43. The operator shall keep a record of liquids stored in each container, period of storage, and the maximum true vapor pressure of the liquid during the respective storage period. [40 CFR 60.115a(a)] Federally Enforceable Through Title V Permit
44. {2733} Maximum true vapor pressure may be determined from nomographs contained in API Bulletin 2517, by using the typical Reid vapor pressure and the maximum expected storage temperature of the stored product, unless the APCO specifically requests that the liquid be sampled, the actual storage temperature determined, and the Reid vapor pressure determined from the sample(s). [40 CFR 60.115a(b)] Federally Enforceable Through Title V Permit
45. The permittee shall submit the reports of the floating roof tank inspections to the APCO within five calendar days after the completion of the inspection only for those tanks that failed to meet the applicable requirements of Rule 4623, Sections 5.2 through 5.5. The inspection report for tanks that have been determined to be in compliance with the requirements of Sections 5.2 through 5.5 need not be submitted to the APCO, but the inspection report shall be kept on-site and made available upon request by the APCO. The inspection report shall contain all necessary information to demonstrate compliance with the provisions of this rule, including the following: 1.) Date of inspection and names and titles of company personnel doing the inspection; 2.) Tank identification number and Permit to Operate number; 3.) Measurements of the gaps between the tank shell and primary and secondary seals; 4.) Leak-free status of the tank and floating roof deck fittings. Records of the leak-free status shall include the vapor concentration values measured in ppmv. 5.) Data, supported by calculations, demonstrating compliance with the requirements specified in Sections 5.3, 5.4, 5.5.2.3.3, 5.5.2.4.2, and 5.5.2.4.3 of Rule 4623. 6.) Any corrective actions or repairs performed on the tank in order to comply with Rule 4623 and the date(s) such actions were taken. [District Rule 4623 and 40 CFR 63.11087(e)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

46. The permittee shall maintain the records of the internal floating roof landing activities that are performed pursuant to Rule 4623, Sections 5.3.1.3 and 5.4.3. The records shall include information on the true vapor pressure (TVP), API gravity, storage temperature, type of organic liquid stored in the tank, the purpose of landing the roof on its legs, the date of roof landing, duration the roof was on its legs, the level or height at which the tank roof was set to land on its legs, and the lowest liquid level in the tank. [District Rule 4623] Federally Enforceable Through Title V Permit
47. The following test methods shall be used: ASTM Method D287 for determining API Gravity, ASTM Method D4057 sampling for API Gravity testing; ASTM D323 for determining RVP, and converting RVP to TVP at the tank's maximum organic liquid storage temperature; ARB Method 422 for determining exempt halogenated VOCs in gases; EPA Method 21 for measuring gas-leak concentration. Should the owner or operator wish to use test methods other than the ones mentioned in this condition, the methods must be approved by the District prior to its use. [District Rule 4623] Federally Enforceable Through Title V Permit
48. Records of the cumulative annual organic liquid throughput shall be maintained and updated monthly. [District Rule 2201] Federally Enforceable Through Title V Permit
49. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-829-20-10

EXPIRATION DATE: 11/30/2020

EQUIPMENT DESCRIPTION:

VAPOR COMBUSTION SYSTEM CONSISTING OF A 300,000 GALLON VAPOR HOLDING TANK, A VAPOR PROCESSING AND CONVEYING SYSTEM, AND A 40 MMBTU/HR PROPANE FIRED JOHN ZINK ZCT-2-8-35-X-2/8-X VAPOR COMBUSTION UNIT (VCU)

PERMIT UNIT REQUIREMENTS

1. The VOC destruction efficiency shall be at least 99% and all gasoline loading shall be conducted utilizing bottom loading and dry-break couplers. [District Rule 4102]
2. Gasoline shall be loaded only into vapor tight tank trucks. [40 CFR Part 60.502(e)] Federally Enforceable Through Title V Permit
3. The facility shall obtain the vapor tightness documentation specified in 40 CFR Part 60.505(b) for each gasoline tank truck that is to be loaded at the facility. [40 CFR Part 60.502(e)(1)] Federally Enforceable Through Title V Permit
4. VOC emissions from the vapor recovery system shall not exceed 0.08 pounds per thousand gallons of gasoline loaded. [District Rules 4624, 5.1.1, San Joaquin County Rule 412, and 40 CFR 63.11088(a)] Federally Enforceable Through Title V Permit
5. The vapor collection system shall be operated in a manner to prevent any organic vapors collected at one loading rack from passing to another loading rack. [40 CFR 63.11088(a)] Federally Enforceable Through Title V Permit
6. The vapor collection and control system shall operate such that the pressure in the delivery tank being loaded does not exceed 18 inches water column pressure and 6 inches water column vacuum. [District Rule 4624] Federally Enforceable Through Title V Permit
7. The combined quantity of gasoline loaded through permit units N-829-1 and N-829-2 shall not exceed 756,000,000 gallons during any one calendar year. This annual limit shall be lowered in the event that the CARB certifies the vapor recovery system can process VOC emissions with a daily gasoline throughput of less than 2,071,233 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The combined quantity of gasoline loaded through permit units N-829-1 and N-829-2 shall not exceed 2,071,233 gallons during any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The vapor combustor's combustion chamber shall be configured to operate with logic controls set to shut the vapor combustor system down and close the block valve to receiving vapors if the operating temperature does not reach a minimum of 900 degrees Fahrenheit within 10 minutes. [District Rules 2201, 4102, and 40 CFR 63.11088(d)] Federally Enforceable Through Title V Permit
10. The vapor combustor shall be equipped for continuous monitoring and recording of combustion temperature. Temperature charts shall be made available to the District upon request. [District Rule 2201, 40 CFR Part 64 and 40 CFR 63.11088(d)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

11. Should the vapor combustor's operating temperature fall below 900 degrees Fahrenheit, the permittee shall investigate the cause and take corrective action to return the operating temperature to an acceptable level as soon as possible, but no longer than one hour after initial detection. If the operating temperature cannot be raised to an acceptable value within one hour after detection, the permittee shall notify the District within the following hour and conduct a certified source test within 60 days of initial detection. In lieu of conducting a source test, the permittee may stipulate a violation that is subject to enforcement action has occurred. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviation is a result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [40 CFR Part 64] Federally Enforceable Through Title V Permit
12. Loading and vapor collection and control equipment shall be designed, installed, maintained, and operated such that there are no leaks. A leak is defined as the dripping of organic compounds at a rate of more than three drops per minute or the detection of organic compounds, in excess of 10,000 ppm as methane measured at the surface of the component interface from potential source in accordance with EPA Method 21. [District Rule 4624 and San Joaquin County Rule 412] Federally Enforceable Through Title V Permit
13. The vapor collection system, the vapor destruction device and each transfer rack shall be tested for leaks at least once every calendar quarter with a portable hydrocarbon analyzer in accordance with EPA Method 21. [District Rule 4624] Federally Enforceable Through Title V Permit
14. The equipment that are found leaking shall be repair or replaced within 72 hours after detecting the leakage. If the leaking component cannot be repaired or replaced within 72 hours, the component shall be taken out of service until such time the component is repaired or replaced. The repaired or replacement equipment shall be reinspected the first time the equipment is in operation after the repair or replacement. [District Rule 4624] Federally Enforceable Through Title V Permit
15. Each calendar month, the vapor collection system, the vapor processing system and each loading rack handling gasoline shall be inspected during the loading of gasoline tank trucks for organic liquid and organic vapor leaks. For the purpose of this condition, detection methods incorporating sight, sound and smell are acceptable. Each detection of a leak shall be recorded and the source of the leak repaired within 15 days after it is detected. [40 CFR Part 60.502(j) and 40 CFR Part 63.11089(a)] Federally Enforceable Through Title V Permit
16. A log book shall be used and shall be signed by the owner or operator at the completion of each inspection. A section of the log book shall contain a list, summary description, or diagram(s) showing the location of all equipment in gasoline service at the facility. [40 CFR Part 63.11089(b)] Federally Enforceable Through Title V Permit
17. Each detection of a liquid or vapor leak shall be recorded in the log book. When a leak is detected, an initial attempt at repair shall be made as soon as practicable, but no later than 5 calendar days after the leak is detected. Repair or replacement of leaking equipment shall be completed within 15 calendar days after detection of each leak. Delay of repair of leaking equipment will be allowed if the repair is not feasible within 15 days. The owner or operator shall provide in the semiannual report the reason(s) why the repair was not feasible and the date each repair was completed. [40 CFR Part 63.11089(d)] Federally Enforceable Through Title V Permit
18. The owner or operator shall maintain a log book that contain the following information: 1.) dates of leak inspections, 2.) the nature of the leak (i.e. vapor or liquid) and the method of detection; 3.) findings, 4.) corrective action, 5.) repair methods applied in each attempt to repair the leak; 6.) repair delayed and the reason for the delay if the leak is not repaired within 15 calendar days after discovery of the leak; 7.) the expected date of successful repair of the leak if the leak is not repaired within 15 days; 8.) the date of successful repair of the leak; and 9.) inspector name and signature. [District Rule 4624, 40 CFR Part 60.505 (c) and 40 CFR 63.11089(g)] Federally Enforceable Through Title V Permit
19. The owner or operator shall report the number of equipment leaks not repaired within 15 days after detection in a semi-annual report. [40 CFR 63.11089(g)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

20. During source testing the loading rack's vapor collection and control system (VCCS) shall be tested at every loading position to demonstrate the pressure in the delivery tanks being loaded complies with the requirements specified in this permit. Compliance shall be determined by calibrating and installing a liquid manometer, magnehelic device, or other instrument demonstrated to be equivalent, capable of measuring up to 500 mm water gauge pressure with a precision of 2.5 mm water gauge, on the terminal's VCCS at a pressure tap as close as possible to the connection with the product tank truck. The highest instantaneous pressure measurement as well as all pressure measurements at 5 minute intervals during delivery vessel loading must be recorded. [District Rule 2520 and 40 CFR 60.503(d)] Federally Enforceable Through Title V Permit
21. Source testing to determine compliance with the emission rate and VOC destruction efficiency requirements of this permit shall be conducted at least once every 60 months. [District Rules 2201 and 4624] Federally Enforceable Through Title V Permit
22. Source testing shall be conducted using methods and procedures approved by District. The District must be notified 30 days prior to any compliance source testing and a pretest plan outlining the test methods and procedures shall be submitted for the District approval no later than 15 days prior to each test. [District Rule 1081] Federally Enforceable Through Title V Permit
23. Source testing shall be witnessed or authorized by District Personnel. [District Rule 1081] Federally Enforceable Through Title V Permit
24. VOC emissions from the vapor collection and control system shall be determined using 40 CFR 60.503 "Test Methods and Procedures" and EPA Reference Methods 2A, 2B, 25A, 25B, and ARB Method 422, or ARB Test Procedure TP-203.1. [District Rule 4624 and San Joaquin County Rule 412] Federally Enforceable Through Title V Permit
25. Source testing for VOC destruction efficiency shall be conducted utilizing EPA Method 18, EPA Method 25A or CARB Method 100. Alternative methods may be utilized provided they are previously approved by the District, in writing. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
26. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
27. A log of all breakdowns of the vapor recovery system indicating the times, dates and gallons processed during the breakdown periods shall be maintained on the premises at all times and shall be made available for District inspection upon request. [District Rule 2520] Federally Enforceable Through Title V Permit
28. A record of the daily quantity of gasoline loaded from the loading racks operating under Permits to Operate N-829-1 and N-829-2 shall be kept. [District Rules 2520, 4624] Federally Enforceable Through Title V Permit
29. A record of the cumulative annual quantity of gasoline loaded from the loading racks operating under Permits to Operate N-829-1 and N-829-2 shall be kept. The record shall be updated at least monthly. [District Rule 2520] Federally Enforceable Through Title V Permit
30. Documentation attesting to the vapor tightness of each truck loaded with gasoline shall be kept. The documentation file for each tank truck shall be updated at least once per year to reflect the current test results as determined by EPA method 27. [40 CFR Part 60.5059(a) and 40 CFR 63.11094(b)] Federally Enforceable Through Title V Permit
31. The semi-annual compliance report shall include each loading of a gasoline cargo tank for which vapor tightness documentation had not been previously obtained by the facility. [40 CFR 63.11088(f)] Federally Enforceable Through Title V Permit
32. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rules 1070, 4624] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-829-21-7

EXPIRATION DATE: 11/30/2020

EQUIPMENT DESCRIPTION:

1,328,124 GALLON WELDED INTERNAL FLOATING ROOF STORAGE TANK (#3302) WITH A MECHANICAL SHOE PRIMARY SEAL, A WIPER SECONDARY SEAL AND A SLOTTED GUIDEPOLE

PERMIT UNIT REQUIREMENTS

1. True vapor pressure of the organic liquid stored shall be less than 11 psia. [District Rule 4623, 5.1.1] Federally Enforceable Through Title V Permit
2. The tank shall be equipped with a fixed roof with an internal floating type cover equipped with a continuous closure device between the tank wall and the cover edge. [40 CFR 60.112a(2) and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
3. The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel that has a fixed roof. The internal roof shall be floating on the liquid surface except during initial fill and when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible. Whenever the permittee intends to land the roof on it's legs, the permittee shall notify the APCO in writing at least five days prior to performing the work. [District Rule 4623, 5.3.1.3 and 5.4.3, 40 CFR 60.112a(2) and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
4. Gaps between the tank shell and the primary seal shall not exceed 1 1/2 inches. [District Rule 4653, 5.3.2.1.1 and 5.4.1] Federally Enforceable Through Title V Permit
5. The cumulative length of all gaps between the tank shell and the primary seal greater than 1/2 inch shall not exceed 10% of the circumference of the tank. [District Rule 4623, 5.3.2.1.1 and 5.4.1] Federally Enforceable Through Title V Permit
6. The cumulative length of all primary seal gaps greater than 1/8 inch shall not exceed 30% of the circumference of the tank. [District Rule 4623, 5.3.2.1.1 and 5.4.1] Federally Enforceable Through Title V Permit
7. No continuous gap in the primary seal greater than 1/8 inch wide shall exceed 10% of the tank circumference. [District Rule 4623, 5.3.2.1.1 and 5.4.1] Federally Enforceable Through Title V Permit
8. No gap between the tank shell and the secondary seal shall exceed 1/2 inch. [District Rule 4623, 5.3.2.1.2 and 5.4.1] Federally Enforceable Through Title V Permit
9. The cumulative length of all gaps between the tank shell and the secondary seal, greater than 1/8 inch shall not exceed 5% of the tank circumference. [District Rule 4623, 5.3.2.1.2 and 5.4.1] Federally Enforceable Through Title V Permit
10. The metallic shoe-type seal shall be installed so that one end of the shoe extends into the stored liquid and the other end extends a minimum vertical distance of 18 inches above the stored liquid surface. [District Rule 4623, 5.3.2.1.3 and 5.4.1] Federally Enforceable Through Title V Permit
11. The geometry of the metallic-shoe type seal shall be such that the maximum gap between the shoe and the tank shell shall be no greater than 3 inches for a length of at least 18 inches in the vertical plane above the liquid. [District Rule 4623, 5.3.2.1.4 and 5.4.1] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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12. There shall be no holes, tears, or openings in the secondary seal or in the primary seal envelope that surrounds the annular vapor space enclosed by the roof edge, seal fabric, and secondary seal. [District Rule 4623, 5.3.2.1.5 and 5.4.1] Federally Enforceable Through Title V Permit
13. The secondary seal shall allow easy insertion of probes of up to 1 1/2 inches in width in order to measure gaps in the primary seal. [District Rule 4623, 5.3.2.1.6 and 5.4.1] Federally Enforceable Through Title V Permit
14. The secondary seal shall extend from the roof to the tank shell and shall not be attached to the primary seal. [District Rule 4623, 5.3.2.1.7 and 5.4.1] Federally Enforceable Through Title V Permit
15. All openings in the roof used for sampling and gauging shall provide a projection below the liquid surface to prevent belching of liquid and to prevent entrained or formed organic vapor from escaping from the liquid contents of the tank and shall be equipped with a cover, seal or lid that shall be in a closed position at all times, with no visible gaps and be leak free, except when the device or appurtenance is in use for sampling or gauging. [District Rule 4623, 5.5.1] Federally Enforceable Through Title V Permit
16. A leak-free condition is defined as a condition without a gas leak or a liquid leak. A gas leak is defined as a reading in excess of 10,000 parts per million by volume (ppmv), as methane, above background on a portable hydrocarbon detection instrument that is calibrated with methane in accordance with the procedures specified in EPA Method 21. Liquid leak is defined as the dripping of organic liquid at a rate of more than 3 drops per minute. A reading in excess to 10,000 ppmv, as methane, above background, or dripping of organic liquid at a rate of more than 3 drops per minute, is a violation of this permit and Rule 4623 and shall be reported as a deviation. [District Rule 4623, 3.11, 3.17, 3.18 and 6.4.8] Federally Enforceable Through Title V Permit
17. Each opening in a non-contact internal floating roof, except for automatic bleeder vents (vacuum breaker vents) and rim space vents, shall provide a projection below the liquid surface. [District Rule 4623, 5.5.2.1.1 and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
18. Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, combination manway/vacuum breakers, 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. [District Rule 4623, 5.5.2.1.2] Federally Enforceable Through Title V Permit
19. Automatic bleeder vents shall be equipped with a gasket and shall 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. [District Rule 4623, 5.5.2.1.3] Federally Enforceable Through Title V Permit
20. Rim 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. [District Rule 4623, 5.5.2.1.4] Federally Enforceable Through Title V Permit
21. Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The well shall have a slit fabric cover that covers at least 90% of the opening. The fabric cover must be impermeable. [District Rule 4623, 5.5.2.1.5] Federally Enforceable Through Title V Permit
22. Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover. The fabric sleeve must be impermeable. [District Rule 4623, 5.5.2.1.6] Federally Enforceable Through Title V Permit
23. All slotted sampling or gauging wells, and similar fixed projections through the floating roof shall provide a projection below the liquid surface. [District Rule 4623, 5.5.2.4.1] Federally Enforceable Through Title V Permit
24. The gap between the pole wiper and the slotted guidepole shall be added to the gaps measured to determine compliance with the secondary seal requirement, and in no case shall not exceed 1/8 inch. [District Rule 4623, 5.5.2.4.3] Federally Enforceable Through Title V Permit
25. The permittee shall notify the District in writing at least 30 days prior to conduct the visual inspection of the storage vessel, so the District can arrange an observer. [40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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26. For newly constructed, repaired, or rebuilt internal floating roof tanks, the permittee shall visually inspect the internal floating roof, and its appurtenant parts, fittings, etc. and measure the gaps of the primary seal and/or secondary seal prior to filling the tank. If holes, tears, or openings in the primary seal, the secondary seal, the seal fabric or defects in the internal floating roof or its appurtenant parts, components, fittings, etc., are found, they shall be repaired prior to filling the tank. [District Rule 4623, 6.1.4.1 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
27. The owner or operator shall perform a monthly leak inspection of all equipment in gasoline service, as defined in section 63.11100. For this inspection, detection methods incorporating sight, sound, and smell are acceptable. [40 CFR Part 63.11089(a)] Federally Enforceable Through Title V Permit
28. For monthly leak inspection, a log book shall be used and shall be signed by the owner or operator at the completion of each inspection. A section of the log book shall contain a list, summary description, or diagram(s) showing the location of all equipment in gasoline service at the facility. [40 CFR Part 63.11089(b)] Federally Enforceable Through Title V Permit
29. Each detection of a liquid or vapor leak shall be recorded in the log book. When a leak is detected, an initial attempt at repair shall be made as soon as practicable, but no later than 5 calendar days after the leak is detected. Repair or replacement of leaking equipment shall be completed within 15 calendar days after detection of each leak. Delay of repair of leaking equipment will be allowed if the repair is not feasible within 15 days. The owner or operator shall provide in the semiannual report the reason(s) why the repair was not feasible and the date each repair was completed. [40 CFR Part 63.11089(d)] Federally Enforceable Through Title V Permit
30. The owner or operator shall maintain a log book that contain the following information for a leak during during monthly inspection: 1.) equipment type and identification number; 2.) the nature of the leak (i.e. vapor or liquid) and the method of detection (i.e. sight, sound, or smell); 3.) the date the leak was detected and the date of each attempt to repair the leak; 4.) repair methods applied in each attempt to repair the leak; 5.) repair delayed and the reason for the delay if the leak is not repaired within 15 calendar days after discovery of the leak; 6) the expected date of successful repair of the leak if the leak is not repaired within 15 days; and 7.) the date of successful repair of the leak. [40 CFR 63.11089(g)] Federally Enforceable Through Title V Permit
31. The permittee shall visually inspect, through the manholes, roof hatches, or other opening on the fixed roof, the internal floating roof and its appurtenant parts, fittings, etc., and the primary seal and/or secondary seal at least once every 12 months after the tank is initially filled with an organic liquid. There should be no visible organic liquid on the roof, tank walls, or anywhere. Other than the gap criteria specified by this rule, no holes, tears, or other openings are allowed that would permit the escape of vapors. Any defects found are violations of this rule. [District Rule 4623, 6.1.4.2 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
32. If any failure (i.e. visible organic liquid on the internal floating roof, tank walls or anywhere, holes or tears in the seal fabric) is detected during 12 month visual inspection, the permittee shall repair the items or empty and remove the storage vessel from service within 45 days. If the detected failure cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the APCO in the inspection report. Such a request must document that alternate storage capacity is unavailable and specify a schedule of actions the company will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible. [40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
33. The permittee shall visually inspect the internal floating roof, the primary seal, the secondary seal, gaskets, slotted membranes and sleeve seals (if any) each time the vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10 percent open area, the owner or operator shall repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel. [40 CFR Part 63.11087(c)] Federally Enforceable Through Title V Permit
34. The owner or operator shall report the number of equipment leaks not repaired within 15 days after detection in a semi-annual report. [40 CFR 63.11089(g)] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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35. All covers, seals and lids covering openings in the roof used for sampling and gauging shall be inspected annually by the facility operator to ensure compliance with the provisions of this permit. If one or more of the components are found to leak during an annual inspection, the inspection frequency for that component type shall be changed from annual to quarterly. If none of the components of that type are subsequently found to be leaking during five consecutive inspections, the inspection frequency may be changed from quarterly to annual. Components located in inaccessible (over 15 feet above ground when access is required from the ground or over 6 feet away from a platform when access is required from the platform) locations shall be inspected at least annually and components located in unsafe areas shall be inspected and repaired upon detection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
36. The operator shall determine the presence of gas leaks using portable hydrocarbon detection instrument in accordance with EPA Method 21. The instrument shall be calibrated before use each day of its use by the procedures specified in Method 21 using the following calibration gases: 1.) Zero air (less than 10 ppm of hydrocarbon in air); and 2.) A mixture of methane or n-hexane and air at a concentration of about, but less than, 10,000 ppm methane or n-hexane. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
37. The operator shall maintain an inspection log containing the following: 1.) Type of component leaking; 2.) Date of leak detection, and method of detection; 3.) Date and emission level of recheck after leak is repaired. Leaks over 10,000 ppmv shall be reported as a deviation. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
38. The permittee shall conduct actual gap measurements of the primary seal and/or secondary seal at least once every 60 months. Other than the gap criteria specified by this permit, no holes, tears, or other openings are allowed that would permit the escape of hydrocarbon vapors. Any defects found shall constitute a violation of this permit. [District Rule 4623, 6.1.4.3 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
39. {2706} Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid whenever there is a change in the source or type of organic liquid stored in this tank. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
40. {2592} As used in this permit, the term "source or type" shall mean liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids stored in this unit to determine which are from common source. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
41. The operator shall keep a record of liquids stored in each container, period of storage, and the maximum true vapor pressure of the liquid during the respective storage period. [40 CFR 60.115a(a)] Federally Enforceable Through Title V Permit
42. The permittee shall determine the maximum true vapor pressure of the stored organic liquid on a monthly basis, using the calculation methodology listed in Appendix B of District Rule 4623. The permittee shall keep a record of all reid vapor pressure measurements for the stored organic liquid and shall use the highest recorded reid vapor pressure of the month when determining the maximum true vapor pressure. The permittee shall keep a record of the actual storage temperature of the organic storage tank and shall use the highest temperature recorded of the month when determining the maximum true vapor pressure. [40 CFR 60.115a(b)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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43. The permittee shall submit the reports of the floating roof tank inspections to the APCO within five calendar days after the completion of the inspection only for those tanks that failed to meet the applicable requirements of Rule 4623, Sections 5.2 through 5.5. The inspection report for tanks that have been determined to be in compliance with the requirements of Sections 5.2 through 5.5 need not be submitted to the APCO, but the inspection report shall be kept on-site and made available upon request by the APCO. The inspection report shall contain all necessary information to demonstrate compliance with the provisions of this rule, including the following: 1.) Date of inspection and names and titles of company personnel doing the inspection; 2.) Tank identification number and Permit to Operate number; 3.) Measurements of the gaps between the tank shell and primary and secondary seals; 4.) Leak-free status of the tank and floating roof deck fittings. Records of the leak-free status shall include the vapor concentration values measured in ppmv. 5.) Data, supported by calculations, demonstrating compliance with the requirements specified in Sections 5.3, 5.4, 5.5.2.3.3, 5.5.2.4.2, and 5.5.2.4.3 of Rule 4623. 6.) Any corrective actions or repairs performed on the tank in order to comply with Rule 4623 and the date(s) such actions were taken. [District Rule 4623, 6.3.5 and 40 CFR 63.11087(e)] Federally Enforceable Through Title V Permit
44. The permittee shall maintain the records of the internal floating roof landing activities that are performed pursuant to Rule 4623, Sections 5.3.1.3 and 5.4.3. The records shall include information on the true vapor pressure (TVP), API gravity, storage temperature, type of organic liquid stored in the tank, the purpose of landing the roof on its legs, the date of roof landing, duration the roof was on its legs, the level or height at which the tank roof was set to land on its legs, and the lowest liquid level in the tank. [District Rule 4623, 6.3.7] Federally Enforceable Through Title V Permit
45. The following test methods shall be used: ASTM Method D287 for determining API Gravity, ASTM Method D4057 sampling for API Gravity testing; ASTM D323 for determining RVP, and converting RVP to TVP at the tank's maximum organic liquid storage temperature; ARB Method 422 for determining exempt halogenated VOCs in gases; EPA Method 21 for measuring gas-leak concentration. Should the owner or operator wish to use test methods other than the ones mentioned in this condition, the methods must be approved by the District prior to its use. [District Rule 4623, 6.4] Federally Enforceable Through Title V Permit
46. The operator shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rules 4623, 6.3 and 2520, 9.4.2] Federally Enforceable Through Title V Permit
47. There shall be no vapor space between the internal floating pan and the liquid surface. [District NSR Rule] Federally Enforceable Through Title V Permit
48. At least 95% of all hydrocarbon vapors generated during the storage and the working of the storage tank shall be prevented from entrainment into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
49. The permittee shall maintain records sufficient to demonstrate compliance with the daily VOC emission limit. These records shall contain the calculated emission quantity as well as each process variable used in the respective calculations/modeling. [District Rule 2080] Federally Enforceable Through Title V Permit
50. The internal floating roof supports, manholes, automatic bleeder vents, rim vents, gauge wells, etc., shall be covered with foam seal in a manner which prevents any gap. [District NSR Rule] Federally Enforceable Through Title V Permit

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-829-22-6

EXPIRATION DATE: 11/30/2020

EQUIPMENT DESCRIPTION:

1,218,000 GALLON WELDED INTERNAL FLOATING ROOF STORAGE TANK (#3303) WITH A WIPER PRIMARY SEAL AND A SLOTTED GUIDEPOLE

PERMIT UNIT REQUIREMENTS

1. True vapor pressure of the organic liquid stored shall be less than 11 psia. [District Rule 4623, 5.1.1] Federally Enforceable Through Title V Permit
2. The tank shall be equipped with a fixed roof with an internal floating type cover equipped with one of the following closure devices between the tank wall and the cover edge: 1) A foam- or liquid-filled seal mounted in contact with the liquid (liquid-mounted seal); 2) Two seals mounted one above the other so that each forms a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof; or 3) A mechanical shoe seal. [40 CFR 60.112b(a)(1)(ii) and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
3. The internal floating roof shall float on the surface of the stored liquid at all times (i.e., off the roof leg supports) except during the initial fill until the roof is lifted off the leg supports and when the tank is completely emptied and subsequently refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible. Whenever the permittee intends to land the roof on its legs, the permittee shall notify the APCO in writing at least five calendar days prior to performing the work. The tank must be in compliance with this rule before it may land on its legs. [District Rule 4623, 5.3.1.3 and 5.4.3, 40 CFR 60.112b(a)(1)(i) and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
4. The tank shall be equipped with an Ultraflote, model Single Ultraseal, wiper primary seal. [District Rule 4623, 5.4.2 and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
5. No gap between the tank shell and the seal shell shall exceed 0.06 inch. [District Rule 4623, 3.37 and 5.4.2.1] Federally Enforceable Through Title V Permit
6. The cumulative length of all gaps exceeding 0.02 inch shall not be more than 5% of the circumference of the tank, excluding gaps less than 1.79 inches from vertical seams. [District Rule 4623, 3.37 and 5.4.2.1] Federally Enforceable Through Title V Permit
7. All openings in the roof used for sampling and gauging shall provide a projection below the liquid surface to prevent belching of liquid and to prevent entrained or formed organic vapor from escaping from the liquid contents of the tank and shall be equipped with a cover, seal or lid. The cover seal or lid shall be in a closed position, with no visible gaps and be leak-free, except when the device or appurtenance is in use for sampling or gauging. [District Rule 4623, 5.5.1] Federally Enforceable Through Title V Permit
8. A leak-free condition is defined as a condition without a gas leak or a liquid leak. A gas leak is defined as a reading in excess of 10,000 parts per million by volume (ppmv), as methane, above background on a portable hydrocarbon detection instrument that is calibrated with methane in accordance with the procedures specified in EPA Method 21. Liquid leak is defined as the dripping of organic liquid at a rate of more than 3 drops per minute. A reading in excess to 10,000 ppmv, as methane, above background, or dripping of organic liquid at a rate of more than 3 drops per minute, is a violation of this permit and Rule 4623 and shall be reported as a deviation. [District Rule 4623, 3.11, 3.17, 3.18 and 6.4.8] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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9. Each opening in a non-contact internal floating roof except for automatic bleeder vents (vacuum breaker vents) and rim space vents shall provide a projection below the liquid surface. [District Rule 4623, 5.5.2.1.1, 40 CFR 60.112b(a)(1)(iii) and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
10. Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, combination manway/vacuum breakers, and stub drains shall be equipped with a cover, or a lid shall be maintained in a closed position at all times (i.e. no visible gaps) except when the device is in use. The cover or lid shall be equipped with a gasket. Covers on each access hatch and automatic gauge float well shall be bolted in place except when they are in use. [District Rule 4623, 5.5.2.1.2 and 40 CFR 60.112b(a)(1)(iv)] Federally Enforceable Through Title V Permit
11. Automatic bleeder vents shall be equipped with a gasket and shall be closed at all times when the roof is floating except when the roof is being floated off or is being landed on the leg roof supports. [District Rule 4623, 5.5.2.1.3 and 40 CFR 60.112b(a)(1)(v)] Federally Enforceable Through Title V Permit
12. Rim vents shall be equipped with a gasket and shall be set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting. [District Rule 4623, 5.5.2.1.4 and 40 CFR 60.112b(a)(1)(vi)] Federally Enforceable Through Title V Permit
13. Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The well shall have a slit fabric cover that covers at least 90% of the opening. The fabric cover must be impermeable. [District Rule 4623, 5.5.2.1.5 and 40 CFR 60.112b(a)(1)(vii)] Federally Enforceable Through Title V Permit
14. 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. The fabric sleeve must be impermeable. [District Rule 4623, 5.5.2.1.6 and 40 CFR 60.112b(a)(1)(viii)] Federally Enforceable Through Title V Permit
15. Each penetration of the internal floating roof that allows for passage of a ladder shall have a gasketed sliding cover. [40 CFR 60.112b(a)(1)(ix)] Federally Enforceable Through Title V Permit
16. All slotted sampling or gauging wells, and similar fixed projections through the floating roof shall provide a projection below the liquid surface. [District Rule 4623, 5.5.2.4.1] Federally Enforceable Through Title V Permit
17. The gap between the pole wiper and the slotted guidepole shall not exceed 1/8 inch. [District Rule 4623, 5.5.2.4.3] Federally Enforceable Through Title V Permit
18. The permittee shall notify the District in writing at least 30 days prior to conduct the visual inspection of the storage vessel, so the District can arrange an observer. [40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
19. For newly constructed, repaired, or rebuilt internal floating roof tanks, the permittee shall visually inspect the internal floating roof, and its appurtenant parts, fittings, etc. and measure the gaps of the primary seal and/or secondary seal prior to filling the tank. If holes, tears, or openings in the primary seal, the secondary seal, the seal fabric or defects in the internal floating roof or its appurtenant parts, components, fittings, etc., are found, they shall be repaired prior to filling the tank. [District Rule 4623, 6.1.4.1, 40 CFR 60.113b(a)(1) and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
20. The owner or operator shall perform a monthly leak inspection of all equipment in gasoline service, as defined in section 63.11100. For this inspection, detection methods incorporating sight, sound, and smell are acceptable. [40 CFR Part 63.11089(a)] Federally Enforceable Through Title V Permit
21. For monthly leak inspection, a log book shall be used and shall be signed by the owner or operator at the completion of each inspection. A section of the log book shall contain a list, summary description, or diagram(s) showing the location of all equipment in gasoline service at the facility. [40 CFR Part 63.11089(b)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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22. Each detection of a liquid or vapor leak shall be recorded in the log book. When a leak is detected, an initial attempt at repair shall be made as soon as practicable, but no later than 5 calendar days after the leak is detected. Repair or replacement of leaking equipment shall be completed within 15 calendar days after detection of each leak. Delay of repair of leaking equipment will be allowed if the repair is not feasible within 15 days. The owner or operator shall provide in the semiannual report the reason(s) why the repair was not feasible and the date each repair was completed. [40 CFR Part 63.11089(d)] Federally Enforceable Through Title V Permit
23. The owner or operator shall maintain a log book that contain the following information for a leak during during monthly inspection: 1.) equipment type and identification number; 2.) the nature of the leak (i.e. vapor or liquid) and the method of detection (i.e. sight, sound, or smell); 3.) the date the leak was detected and the date of each attempt to repair the leak; 4.) repair methods applied in each attempt to repair the leak; 5.) repair delayed and the reason for the delay if the leak is not repaired within 15 calendar days after discovery of the leak; 6) the expected date of successful repair of the leak if the leak is not repaired within 15 days; and 7.) the date of successful repair of the leak. [40 CFR 63.11089(g)] Federally Enforceable Through Title V Permit
24. The permittee shall visually inspect, through the manholes, roof hatches, or other opening on the fixed roof, the internal floating roof and its appurtenant parts, fittings, etc., and the primary seal and/or secondary seal at least once every 12 months after the tank is initially filled with an organic liquid. There should be no visible organic liquid on the roof, tank walls, or anywhere. Other than the gap criteria specified by this rule, no holes, tears, or other openings are allowed that would permit the escape of vapors. Any defects found are violations of this rule. [District Rule 4623, 6.1.4.2, 40 CFR 60.113b(a)(2) and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
25. If any failure (i.e. visible organic liquid on the internal floating roof, tank walls or anywhere, holes or tears in the seal fabric) is detected during 12 month visual inspection, the permittee shall repair the items or empty and remove the storage vessel from service within 45 days. If the detected failure cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the APCO in the inspection report. Such a request must document that alternate storage capacity is unavailable and specify a schedule of actions the company will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible. [40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
26. The permittee shall visually inspect the internal floating roof, the primary seal, the secondary seal, gaskets, slotted membranes and sleeve seals (if any) each time the vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10 percent open area, the owner or operator shall repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel. [40 CFR Part 63.11087(c)] Federally Enforceable Through Title V Permit
27. The permittee shall maintain records of all visual inspections required by this permit. Each record shall identify the storage vessel on which the inspection was performed, the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings). [40 CFR 60.115b(a)(2)] Federally Enforceable Through Title V Permit
28. The owner or operator shall report the number of equipment leaks not repaired within 15 days after detection in a semi-annual report. [40 CFR 63.11089(g)] Federally Enforceable Through Title V Permit
29. All covers, seals and lids covering openings in the roof used for sampling and gauging shall be inspected annually by the facility operator to ensure compliance with the provisions of this permit. If one or more of the components are found to leak during an annual inspection, the inspection frequency for that component type shall be changed from annual to quarterly. If none of the components of that type are subsequently found to be leaking during five consecutive inspections, the inspection frequency may be changed from quarterly to annual. Components located in inaccessible (over 15 feet above ground when access is required from the ground or over 6 feet away from a platform when access is required from the platform) locations shall be inspected at least annually and components located in unsafe areas shall be inspected and repaired upon detection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

30. The operator shall determine the presence of gas leaks using portable hydrocarbon detection instrument in accordance with EPA Method 21. The instrument shall be calibrated before use each day of its use by the procedures specified in Method 21 using the following calibration gases: 1.) Zero air (less than 10 ppm of hydrocarbon in air); and 2.) A mixture of methane or n-hexane and air at a concentration of about, but less than, 10,000 ppm methane or n-hexane. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
31. The operator shall maintain an inspection log containing the following: 1.) Type of component leaking; 2.) Date of leak detection, and method of detection; 3.) Date and emission level of recheck after leak is repaired. Leaks over 10,000 ppmv shall be reported as a deviation. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
32. The permittee shall conduct actual gap measurements of the primary seal and/or secondary seal at least once every 60 months. Other than the gap criteria specified by this permit, no holes, tears, or other openings are allowed that would permit the escape of hydrocarbon vapors. Any defects found shall constitute a violation of this permit. [District Rule 4623, 6.1.4.3 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
33. {2706} Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid whenever there is a change in the source or type of organic liquid stored in this tank. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
34. {2592} As used in this permit, the term "source or type" shall mean liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids stored in this unit to determine which are from common source. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
35. {2630} Operator shall maintain a record showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. The record shall be maintained for the life of the vessel. [40 CFR 60.116b(b)] Federally Enforceable Through Title V Permit
36. The operator shall keep a record of the liquids stored in this container, the period of storage, and the maximum true vapor pressure (TVP) of that liquid during the respective storage period. [40 CFR 60.116b(c)] Federally Enforceable Through Title V Permit
37. {2765} Operator of each storage vessel, either with a design capacity greater than or equal to 151 m³ storing a liquid with a maximum true vapor pressure that is normally less than 0.75 psia or with a design capacity greater than or equal to 75 m³ but less than 151 m³ storing a liquid with a maximum true vapor pressure normally less than 4.0 psia, shall notify the APCO within 30 days when the maximum true vapor pressure of the liquid exceeds the respective maximum true vapor pressure values for each volume range. [40CFR 60.116b(d)] Federally Enforceable Through Title V Permit
38. {2627} For storage vessels operated above or below ambient temperatures, the operator shall calculate the maximum true vapor pressure based upon the highest expected calendar-month average of the storage temperature. For vessels operated at ambient temperatures, the maximum true vapor pressure is calculated based upon the maximum local monthly average ambient temperature as reported by the National Weather Service. [40 CFR 60.116b(e)(1)] Federally Enforceable Through Title V Permit
39. The permittee shall determine the maximum true vapor pressure of the stored organic liquid on a monthly basis, using the calculation methodology listed in Appendix B of District Rule 4623. The permittee shall keep a record of all Reid vapor pressure measurements for the stored organic liquid and shall use the highest recorded Reid vapor pressure of the month when determining the maximum true vapor pressure. The permittee shall keep a record of the actual storage temperature of the organic storage tank and shall use the highest temperature recorded of the month when determining the maximum true vapor pressure. [District Rule 4623 and 40 CFR 60.116b(e)(2)(i)] Federally Enforceable Through Title V Permit
40. {2624} Operator shall determine the true vapor pressure of each type of crude oil with a Reid vapor pressure less than 2.0 psia or whose physical properties preclude determination by the recommended method from available data and record if the true vapor pressure is greater than 0.5 psia. [40 CFR 60.116b(e)(2)(ii)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

41. Operator shall determine the true vapor pressure of each volatile organic liquid (VOL), other than crude oil or refined petroleum products, from standard reference texts, by ASTM Method D2879, or by using an appropriate method approved by EPA. [40 CFR 60.116b(e)(3)] Federally Enforceable Through Title V Permit
42. {2764} Operator of a tank storing a waste mixture of indeterminate or variable composition shall determine the highest maximum true vapor pressure for the range of liquid compositions to be stored prior to the initial filling, using methods specified for maximum true vapor pressure in this permit. [40CFR 60.116b(f)] Federally Enforceable Through Title V Permit
43. The permittee shall submit the reports of the floating roof tank inspections to the APCO within five calendar days after the completion of the inspection only for those tanks that failed to meet the applicable requirements of Rule 4623, Sections 5.2 through 5.5. The inspection report for tanks that have been determined to be in compliance with the requirements of Sections 5.2 through 5.5 need not be submitted to the APCO, but the inspection report shall be kept on-site and made available upon request by the APCO. The inspection report shall contain all necessary information to demonstrate compliance with the provisions of this rule, including the following: 1.) Date of inspection and names and titles of company personnel doing the inspection; 2.) Tank identification number and Permit to Operate number; 3.) Measurements of the gaps between the tank shell and primary and secondary seals; 4.) Leak-free status of the tank and floating roof deck fittings. Records of the leak-free status shall include the vapor concentration values measured in ppmv. 5.) Data, supported by calculations, demonstrating compliance with the requirements specified in Sections 5.3, 5.4, 5.5.2.3.3, 5.5.2.4.2, and 5.5.2.4.3 of Rule 4623. 6.) Any corrective actions or repairs performed on the tank in order to comply with Rule 4623 and the date(s) such actions were taken. [District Rule 4623, 6.3.5, 40 CFR 60.115b(a)(3) and 40 CFR 63.11087(e)] Federally Enforceable Through Title V Permit
44. The permittee shall maintain the records of the internal floating roof landing activities that are performed pursuant to Rule 4623, Sections 5.3.1.3 and 5.4.3. The records shall include information on the true vapor pressure (TVP), API gravity, storage temperature, type of organic liquid stored in the tank, the purpose of landing the roof on its legs, the date of roof landing, duration the roof was on its legs, the level or height at which the tank roof was set to land on its legs, and the lowest liquid level in the tank. [District Rule 4623, 6.3.7] Federally Enforceable Through Title V Permit
45. The following test methods shall be used: ASTM Method D287 for determining API Gravity, ASTM Method D4057 sampling for API Gravity testing; ASTM D323 for determining RVP, and converting RVP to TVP at the tank's maximum organic liquid storage temperature; ARB Method 422 for determining exempt halogenated VOCs in gases; EPA Method 21 for measuring gas-leak concentration. Should the owner or operator wish to use test methods other than the ones mentioned in this condition, the methods must be approved by the District prior to its use. [District Rule 4623, 6.4] Federally Enforceable Through Title V Permit
46. The operator shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rules 4623, 6.3 and 2520, 9.4.2] Federally Enforceable Through Title V Permit
47. At least 95% of all hydrocarbon vapors generated during the storage and the working of the storage tank shall be prevented from entrainment into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
48. The internal floating roof supports, manholes, automatic bleeder vents, rim vents, gauge wells, etc., shall be covered with foam seal in a manner which prevents any gap. [District NSR Rule] Federally Enforceable Through Title V Permit
49. The internal floating roof shall be in direct contact with the liquid surface in a manner which prevents any vapor space below the internal roof. [District NSR Rule] Federally Enforceable Through Title V Permit
50. VOC emissions from tanks N-829-7, '-17, '-18, and '-22 shall not exceed 165 pounds per day. [District NSR Rule] Federally Enforceable Through Title V Permit
51. The permittee shall notify the District for an inspection prior to the filling of the tank with liquid in a manner which allows for unobstructed inspection of the seals from above and below the internal roof. [District NSR Rule] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-829-28-8

EXPIRATION DATE: 11/30/2020

EQUIPMENT DESCRIPTION:

3,360,000 GALLON WELDED INTERNAL FLOATING ROOF STORAGE TANK (#80001) WITH A MECHANICAL SHOE PRIMARY SEAL, A WIPER SECONDARY SEAL AND A SLOTTED GUIDEPOLE

PERMIT UNIT REQUIREMENTS

1. True vapor pressure of the organic liquid stored shall be less than 11 psia. [District Rule 4623, 5.1.1] Federally Enforceable Through Title V Permit
2. The tank shall be equipped with a floating roof consisting of a pan type that is installed before December 20, 2001, pontoon-type, or double-deck type cover, that rests on the surface of the liquid contents and is equipped with a closure device between the tank shell and roof edge consisting of a primary seal and a secondary seal. [District Rule 4623, 5.3.1.1 and 5.3.1.2, 40 CFR 60.112a(2) and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
3. The floating roof shall be floating on the surface of the stored liquid at all times (i.e., off the roof leg supports) except during the initial fill until the roof is lifted off the leg supports and when the tank is completely emptied and subsequently refilled. When the roof is resting on the leg supports the processes of filling or emptying and refilling the tank shall be continuous and shall be accomplished as rapidly as possible. Whenever the permittee intends to land the roof on its legs, the permittee shall notify the APCO in writing at least five calendar days prior to performing the work. The tank must be in compliance with this rule before it may land the roof on its legs. [District Rule 4623, 5.3.1.3 and 5.4.3, 40 CFR 60.112a(2) and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
4. Gaps between the tank shell and the primary seal shall not exceed 1 1/2 inches. [District Rule 4623, 5.3.2.1.1 and 5.4.1] Federally Enforceable Through Title V Permit
5. The cumulative length of all gaps between the tank shell and the primary seal greater than 1/2 inch shall not exceed 10% of the circumference of the tank. [District Rule 4623, 5.3.2.1.1 and 5.4.1] Federally Enforceable Through Title V Permit
6. The cumulative length of all primary seal gaps greater than 1/8 inch shall not exceed 30% of the circumference of the tank. [District Rule 4623, 5.3.2.1.1 and 5.4.1] Federally Enforceable Through Title V Permit
7. No continuous gap in the primary seal greater than 1/8 inch wide shall exceed 10% of the tank circumference. [District Rule 4623, 5.3.2.1.1 and 5.4.1] Federally Enforceable Through Title V Permit
8. No gap between the tank shell and the secondary seal shall exceed 1/2 inch. [District Rule 4623, 5.3.2.1.2 and 5.4.1] Federally Enforceable Through Title V Permit
9. The cumulative length of all gaps between the tank shell and the secondary seal, greater than 1/8 inch shall not exceed 5% of the tank circumference. [District Rule 4623, 5.3.2.1.2 and 5.4.1] Federally Enforceable Through Title V Permit
10. The metallic shoe-type seal shall be installed so that one end of the shoe extends into the stored liquid and the other end extends a minimum vertical distance of 18 inches above the stored liquid surface. [District Rule 4623, 5.3.2.1.3 and 5.4.1] Federally Enforceable Through Title V Permit
11. The geometry of the metallic-shoe type seal shall be such that the maximum gap between the shoe and the tank shell shall be no greater than 3 inches for a length of at least 18 inches in the vertical plane above the liquid. [District Rule 4623, 5.3.2.1.4 and 5.4.1] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

12. There shall be no holes, tears, or openings in the secondary seal or in the primary seal envelope that surrounds the annular vapor space enclosed by the roof edge, seal fabric, and secondary seal. [District Rule 4623, 5.3.2.1.5 and 5.4.1] Federally Enforceable Through Title V Permit
13. The secondary seal shall allow easy insertion of probes of up to 1 1/2 inches in width in order to measure gaps in the primary seal. [District Rule 4623, 5.3.2.1.6 and 5.4.1] Federally Enforceable Through Title V Permit
14. The secondary seal shall extend from the roof to the tank shell and shall not be attached to the primary seal. [District Rule 4623, 5.3.2.1.7 and 5.4.1] Federally Enforceable Through Title V Permit
15. All openings in the roof used for sampling and gauging shall provide a projection below the liquid surface to prevent belching of liquid and to prevent entrained or formed organic vapor from escaping from the liquid contents of the tank and shall be equipped with a cover, seal or lid that shall be in a closed position at all times, with no visible gaps and be leak-free, except when the device or appurtenance is in use for sampling and gauging. [District Rule 4623, 5.5.2.1.2] Federally Enforceable Through Title V Permit
16. A leak-free condition is defined as a condition without a gas leak or a liquid leak. A gas leak is defined as a reading in excess of 10,000 parts per million by volume (ppmv), as methane, above background on a portable hydrocarbon detection instrument that is calibrated with methane in accordance with the procedures specified in EPA Method 21. Liquid leak is defined as the dripping of organic liquid at a rate of more than 3 drops per minute. A reading in excess to 10,000 ppmv, as methane, above background, or dripping of organic liquid at a rate of more than 3 drops per minute, is a violation of this permit and Rule 4623 and shall be reported as a deviation. [District Rule 4623, 3.11, 3.17, 3.18 and 6.4.8] Federally Enforceable Through Title V Permit
17. Each opening in a non-contact internal floating roof, except for automatic bleeder vents (vacuum breaker vents) and rim space vents, shall provide a projection below the liquid surface. [District Rule 4623, 5.5.2.1.1 and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
18. Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, combination manway/vacuum breakers, 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. [District Rule 4623, 5.5.2.1.2] Federally Enforceable Through Title V Permit
19. Automatic bleeder vents shall be equipped with a gasket and shall 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. [District Rule 4623, 5.5.2.1.3] Federally Enforceable Through Title V Permit
20. Rim 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. [District Rule 4623, 5.5.2.1.4] Federally Enforceable Through Title V Permit
21. Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The well shall have a slit fabric cover that covers at least 90% of the opening. The fabric cover must be impermeable. [District Rule 4623, 5.5.2.1.5] Federally Enforceable Through Title V Permit
22. Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover. The fabric sleeve must be impermeable. [District Rule 4623, 5.5.2.1.6] Federally Enforceable Through Title V Permit
23. All slotted sampling or gauging wells, and similar fixed projections through the floating roof shall provide a projection below the liquid surface. [District Rule 4623, 5.5.2.4.1] Federally Enforceable Through Title V Permit
24. The gap between the pole wiper and the slotted guidepole shall be added to the gaps measured to determine compliance with the secondary seal requirement, and in no case shall not exceed 1/8 inch. [District Rule 4623, 5.5.2.4.3] Federally Enforceable Through Title V Permit
25. The permittee shall notify the District in writing at least 30 days prior to conduct the visual inspection of the storage vessel, so the District can arrange an observer. [40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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26. For newly constructed, repaired, or rebuilt internal floating roof tanks, the permittee shall visually inspect the internal floating roof, and its appurtenant parts, fittings, etc. and measure the gaps of the primary seal and/or secondary seal prior to filling the tank. If holes, tears, or openings in the primary seal, the secondary seal, the seal fabric or defects in the internal floating roof or its appurtenant parts, components, fittings, etc., are found, they shall be repaired prior to filling the tank. [District Rule 4623, 6.1.4.1 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
27. The owner or operator shall perform a monthly leak inspection of all equipment in gasoline service, as defined in section 63.11100. For this inspection, detection methods incorporating sight, sound, and smell are acceptable. [40 CFR Part 63.11089(a)] Federally Enforceable Through Title V Permit
28. For monthly leak inspection, a log book shall be used and shall be signed by the owner or operator at the completion of each inspection. A section of the log book shall contain a list, summary description, or diagram(s) showing the location of all equipment in gasoline service at the facility. [40 CFR Part 63.11089(b)] Federally Enforceable Through Title V Permit
29. Each detection of a liquid or vapor leak shall be recorded in the log book. When a leak is detected, an initial attempt at repair shall be made as soon as practicable, but no later than 5 calendar days after the leak is detected. Repair or replacement of leaking equipment shall be completed within 15 calendar days after detection of each leak. Delay of repair of leaking equipment will be allowed if the repair is not feasible within 15 days. The owner or operator shall provide in the semiannual report the reason(s) why the repair was not feasible and the date each repair was completed. [40 CFR Part 63.11089(d)] Federally Enforceable Through Title V Permit
30. The owner or operator shall maintain a log book that contain the following information for a leak during during monthly inspection: 1.) equipment type and identification number; 2.) the nature of the leak (i.e. vapor or liquid) and the method of detection (i.e. sight, sound, or smell); 3.) the date the leak was detected and the date of each attempt to repair the leak; 4.) repair methods applied in each attempt to repair the leak; 5.) repair delayed and the reason for the delay if the leak is not repaired within 15 calendar days after discovery of the leak; 6) the expected date of successful repair of the leak if the leak is not repaired within 15 days; and 7.) the date of successful repair of the leak. [40 CFR 63.11089(g)] Federally Enforceable Through Title V Permit
31. The permittee shall visually inspect, through the manholes, roof hatches, or other opening on the fixed roof, the internal floating roof and its appurtenant parts, fittings, etc., and the primary seal and/or secondary seal at least once every 12 months after the tank is initially filled with an organic liquid. There should be no visible organic liquid on the roof, tank walls, or anywhere. Other than the gap criteria specified by this rule, no holes, tears, or other openings are allowed that would permit the escape of vapors. Any defects found are violations of this rule. [District Rule 4623, 6.1.4.2 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
32. If any failure (i.e. visible organic liquid on the internal floating roof, tank walls or anywhere, holes or tears in the seal fabric) is detected during 12 month visual inspection, the permittee shall repair the items or empty and remove the storage vessel from service within 45 days. If the detected failure cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the APCO in the inspection report. Such a request must document that alternate storage capacity is unavailable and specify a schedule of actions the company will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible. [40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
33. The permittee shall visually inspect the internal floating roof, the primary seal, the secondary seal, gaskets, slotted membranes and sleeve seals (if any) each time the vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10 percent open area, the owner or operator shall repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel. [40 CFR Part 63.11087(c)] Federally Enforceable Through Title V Permit
34. The owner or operator shall report the number of equipment leaks not repaired within 15 days after detection in a semi-annual report. [40 CFR 63.11089(g)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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35. All covers, seals and lids covering openings in the roof used for sampling and gauging shall be inspected annually by the facility operator to ensure compliance with the provisions of this permit. If one or more of the components are found to leak during an annual inspection, the inspection frequency for that component type shall be changed from annual to quarterly. If none of the components of that type are subsequently found to be leaking during five consecutive inspections, the inspection frequency may be changed from quarterly to annual. Components located in inaccessible (over 15 feet above ground when access is required from the ground or over 6 feet away from a platform when access is required from the platform) locations shall be inspected at least annually and components located in unsafe areas shall be inspected and repaired upon detection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
36. The operator shall determine the presence of gas leaks using portable hydrocarbon detection instrument in accordance with EPA Method 21. The instrument shall be calibrated before use each day of its use by the procedures specified in Method 21 using the following calibration gases: 1.) Zero air (less than 10 ppm of hydrocarbon in air); and 2.) A mixture of methane or n-hexane and air at a concentration of about, but less than, 10,000 ppm methane or n-hexane. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
37. The operator shall maintain an inspection log containing the following: 1.) Type of component leaking; 2.) Date of leak detection, and method of detection; 3.) Date and emission level of recheck after leak is repaired. Leaks over 10,000 ppmv shall be reported as a deviation. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
38. The permittee shall conduct actual gap measurements of the primary seal and/or secondary seal at least once every 60 months. Other than the gap criteria specified by this permit, no holes, tears, or other openings are allowed that would permit the escape of hydrocarbon vapors. Any defects found shall constitute a violation of this permit. [District Rule 4623, 6.1.4.3 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
39. {2706} Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid whenever there is a change in the source or type of organic liquid stored in this tank. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
40. {2592} As used in this permit, the term "source or type" shall mean liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids stored in this unit to determine which are from common source. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
41. The operator shall keep a record of liquids stored in each container, period of storage, and the maximum true vapor pressure of the liquid during the respective storage period. [40 CFR 60.115a(a)] Federally Enforceable Through Title V Permit
42. The permittee shall determine the maximum true vapor pressure of the stored organic liquid on a monthly basis, using the calculation methodology listed in Appendix B of District Rule 4623. The permittee shall keep a record of all reid vapor pressure measurements for the stored organic liquid and shall use the highest recorded reid vapor pressure of the month when determining the maximum true vapor pressure. The permittee shall keep a record of the actual storage temperature of the organic storage tank and shall use the highest temperature recorded of the month when determining the maximum true vapor pressure. [District Rule 4623 and 40 CFR 60.115a(b)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

43. The permittee shall submit the reports of the floating roof tank inspections to the APCO within five calendar days after the completion of the inspection only for those tanks that failed to meet the applicable requirements of Rule 4623, Sections 5.2 through 5.5. The inspection report for tanks that have been determined to be in compliance with the requirements of Sections 5.2 through 5.5 need not be submitted to the APCO, but the inspection report shall be kept on-site and made available upon request by the APCO. The inspection report shall contain all necessary information to demonstrate compliance with the provisions of this rule, including the following: 1.) Date of inspection and names and titles of company personnel doing the inspection; 2.) Tank identification number and Permit to Operate number; 3.) Measurements of the gaps between the tank shell and primary and secondary seals; 4.) Leak-free status of the tank and floating roof deck fittings. Records of the leak-free status shall include the vapor concentration values measured in ppmv. 5.) Data, supported by calculations, demonstrating compliance with the requirements specified in Sections 5.3, 5.4, 5.5.2.3.3, 5.5.2.4.2, and 5.5.2.4.3 of Rule 4623. 6.) Any corrective actions or repairs performed on the tank in order to comply with Rule 4623 and the date(s) such actions were taken. [District Rule 4623, 6.3.5 and 40 CFR 63.11087(e)] Federally Enforceable Through Title V Permit
44. The permittee shall maintain the records of the internal floating roof landing activities that are performed pursuant to Rule 4623, Sections 5.3.1.3 and 5.4.3. The records shall include information on the true vapor pressure (TVP), API gravity, storage temperature, type of organic liquid stored in the tank, the purpose of landing the roof on its legs, the date of roof landing, duration the roof was on its legs, the level or height at which the tank roof was set to land on its legs, and the lowest liquid level in the tank. [District Rule 4623, 6.3.7] Federally Enforceable Through Title V Permit
45. The following test methods shall be used: ASTM Method D287 for determining API Gravity, ASTM Method D4057 sampling for API Gravity testing; ASTM D323 for determining RVP, and converting RVP to TVP at the tank's maximum organic liquid storage temperature; ARB Method 422 for determining exempt halogenated VOCs in gases; EPA Method 21 for measuring gas-leak concentration. Should the owner or operator wish to use test methods other than the ones mentioned in this condition, the methods must be approved by the District prior to its use. [District Rule 4623, 6.4] Federally Enforceable Through Title V Permit
46. The operator shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rules 4623, 6.3 and 2520, 9.4.2] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-829-29-9

EXPIRATION DATE: 11/30/2020

EQUIPMENT DESCRIPTION:

3,360,000 GALLON WELDED EXTERNAL FLOATING ROOF STORAGE TANK (#80002) WITH A MECHANICAL SHOE PRIMARY SEAL, A WIPER SECONDARY SEAL AND A SLOTTED GUIDEPOLE

PERMIT UNIT REQUIREMENTS

1. {2653} True vapor pressure of the organic liquid stored shall be less than 11 psia. [District Rule 4623, 5.1.1] Federally Enforceable Through Title V Permit
2. The tank shall be equipped with a floating roof consisting of a pan type that was installed before December 20, 2001, pontoon-type or double-deck-type cover which rests upon the surface of the liquid being stored and is equipped with a closure device between the tank shell and roof edge consisting of a primary and a secondary seal. [District Rule 4623, 5.3.1.1 and 5.3.1.2, 40 CFR 60.112a(a)(1) and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
3. Roof shall be floating on the liquid (i.e., off the roof leg supports) at all times except during initial fill and when tank is completely emptied and subsequently refilled. The process of emptying and refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Whenever the permittee intends to land the roof on its legs, the permittee shall notify the APCO in writing at least five calendar days prior to performing the work. The tank must be in compliance with this rule before it may land on its legs. [District Rule 4623, 5.3.1.3, 40 CFR 60.112a(a)(1) and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
4. Primary seal (lower seal) shall be a metallic shoe seal, a liquid-mounted seal, or a vapor-mounted seal. [40 CFR 60.112a(a)(1)(i) and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
5. Accumulated area of gaps between tank wall and primary seal shall not exceed: 1) 10.0 in² per foot of tank diameter and the width of any portion of any gap shall not exceed 1-1/2 inch, for a metallic shoe seal or a liquid-mounted seal; 2) 1.0 in² per foot of tank diameter and the width of any portion of any gap shall not exceed 1/2 inch for a vapor mounted seal. [40 CFR 60.112a(a)(1)(i)(A) & (B), District Rule 4623, 5.3.2.1.1 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
6. The cumulative length of all gaps between the tank shell and the primary seal: 1) Greater than one-half (1/2) inch shall not exceed 10 percent of the circumference of the tank; and 2) Greater than one-eighth (1/8) inch shall not exceed 30 percent of the circumference of the tank. [District Rule 4623, 5.3.2.1.1] Federally Enforceable Through Title V Permit
7. {2659} No continuous gap in the primary seal greater than 1/8 inch wide shall exceed 10% of the tank circumference. [District Rule 4623, 5.3.2.1.1] Federally Enforceable Through Title V Permit
8. If the secondary seal is used in combination with a metallic shoe or liquid-mounted primary seal, accumulated area of gaps between tank wall and the secondary seal shall not exceed 1.0 in² per foot of tank diameter and the width of any portion of any gap shall not exceed 1/2 inch. [District Rule 4623, 5.3.2.1.2, 40 CFR 60.112a(a)(1)(i)(B) and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
9. {2661} The cumulative length of all gaps between the tank shell and the secondary seal, greater than 1/8 inch shall not exceed 5% of the tank circumference. [District Rule 4623, 5.3.2.1.2] Federally Enforceable Through Title V Permit
10. The metallic shoe-type seal shall be installed so that one end of the shoe extends into the stored liquid and the other end extends a minimum vertical distance of 24 inches above the stored liquid surface. [District Rule 4623, 5.3.2.1.3, 40 CFR 60.112a(a)(1)(i)(C) and 40 CFR Part 63.11087(c)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

11. {2663} The geometry of the metallic-shoe type seal shall be such that the maximum gap between the shoe and the tank shell shall be no greater than 3 inches for a length of at least 18 inches in the vertical plane above the liquid. [District Rule 4623, 5.3.2.1.4] Federally Enforceable Through Title V Permit
12. {2713} There shall be no holes, tears, or openings in the secondary seal or in the primary seal envelope that surrounds the annular vapor space enclosed by the roof edge, seal fabric, and secondary seal. [District Rule 4623, 5.3.2.1.5, 40 CFR 60.112a(a)(1)(i)(D), and 40 CFR 60.112a(a)(1)(ii)(B)] Federally Enforceable Through Title V Permit
13. {2665} The secondary seal shall allow easy insertion of probes of up to 1 1/2 inches in width in order to measure gaps in the primary seal. [District Rule 4623, 5.3.2.1.6] Federally Enforceable Through Title V Permit
14. {2666} The secondary seal shall extend from the roof to the tank shell and shall not be attached to the primary seal. [District Rule 4623, 5.3.2.1.7] Federally Enforceable Through Title V Permit
15. All openings in the roof used for sampling and gauging shall provide a projection below the liquid surface to prevent belching of liquid and to prevent entrained or formed organic vapor from escaping from the liquid contents of the tank and shall be equipped with a cover, seal or lid that shall be in a closed position at all times, with no visible gaps and be leak-free, except when the device or appurtenance is in use. [District Rule 4623, 5.5.1 and 40 CFR 60.112a(a)(1)(iii)] Federally Enforceable Through Title V Permit
16. A leak-free condition is defined as a condition without a gas leak or a liquid leak. A gas leak is defined as a reading in excess of 10,000 parts per million by volume (ppmv), as methane, above background on a portable hydrocarbon detection instrument that is calibrated with methane in accordance with the procedures specified in EPA Method 21. Liquid leak is defined as the dripping of organic liquid at a rate of more than 3 drops per minute. A reading in excess to 10,000 ppmv, as methane, above background, or dripping of organic liquid at a rate of more than 3 drops per minute, is a violation of this permit and Rule 4623 and shall be reported as a deviation. [District Rule 4623, 3.11, 3.17, 3.18 and 6.4.8] Federally Enforceable Through Title V Permit
17. {2721} Each opening in the roof, except for automatic bleeder vents, rim vents, and pressure relief vents, in a non-contact external floating roof shall provide a projection below the liquid surface. [District Rule 4623, 5.5.2.2.1, 40 CFR 60.112a(a)(1)(iii)] Federally Enforceable Through Title V Permit
18. Except for automatic bleeder vents and rim vents, roof drains, and leg sleeves, each opening in the roof shall be equipped with a gasketed cover, seal, or lid that shall be maintained in a closed position at all times (i.e., no visible gap) except when in actual use. [District Rule 4623, 5.5.2.2.2] Federally Enforceable Through Title V Permit
19. Automatic bleeder vents shall be equipped with a gasket and shall 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. [District Rule 4623, 5.5.2.2.3 and 40 CFR 60.112a(a)(1)(iii)] Federally Enforceable Through Title V Permit
20. {2723} Rim vents shall be equipped with a gasket and shall be set to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. [District Rule 4623, 5.5.2.2.4 and 40 CFR 60.112a(a)(1)(iii)] Federally Enforceable Through Title V Permit
21. {2724} Each emergency roof drain shall be provided with a slotted membrane fabric cover that covers at least 90 percent of the area of the opening. The fabric cover must be impermeable if the liquid is drained into the contents of the tanks. [District Rule 4623, 5.5.2.2.5 and 40 CFR 60.112a(a)(1)(iv)] Federally Enforceable Through Title V Permit
22. External floating roof legs shall be equipped with vapor socks or vapor barriers in order to maintain a leak-free condition so as to prevent VOC emissions from escaping through the roof leg opening. [District Rule 4623, 5.5.2.2.6] Federally Enforceable Through Title V Permit
23. All slotted sampling and gauging wells and similar fixed projections through the floating roof shall provide a projection below the liquid surface. [District Rule 4623, 5.5.2.4.1] Federally Enforceable Through Title V Permit
24. The slotted guidepole well on the external floating roof shall be equipped with the following: a sliding cover, a well gasket, a pole sleeve, a pole wiper, and an internal float and float wiper designed to minimize the gap between the float and the well, and provided the gap shall not exceed 1/8 inch; or shall be equipped with a well gasket, a zero gap pole wiper seal and a pole sleeve that projects below the liquid surface. [District Rule 4623, 5.5.2.4.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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25. The gap between the pole wiper and the slotted guidepole shall be added to the gaps measured to determine compliance with the secondary seal requirement, and in no case shall exceed 1/8 inch. [District Rule 4623, 5.5.2.4.3] Federally Enforceable Through Title V Permit
26. The permittee shall make the primary seal envelope available for unobstructed inspection by the APCO on an annual basis at locations selected along its circumference at random by the APCO. A minimum of eight locations shall be made available; in all other cases, a minimum of four locations shall be made available. If the APCO suspects a violation may exist the APCO may require such further unobstructed inspection of the primary seal as may be necessary to determine the seal condition for its entire circumference. [District Rule 4623, 6.1.1] Federally Enforceable Through Title V Permit
27. The operator shall perform gap measurements on primary and secondary seals within 60 days of the initial fill with petroleum liquid and at least once every year thereafter to determine compliance with the requirements of Rule 4623. The actual gap measurements of the floating roof primary and secondary seals shall be recorded. The inspection results shall be submitted to the APCO as specified in Section 6.3.5. [District Rule 4623, 6.1.3.1, 40 CFR 60.113a(a)(1)(i)(B) and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
28. If unit is out of service for a period of one year or more, subsequent refilling with volatile organic liquid (VOL) shall be considered initial fill in accordance with the conditions of this permit. [40 CFR 60.113a(a)(1)(i)(C) and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
29. The permittee shall inspect the primary and secondary seals for compliance with the requirements of Rule 4623 every time this tank is emptied or degassed. Actual gap measurements shall be performed when the liquid level is static but not more than 24 hours after the tank roof is re-floated. [District Rule 4623, 6.1.3.2] Federally Enforceable Through Title V Permit
30. If primary or secondary seal gap width/accumulated area and minimum vertical distance for one end of the mechanical shoe do not meet the requirements in this permit during 12 month inspection, the permittee shall repair the items or empty and remove the storage vessel from service within 45 days. If the detected failure cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the APCO in the inspection report. Such a request must document that alternate storage capacity is unavailable and specify a schedule of actions the company will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible. [40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
31. The owner or operator shall visually inspect the external floating roof, the primary seal, secondary seal, and fittings each time the vessel is emptied and degassed. If the external floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, the owner or operator shall repair the items as necessary so that none of the conditions specified mentioned in this condition exist before filling or refilling the storage vessel. [40 CFR 60.11087(c)] Federally Enforceable Through Title V Permit
32. The owner or operator shall perform a monthly leak inspection of all equipment in gasoline service, as defined in section 63.11100. For this inspection, detection methods incorporating sight, sound, and smell are acceptable. [40 CFR Part 63.11089(a)] Federally Enforceable Through Title V Permit
33. For monthly leak inspection, a log book shall be used and shall be signed by the owner or operator at the completion of each inspection. A section of the log book shall contain a list, summary description, or diagram(s) showing the location of all equipment in gasoline service at the facility. [40 CFR Part 63.11089(b)] Federally Enforceable Through Title V Permit
34. Each detection of a liquid or vapor leak shall be recorded in the log book. When a leak is detected, an initial attempt at repair shall be made as soon as practicable, but no later than 5 calendar days after the leak is detected. Repair or replacement of leaking equipment shall be completed within 15 calendar days after detection of each leak. Delay of repair of leaking equipment will be allowed if the repair is not feasible within 15 days. The owner or operator shall provide in the semiannual report the reason(s) why the repair was not feasible and the date each repair was completed. [40 CFR Part 63.11089(d)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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35. The owner or operator shall maintain a log book that contain the following information for a leak during during monthly inspection: 1.) equipment type and identification number; 2.) the nature of the leak (i.e. vapor or liquid) and the method of detection (i.e. sight, sound, or smell); 3.) the date the leak was detected and the date of each attempt to repair the leak; 4.) repair methods applied in each attempt to repair the leak; 5.) repair delayed and the reason for the delay if the leak is not repaired within 15 calendar days after discovery of the leak; 6) the expected date of successful repair of the leak if the leak is not repaired within 15 days; and 7.) the date of successful repair of the leak. [40 CFR 63.11089(g)] Federally Enforceable Through Title V Permit
36. The owner or operator shall report the number of equipment leaks not repaired within 15 days after detection in a semi-annual report. [40 CFR 63.11089(g)] Federally Enforceable Through Title V Permit
37. All covers, seals and lids covering openings in the roof used for sampling and gauging shall be inspected annually by the facility operator to ensure compliance with the provisions of this permit. If one or more of the components are found to leak during an annual inspection, the inspection frequency for that component type shall be changed from annual to quarterly. If none of the components of that type are subsequently found to be leaking during five consecutive inspections, the inspection frequency may be changed from quarterly to annual. Components located in inaccessible (over 15 feet above ground when access is required from the ground or over 6 feet away from a platform when access is required from the platform) locations shall be inspected at least annually and components located in unsafe areas shall be inspected and repaired upon detection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
38. The operator shall determine the presence of gas leaks using portable hydrocarbon detection instrument in accordance with EPA Method 21. The instrument shall be calibrated before use each day of its use by the procedures specified in Method 21 using the following calibration gases: 1.) Zero air (less than 10 ppm of hydrocarbon in air); and 2.) A mixture of methane or n-hexane and air at a concentration of about, but less than, 10,000 ppm methane or n-hexane. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
39. The operator shall maintain an inspection log containing the following: 1.) Type of component leaking; 2.) Date of leak detection, and method of detection; 3.) Date and emission level of recheck after leak is repaired. Leaks over 10,000 ppmv shall be reported as a deviation. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
40. {2706} Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid whenever there is a change in the source or type of organic liquid stored in this tank. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
41. {2592} As used in this permit, the term "source or type" shall mean liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids stored in this unit to determine which are from common source. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
42. {2729} Operator shall determine gap widths in the primary and secondary seals using the following procedure: 1) Measure seal gaps, at one or more floating roof levels when the roof is floating off leg supports; 2) Measure seal gaps around entire circumference of the tank in each place where a one-eighth (1/8) inch diameter uniform probe passes freely (without forcing or binding against seal) between the seal and the tank wall and measure the circumferential distance of each such location; 3), Total surface area of each gap shall be determined by using probes of various widths to accurately measure the actual distance from the tank wall to the seal and multiplying each such width by its respective circumferential distance; 4) Add the gap surface area of each gap location for the primary seal and the secondary seal individually. Divide the sum for each seal by the nominal diameter of the tank. [40 CFR 60.113a(a)(1)(ii) and (iii)] Federally Enforceable Through Title V Permit
43. Operator shall record the vessel on which the measurement was performed, date of the seal gap measurement, and raw data obtained in the measurement process in accordance with the conditions of this permit. [40 CFR 60.113a(a)(1)(i)(D) and 40 CFR 63.11087(e)] Federally Enforceable Through Title V Permit
44. The permittee shall notify the District in writing at least 30 days in advance of visual inspection or any gap measurement required by this permit, so the District can arrange an observer. [40 CFR 60.113a(a)(1)(iv) and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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45. If the accumulated area of gaps or gap width exceed limits, operator shall submit a report to the APCO within 30 days of the date of measurement. Report should include identification of the vessel, reason vessel did not meet the specifications, and a description of the actions necessary to bring the storage vessel into compliance. [40 CFR 60.113a(a)(1)(i)(E) and 40 CFR 63.11087(e)] Federally Enforceable Through Title V Permit
46. The operator shall keep a record of liquids stored in each container, period of storage, and the maximum true vapor pressure of the liquid during the respective storage period. [40 CFR 60.115a(a)] Federally Enforceable Through Title V Permit
47. The permittee shall determine the maximum true vapor pressure of the stored organic liquid on a monthly basis, using the calculation methodology listed in Appendix B of District Rule 4623. The permittee shall keep a record of all Reid vapor pressure measurements for the stored organic liquid and shall use the highest recorded Reid vapor pressure of the month when determining the maximum true vapor pressure. The permittee shall keep a record of the actual storage temperature of the organic storage tank and shall use the highest temperature recorded of the month when determining the maximum true vapor pressure. [Rule 4623 and 40 CFR 60.115a(b)] Federally Enforceable Through Title V Permit
48. The permittee shall submit the reports of the floating roof tank inspections to the APCO within five calendar days after the completion of the inspection only for those tanks that failed to meet the applicable requirements of Rule 4623, Sections 5.2 through 5.5. The inspection report for tanks that have been determined to be in compliance with the requirements of Sections 5.2 through 5.5 need not be submitted to the APCO, but the inspection report shall be kept on-site and made available upon request by the APCO. The inspection report shall contain all necessary information to demonstrate compliance with the provisions of this rule, including the following: 1.) Date of inspection and names and titles of company personnel doing the inspection; 2.) Tank identification number and Permit to Operate number; 3.) Measurements of the gaps between the tank shell and primary and secondary seals; 4.) Leak-free status of the tank and floating roof deck fittings. Records of the leak-free status shall include the vapor concentration values measured in ppmv. 5.) Data, supported by calculations, demonstrating compliance with the requirements specified in Sections 5.3, 5.4, 5.5.2.3.3, 5.5.2.4.2, and 5.5.2.4.3 of Rule 4623. 6.) Any corrective actions or repairs performed on the tank in order to comply with Rule 4623 and the date(s) such actions were taken. [District Rule 4623, 6.3.5] Federally Enforceable Through Title V Permit
49. The permittee shall maintain the records of the internal floating roof landing activities that are performed pursuant to Rule 4623, Sections 5.3.1.3 and 5.4.3. The records shall include information on the true vapor pressure (TVP), API gravity, storage temperature, type of organic liquid stored in the tank, the purpose of landing the roof on its legs, the date of roof landing, duration the roof was on its legs, the level or height at which the tank roof was set to land on its legs, and the lowest liquid level in the tank. [District Rule 4623, 6.3.7] Federally Enforceable Through Title V Permit
50. The following test methods shall be used: ASTM Method D287 for determining API Gravity, ASTM Method D4057 sampling for API Gravity testing; ASTM D323 for determining RVP, and converting RVP to TVP at the tank's maximum organic liquid storage temperature; ARB Method 422 for determining exempt halogenated VOCs in gases; EPA Method 21 for measuring gas-leak concentration. Should the owner or operator wish to use test methods other than the ones mentioned in this condition, the methods must be approved by the District prior to its use. [District Rule 4623, 6.4] Federally Enforceable Through Title V Permit
51. The operator shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rules 4623, 6.3 and 2520, 9.4.2] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-829-31-7

EXPIRATION DATE: 11/30/2020

EQUIPMENT DESCRIPTION:

1,386,000 GALLON WELDED INTERNAL FLOATING ROOF TANK (33007) WITH A MINI SHOE PRIMARY SEAL, A VAPORFLEX SECONDARY SEAL, AND A SLOTTED GUIDEPOLE

PERMIT UNIT REQUIREMENTS

1. Only denatured ethanol (97.5% or more by weight ethanol, 2.5% or less by weight gasoline) shall be stored in this tank. The permittee shall maintain sufficient records to demonstrate compliance with this condition. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
2. True vapor pressure (TVP) of the organic liquid stored in the tank shall not exceed 2.8 psia. [District Rule 2201] Federally Enforceable Through Title V Permit
3. VOC emissions shall not exceed 7.1 pounds in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The daily throughput of the organic liquid (not including diesel or other exempt liquids) shall not exceed 1,386,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The monthly throughput of the organic liquid (not including diesel or other exempt liquids) shall not exceed 5,544,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The permittee shall record TVP and the temperature of the organic liquid stored on monthly basis. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The floating roof shall be floating on the surface of the stored liquid at all times (i.e., off the roof leg supports) except during the initial fill until the roof is lifted off the leg supports and when the tank is completely emptied and subsequently refilled. When the roof is resting on the leg supports the processes of filling or emptying and refilling the tank shall be continuous and shall be accomplished as rapidly as possible. Whenever the permittee intends to land the roof on its legs, the permittee shall notify the APCO in writing at least five calendar days prior to performing the work. The tank must be in compliance with this rule before it may land the roof on its legs. [District Rule 4623, 5.4.3, 40 CFR 60.112b(a)(1)(i) and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
8. Gaps between the tank shell and the primary seal shall not exceed 1 1/2 inches. [District Rule 4623, 5.3.2.1.1 and 5.4.1] Federally Enforceable Through Title V Permit
9. The cumulative length of all gaps between the tank shell and the primary seal greater than 1/2 inch shall not exceed 10% of the circumference of the tank. [District Rule 4623, 5.3.2.1.1 and 5.4.1] Federally Enforceable Through Title V Permit
10. The cumulative length of all primary seal gaps greater than 1/8 inch shall not exceed 30% of the circumference of the tank. [District Rule 4623, 5.3.2.1.1 and 5.4.1] Federally Enforceable Through Title V Permit
11. No continuous gap in the primary seal greater than 1/8 inch wide shall exceed 10% of the tank circumference. [District Rule 4623, 5.3.2.1.1 and 5.4.1] Federally Enforceable Through Title V Permit
12. No gap between the tank shell and the secondary seal shall exceed 1/2 inch. [District Rule 4623, 5.3.2.1.2 and 5.4.1] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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13. The cumulative length of all gaps between the tank shell and the secondary seal, greater than 1/8 inch shall not exceed 5% of the tank circumference. [District Rule 4623, 5.3.2.1.2 and 5.4.1] Federally Enforceable Through Title V Permit
14. The metallic shoe-type seal shall be installed so that one end of the shoe extends into the stored liquid and the other end extends a minimum vertical distance of 18 inches above the stored liquid surface. [District Rule 4623, 5.3.2.1.3 and 5.4.1] Federally Enforceable Through Title V Permit
15. The geometry of the metallic-shoe type seal shall be such that the maximum gap between the shoe and the tank shell shall be no greater than 3 inches for a length of at least 18 inches in the vertical plane above the liquid. [District Rule 4623, 5.3.2.1.4 and 5.4.1] Federally Enforceable Through Title V Permit
16. There shall be no holes, tears, or openings in the secondary seal or in the primary seal envelope that surrounds the annular vapor space enclosed by the roof edge, seal fabric, and secondary seal. [District Rule 4623, 5.3.2.1.5 and 5.4.1] Federally Enforceable Through Title V Permit
17. The secondary seal shall allow easy insertion of probes of up to 1 1/2 inches in width in order to measure gaps in the primary seal. [District Rule 4623, 5.3.2.1.6 and 5.4.1] Federally Enforceable Through Title V Permit
18. The secondary seal shall extend from the roof to the tank shell and shall not be attached to the primary seal. [District Rule 4623, 5.3.2.1.7 and 5.4.1] Federally Enforceable Through Title V Permit
19. All openings in the roof used for sampling and gauging shall provide a projection below the liquid surface to prevent belching of liquid and to prevent entrained or formed organic vapor from escaping from the liquid contents of the tank and shall be equipped with a cover, seal or lid that shall be in a closed position at all times, with no visible gaps and be leak free, except when the device or appurtenance is in use for sampling and gauging. [District Rule 4623, 5.5.1] Federally Enforceable Through Title V Permit
20. A leak-free condition is defined as a condition without a gas leak or a liquid leak. A gas leak is defined as a reading in excess of 10,000 parts per million by volume (ppmv), as methane, above background on a portable hydrocarbon detection instrument that is calibrated with methane in accordance with the procedures specified in EPA Method 21. Liquid leak is defined as the dripping of organic liquid at a rate of more than 3 drops per minute. A reading in excess to 10,000 ppmv, as methane, above background, or dripping of organic liquid at a rate of more than 3 drops per minute, is a violation of this permit and Rule 4623 and shall be reported as a deviation. [District Rule 4623, 3.11, 3.17, 3.18 and 6.4.8] Federally Enforceable Through Title V Permit
21. Each opening in a non-contact internal floating roof except for automatic bleeder vents (vacuum breaker vents) and rim space vents shall provide a projection below the liquid surface. [District Rule 4623, 5.5.2.1.1, 40 CFR 60.112b(a)(1)(iii) and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
22. Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, combination manway/vacuum breakers, and stub drains shall be equipped with a cover, or a lid shall be maintained in a closed position at all times (i.e. no visible gaps) except when the device is in use. The cover or lid shall be equipped with a gasket. Covers on each access hatch and automatic gauge float well shall be bolted in place except when they are in use. [District Rule 4623, 5.5.2.1.2 and 40 CFR 60.112b(a)(1)(iv)] Federally Enforceable Through Title V Permit
23. Automatic bleeder vents shall be equipped with a gasket and shall be closed at all times when the roof is floating except when the roof is being floated off or is being landed on the leg roof supports. [District Rule 4623, 5.5.2.1.3 and 40 CFR 60.112b(a)(1)(v)] Federally Enforceable Through Title V Permit
24. Rim vents shall be equipped with a gasket and shall be set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting. [District Rule 4623, 5.5.2.1.4 and 40 CFR 60.112b(a)(1)(vi)]
25. Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The well shall have a slit fabric cover that covers at least 90 percent of the opening. The fabric cover must be impermeable. [District Rule 4623, 5.5.2.1.5 and 40 CFR 60.112b(a)(1)(vii)] Federally Enforceable Through Title V Permit
26. 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. The fabric sleeve must be impermeable. [District Rule 4623, 5.5.2.1.6 and 40 CFR 60.112b(a)(1)(viii)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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27. Each penetration of the internal floating roof that allows for the passage of a ladder shall have a gasketed sliding cover. [40 CFR 60.112b(a)(1)(ix)] Federally Enforceable Through Title V Permit
28. All slotted sampling or gauging wells, and similar fixed projections through the floating roof shall provide a projection below the liquid surface. [District Rule 4623, 5.5.2.4.1] Federally Enforceable Through Title V Permit
29. The gap between the pole wiper and the slotted guidepole shall be added to the gaps measured to determine compliance with the secondary seal requirement, and in no case shall not exceed 1/8 inch. [District Rule 4623, 5.5.2.4.3] Federally Enforceable Through Title V Permit
30. The permittee shall notify the District in writing at least 30 days prior to conduct the visual inspection of the storage vessel, so the District can arrange an observer. [40 CFR 60.113b(a)(5) and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
31. For newly constructed, repaired, or rebuilt internal floating roof tanks, the permittee shall visually inspect the internal floating roof, and its appurtenant parts, fittings, etc. and measure the gaps of the primary seal and/or secondary seal prior to filling the tank. If holes, tears, or openings in the primary seal, the secondary seal, the seal fabric or defects in the internal floating roof or its appurtenant parts, components, fittings, etc., are found, they shall be repaired prior to filling the tank. [District Rule 4623, 6.1.4.1, 40 CFR 60.113b(a)(1) and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
32. The owner or operator shall perform a monthly leak inspection of all equipment in gasoline service, as defined in section 63.11100. For this inspection, detection methods incorporating sight, sound, and smell are acceptable. [40 CFR Part 63.11089(a)] Federally Enforceable Through Title V Permit
33. For monthly leak inspection, a log book shall be used and shall be signed by the owner or operator at the completion of each inspection. A section of the log book shall contain a list, summary description, or diagram(s) showing the location of all equipment in gasoline service at the facility. [40 CFR Part 63.11089(b)] Federally Enforceable Through Title V Permit
34. Each detection of a liquid or vapor leak shall be recorded in the log book. When a leak is detected, an initial attempt at repair shall be made as soon as practicable, but no later than 5 calendar days after the leak is detected. Repair or replacement of leaking equipment shall be completed within 15 calendar days after detection of each leak. Delay of repair of leaking equipment will be allowed if the repair is not feasible within 15 days. The owner or operator shall provide in the semiannual report the reason(s) why the repair was not feasible and the date each repair was completed. [40 CFR Part 63.11089(d)] Federally Enforceable Through Title V Permit
35. The owner or operator shall maintain a log book that contain the following information for a leak during during monthly inspection: 1.) equipment type and identification number; 2.) the nature of the leak (i.e. vapor or liquid) and the method of detection (i.e. sight, sound, or smell); 3.) the date the leak was detected and the date of each attempt to repair the leak; 4.) repair methods applied in each attempt to repair the leak; 5.) repair delayed and the reason for the delay if the leak is not repaired within 15 calendar days after discovery of the leak; 6) the expected date of successful repair of the leak if the leak is not repaired within 15 days; and 7.) the date of successful repair of the leak. [40 CFR 63.11089(g)] Federally Enforceable Through Title V Permit
36. The permittee shall visually inspect, through the manholes, roof hatches, or other opening on the fixed roof, the internal floating roof and its appurtenant parts, fittings, etc., and the primary seal and/or secondary seal at least once every 12 months after the tank is initially filled with an organic liquid. There should be no visible organic liquid on the roof, tank walls, or anywhere. Other than the gap criteria specified by this rule, no holes, tears, or other openings are allowed that would permit the escape of vapors. Any defects found are violations of this rule. [District Rule 4623, 6.1.4.2, 40 CFR 60.113b(a)(2) and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
37. If any failure (i.e. visible organic liquid on the internal floating roof, tank walls or anywhere, holes or tears in the seal fabric) is detected during 12 month visual inspection, the permittee shall repair the items or empty and remove the storage vessel from service within 45 days. If the detected failure cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the APCO in the inspection report. Such a request must document that alternate storage capacity is unavailable and specify a schedule of actions the company will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible. [40 CFR 60.113b(a)(2) and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

38. The permittee shall visually inspect the internal floating roof, the primary seal, the secondary seal, gaskets, slotted membranes and sleeve seals (if any) each time the vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10 percent open area, the owner or operator shall repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel. [40 CFR Part 63.11087(c)] Federally Enforceable Through Title V Permit
39. The owner or operator shall report the number of equipment leaks not repaired within 15 days after detection in a semi-annual report. [40 CFR 63.11089(g)] Federally Enforceable Through Title V Permit
40. All covers, seals and lids covering openings in the roof used for sampling and gauging shall be inspected annually by the facility operator to ensure compliance with the provisions of this permit. If one or more of the components are found to leak during an annual inspection, the inspection frequency for that component type shall be changed from annual to quarterly. If none of the components of that type are subsequently found to be leaking during five consecutive inspections, the inspection frequency may be changed from quarterly to annual. Components located in inaccessible (over 15 feet above ground when access is required from the ground or over 6 feet away from a platform when access is required from the platform) locations shall be inspected at least annually and components located in unsafe areas shall be inspected and repaired upon detection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
41. The operator shall determine the presence of gas leaks using portable hydrocarbon detection instrument in accordance with EPA Method 21. The instrument shall be calibrated before use each day of its use by the procedures specified in Method 21 using the following calibration gases: 1.) Zero air (less than 10 ppm of hydrocarbon in air); and 2.) A mixture of methane or n-hexane and air at a concentration of about, but less than, 10,000 ppm methane or n-hexane. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
42. The operator shall maintain an inspection log containing the following: 1.) Type of component leaking; 2.) Date of leak detection, and method of detection; 3.) Date and emission level of recheck after leak is repaired. Leaks over 10,000 ppmv shall be reported as a deviation. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
43. The permittee shall conduct actual gap measurements of the primary seal and/or secondary seal at least once every 60 months. Other than the gap criteria specified by this permit, no holes, tears, or other openings are allowed that would permit the escape of hydrocarbon vapors. Any defects found shall constitute a violation of this permit. [District Rule 4623 Section 6.1.4.3] Federally Enforceable Through Title V Permit
44. The permittee shall submit the reports of the floating roof tank inspections to the APCO within five calendar days after the completion of the inspection only for those tanks that failed to meet the applicable requirements of Rule 4623, Sections 5.2 through 5.5. The inspection report for tanks that that have been determined to be in compliance with the requirements of Sections 5.2 through 5.5 need not be submitted to the APCO, but the inspection report shall be kept on-site and made available upon request by the APCO. The inspection report shall contain all necessary information to demonstrate compliance with the provisions of this rule, including the following: 1.) Date of inspection and names and titles of company personnel doing the inspection; 2.) Tank identification number and Permit to Operate number; 3.) Measurements of the gaps between the tank shell and primary and secondary seals; 4.) Leak-free status of the tank and floating roof deck fittings. Records of the leak-free status shall include the vapor concentration values measured in ppmv. 5.) Data, supported by calculations, demonstrating compliance with the requirements specified in Sections 5.3, 5.4, 5.5.2.3.3, 5.5.2.4.2, and 5.5.2.4.3 of Rule 4623. 6.) Any corrective actions or repairs performed on the tank in order to comply with Rule 4623 and the date(s) such actions were taken. [District Rule 4623, 6.3.5 and 40 CFR 63.11087(e)] Federally Enforceable Through Title V Permit
45. The permittee shall maintain the records of the internal floating roof landing activities that are performed pursuant to Rule 4623, Sections 5.3.1.3 and 5.4.3. The records shall include information on the true vapor pressure (TVP), API gravity, storage temperature, type of organic liquid stored in the tank, the purpose of landing the roof on its legs, the date of roof landing, duration the roof was on its legs, the level or height at which the tank roof was set to land on its legs, and the lowest liquid level in the tank. [District Rule 4623 Section 6.3.7] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

46. The following test methods shall be used: ASTM Method D287 for determining API Gravity, ASTM Method D4057 sampling for API Gravity testing; ASTM D323 for determining RVP, and converting RVP to TVP at the tank's maximum organic liquid storage temperature; ARB Method 422 for determining exempt halogenated VOCs in gases; EPA Method 21 for measuring gas-leak concentration. Should the owner or operator wish to use test methods other than the ones mentioned in this condition, the methods must be approved by the District prior to its use. [District Rule 4623, 6.4] Federally Enforceable Through Title V Permit
47. The permittee shall maintain records of daily, monthly, cumulative annual organic liquid throughput in gallons. The cumulative annual records shall be updated weekly. [District Rule 2201] Federally Enforceable Through Title V Permit
48. The permittee shall maintain records of TVP tests and the temperature of the organic liquid stored in the tank. [District Rule 2201] Federally Enforceable Through Title V Permit
49. The permittee shall determine the maximum true vapor pressure of the stored organic liquid on a monthly basis, using the calculation methodology listed in Appendix B of District Rule 4623. The permittee shall keep a record of all Reid vapor pressure measurements for the stored organic liquid and shall use the highest recorded Reid vapor pressure of the month when determining the maximum true vapor pressure. The permittee shall keep a record of the actual storage temperature of the organic storage tank and shall use the highest temperature recorded of the month when determining the maximum true vapor pressure. [District Rule 4623] Federally Enforceable Through Title V Permit
50. The permittee shall maintain records sufficient to demonstrate compliance with the daily VOC emission limit. These records shall contain the calculated emission quantity as well as each process variable used in the respective calculations/modeling. [District Rule 2080] Federally Enforceable Through Title V Permit
51. The permittee shall keep all records on-site for a period of at least five years. These records shall be made available for District inspection upon request. [District Rules 2201 and 4623, 6.3] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-829-32-2

EXPIRATION DATE: 11/30/2020

EQUIPMENT DESCRIPTION:

MODIFICATION OF 1,953,000 GALLON WELDED INTERNAL FLOATING ROOF GASOLINE, DIESEL, ETHANOL, AND METHANOL STORAGE TANK (#4901) WITH A MECHANICAL SHOE PRIMARY SEAL, A WIPER SECONDARY SEAL AND A SLOTTED GUIDEPOLE:

PERMIT UNIT REQUIREMENTS

1. This tank shall only store gasoline, diesel fuel, ethanol, and methanol with a TVP of less than or equal to 10 psia. [District Rule 2201] Federally Enforceable Through Title V Permit
2. This tank shall not have more than two (2) turnovers per month. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Annual throughput of fuel shall not exceed 46,922,400 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Permittee shall maintain records of monthly and annual throughput of fuel in gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Daily emissions shall not exceed 9.0 lbs VOC/day based on a monthly average. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel that has a fixed roof. The internal roof shall be floating on the liquid surface except during initial fill and when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible. Whenever the permittee intends to land the roof on it's legs, the permittee shall notify the APCO in writing at least five days prior to performing the work. [District Rule 4623] Federally Enforceable Through Title V Permit
7. Gaps between the tank shell and the primary seal shall not exceed 1 1/2 inches. [District Rule 4623] Federally Enforceable Through Title V Permit
8. The cumulative length of all gaps between the tank shell and the primary seal greater than 1/2 inch shall not exceed 10% of the circumference of the tank. [District Rule 4623] Federally Enforceable Through Title V Permit
9. The cumulative length of all primary seal gaps greater than 1/8 inch shall not exceed 30% of the circumference of the tank. [District Rule 4623] Federally Enforceable Through Title V Permit
10. No continuous gap in the primary seal greater than 1/8 inch wide shall exceed 10% of the tank circumference. [District Rule 4623] Federally Enforceable Through Title V Permit
11. No gap between the tank shell and the secondary seal shall exceed 1/2 inch. [District Rule 4623] Federally Enforceable Through Title V Permit
12. The cumulative length of all gaps between the tank shell and the secondary seal, greater than 1/8 inch shall not exceed 5% of the tank circumference. [District Rule 4623] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

13. The metallic shoe-type seal shall be installed so that one end of the shoe extends into the stored liquid and the other end extends a minimum vertical distance of 11 inches above the stored liquid surface. [District Rule 4623] Federally Enforceable Through Title V Permit
14. The geometry of the metallic-shoe type seal shall be such that the maximum gap between the shoe and the tank shell shall be no greater than 3 inches for a length of at least 11 inches in the vertical plane above the liquid. [District Rule 4623] Federally Enforceable Through Title V Permit
15. There shall be no holes, tears, or openings in the secondary seal or in the primary seal envelope that surrounds the annular vapor space enclosed by the roof edge, seal fabric, and secondary seal. [District Rule 4623] Federally Enforceable Through Title V Permit
16. The secondary seal shall allow easy insertion of probes of up to 1 1/2 inches in width in order to measure gaps in the primary seal. [District Rule 4623] Federally Enforceable Through Title V Permit
17. The secondary seal shall extend from the roof to the tank shell and shall not be attached to the primary seal. [District Rule 4623] Federally Enforceable Through Title V Permit
18. All openings in the roof used for sampling and gauging, except pressure-vacuum valves which shall be set to within 10% of the maximum allowable working pressure of the roof, shall provide a projection below the liquid surface to prevent belching of liquid and to prevent entrained or formed organic vapor from escaping from the liquid contents of the tank and shall be equipped with a cover, seal or lid that shall be in a closed position at all times, with no visible gaps and be gas tight, except when the device or appurtenance is in use. [District Rule 4623] Federally Enforceable Through Title V Permit
19. A leak-free condition is defined as a condition without a gas or liquid leak. A gas leak is defined as a reading in excess of 10,000 ppmv as methane, above background, as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. A liquid leak is defined as a dripping rate of more than three (3) drops per minute. A reading in excess of 10,000 ppmv as methane above background or a liquid leak of greater than three (3) drops per minute is a violation of this permit and Rule 4623 and shall be reported as a deviation. [District Rule 4623] Federally Enforceable Through Title V Permit
20. Each opening in a non-contact internal floating roof, except for automatic bleeder vents (vacuum breaker vents) and rim space vents, shall provide a projection below the liquid surface. [District Rule 4623] Federally Enforceable Through Title V Permit
21. 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. [District Rule 4623] Federally Enforceable Through Title V Permit
22. Automatic bleeder vents shall be equipped with a gasket and shall 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. [District Rule 4623] Federally Enforceable Through Title V Permit
23. Rim 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. [District Rule 4623] Federally Enforceable Through Title V Permit
24. Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The well shall have a slit fabric cover that covers at least 90% of the opening. The fabric cover must be impermeable. [District Rule 4623] Federally Enforceable Through Title V Permit
25. Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover. The fabric sleeve must be impermeable. [District Rule 4623] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

26. The permittee shall visually inspect the internal floating roof, and its appurtenant parts, fittings, etc. and measure the gaps of the primary seal and/or secondary seal prior to filling the tank for newly constructed, repair, or rebuilt internal floating roof tanks. If holes, tears, or openings in the primary seal, the secondary seal, the seal fabric or defects in the internal floating roof or its appurtenant parts, components, fittings, etc., are found, they shall be repaired prior to filling the tank. [District Rule 4623] Federally Enforceable Through Title V Permit
27. The permittee shall visually inspect, through the manholes, roof hatches, or other openings on the fixed roof, the internal floating roof and its appurtenant parts, fittings, etc., and the primary seal and/or secondary seal at least once every 12 months after the tank is initially filled with an organic liquid. There should be no visible organic liquid on the roof, tank walls, or anywhere. Other than the gap criteria specified by this rule, no holes, tears, or other openings are allowed that would permit the escape of vapors. Any defects found are violations of this rule. [District Rule 4623] Federally Enforceable Through Title V Permit
28. The permittee shall conduct actual gap measurements of the primary seal and/or secondary seal at least once every 60 months. [District Rule 4623] Federally Enforceable Through Title V Permit
29. Permittee shall submit a tank inspection plan to the APCO for approval. The plan shall include an inventory of the tanks subject to this rule and a tank inspection schedule. A copy of the operator's tank safety procedures shall be made available to the APCO upon request. The tank inventory shall include tank's identification number, PTO number, maximum tank capacity, dimensions of tank (height and diameter), organic liquid stored, type of primary and secondary seal, type of floating roof (internal or external floating roof), construction date of tank, and location of tank. Any revision to a previously approved tank inspection schedule shall be submitted to the APCO for approval prior to conducting an inspection. [District Rule 4623] Federally Enforceable Through Title V Permit
30. Permittee shall submit the reports of the floating roof tank inspections to the APCO within five calendar days after the completion of the inspection only for those tanks that failed to meet the applicable requirements of Rule 4623, Sections 5.2 through 5.5. The inspection report for tanks that have been determined to be in compliance with the requirements of Sections 5.2 through 5.5 need not be submitted to the APCO, but the inspection report shall be kept on-site and made available upon request by the APCO. The inspection report shall contain all necessary information to demonstrate compliance with the provisions of Rule 4623. [District Rule 4623] Federally Enforceable Through Title V Permit
31. Permittee shall maintain the records of the internal floating roof landing activities that are performed pursuant to Rule 4623, Sections 5.3.1.3 and 5.4.3. The records shall include information on the true vapor pressure (TVP), API gravity, storage temperature, type of organic liquid stored in the tank, the purpose of landing the roof on its legs, the date of roof landing, duration the roof was on its legs, the level or height at which the tank roof was set to land on its legs, and the lowest liquid level in the tank. [District Rule 4623] Federally Enforceable Through Title V Permit
32. The permittee shall determine the maximum true vapor pressure of the stored organic liquid on a monthly basis, using the calculation methodology listed in Appendix B of District Rule 4623. The permittee shall keep a record of all Reid vapor pressure measurements for the stored organic liquid and shall use the highest recorded Reid vapor pressure of the month when determining the maximum true vapor pressure. The permittee shall keep a record of the actual storage temperature of the organic storage tank and shall use the highest temperature recorded of the month when determining the maximum true vapor pressure. [District Rule 4623] Federally Enforceable Through Title V Permit
33. The permittee shall maintain records sufficient to demonstrate compliance with the daily VOC emission limit. These records shall contain the calculated emission quantity as well as each process variable used in the respective calculations/modeling. [District Rule 2080] Federally Enforceable Through Title V Permit
34. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-829-33-3

EXPIRATION DATE: 11/30/2020

EQUIPMENT DESCRIPTION:

MODIFICATION OF 3,365,000 GALLON WELDED INTERNAL FLOATING ROOF GASOLINE, DIESEL, ETHANOL, AND METHANOL STORAGE TANK (#8801) WITH A MECHANICAL SHOE PRIMARY SEAL, A WIPER SECONDARY SEAL AND A SLOTTED GUIDEPOLE:

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
2. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall only store gasoline, diesel fuel, ethanol, and methanol with a TVP of less than or equal to 10 psia. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall not have more than two (2) turnovers per month. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Annual throughput of fuel shall not exceed 83,160,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Permittee shall maintain records of monthly and annual throughput of fuel in gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Daily emissions shall not exceed 13.3 lbs VOC/day based on a monthly average. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel that has a fixed roof. The internal roof shall be floating on the liquid surface except during initial fill and when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible. Whenever the permittee intends to land the roof on it's legs, the permittee shall notify the APCO in writing at least five days prior to performing the work. [District Rule 4623] Federally Enforceable Through Title V Permit
9. Gaps between the tank shell and the primary seal shall not exceed 1 1/2 inches. [District Rule 4623] Federally Enforceable Through Title V Permit
10. The cumulative length of all gaps between the tank shell and the primary seal greater than 1/2 inch shall not exceed 10% of the circumference of the tank. [District Rule 4623] Federally Enforceable Through Title V Permit
11. The cumulative length of all primary seal gaps greater than 1/8 inch shall not exceed 30% of the circumference of the tank. [District Rule 4623] Federally Enforceable Through Title V Permit
12. No continuous gap in the primary seal greater than 1/8 inch wide shall exceed 10% of the tank circumference. [District Rule 4623] Federally Enforceable Through Title V Permit
13. No gap between the tank shell and the secondary seal shall exceed 1/2 inch. [District Rule 4623] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

14. The cumulative length of all gaps between the tank shell and the secondary seal, greater than 1/8 inch shall not exceed 5% of the tank circumference. [District Rule 4623] Federally Enforceable Through Title V Permit
15. The metallic shoe-type seal shall be installed so that one end of the shoe extends into the stored liquid and the other end extends a minimum vertical distance of 11 inches above the stored liquid surface. [District Rule 4623] Federally Enforceable Through Title V Permit
16. The geometry of the metallic-shoe type seal shall be such that the maximum gap between the shoe and the tank shell shall be no greater than 3 inches for a length of at least 11 inches in the vertical plane above the liquid. [District Rule 4623] Federally Enforceable Through Title V Permit
17. There shall be no holes, tears, or openings in the secondary seal or in the primary seal envelope that surrounds the annular vapor space enclosed by the roof edge, seal fabric, and secondary seal. [District Rule 4623] Federally Enforceable Through Title V Permit
18. The secondary seal shall allow easy insertion of probes of up to 1 1/2 inches in width in order to measure gaps in the primary seal. [District Rule 4623] Federally Enforceable Through Title V Permit
19. The secondary seal shall extend from the roof to the tank shell and shall not be attached to the primary seal. [District Rule 4623] Federally Enforceable Through Title V Permit
20. All openings in the roof used for sampling and gauging, except pressure-vacuum valves which shall be set to within 10% of the maximum allowable working pressure of the roof, shall provide a projection below the liquid surface to prevent belching of liquid and to prevent entrained or formed organic vapor from escaping from the liquid contents of the tank and shall be equipped with a cover, seal or lid that shall be in a closed position at all times, with no visible gaps and be gas tight, except when the device or appurtenance is in use. [District Rule 4623] Federally Enforceable Through Title V Permit
21. A leak-free condition is defined as a condition without a gas or liquid leak. A gas leak is defined as a reading in excess of 10,000 ppmv as methane, above background, as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. A liquid leak is defined as a dripping rate of more than three (3) drops per minute. A reading in excess of 10,000 ppmv as methane above background or a liquid leak of greater than three (3) drops per minute is a violation of this permit and Rule 4623 and shall be reported as a deviation. [District Rule 4623] Federally Enforceable Through Title V Permit
22. Each opening in a non-contact internal floating roof, except for automatic bleeder vents (vacuum breaker vents) and rim space vents, shall provide a projection below the liquid surface. [District Rule 4623] Federally Enforceable Through Title V Permit
23. 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. [District Rule 4623] Federally Enforceable Through Title V Permit
24. Automatic bleeder vents shall be equipped with a gasket and shall 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. [District Rule 4623] Federally Enforceable Through Title V Permit
25. Rim 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. [District Rule 4623] Federally Enforceable Through Title V Permit
26. Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The well shall have a slit fabric cover that covers at least 90% of the opening. The fabric cover must be impermeable. [District Rule 4623] Federally Enforceable Through Title V Permit
27. Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover. The fabric sleeve must be impermeable. [District Rule 4623] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

28. The permittee shall visually inspect the internal floating roof, and its appurtenant parts, fittings, etc. and measure the gaps of the primary seal and/or secondary seal prior to filling the tank for newly constructed, repair, or rebuilt internal floating roof tanks. If holes, tears, or openings in the primary seal, the secondary seal, the seal fabric or defects in the internal floating roof or its appurtenant parts, components, fittings, etc., are found, they shall be repaired prior to filling the tank. [District Rule 4623] Federally Enforceable Through Title V Permit
29. The permittee shall visually inspect, through the manholes, roof hatches, or other openings on the fixed roof, the internal floating roof and its appurtenant parts, fittings, etc., and the primary seal and/or secondary seal at least once every 12 months after the tank is initially filled with an organic liquid. There should be no visible organic liquid on the roof, tank walls, or anywhere. Other than the gap criteria specified by this rule, no holes, tears, or other openings are allowed that would permit the escape of vapors. Any defects found are violations of this rule. [District Rule 4623] Federally Enforceable Through Title V Permit
30. The permittee shall conduct actual gap measurements of the primary seal and/or secondary seal at least once every 60 months. [District Rule 4623] Federally Enforceable Through Title V Permit
31. Permittee shall submit a tank inspection plan to the APCO for approval. The plan shall include an inventory of the tanks subject to this rule and a tank inspection schedule. A copy of the operator's tank safety procedures shall be made available to the APCO upon request. The tank inventory shall include tank's identification number, PTO number, maximum tank capacity, dimensions of tank (height and diameter), organic liquid stored, type of primary and secondary seal, type of floating roof (internal or external floating roof), construction date of tank, and location of tank. Any revision to a previously approved tank inspection schedule shall be submitted to the APCO for approval prior to conducting an inspection. [District Rule 4623] Federally Enforceable Through Title V Permit
32. Permittee shall submit the reports of the floating roof tank inspections to the APCO within five calendar days after the completion of the inspection only for those tanks that failed to meet the applicable requirements of Rule 4623, Sections 5.2 through 5.5. The inspection report for tanks that have been determined to be in compliance with the requirements of Sections 5.2 through 5.5 need not be submitted to the APCO, but the inspection report shall be kept on-site and made available upon request by the APCO. The inspection report shall contain all necessary information to demonstrate compliance with the provisions of Rule 4623. [District Rule 4623] Federally Enforceable Through Title V Permit
33. Permittee shall maintain the records of the internal floating roof landing activities that are performed pursuant to Rule 4623, Sections 5.3.1.3 and 5.4.3. The records shall include information on the true vapor pressure (TVP), API gravity, storage temperature, type of organic liquid stored in the tank, the purpose of landing the roof on its legs, the date of roof landing, duration the roof was on its legs, the level or height at which the tank roof was set to land on its legs, and the lowest liquid level in the tank. [District Rule 4623] Federally Enforceable Through Title V Permit
34. The permittee shall determine the maximum true vapor pressure of the stored organic liquid on a monthly basis, using the calculation methodology listed in Appendix B of District Rule 4623. The permittee shall keep a record of all Reid vapor pressure measurements for the stored organic liquid and shall use the highest recorded Reid vapor pressure of the month when determining the maximum true vapor pressure. The permittee shall keep a record of the actual storage temperature of the organic storage tank and shall use the highest temperature recorded of the month when determining the maximum true vapor pressure. [District Rule 4623] Federally Enforceable Through Title V Permit
35. The permittee shall maintain records sufficient to demonstrate compliance with the daily VOC emission limit. These records shall contain the calculated emission quantity as well as each process variable used in the respective calculations/modeling. [District Rule 2080] Federally Enforceable Through Title V Permit
36. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-829-35-3

EXPIRATION DATE: 11/30/2020

EQUIPMENT DESCRIPTION:

30,000 BBL (1,260,000 GALLON) WELDED INTERNAL FLOATING ROOF TANK (#30006) WITH A MECHANICAL SHOE PRIMARY SEAL, A WIPER SECONDARY SEAL, AND A SLOTTED GUIDEPOLE

PERMIT UNIT REQUIREMENTS

1. Only denatured ethanol (97.5% or more by weight ethanol, 2.5% or less by weight gasoline) shall be stored in this tank. The permittee shall maintain sufficient records to demonstrate compliance with this condition. [District Rules 2201 and 4102]
2. True vapor pressure (TVP) of the organic liquid stored in the tank shall not exceed 2.8 psia. [District Rule 2201]
3. VOC emissions shall not exceed 6.1 pounds in any one day. [District Rule 2201]
4. The daily throughput of the organic liquid shall not exceed 25,000 barrels/day or 1,050,000 gallons/day (equivalent to 1 tank turnover/day). [District Rule 2201]
5. The monthly throughput of the organic liquid shall not exceed 1,000,000 barrels/month or 42,000,000 gallons/month (equivalent to 4 tank turnover/month). [District Rule 2201]
6. The permittee shall determine TVP and the temperature of the organic liquid stored on monthly basis. [District Rule 2201]
7. The floating roof shall be floating on the surface of the stored liquid at all times (i.e., off the roof leg supports) except during the initial fill until the roof is lifted off the leg supports and when the tank is completely emptied and subsequently refilled. When the roof is resting on the leg supports the processes of filling or emptying and refilling the tank shall be continuous and shall be accomplished as rapidly as possible. Whenever the permittee intends to land the roof on its legs, the permittee shall notify the APCO in writing at least five calendar days prior to performing the work. The tank must be in compliance with this rule before it may land the roof on its legs. [District Rule 4623 Section 5.4.3, 40 CFR 60.112b(a)(1)(i)] Federally Enforceable Through Title V Permit
8. No gap between the tank shell and the primary seal shall exceed one and one-half (1-1/2) inches. [District Rule 4653 Sections 5.3.2.1.1 and 5.4.1] Federally Enforceable Through Title V Permit
9. The cumulative length of all gaps between the tank shell and the primary seal: 1) Greater than one-half (1/2) inch shall not exceed 10 percent of the circumference of the tank; and 2) Greater than one-eighth (1/8) inch shall not exceed 30 percent of the circumference of the tank. [District Rule 4623 Sections 5.3.2.1.1 and 5.4.1] Federally Enforceable Through Title V Permit
10. The primary seal shall have no continuous gap greater than one-eighth (1/8) inch shall exceed 10 percent of the tank circumference. [District Rule 4623 Sections 5.3.2.1.1 and 5.4.1] Federally Enforceable Through Title V Permit
11. No gap between the tank shell and the secondary seal shall exceed one-half (1/2) inch. [District Rule 4623 Sections 5.3.2.1.2 and 5.4.1] Federally Enforceable Through Title V Permit
12. The cumulative length of all gaps between the tank shell and the secondary seal, greater than one-eighth (1/8) inch shall not exceed 5 percent of the tank circumference. [District Rule 4623 Sections 5.3.2.1.2 and 5.4.1] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

13. The metallic shoe-type seal shall be installed so that one end of the shoe extends into the stored liquid and the other end extends a minimum vertical distance of 18 inches above the stored liquid surface. [District Rule 4623 Section 5.4.1] Federally Enforceable Through Title V Permit
14. The geometry of the metallic-shoe type seal shall be such that the maximum gap between the shoe and the tank shell shall be no greater than 3 inches for a length of at least 18 inches in the vertical plane above the liquid. [District Rule 4623 Sections 5.3.2.1.4 and 5.4.1] Federally Enforceable Through Title V Permit
15. There shall be no holes, tears, or openings in the secondary seal or in the primary seal envelope that surrounds the annular vapor space enclosed by the roof edge, seal fabric, and secondary seal. [District Rule 4623 Sections 5.3.2.1.5 and 5.4.1] Federally Enforceable Through Title V Permit
16. The secondary seal shall allow easy insertion of probes of up to one and one-half (1-1/2) inches in width in order to measure gaps in the primary seal. [District Rule 4623 Sections 5.3.2.1.6 and 5.4.1] Federally Enforceable Through Title V Permit
17. The secondary seal shall extend from the roof to the tank shell and shall not be attached to the primary seal. [District Rule 4623 Sections 5.3.2.1.7 and 5.4.1] Federally Enforceable Through Title V Permit
18. All openings in the roof used for sampling and gauging shall provide a projection below the liquid surface to prevent belching of liquid and to prevent entrained or formed organic vapor from escaping from the liquid contents of the tank and shall be equipped with a cover, seal or lid. The cover seal or lid shall be in a closed position, with no visible gaps and be gas tight, except when the device or appurtenance is in use. [District Rule 4623 Section 5.5.1] Federally Enforceable Through Title V Permit
19. A gas-tight condition is defined as a condition without a gas leak. A gas leak is defined as a reading in excess of 10,000 ppmv, as methane, above background as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. A reading in excess of 10,000 ppmv above background is a violation of this permit and Rule 4623 and shall be reported as a deviation. [District Rule 4623 Sections 3.11, 5.1.3, and 6.4.8] Federally Enforceable Through Title V Permit
20. Each opening in a non-contact internal floating roof except for automatic bleeder vents (vacuum breaker vents) and rim space vents shall provide a projection below the liquid surface. [District Rule 4623 Section 5.5.2.1.1, 40 CFR 60.112b(a)(1)(iii)] Federally Enforceable Through Title V Permit
21. 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 shall be equipped with a cover, or a lid shall be maintained in a closed position at all times (i.e. no visible gaps) except when the device is in use. The cover or lid shall be equipped with a gasket. Covers on each access hatch and automatic gauge float well shall be bolted in place except when they are in use. [District Rule 4623 Section 5.5.2.1.2, 40 CFR 60.112b(a)(1)(iv)] Federally Enforceable Through Title V Permit
22. Automatic bleeder vents shall be equipped with a gasket and shall be closed at all times when the roof is floating except when the roof is being floated off or is being landed on the leg roof supports. [District Rule 4623 Section 5.5.2.1.3, 40 CFR 60.112b(a)(1)(v)] Federally Enforceable Through Title V Permit
23. Rim vents shall be equipped with a gasket and shall be set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting. [District Rule 4623 Section 5.5.2.1.4, 40 CFR 60.112b(a)(1)(vi)] Federally Enforceable Through Title V Permit
24. Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The well shall have a slit fabric cover that covers at least 90 percent of the opening. The fabric cover must be impermeable. [District Rule 4623 Section 5.5.2.1.5, 40 CFR 60.112b(a)(1)(vii)] Federally Enforceable Through Title V Permit
25. 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. The fabric sleeve must be impermeable. [District Rule 4623 Section 5.5.2.1.6, 40 CFR 60.112b(a)(1)(viii)] Federally Enforceable Through Title V Permit
26. Each penetration of the internal floating roof that allows for the passage of a ladder shall have a gasketed sliding cover. [40 CFR 60.112b(a)(1)(ix)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

27. All slotted sampling or gauging wells, and similar fixed projections through the floating roof shall provide a projection below the liquid surface. [District Rule 4623 Section 5.5.2.4.1] Federally Enforceable Through Title V Permit
28. The gap between the pole wiper and the slotted guidepole shall be added to the gaps measured to determine compliance with the secondary seal requirement, and in no case shall not exceed one-eighth (1/8) inch. [District Rule 4623 Section 5.5.2.4.3] Federally Enforceable Through Title V Permit
29. The permittee shall visually inspect the internal floating roof and its appurtenant parts, fittings, etc., and measure the gaps of the primary seal and/or secondary seal prior to filling the tank. If there are holes, tears, or other openings in the primary seal, the secondary seal, or the seal fabric or defects in the internal floating roof or its appurtenant parts, components, fittings, etc., the operator shall repair the defects before filling the tank. [District Rule 4623 Section 6.1.4.1, 40 CFR 60.113b(a)(1)] Federally Enforceable Through Title V Permit
30. The permittee shall visually inspect, through the manholes, roof hatches, or other opening on the fixed roof, the internal floating roof and its appurtenant parts, fittings, etc., and the primary seal and/or secondary seal at least once every 12 months after the tank is initially filled with an organic liquid. There should be no visible organic liquid on the roof, tank walls, or anywhere. Other than the gap criteria specified by this rule, no holes, tears, or other openings are allowed that would permit the escape of vapors. Any defects found are violations of this rule. [District Rule 4623 Section 6.1.4.2, 40 CFR 60.113b(a)(2)] Federally Enforceable Through Title V Permit
31. If any failure (i.e. visible organic liquid on the internal floating roof, tank walls or anywhere, holes or tears in the seal fabric) is detected during 12 month visual inspection, the permittee shall repair the items or empty and remove the storage vessel from service within 45 days. If the detected failure cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the APCO in the inspection report. Such a request must document that alternate storage capacity is unavailable and specify a schedule of actions the company will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible. [40 CFR 60.113b(a)(2)] Federally Enforceable Through Title V Permit
32. The permittee shall conduct actual gap measurements of the primary seal and/or secondary seal at least once every 60 months. Other than the gap criteria specified by this permit, no holes, tears, or other openings are allowed that would permit the escape of hydrocarbon vapors. Any defects found shall constitute a violation of this rule. [District Rule 4623 Section 6.1.4.3] Federally Enforceable Through Title V Permit
33. The permittee shall submit the reports of the floating roof tank inspections to the APCO within five calendar days after the completion of the inspection only for those tanks that failed to meet the applicable requirements of Rule 4623, Sections 5.2 through 5.5. The inspection report for tanks that have been determined to be in compliance with the requirements of Sections 5.2 through 5.5 need not be submitted to the APCO, but the inspection report shall be kept on-site and made available upon request by the APCO. The inspection report shall contain all necessary information to demonstrate compliance with the provisions of this rule, including the following: 1) Date of inspection and names and titles of company personnel doing the inspection. 2) Tank identification number and Permit to Operate number. 3) Measurements of the gaps between the tank shell and primary and secondary seals. 4) Gas-tight status of the tank and floating roof deck fittings. Records of the gas-tight status shall include the vapor concentration values measured in parts per million by volume (ppmv). 5) Data, supported by calculations, demonstrating compliance with the requirements specified in Sections 5.3.1.3 and 5.5.2.4.3 of Rule 4623. 6) Any corrective actions or repairs performed on the tank in order to comply with rule 4623 and the date(s) such actions were taken. [District Rule 4623 Section 6.3.5] Federally Enforceable Through Title V Permit
34. Permittee shall maintain the records of the internal floating roof landing activities that are performed pursuant to Rule 4623, Sections 5.3.1.3 and 5.4.3. The records shall include storage temperature, type of organic liquid stored in the tank, the purpose of landing the roof on its legs, the date of roof landing, duration the roof was on its legs, the level or height at which the tank roof was set to land on its legs, and the lowest liquid level in the tank. [District Rule 4623 Section 6.3.7] Federally Enforceable Through Title V Permit
35. The permittee shall notify the District in writing at least 30 days prior to conduct the visual inspection of the storage vessel, so the District can arrange an observer. [40 CFR 60.113b(a)(5)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

36. The permittee shall maintain records of daily, monthly, cumulative annual organic liquid throughput in gallons. The cumulative annual records shall be updated weekly. [District Rule 2201] Federally Enforceable Through Title V Permit
37. The permittee shall maintain records of TVP tests and the temperature of the organic liquid stored in the tank. [District Rule 2201] Federally Enforceable Through Title V Permit
38. The permittee shall maintain records sufficient to demonstrate compliance with the daily VOC emission limit. These records shall contain the calculated emission quantity as well as each process variable used in the respective calculations/modeling. [District Rule 2080] Federally Enforceable Through Title V Permit
39. The permittee shall keep all records on-site for a period of at least five years. These records shall be made available for District inspection upon request. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

DRAFT

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-829-37-1

EXPIRATION DATE: 11/30/2020

EQUIPMENT DESCRIPTION:

DENATURED ETHANOL BULK OFFLOADING OPERATION CONSISTING OF ONE RAILCAR OFFLOADING STATION

PERMIT UNIT REQUIREMENTS

1. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. {15} No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
3. The unloading equipment shall be designed, installed, maintained, and operated such that there are no leaks and no excess organic liquid drainage at disconnections. [District Rule 4624]
4. A leak is defined as the dripping of VOC-containing liquid at a rate of more than three drops per minute; or the detection of any gaseous or vapor emissions with a concentration of VOC greater than 1,000 ppmv above a background as methane when measured using a portable hydrocarbon detection instrument in accordance with EPA Method 21. [District Rule 4624]
5. Each transfer rack handling organic liquids shall be tested for leaks, using EPA Method 21, at least once every calendar quarter. [District Rule 4624]
6. The equipment that are found leaking shall be repaired or replaced within 72 hours after detecting the leakage. If the leaking component cannot be repaired or replaced within 72 hours, the component shall be taken out of service until such time the component is repaired or replaced. The repaired or replacement equipment shall be reinspected the first time the equipment is in operation after the repair or replacement. [District Rule 4624]
7. The permittee may apply for a written approval from the APCO to change the inspection frequency from quarterly to annually provided no leaks were found during five consecutive quarterly inspections. Upon identification of any leak during an annual inspection, the inspection frequency shall revert back to quarterly, and the operator shall contact the APCO in writing within 14 days. [District Rule 4624]
8. The permittee shall maintain a log book that contains the following information: 1.) dates of leak inspections, 2.) the nature of the leak and the method of detection; 3.) findings, 4.) corrective action (date each leak is repaired), 5.) repair methods applied in each attempt to repair the leak; 6.) the reason for the delay if the leak is not repaired within 3 calendar days after discovery of the leak; 7.) the date of successful repair of the leak; and 8.) inspector name and signature. [District Rule 4624]
9. The permittee shall keep daily records of the number of organic liquid hose disconnections from railcars for this permit unit. The records shall be updated at least weekly. [District Rule 2080]
10. All records shall be maintained on site for a period of at least five years and shall be made available for District, ARB, and EPA inspection upon request. [District Rules 1070, 2080, 4624]
11. {3658} This permit does not authorize the violation of any conditions established for this facility in the Conditional Use Permit (CUP), Special Use Permit (SUP), Site Approval, Site Plan Review (SPR), or other approval documents issued by a local, state, or federal agency. [Public Resources Code 21000-21177: California Environmental Quality Act]

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-829-38-1

EXPIRATION DATE: 11/30/2020

EQUIPMENT DESCRIPTION:

DENATURED ETHANOL BULK OFFLOADING OPERATION CONSISTING OF ONE TRUCK OFFLOADING STATION

PERMIT UNIT REQUIREMENTS

1. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. {15} No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
3. The unloading equipment shall be designed, installed, maintained, and operated such that there are no leaks and no excess organic liquid drainage at disconnections. [District Rule 4624]
4. A leak is defined as the dripping of VOC-containing liquid at a rate of more than three drops per minute; or the detection of any gaseous or vapor emissions with a concentration of VOC greater than 1,000 ppmv above a background as methane when measured using a portable hydrocarbon detection instrument in accordance with EPA Method 21. [District Rule 4624]
5. Each transfer rack handling organic liquids shall be tested for leaks, using EPA Method 21, at least once every calendar quarter. [District Rule 4624]
6. The equipment that are found leaking shall be repaired or replaced within 72 hours after detecting the leakage. If the leaking component cannot be repaired or replaced within 72 hours, the component shall be taken out of service until such time the component is repaired or replaced. The repaired or replacement equipment shall be reinspected the first time the equipment is in operation after the repair or replacement. [District Rule 4624]
7. The permittee may apply for a written approval from the APCO to change the inspection frequency from quarterly to annually provided no leaks were found during five consecutive quarterly inspections. Upon identification of any leak during an annual inspection, the inspection frequency shall revert back to quarterly, and the operator shall contact the APCO in writing within 14 days. [District Rule 4624]
8. The permittee shall maintain a log book that contains the following information: 1.) dates of leak inspections, 2.) the nature of the leak and the method of detection; 3.) findings, 4.) corrective action (date each leak is repaired), 5.) repair methods applied in each attempt to repair the leak; 6.) the reason for the delay if the leak is not repaired within 3 calendar days after discovery of the leak; 7.) the date of successful repair of the leak; and 8.) inspector name and signature. [District Rule 4624]
9. The permittee shall keep daily records of the number of organic liquid hose disconnections from trucks for this permit unit. The records shall be updated at least weekly. [District Rule 2080]
10. All records shall be maintained on site for a period of at least five years and shall be made available for District, ARB, and EPA inspection upon request. [District Rules 1070, 2080, 4624]
11. {3658} This permit does not authorize the violation of any conditions established for this facility in the Conditional Use Permit (CUP), Special Use Permit (SUP), Site Approval, Site Plan Review (SPR), or other approval documents issued by a local, state, or federal agency. [Public Resources Code 21000-21177: California Environmental Quality Act]

These terms and conditions are part of the Facility-wide Permit to Operate.

ATTACHMENT B

Previous Title V Operating Permit

San Joaquin Valley Air Pollution Control District

FACILITY: N-829-0-4

EXPIRATION DATE: 11/30/2020

FACILITY-WIDE REQUIREMENTS

1. The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
2. The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
3. The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0] Federally Enforceable Through Title V Permit
4. Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (12/20/07). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
5. The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.8.1 and 9.13.1] Federally Enforceable Through Title V Permit
6. A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031] Federally Enforceable Through Title V Permit
7. Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District. [District Rule 2040] Federally Enforceable Through Title V Permit
8. The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
9. The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate. Any amendments to these Facility-wide Requirements that affect specific Permit Units may constitute modification of those Permit Units.

Facility Name: NUSTAR TERMINALS OPS PARTNERSHIP LP
Location: 2941 NAVY DRIVE, STOCKTON, CA 95206
N-829-0-4 : Aug 2 2021 1:34PM - YOSHIMUJ

10. The operator shall submit reports of any required monitoring at least every six months unless a different frequency is required by an applicable requirement. All instances of deviations from permit requirements must be clearly identified in such reports. [District Rule 2520, 9.5.1] Federally Enforceable Through Title V Permit
11. Deviations from permit conditions must be promptly reported, including deviations attributable to upset conditions, as defined in the permit. For the purpose of this condition, promptly means as soon as reasonably possible, but no later than 10 days after detection. The report shall include the probable cause of such deviations, and any corrective actions or preventive measures taken. All required reports must be certified by a responsible official consistent with section 10.0 of District Rule 2520 (6/21/01). [District Rules 2520, 9.5.2 and 1100, 7.0] Federally Enforceable Through Title V Permit
12. If for any reason a permit requirement or condition is being challenged for its constitutionality or validity by a court of competent jurisdiction, the outcome of such challenge shall not affect or invalidate the remainder of the conditions or requirements in that permit. [District Rule 2520, 9.7] Federally Enforceable Through Title V Permit
13. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. [District Rule 2520, 9.8.2] Federally Enforceable Through Title V Permit
14. The permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [District Rule 2520, 9.8.3] Federally Enforceable Through Title V Permit
15. The permit does not convey any property rights of any sort, or any exclusive privilege. [District Rule 2520, 9.8.4] Federally Enforceable Through Title V Permit
16. The Permittee shall furnish to the District, within a reasonable time, any information that the District may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the District copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to EPA along with a claim of confidentiality. [District Rule 2520, 9.8.5] Federally Enforceable Through Title V Permit
17. The permittee shall pay annual permit fees and other applicable fees as prescribed in Regulation III of the District Rules and Regulations. [District Rule 2520, 9.9] Federally Enforceable Through Title V Permit
18. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to enter the permittee's premises where a permitted source is located or emissions related activity is conducted, or where records must be kept under condition of the permit. [District Rule 2520, 9.13.2.1] Federally Enforceable Through Title V Permit
19. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. [District Rule 2520, 9.13.2.2] Federally Enforceable Through Title V Permit
20. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit. [District Rule 2520, 9.13.2.3] Federally Enforceable Through Title V Permit
21. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [District Rule 2520, 9.13.2.4] Federally Enforceable Through Title V Permit
22. No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann #1 or equivalent to 20% opacity and greater, unless specifically exempted by District Rule 4101 (02/17/05). If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition, the more stringent visible emission limit shall supersede this condition. [District Rule 4101, and County Rules 401 (in all eight counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

23. No person shall manufacture, blend, repackage, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in Table of Standards 1 effective until 12/30/10 or Table of Standards 2 effective on and after 1/1/11 of District Rule 4601 (12/17/09) for use or sale within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit
24. All VOC-containing materials subject to Rule 4601 (12/17/09) shall be stored in closed containers when not in use. [District Rule 4601, 5.4] Federally Enforceable Through Title V Permit
25. The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (12/17/09). [District Rule 4601, 6.1 and 6.3] Federally Enforceable Through Title V Permit
26. With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.13.1 and 10.0] Federally Enforceable Through Title V Permit
27. If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. [40 CFR 82 Subpart F] Federally Enforceable Through Title V Permit
28. If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B. [40 CFR Part 82, Subpart B] Federally Enforceable Through Title V Permit
29. Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8021] Federally Enforceable Through Title V Permit
30. Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8031] Federally Enforceable Through Title V Permit
31. An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8041] Federally Enforceable Through Title V Permit
32. Whenever open areas are disturbed, or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8051] Federally Enforceable Through Title V Permit
33. Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8061] Federally Enforceable Through Title V Permit
34. Any unpaved vehicle/equipment area that anticipates more than 50 Average annual daily Trips (AADT) shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 150 vehicle trips per day (VDT) shall comply with the requirements of Section 5.1.2 of District Rule 8071. On each day that 25 or more VDT with 3 or more axles will occur on an unpaved vehicle/equipment traffic area, the owner/operator shall comply with the requirements of Section 5.1.3 of District Rule 8071. On each day when a special event will result in 1,000 or more vehicles that will travel/park on an unpaved area, the owner/operator shall comply with the requirements of Section 5.1.4 of District Rule 8071. All sources shall comply with the requirements of Section 5.0 of District Rule 8071 unless specifically exempted under Section 4.0 of Rule 8071 (9/16/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8071] Federally Enforceable Through Title V Permit
35. Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation). [40 CFR 61 Subpart M] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE
These terms and conditions are part of the Facility-wide Permit to Operate.

36. The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.16] Federally Enforceable Through Title V Permit
37. The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2] Federally Enforceable Through Title V Permit
38. When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permits shall apply. [District Rule 2520, 9.1.1] Federally Enforceable Through Title V Permit
39. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: Rule 401 (Madera, Fresno, Kern, Kings, San Joaquin, Stanislaus, Tulare and Merced), Rule 110 (Fresno, Stanislaus, San Joaquin), Rule 109 (Merced), Rule 113 (Madera), Rule 111 (Kern, Tulare, Kings), and Rule 202 (Fresno, Kern, Tulare, Kings, Madera, Stanislaus, Merced, San Joaquin). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
40. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (2/17/05); 4601 (12/17/09); 8021 (8/19/2004); 8031 (8/19/2004); 8041 (8/19/2004); 8051 (8/19/2004); 8061 (8/19/2004); and 8071 (9/16/2004). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
41. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin January 1 of every year, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of the reporting period [District Rule 2520] Federally Enforceable Through Title V Permit
42. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-829-1-9

EXPIRATION DATE: 11/30/2020

EQUIPMENT DESCRIPTION:

FOUR LANE TRUCK LOADING RACK (NORTH) CONSISTING OF 7 GASOLINE LOADING ARMS, 3 DIESEL/BIODIESEL LOADING ARMS, AND 1 BIODIESEL LOADING ARM, A BIODIESEL LOADING PUMP, AND A 2-STREAM BLEND SKID

PERMIT UNIT REQUIREMENTS

1. Fugitive VOC from components, such as valve, flange, connector, pump seal, etc., associated with this permit unit shall not exceed 219 pounds in any one calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Fugitive VOC emissions from component leaks shall be calculated using component count and appropriate emission factors from "California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities", Table IV-1b (Feb 1999) - Marketing Terminal Average Emission Factors. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The combined quantity of organic liquids (as defined in District Rule 4624) loaded through permit units N-829-1 and N-829-2 shall not exceed 2,071,233 gallons in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The combined quantity of organic liquids (as defined in District Rule 4624) loaded through permit units N-829-1 and N-829-2 shall not exceed 756,000,000 gallons in any one rolling 12-month period. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The combined maximum number of organic liquids hose disconnections performed by permit units N-829-1 and N-829-2 shall not exceed 2,072 disconnects in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The combined maximum number of organic liquids hose disconnections performed by permit units N-829-1 and N-829-2 shall not exceed 756,000 disconnects in any one rolling 12-month period. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The VOC emission rate from each organic liquids hose disconnect shall not exceed 0.0172 pounds per disconnect. {The VOC emissions rate from each disconnect shall be calculated as follow: VOC emissions rate (lb/disconnect) = 10 mL-VOC/disconnect x organic liquid density (lb/gal) x (1 gal/3785.41 mL)}. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The loading rack shall be equipped with bottom loading equipment, dry break couplers, and a vapor collection and control system such that the VOC emissions shall not exceed 0.08 pounds per 1,000 gallons of organic liquid loaded. [District Rule 2201] Federally Enforceable Through Title V Permit
9. All vapors displaced from tank truck loading shall be vented to the vapor combustion system under permit unit N-829-20. [District Rule 2201 and 40 CFR Part 60.502(a), (f), and (g)] Federally Enforceable Through Title V Permit
10. The vapor collection system shall be operated in a manner to prevent any organic vapors collected at one loading rack from passing to another loading rack. [40 CFR Part 60.502(d) and 40 CFR Part 63.11088(a)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

11. Gasoline shall be loaded only into vapor-tight tank trucks. [40 CFR Part 60.502(e) and 40 CFR Part 63.11088(a)] Federally Enforceable Through Title V Permit
12. The facility shall obtain the vapor tightness documentation specified in 40 CFR Part 60.505(b) for each gasoline tank truck that is to be loaded at the facility. [40 CFR Part 60.502(e)(1)] Federally Enforceable Through Title V Permit
13. The vapor collection and control system shall operate such that the pressure in the delivery tank being loaded does not exceed 18 inches water column pressure and 6 inches water column vacuum. [District Rule 4624 and 40 CFR Part 60.502(h)] Federally Enforceable Through Title V Permit
14. All delivery tanks which previously contained organic liquids, including gasoline, with a TVP greater than 1.5 psia at loading conditions shall be filled only at Class 1 loading facilities using bottom loading equipment with a vapor collection and control system operating such that VOC emissions do not exceed 0.08 pounds per 1,000 gallons of organic liquid loaded and which operate so the delivery tank does not exceed 18 inches water column pressure nor 6 inches water column vacuum. [District Rule 4624] Federally Enforceable Through Title V Permit
15. The vapor collection system, the vapor destruction device, and each transfer rack handling organic liquids shall be tested for leaks at least once every calendar quarter with using a portable hydrocarbon analyzer in accordance with EPA Method 21. [District Rule 4624] Federally Enforceable Through Title V Permit
16. Loading and vapor collection and control equipment shall be maintained and operated such that there are no leaks and is no excess organic liquid drainage during disconnections. A leak is defined as the dripping of organic compounds at a rate of more than three drops per minute or the detection of organic compounds, in excess of 10,000 ppm as methane measured at the surface of the component interface from the potential source in accordance with EPA Method 21. Excess organic liquid drainage is defined as an average of more than 10 milliliters liquid drainage per disconnect from three consecutive disconnects. [District Rule 4624] Federally Enforceable Through Title V Permit
17. The equipment that are found leaking shall be repaired or replaced within 72 hours after detecting the leakage. If the leaking component cannot be repaired or replaced within 72 hours, the component shall be taken out of service until such time the component is repaired or replaced. The repaired or replacement equipment shall be reinspected the first time the equipment is in operation after the repair or replacement. [District Rule 4624] Federally Enforceable Through Title V Permit
18. Each calendar month, the vapor collection system, the vapor processing system and each loading rack handling gasoline shall be inspected during the loading of gasoline tank trucks for organic liquid and organic vapor leaks. For the purpose of this condition, detection methods incorporating sight, sound and smell are acceptable. [40 CFR Part 60.502(j) and 40 CFR Part 63.11089(a)] Federally Enforceable Through Title V Permit
19. An operator or owner may apply for a written approval from the APCO to change the EPA Method 21 leak inspection frequency from quarterly to annually provided no leaks were found during five consecutive quarterly inspections. Upon identification of any leak during an annual inspection, the inspection frequency shall revert back to quarterly, and the operator shall contact the APCO in writing within 14 days. [District Rule 4624] Federally Enforceable Through Title V Permit
20. For monthly leak inspection, a log book shall be used and shall be signed by the owner or operator at the completion of each inspection. A section of the log book shall contain a list, summary description, or diagram(s) showing the location of all equipment in gasoline service at the facility. [40 CFR Part 63.11089(b) and 40 CFR Part 63.11094(d)] Federally Enforceable Through Title V Permit
21. Each calendar month, liquid drainage at disconnect of each loading arm shall be determined, and appropriate action shall be taken in case excess liquid drainage occurs from any loading arm. If no excess drainage conditions are found during five consecutive monthly inspections, the drainage inspection frequency may be changed from monthly to quarterly. However, if one or more excess drainage condition is found during a quarterly inspection, the inspection frequency shall return to monthly. [District Rule 2520] Federally Enforceable Through Title V Permit
22. Liquid drainage inspections shall be completed after midnight and before 10:00 AM the day of inspection. Compliance shall be demonstrated by collecting all drainage at disconnect in a spouted container. The drainage shall be transferred to a graduated cylinder and the volume determined within one minute of collection. [District Rule 2520] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

23. Loading of a delivery vessel shall discontinue if its pressure relief valve opens. Corrective action shall be taken should this condition occur. [District Rule 2520] Federally Enforceable Through Title V Permit
24. Documentation attesting to the vapor tightness of each truck loaded with gasoline shall be kept. The documentation file for each tank truck shall be updated at least once per year to reflect the current test results as determined by EPA method 27. [40 CFR Part 60.505(a) and (b), and 40 CFR Part 63.11094(b)] Federally Enforceable Through Title V Permit
25. The owner or operator shall maintain a log book that contains the following information: 1.) dates of leak inspections, 2.) the nature of the leak and the method of detection; 3.) findings, 4.) corrective action (date each leak is repaired), 5.) repair methods applied in each attempt to repair the leak; 6.) the reason for the delay if the leak is not repaired within 3 calendar days after discovery of the leak; 7.) the date of successful repair of the leak; and 8.) inspector name and signature. [District Rule 4624, 40 CFR Part 60.505(c), 40 CFR Part 63.11089(g), 40 CFR Part 11094(e), and 40 CFR Part 63.11095(a)(3)] Federally Enforceable Through Title V Permit
26. The owner or operator shall submit a semi-annual compliance report that includes each loading of a gasoline cargo tank for which vapor tightness documentation had not been previously obtained by the facility. [40 CFR Part 63.11088(f) and 40 CFR Part 63.11095(a)(2)] Federally Enforceable Through Title V Permit
27. The owner or operator shall keep records of the organic liquids throughput, in gallons from permit units N-829-1 and N-829-2. [District Rules 2201 and 4624] Federally Enforceable Through Title V Permit
28. The owner or operator shall keep records of the cumulative organic liquids throughput on a rolling 12-month basis, in gallons from permit units N-829-1 and N-829-2. The record shall be updated at least weekly. [District Rule 2201 and 4624] Federally Enforceable Through Title V Permit
29. All records shall be maintained on site for a period of at least five years and shall be made available for District, ARB, or EPA inspection upon request. [District Rules 1070, 2201, 4624, and 40 CFR Part 60.505, and 40 CFR Part 63.11094(a)] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-829-2-9

EXPIRATION DATE: 11/30/2020

EQUIPMENT DESCRIPTION:

FOUR LANE TRUCK LOADING RACK (SOUTH) CONSISTING OF 4 GASOLINE LOADING ARMS, 4 DIESEL/BIODIESEL LOADING ARMS, A BIODIESEL LOADING PUMP, A 4-STREAM BLEND SKID, AND A BIODIESEL TRUCK OFF-LOADING PUMP

PERMIT UNIT REQUIREMENTS

1. Fugitive VOC from components, such as valve, flange, connector, pump seal, etc., associated with this permit unit shall not exceed 256 pounds in any one calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Fugitive VOC emissions from component leaks shall be calculated using component count and appropriate emission factors from "California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities", Table IV-1b (Feb 1999) - Marketing Terminal Average Emission Factors. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The combined quantity of organic liquids (as defined in District Rule 4624) loaded through permit units N-829-1 and N-829-2 shall not exceed 2,071,233 gallons in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The combined quantity of organic liquids (as defined in District Rule 4624) loaded through permit units N-829-1 and N-829-2 shall not exceed 756,000,000 gallons in any one rolling 12-month period. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The combined maximum number of organic liquid hose disconnections performed by permit units N-829-1 and N-829-2 shall not exceed 2,072 disconnects in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The combined maximum number of organic liquid hose disconnections performed by permit units N-829-1 and N-829-2 shall not exceed 756,000 disconnects in any one rolling 12-month period. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The VOC emission rate from each organic liquid hose disconnect shall not exceed 0.0172 pounds per disconnect. {The VOC emissions rate from each disconnect shall be calculated as follow: VOC emissions rate (lb/disconnect) = 10 mL-VOC/disconnect x organic liquid density (lb/gal) x (1 gal/3785.41 mL)}. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The loading rack shall be equipped with bottom loading equipment, dry break couplers, and a vapor collection and control system such that the VOC emissions shall not exceed 0.08 pounds per 1,000 gallons of organic liquid loaded. [District Rule 2201] Federally Enforceable Through Title V Permit
9. All vapors displaced from tank truck loading shall be vented to the vapor combustion system under permit unit N-829-20. [District Rule 2201 and 40 CFR Part 60.502(a), (f), and (g)] Federally Enforceable Through Title V Permit
10. The vapor collection system shall be operated in a manner to prevent any organic vapors collected at one loading rack from passing to another loading rack. [40 CFR Part 60.502(d) and 40 CFR Part 63.11088(a)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

11. Gasoline shall be loaded only into vapor-tight tank trucks. [40 CFR Part 60.502(e) and 40 CFR Part 63.11088(a)] Federally Enforceable Through Title V Permit
12. The facility shall obtain the vapor tightness documentation specified in 40 CFR Part 60.505(b) for each gasoline tank truck that is to be loaded at the facility. [40 CFR Part 60.502(e)(1)] Federally Enforceable Through Title V Permit
13. The vapor collection and control system shall operate such that the pressure in the delivery tank being loaded does not exceed 18 inches water column pressure and 6 inches water column vacuum. [District Rule 4624 and 40 CFR Part 60.502(h)] Federally Enforceable Through Title V Permit
14. All delivery tanks which previously contained organic liquids, including gasoline, with a TVP greater than 1.5 psia at loading conditions shall be filled only at Class 1 loading facilities using bottom loading equipment with a vapor collection and control system operating such that VOC emissions do not exceed 0.08 pounds per 1,000 gallons of organic liquid loaded and which operate so the delivery tank does not exceed 18 inches water column pressure nor 6 inches water column vacuum. [District Rule 4624] Federally Enforceable Through Title V Permit
15. The vapor collection system, the vapor destruction device, and each transfer rack handling organic liquids shall be tested for leaks at least once every calendar quarter with using a portable hydrocarbon analyzer in accordance with EPA Method 21. [District Rule 4624] Federally Enforceable Through Title V Permit
16. Loading and vapor collection and control equipment shall be maintained and operated such that there are no leaks and is no excess organic liquid drainage during disconnections. A leak is defined as the dripping of organic compounds at a rate of more than three drops per minute or the detection of organic compounds, in excess of 10,000 ppm as methane measured at the surface of the component interface from the potential source in accordance with EPA Method 21. Excess organic liquid drainage is defined as an average of more than 10 milliliters liquid drainage per disconnect from three consecutive disconnects. [District Rule 4624] Federally Enforceable Through Title V Permit
17. The equipment that are found leaking shall be repaired or replaced within 72 hours after detecting the leakage. If the leaking component cannot be repaired or replaced within 72 hours, the component shall be taken out of service until such time the component is repaired or replaced. The repaired or replacement equipment shall be reinspected the first time the equipment is in operation after the repair or replacement. [District Rule 4624] Federally Enforceable Through Title V Permit
18. Each calendar month, the vapor collection system, the vapor processing system and each loading rack handling gasoline shall be inspected during the loading of gasoline tank trucks for organic liquid and organic vapor leaks. For the purpose of this condition, detection methods incorporating sight, sound and smell are acceptable. [40 CFR Part 60.502(j) and 40 CFR Part 63.11089(a)] Federally Enforceable Through Title V Permit
19. An operator or owner may apply for a written approval from the APCO to change the EPA Method 21 leak inspection frequency from quarterly to annually provided no leaks were found during five consecutive quarterly inspections. Upon identification of any leak during an annual inspection, the inspection frequency shall revert back to quarterly, and the operator shall contact the APCO in writing within 14 days. [District Rule 4624] Federally Enforceable Through Title V Permit
20. For monthly leak inspection, a log book shall be used and shall be signed by the owner or operator at the completion of each inspection. A section of the log book shall contain a list, summary description, or diagram(s) showing the location of all equipment in gasoline service at the facility. [40 CFR Part 63.11089(b) and 40 CFR Part 63.11094(d)] Federally Enforceable Through Title V Permit
21. Each calendar month, liquid drainage at disconnect of each loading arm shall be determined, and appropriate action shall be taken in case excess liquid drainage occurs from any loading arm. If no excess drainage conditions are found during five consecutive monthly inspections, the drainage inspection frequency may be changed from monthly to quarterly. However, if one or more excess drainage condition is found during a quarterly inspection, the inspection frequency shall return to monthly. [District Rule 2520] Federally Enforceable Through Title V Permit
22. Liquid drainage inspections shall be completed after midnight and before 10:00 AM the day of inspection. Compliance shall be demonstrated by collecting all drainage at disconnect in a spouted container. The drainage shall be transferred to a graduated cylinder and the volume determined within one minute of collection. [District Rule 2520] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

23. Loading of a delivery vessel shall discontinue if its pressure relief valve opens. Corrective action shall be taken should this condition occur. [District Rule 2520] Federally Enforceable Through Title V Permit
24. Documentation attesting to the vapor tightness of each truck loaded with gasoline shall be kept. The documentation file for each tank truck shall be updated at least once per year to reflect the current test results as determined by EPA method 27. [40 CFR Part 60.505(a) and (b), and 40 CFR Part 63.11094(b)] Federally Enforceable Through Title V Permit
25. The owner or operator shall maintain a log book that contains the following information: 1.) dates of leak inspections, 2.) the nature of the leak and the method of detection; 3.) findings, 4.) corrective action (date each leak is repaired), 5.) repair methods applied in each attempt to repair the leak; 6.) the reason for the delay if the leak is not repaired within 3 calendar days after discovery of the leak; 7.) the date of successful repair of the leak; and 8.) inspector name and signature. [District Rule 4624, 40 CFR Part 60.505(c), 40 CFR Part 63.11089(g), 40 CFR Part 11094(e), and 40 CFR Part 63.11095(a)(3)] Federally Enforceable Through Title V Permit
26. The owner or operator shall submit a semi-annual compliance report that includes each loading of a gasoline cargo tank for which vapor tightness documentation had not been previously obtained by the facility. [40 CFR Part 63.11088(f) and 40 CFR Part 63.11095(a)(2)] Federally Enforceable Through Title V Permit
27. The owner or operator shall keep records of the organic liquids throughput, in gallons from permit units N-829-1 and N-829-2. [District Rules 2201 and 4624] Federally Enforceable Through Title V Permit
28. The owner or operator shall keep records of the cumulative organic liquids throughput on a rolling 12-month basis, in gallons from permit units N-829-1 and N-829-2. The record shall be updated at least weekly. [District Rule2 2201 and 4624] Federally Enforceable Through Title V Permit
29. All records shall be maintained on site for a period of at least five years and shall be made available for District, ARB, or EPA inspection upon request. [District Rules 1070, 2201, 4624, and 40 CFR Part 60.505, and 40 CFR Part 63.11094(a)] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-829-5-5

EXPIRATION DATE: 11/30/2020

EQUIPMENT DESCRIPTION:

630,000 GALLON WELDED INTERNAL FLOATING ROOF STORAGE TANK (#1502) WITH A MINISHOE PRIMARY SEAL AND A VAPORFLEX SECONDARY SEAL

PERMIT UNIT REQUIREMENTS

1. The maximum throughput for this tank shall not exceed 15,000 barrels in any one day. [District Rule 2201]
2. The true vapor pressure (TVP) of the organic liquid stored in the tank shall be less than 11 psia at the actual storage temperature of the tank contents. [District Rules 2201 and 4623]
3. Gaps between the tank shell and the primary seal shall not exceed 1 1/2 inches. [District Rule 4623]
4. The cumulative length of all gaps between the tank shell and the primary seal greater than 1/2 inch shall not exceed 10% of the circumference of the tank. [District Rule 4623]
5. The cumulative length of all primary seal gaps greater than 1/8 inch shall not exceed 30% of the circumference of the tank. [District Rule 4623]
6. No continuous gap in the primary seal greater than 1/8 inch wide shall exceed 10% of the tank circumference. [District Rule 4623]
7. No gap between the tank shell and the secondary seal shall exceed 1/2 inch. [District Rule 4623]
8. The cumulative length of all gaps between the tank shell and the secondary seal, greater than 1/8 inch shall not exceed 5% of the tank circumference. [District Rule 4623]
9. The metallic shoe-type seal shall be installed so that one end of the shoe extends into the stored liquid and the other end extends a minimum vertical distance of 18 inches above the stored liquid surface. [District Rule 4623]
10. The geometry of the metallic-shoe type seal shall be such that the maximum gap between the shoe and the tank shell shall be no greater than 3 inches for a length of at least 18 inches in the vertical plane above the liquid. [District Rule 4623]
11. There shall be no holes, tears, or openings in the secondary seal or in the primary seal envelope that surrounds the annular vapor space enclosed by the roof edge, seal fabric, and secondary seal. [District Rule 4623]
12. The secondary seal shall allow easy insertion of probes of up to 1 1/2 inches in width in order to measure gaps in the primary seal. [District Rule 4623]
13. The secondary seal shall extend from the roof to the tank shell and shall not be attached to the primary seal. [District Rule 4623]
14. The internal floating roof shall float on the surface of the stored liquid at all times (i.e., off the roof leg supports) except during the initial fill until the roof is lifted off the leg supports and when the tank is completely emptied and subsequently refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible. Whenever the permittee intends to land the roof on its legs, the permittee shall notify the APCO in writing at least five calendar days prior to performing the work. The tank must be in compliance with this rule before it may land on its legs. [District Rule 4623, 40 CFR 60.112b(a)(1) and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

15. All openings in the roof used for sampling and gauging shall provide a projection below the liquid surface to prevent belching of liquid and to prevent entrained or formed organic vapor from escaping from the liquid contents of the tank and shall be equipped with a cover, seal or lid. The cover seal or lid shall be in a closed position, with no visible gaps and be leak-free, except when the device or appurtenance is in use for sampling or gauging. [District Rule 4623 and 40 CFR 60.112b(a)(1)]
16. A leak-free condition is defined as a condition without a gas leak or a liquid leak. A gas leak is defined as a reading in excess of 10,000 parts per million by volume (ppmv), as methane, above background on a portable hydrocarbon detection instrument that is calibrated with methane in accordance with the procedures specified in EPA Method 21. Liquid leak is defined as the dripping of organic liquid at a rate of more than 3 drops per minute. A reading in excess to 10,000 ppmv, as methane, above background, or dripping of organic liquid at a rate of more than 3 drops per minute, is a violation of this permit and Rule 4623 and shall be reported as a deviation. [District Rule 4623] Federally Enforceable Through Title V Permit
17. Each opening in a non-contact internal floating roof except for automatic bleeder vents (vacuum breaker vents) and rim space vents shall provide a projection below the liquid surface. [District Rule 4623, 40 CFR 60.112b(a)(1), and 40 CFR 63.11087(a)]
18. Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, combination manway/vacuum breakers, and stub drains shall be equipped with a cover, or a lid shall be maintained in a closed position at all times (i.e. no visible gaps) except when the device is in use. The cover or lid shall be equipped with a gasket. Covers on each access hatch and automatic gauge float well shall be bolted in place except when they are in use. [District Rule 4623 and 40 CFR 60.112b(a)(1)]
19. Automatic bleeder vents shall be equipped with a gasket and shall be closed at all times when the roof is floating except when the roof is being floated off or is being landed on the leg roof supports. [District Rule 4623 and 40 CFR 60.112b(a)(1)]
20. Rim vents shall be equipped with a gasket and shall be set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting. [District Rule 4623 and 40 CFR 60.112b(a)(1)]
21. Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The well shall have a slit fabric cover that covers at least 90% of the opening. The fabric cover must be impermeable. [District Rule 4623 and 40 CFR 60.112b(a)(1)]
22. 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. The fabric sleeve must be impermeable. [District Rule 4623 and 40 CFR 60.112b(a)(1)]
23. Each penetration of the internal floating roof that allows for the passage of a ladder shall have a gasketed sliding cover. [40 CFR 60.112b(a)(1)]
24. All slotted sampling or gauging wells, and similar fixed projections through the floating roof shall provide a projection below the liquid surface. [District Rule 4623] Federally Enforceable Through Title V Permit
25. The gap between the pole wiper and the slotted guidepole shall not exceed 1/8 inch. [District Rule 4623] Federally Enforceable Through Title V Permit
26. The permittee shall notify the District in writing at least 30 days prior to conduct the visual inspection of the storage vessel, so the District can arrange an observer. [40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
27. For newly constructed, repaired, or rebuilt internal floating roof tanks, the permittee shall visually inspect the internal floating roof and its appurtenant parts, fittings, etc., and measure the gaps of the primary seal and/or secondary seal prior to filling the tank. If there are holes, tears, or other openings in the primary seal, the secondary seal, or the seal fabric or defects in the internal floating roof or its appurtenant parts, components, fittings, etc., the operator shall repair the defects before filling the tank. [District Rule 4623 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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28. The owner or operator shall perform a monthly leak inspection of all equipment in gasoline service, as defined in section 63.11100. For this inspection, detection methods incorporating sight, sound, and smell are acceptable. [40 CFR Part 63.11089(a)] Federally Enforceable Through Title V Permit
29. For monthly leak inspection, a log book shall be used and shall be signed by the owner or operator at the completion of each inspection. A section of the log book shall contain a list, summary description, or diagram(s) showing the location of all equipment in gasoline service at the facility. [40 CFR Part 63.11089(b)] Federally Enforceable Through Title V Permit
30. Each detection of a liquid or vapor leak shall be recorded in the log book. When a leak is detected, an initial attempt at repair shall be made as soon as practicable, but no later than 5 calendar days after the leak is detected. Repair or replacement of leaking equipment shall be completed within 15 calendar days after detection of each leak. Delay of repair of leaking equipment will be allowed if the repair is not feasible within 15 days. The owner or operator shall provide in the semiannual report the reason(s) why the repair was not feasible and the date each repair was completed. [40 CFR Part 63.11089(d)] Federally Enforceable Through Title V Permit
31. The owner or operator shall maintain a log book that contain the following information for a leak during during monthly inspection: 1.) equipment type and identification number; 2.) the nature of the leak (i.e. vapor or liquid) and the method of detection (i.e. sight, sound, or smell); 3.) the date the leak was detected and the date of each attempt to repair the leak; 4.) repair methods applied in each attempt to repair the leak; 5.) repair delayed and the reason for the delay if the leak is not repaired within 15 calendar days after discovery of the leak; 6) the expected date of successful repair of the leak if the leak is not repaired within 15 days; and 7.) the date of successful repair of the leak. [40 CFR 63.11089(g)] Federally Enforceable Through Title V Permit
32. The permittee shall visually inspect, through the manholes, roof hatches, or other opening on the fixed roof, the internal floating roof and its appurtenant parts, fittings, etc., and the primary seal and/or secondary seal at least once every 12 months after the tank is initially filled with an organic liquid. There should be no visible organic liquid on the roof, tank walls, or anywhere. Other than the gap criteria specified by this rule, no holes, tears, or other openings are allowed that would permit the escape of vapors. Any defects found are violations of this rule. [District Rule 4623, 40 CFR 60.113b, and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
33. The permittee shall conduct actual gap measurements of the primary seal and/or secondary seal at least once every 60 months. [District Rule 4623]
34. If any failure (i.e. visible organic liquid on the internal floating roof, tank walls or anywhere, holes or tears in the seal fabric) is detected during 12 month visual inspection, the permittee shall repair the items or empty and remove the storage vessel from service within 45 days. If the detected failure cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the APCO in the inspection report. Such a request must document that alternate storage capacity is unavailable and specify a schedule of actions the company will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible. [40 CFR 60.113b and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
35. The permittee shall visually inspect the internal floating roof, the primary seal, the secondary seal, gaskets, slotted membranes and sleeve seals (if any) each time the vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10 percent open area, the owner or operator shall repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel. [40 CFR 60.113b and 40 CFR Part 63.11087(c)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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36. The permittee shall notify the District in writing at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by paragraphs (a)(1) and (a)(4) of 40 CFR 60.113b to afford the District the opportunity to have an observer present. If the inspection required by paragraph (a)(4) of 40 CFR 60.113b is not planned and the owner or operator could not have known about the inspection 30 days in advance or refilling the tank, the owner or operator shall notify the District at least 7 days prior to the refilling of the storage vessel. Notification shall be made by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, this notification including the written documentation may be made in writing and sent by express mail so that it is received by the Administrator at least 7 days prior to the refilling. [40 CFR 60.113b]
37. The owner or operator shall report the number of equipment leaks not repaired within 15 days after detection in a semi-annual report. [40 CFR 63.11089(g)] Federally Enforceable Through Title V Permit
38. All covers, seals and lids covering openings in the roof used for sampling and gauging shall be inspected annually by the facility operator to ensure compliance with the provisions of this permit. If one or more of the components are found to leak during an annual inspection, the inspection frequency for that component type shall be changed from annual to quarterly. If none of the components of that type are subsequently found to be leaking during five consecutive inspections, the inspection frequency may be changed from quarterly to annual. Components located in inaccessible (over 15 feet above ground when access is required from the ground or over 6 feet away from a platform when access is required from the platform) locations shall be inspected at least annually and components located in unsafe areas shall be inspected and repaired upon detection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
39. The operator shall determine the presence of gas leaks using portable hydrocarbon detection instrument in accordance with EPA Method 21. The instrument shall be calibrated before use each day of its use by the procedures specified in Method 21 using the following calibration gases: 1.) Zero air (less than 10 ppm of hydrocarbon in air); and 2.) A mixture of methane or n-hexane and air at a concentration of about, but less than, 10,000 ppm methane or n-hexane. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
40. The operator shall maintain an inspection log containing the following: 1.) Type of component leaking; 2.) Date of leak detection, and method of detection; 3.) Date and emission level of recheck after leak is repaired. Leaks over 10,000 ppmv shall be reported as a deviation. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
41. The permittee shall conduct actual gap measurements of the primary seal and/or secondary seal at least once every 60 months. Other than the gap criteria specified by this permit, no holes, tears, or other openings are allowed that would permit the escape of hydrocarbon vapors. Any defects found shall constitute a violation of this rule. [District Rule 4623 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
42. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid whenever there is a change in the source or type of organic liquid stored in this tank. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
43. As used in this permit, the term "source or type" shall mean liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids stored in this unit to determine which are from common source. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
44. The operator shall keep a record of liquids stored in each container, period of storage, and the maximum true vapor pressure of the liquid during the respective storage period. [District Rule 40 CFR 60.116b] Federally Enforceable Through Title V Permit
45. Permittee shall keep a record of the daily quantity of organic liquid loaded into the tank, in barrels. [District Rule 2201]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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46. The permittee shall determine the maximum true vapor pressure of the stored organic liquid on a monthly basis, using the calculation methodology listed in Appendix B of District Rule 4623. The permittee shall keep a record of all Reid vapor pressure measurements for the stored organic liquid and shall use the highest recorded Reid vapor pressure of the month when determining the maximum true vapor pressure. The permittee shall keep a record of the actual storage temperature of the organic storage tank and shall use the highest temperature recorded of the month when determining the maximum true vapor pressure. [District Rule 4623 and 40 CFR 60.116b] Federally Enforceable Through Title V Permit
47. The permittee shall submit the reports of the floating roof tank inspections to the APCO within five calendar days after the completion of the inspection only for those tanks that failed to meet the applicable requirements of Rule 4623, Sections 5.2 through 5.5. The inspection report for tanks that have been determined to be in compliance with the requirements of Sections 5.2 through 5.5 need not be submitted to the APCO, but the inspection report shall be kept on-site and made available upon request by the APCO. The inspection report shall contain all necessary information to demonstrate compliance with the provisions of this rule, including the following: 1.) Date of inspection and names and titles of company personnel doing the inspection; 2.) Tank identification number and Permit to Operate number; 3.) Measurements of the gaps between the tank shell and primary and secondary seals; 4.) Leak-free status of the tank and floating roof deck fittings. Records of the leak-free status shall include the vapor concentration values measured in ppmv. 5.) Data, supported by calculations, demonstrating compliance with the requirements specified in Sections 5.3, 5.4, 5.5.2.3.3, 5.5.2.4.2, and 5.5.2.4.3 of Rule 4623. 6.) Any corrective actions or repairs performed on the tank in order to comply with Rule 4623 and the date(s) such actions were taken. [District Rule 4623 and 40 CFR 63.11087(e)] Federally Enforceable Through Title V Permit
48. The permittee shall maintain the records of the internal floating roof landing activities that are performed pursuant to Rule 4623, Sections 5.3.1.3 and 5.4.3. The records shall include information on the true vapor pressure (TVP), API gravity, storage temperature, type of organic liquid stored in the tank, the purpose of landing the roof on its legs, the date of roof landing, duration the roof was on its legs, the level or height at which the tank roof was set to land on its legs, and the lowest liquid level in the tank. [District Rule 4623] Federally Enforceable Through Title V Permit
49. The following test methods shall be used: ASTM Method D287 for determining API Gravity, ASTM Method D4057 sampling for API Gravity testing; ASTM D323 for determining RVP, and converting RVP to TVP at the tank's maximum organic liquid storage temperature; ARB Method 422 for determining exempt halogenated VOCs in gases; EPA Method 21 for measuring gas-leak concentration. Should the owner or operator wish to use test methods other than the ones mentioned in this condition, the methods must be approved by the District prior to its use. [District Rule 4623] Federally Enforceable Through Title V Permit
50. The operator shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rules 4623 and 2520] Federally Enforceable Through Title V Permit

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-829-6-8

EXPIRATION DATE: 11/30/2020

EQUIPMENT DESCRIPTION:

630,000 GALLON WELDED INTERNAL FLOATING ROOF STORAGE TANK (#1501) WITH A HMT FOAM LOG PRIMARY SEAL AND A HMT VAPOR FLEX SECONDARY SEAL AND A SLOTTED GUIDEPOLE

PERMIT UNIT REQUIREMENTS

1. True vapor pressure of the organic liquid stored shall be less than 11 psia. [District Rule 4623, 5.1.1] Federally Enforceable Through Title V Permit
2. The internal floating roof shall float on the surface of the stored liquid at all times (i.e., off the roof leg supports) except during the initial fill until the roof is lifted off the leg supports and when the tank is completely emptied and subsequently refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible. Whenever the permittee intends to land the roof on its legs, the permittee shall notify the APCO in writing at least five calendar days prior to performing the work. The tank must be in compliance with this rule before it may land on its legs. [District Rule 4623, 5.3.1.3 and 5.4.3 and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
3. VOC emissions shall not exceed 5.6 pounds in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The organic liquid throughput shall not exceed 30,240,000 gallons in any one calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The primary resilient toroid seal shall be mounted on the perimeter of the roof such that it is in contact with the tank's liquid contents at all times while the roof is floating. [District Rule 4623, 5.3.2.3.1 and 5.4.1] Federally Enforceable Through Title V Permit
6. No gap between the tank shell and the primary seal shall exceed 1/2 inch. [District Rule 4623, 5.3.2.3.2 and 5.4.1] Federally Enforceable Through Title V Permit
7. The cumulative length of all primary seal gaps greater than 1/8 inch shall not exceed 5% of the tank circumference. [District Rule 4623, 5.3.2.3.2 and 5.4.1] Federally Enforceable Through Title V Permit
8. No continuous gap in the primary seal greater than 1/8 inch wide shall exceed 10% of the tank circumference. [District Rule 4623, 5.3.2.3.2 and 5.4.1] Federally Enforceable Through Title V Permit
9. No gap between the tank shell and the secondary seal shall exceed 1/2 inch. [District Rule 4623, 5.3.2.3.3 and 5.4.1] Federally Enforceable Through Title V Permit
10. The cumulative length of all gaps between the tank shell and the secondary seal, greater than 1/8 inch shall not exceed 5% of the tank circumference. [District Rule 4623, 5.3.2.3.3 and 5.4.1] Federally Enforceable Through Title V Permit
11. There shall be no holes, tears, or openings in the secondary seal or in the primary seal envelope that surrounds the annular vapor space enclosed by the roof edge, seal fabric, and secondary seal. [District Rule 4623, 5.3.2.3.4 and 5.4.1] Federally Enforceable Through Title V Permit
12. The secondary seal shall allow easy insertion of probes up to 1/2 inch in width in order to measure gaps in the primary seal. [District Rule 4623, 5.3.2.3.5 and 5.4.1] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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13. The secondary seal shall extend from the roof to the tank shell and shall not be attached to the primary seal. [District Rule 4623, 5.3.2.3.6 and 5.4.1] Federally Enforceable Through Title V Permit
14. All slotted sampling or gauging wells, and similar fixed projections through the floating roof shall provide a projection below the liquid surface. [District Rule 4623, 5.5.2.4.1] Federally Enforceable Through Title V Permit
15. The gap between the pole wiper and the slotted guidepole shall not exceed 1/8 inch. [District Rule 4623, 5.5.2.4.3] Federally Enforceable Through Title V Permit
16. All openings in the roof used for sampling and gauging shall provide a projection below the liquid surface to prevent belching of liquid and to prevent entrained or formed organic vapor from escaping from the liquid contents of the tank and shall be equipped with a cover, seal or lid that shall be in a closed position at all times, with no visible gaps and be leak-free, except when the device or appurtenance is in use for sampling or gauging. [District Rule 4623, 5.5.1] Federally Enforceable Through Title V Permit
17. A leak-free condition is defined as a condition without a gas leak or a liquid leak. A gas leak is defined as a reading in excess of 10,000 parts per million by volume (ppmv), as methane, above background on a portable hydrocarbon detection instrument that is calibrated with methane in accordance with the procedures specified in EPA Method 21. Liquid leak is defined as the dripping of organic liquid at a rate of more than 3 drops per minute. A reading in excess to 10,000 ppmv, as methane, above background, or dripping of organic liquid at a rate of more than 3 drops per minute, is a violation of this permit and Rule 4623 and shall be reported as a deviation. [District Rule 4623, 3.11, 3.17, 3.18 and 6.4.8] Federally Enforceable Through Title V Permit
18. Each opening in a non-contact internal floating roof, except for automatic bleeder vents (vacuum breaker vents) and rim space vents, shall provide a projection below the liquid surface. [District Rule 4623, 5.5.2.1.1 and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
19. Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, combination manway/vacuum breakers, 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. [District Rule 4623, 5.5.2.1.2] Federally Enforceable Through Title V Permit
20. Automatic bleeder vents shall be equipped with a gasket and shall 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. [District Rule 4623, 5.5.2.1.3] Federally Enforceable Through Title V Permit
21. Rim 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. [District Rule 4623, 5.5.2.1.4] Federally Enforceable Through Title V Permit
22. Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The well shall have a slit fabric cover that covers at least 90% of the opening. The fabric cover must be impermeable. [District Rule 4623, 5.5.2.1.5] Federally Enforceable Through Title V Permit
23. Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover. The fabric sleeve must be impermeable. [District Rule 4623, 5.5.2.1.6] Federally Enforceable Through Title V Permit
24. The permittee shall notify the District in writing at least 30 days prior to conduct the visual inspection of the storage vessel, so the District can arrange an observer. [40 CFR 60.11087(c)] Federally Enforceable Through Title V Permit
25. For newly constructed, repair, or rebuilt internal floating roof tanks, the permittee shall visually inspect the internal floating roof, and its appurtenant parts, fittings, etc. and measure the gaps of the primary seal and/or secondary seal prior to filling the tank. If holes, tears, or openings in the primary seal, the secondary seal, the seal fabric or defects in the internal floating roof or its appurtenant parts, components, fittings, etc., are found, they shall be repaired prior to filling the tank. [District Rule 4623, 6.1.4.1 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit

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26. The owner or operator shall perform a monthly leak inspection of all equipment in gasoline service, as defined in section 63.11100. For this inspection, detection methods incorporating sight, sound, and smell are acceptable. [40 CFR Part 63.11089(a)] Federally Enforceable Through Title V Permit
27. For monthly leak inspection, a log book shall be used and shall be signed by the owner or operator at the completion of each inspection. A section of the log book shall contain a list, summary description, or diagram(s) showing the location of all equipment in gasoline service at the facility. [40 CFR Part 63.11089(b)] Federally Enforceable Through Title V Permit
28. Each detection of a liquid or vapor leak shall be recorded in the log book. When a leak is detected, an initial attempt at repair shall be made as soon as practicable, but no later than 5 calendar days after the leak is detected. Repair or replacement of leaking equipment shall be completed within 15 calendar days after detection of each leak. Delay of repair of leaking equipment will be allowed if the repair is not feasible within 15 days. The owner or operator shall provide in the semiannual report the reason(s) why the repair was not feasible and the date each repair was completed. [40 CFR Part 63.11089(d)] Federally Enforceable Through Title V Permit
29. The owner or operator shall maintain a log book that contain the following information for a leak during during monthly inspection: 1.) equipment type and identification number; 2.) the nature of the leak (i.e. vapor or liquid) and the method of detection (i.e. sight, sound, or smell); 3.) the date the leak was detected and the date of each attempt to repair the leak; 4.) repair methods applied in each attempt to repair the leak; 5.) repair delayed and the reason for the delay if the leak is not repaired within 15 calendar days after discovery of the leak; 6) the expected date of successful repair of the leak if the leak is not repaired within 15 days; and 7.) the date of successful repair of the leak. [40 CFR 63.11089(g)] Federally Enforceable Through Title V Permit
30. The permittee shall visually inspect, through the manholes, roof hatches, or other opening on the fixed roof, the internal floating roof and its appurtenant parts, fittings, etc., and the primary seal and/or secondary seal at least once every 12 months after the tank is initially filled with an organic liquid. There should be no visible organic liquid on the roof, tank walls, or anywhere. Other than the gap criteria specified by this rule, no holes, tears, or other openings are allowed that would permit the escape of vapors. Any defects found are violations of this rule. [District Rule 4623, 6.1.4.2 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
31. If any failure (i.e. visible organic liquid on the internal floating roof, tank walls or anywhere, holes or tears in the seal fabric) is detected during 12 month visual inspection, the permittee shall repair the items or empty and remove the storage vessel from service within 45 days. If the detected failure cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the APCO in the inspection report. Such a request must document that alternate storage capacity is unavailable and specify a schedule of actions the company will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible. [40 CFR 60.11087(c)] Federally Enforceable Through Title V Permit
32. The permittee shall visually inspect the internal floating roof, the primary seal, the secondary seal, gaskets, slotted memberanes and sleeve seals (if any) each time the vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10 percent open area, the owner or operator shall repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel. [40 CFR Part 63.11087(c)] Federally Enforceable Through Title V Permit
33. The owner or operator shall report the number of equipment leaks not repaired within 15 days after detection in a semi-annual report. [40 CFR 63.11089(g)] Federally Enforceable Through Title V Permit

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34. All covers, seals and lids covering openings in the roof used for sampling and gauging shall be inspected annually by the facility operator to ensure compliance with the provisions of this permit. If one or more of the components are found to leak during an annual inspection, the inspection frequency for that component type shall be changed from annual to quarterly. If none of the components of that type are subsequently found to be leaking during five consecutive inspections, the inspection frequency may be changed from quarterly to annual. Components located in inaccessible (over 15 feet above ground when access is required from the ground or over 6 feet away from a platform when access is required from the platform) locations shall be inspected at least annually and components located in unsafe areas shall be inspected and repaired upon detection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
35. The operator shall determine the presence of gas leaks using portable hydrocarbon detection instrument in accordance with EPA Method 21. The instrument shall be calibrated before use each day of its use by the procedures specified in Method 21 using the following calibration gases: 1.) Zero air (less than 10 ppm of hydrocarbon in air); and 2.) A mixture of methane or n-hexane and air at a concentration of about, but less than, 10,000 ppm methane or n-hexane. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
36. The operator shall maintain an inspection log containing the following: 1.) Type of component leaking; 2.) Date of leak detection, and method of detection; 3.) Date and emission level of recheck after leak is repaired. Leaks over 10,000 ppmv shall be reported as a deviation. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
37. The permittee shall conduct actual gap measurements of the primary seal and/or secondary seal at least once every 60 months. Other than the gap criteria specified by this permit, no holes, tears, or other openings are allowed that would permit the escape of hydrocarbon vapors. Any defects found shall constitute a violation of this rule. [District Rule 4623, 6.1.4.3 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
38. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid whenever there is a change in the source or type of organic liquid stored in this tank. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
39. As used in this permit, the term "source or type" shall mean liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids stored in this unit to determine which are from common source. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
40. The operator shall keep a record of liquids stored in each container, period of storage, and the maximum true vapor pressure of the liquid during the respective storage period. [40 CFR 60.113(a)] Federally Enforceable Through Title V Permit
41. The permittee shall determine the maximum true vapor pressure of the stored organic liquid on a monthly basis, using the calculation methodology listed in Appendix B of District Rule 4623. The permittee shall keep a record of all reid vapor pressure measurements for the stored organic liquid and shall use the highest recorded reid vapor pressure of the month when determining the maximum true vapor pressure. The permittee shall keep a record of the actual storage temperature of the organic storage tank and shall use the highest temperature recorded of the month when determining the maximum true vapor pressure. [District Rule 4623 and 40 CFR 60.113(b)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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42. The permittee shall submit the reports of the floating roof tank inspections to the APCO within five calendar days after the completion of the inspection only for those tanks that failed to meet the applicable requirements of Rule 4623, Sections 5.2 through 5.5. The inspection report for tanks that have been determined to be in compliance with the requirements of Sections 5.2 through 5.5 need not be submitted to the APCO, but the inspection report shall be kept on-site and made available upon request by the APCO. The inspection report shall contain all necessary information to demonstrate compliance with the provisions of this rule, including the following: 1.) Date of inspection and names and titles of company personnel doing the inspection; 2.) Tank identification number and Permit to Operate number; 3.) Measurements of the gaps between the tank shell and primary and secondary seals; 4.) Leak-free status of the tank and floating roof deck fittings. Records of the leak-free status shall include the vapor concentration values measured in ppmv. 5.) Data, supported by calculations, demonstrating compliance with the requirements specified in Sections 5.3, 5.4, 5.5.2.3.3, 5.5.2.4.2, and 5.5.2.4.3 of Rule 4623. 6.) Any corrective actions or repairs performed on the tank in order to comply with Rule 4623 and the date(s) such actions were taken. [District Rule 4623, 6.3.5 and 40 CFR 63.11087(e)] Federally Enforceable Through Title V Permit
43. The permittee shall maintain the records of the internal floating roof landing activities that are performed pursuant to Rule 4623, Sections 5.3.1.3 and 5.4.3. The records shall include information on the true vapor pressure (TVP), API gravity, storage temperature, type of organic liquid stored in the tank, the purpose of landing the roof on its legs, the date of roof landing, duration the roof was on its legs, the level or height at which the tank roof was set to land on its legs, and the lowest liquid level in the tank. [District Rule 4623, 6.3.7] Federally Enforceable Through Title V Permit
44. The following test methods shall be used: ASTM Method D287 for determining API Gravity, ASTM Method D4057 sampling for API Gravity testing; ASTM D323 for determining RVP, and converting RVP to TVP at the tank's maximum organic liquid storage temperature; ARB Method 422 for determining exempt halogenated VOCs in gases; EPA Method 21 for measuring gas-leak concentration. Should the owner or operator wish to use test methods other than the ones mentioned in this condition, the methods must be approved by the District prior to its use. [District Rule 4623, 6.4] Federally Enforceable Through Title V Permit
45. Records of the cumulative annual organic liquid throughput shall be maintained and updated monthly. [District Rule 2201] Federally Enforceable Through Title V Permit
46. The permittee shall maintain records sufficient to demonstrate compliance with the daily VOC emission limit. These records shall contain the calculated emission quantity as well as each process variable used in the respective calculations/modeling. [District Rule 2080] Federally Enforceable Through Title V Permit
47. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623, 6.3] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-829-16-10

EXPIRATION DATE: 11/30/2020

EQUIPMENT DESCRIPTION:

1,386,000 GALLON INTERNAL FLOATING ROOF MECHANICALLY FASTENED DECK AND WELDED STORAGE TANK (#3301) WITH A MECHANICAL SHOE PRIMARY SEAL AND A WIPER SECONDARY SEAL

PERMIT UNIT REQUIREMENTS

1. True vapor pressure (TVP) of the organic liquid stored shall be less than 11 psia. [District Rule 4623, 5.1.1] Federally Enforceable Through Title V Permit
2. VOC emissions shall not exceed 9.1 pounds in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The organic liquid throughput shall not exceed 33,264,000 gallons during any one rolling 12-month period. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The tank shall be equipped with a fixed roof with an internal floating type cover equipped with a continuous closure device between the tank wall and the cover edge. [40 CFR 60.112a(2) and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
5. The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel that has a fixed roof. The internal roof shall be floating on the liquid surface except during initial fill and when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible. Whenever the permittee intends to land the roof on it's legs, the permittee shall notify the APCO in writing at least five days prior to performing the work. [District Rule 4623, 5.4.1 and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
6. Gaps between the tank shell and the primary seal shall not exceed 1 1/2 inches. [District Rule 4623, 5.3.2.1.1 and 5.4.1] Federally Enforceable Through Title V Permit
7. The cumulative length of all gaps between the tank shell and the primary seal greater than 1/2 inch shall not exceed 10% of the circumference of the tank. [District Rule 4623, 5.3.2.1.1 and 5.4.1] Federally Enforceable Through Title V Permit
8. The cumulative length of all primary seal gaps greater than 1/8 inch shall not exceed 30% of the circumference of the tank. [District Rule 4623, 5.3.2.1.1 and 5.4.1] Federally Enforceable Through Title V Permit
9. No continuous gap in the primary seal greater than 1/8 inch wide shall exceed 10% of the tank circumference. [District Rule 4623, 5.3.2.1.1 and 5.4.1] Federally Enforceable Through Title V Permit
10. No gap between the tank shell and the secondary seal shall exceed 1/2 inch. [District Rule 4623, 5.3.2.1.2 and 5.4.1] Federally Enforceable Through Title V Permit
11. The cumulative length of all gaps between the tank shell and the secondary seal, greater than 1/8 inch shall not exceed 5% of the tank circumference. [District Rule 4623, 5.3.2.1.2 and 5.4.1] Federally Enforceable Through Title V Permit
12. The metallic shoe-type seal shall be installed so that one end of the shoe extends into the stored liquid and the other end extends a minimum vertical distance of 18 inches above the stored liquid surface. [District Rule 4623, 5.3.2.1.3 and 5.4.1] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

13. The geometry of the metallic-shoe type seal shall be such that the maximum gap between the shoe and the tank shell shall be no greater than 3 inches for a length of at least 18 inches in the vertical plane above the liquid. [District Rule 4623, 5.3.2.1.4 and 5.4.1] Federally Enforceable Through Title V Permit
14. There shall be no holes, tears, or openings in the secondary seal or in the primary seal envelope that surrounds the annular vapor space enclosed by the roof edge, seal fabric, and secondary seal. [District Rule 4623, 5.3.2.1.5 and 5.4.1] Federally Enforceable Through Title V Permit
15. The secondary seal shall allow easy insertion of probes of up to 1 1/2 inches in width in order to measure gaps in the primary seal. [District Rule 4623, 5.3.2.1.6 and 5.4.1] Federally Enforceable Through Title V Permit
16. The secondary seal shall extend from the roof to the tank shell and shall not be attached to the primary seal. [District Rule 4623, 5.3.2.1.7 and 5.4.1] Federally Enforceable Through Title V Permit
17. All openings in the roof used for sampling and gauging shall provide a projection below the liquid surface to prevent belching of liquid and to prevent entrained or formed organic vapor from escaping from the liquid contents of the tank and shall be equipped with a cover, seal or lid that shall be in a closed position at all times, with no visible gaps and be leak free, except when the device or appurtenance is in use for sampling and gauging. [District Rule 5.5.2.1.2] Federally Enforceable Through Title V Permit
18. A leak-free condition is defined as a condition without a gas leak or a liquid leak. A gas leak is defined as a reading in excess of 10,000 parts per million by volume (ppmv), as methane, above background on a portable hydrocarbon detection instrument that is calibrated with methane in accordance with the procedures specified in EPA Method 21. Liquid leak is defined as the dripping of organic liquid at a rate of more than 3 drops per minute. A reading in excess to 10,000 ppmv, as methane, above background, or dripping of organic liquid at a rate of more than 3 drops per minute, is a violation of this permit and Rule 4623 and shall be reported as a deviation. [District Rule 4623, 3.11, 3.17, 3.18 and 6.4.8] Federally Enforceable Through Title V Permit
19. Each opening in a non-contact internal floating roof, except for automatic bleeder vents (vacuum breaker vents) and rim space vents, shall provide a projection below the liquid surface. [District Rule 4623, 5.5.2.1.1 and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
20. Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, combination manway/vacuum breakers, 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. [District Rule 4623, 5.5.2.1.2] Federally Enforceable Through Title V Permit
21. Automatic bleeder vents shall be equipped with a gasket and shall 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. [District Rule 4623, 5.5.2.1.3] Federally Enforceable Through Title V Permit
22. Rim 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. [District Rule 4623, 5.5.2.1.4] Federally Enforceable Through Title V Permit
23. Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover. The fabric sleeve must be impermeable. [District Rule 4623, 5.5.2.1.6] Federally Enforceable Through Title V Permit
24. Slotted sampling or gauging wells shall meet the following requirements: 1) The well shall provide a projection below the liquid surface; 2) The well shall be equipped with the following: a sliding cover, a well gasket, a pole sleeve, a pole wiper, and an internal float and float wiper designed to minimize the gap between the float and the well, and provided the gap shall not exceed one-eighth (1/8) inch; or shall be equipped with a well gasket, a zero gap pole wiper seal and a pole sleeve that projects below the liquid surface; and 3) The gap between the pole wiper and the guidepole shall be added to the gaps measured to determine compliance with the secondary seal requirement, and in no case shall exceed one-eighth (1/8) inch. [District Rule 4623, 5.5.2.4] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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25. The permittee shall notify the District in writing at least 30 days prior to conduct the visual inspection of the storage vessel, so the District can arrange an observer. [40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
26. For newly constructed, repaired, or rebuilt internal floating roof tanks, the permittee shall visually inspect the internal floating roof, and its appurtenant parts, fittings, etc. and measure the gaps of the primary seal and/or secondary seal prior to filling the tank. If holes, tears, or openings in the primary seal, the secondary seal, the seal fabric or defects in the internal floating roof or its appurtenant parts, components, fittings, etc., are found, they shall be repaired prior to filling the tank. [District Rule 4623, 6.1.4.1 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
27. The owner or operator shall perform a monthly leak inspection of all equipment in gasoline service, as defined in section 63.11100. For this inspection, detection methods incorporating sight, sound, and smell are acceptable. [40 CFR Part 63.11089(a)] Federally Enforceable Through Title V Permit
28. For monthly leak inspection, a log book shall be used and shall be signed by the owner or operator at the completion of each inspection. A section of the log book shall contain a list, summary description, or diagram(s) showing the location of all equipment in gasoline service at the facility. [40 CFR Part 63.11089(b)] Federally Enforceable Through Title V Permit
29. Each detection of a liquid or vapor leak shall be recorded in the log book. When a leak is detected, an initial attempt at repair shall be made as soon as practicable, but no later than 5 calendar days after the leak is detected. Repair or replacement of leaking equipment shall be completed within 15 calendar days after detection of each leak. Delay of repair of leaking equipment will be allowed if the repair is not feasible within 15 days. The owner or operator shall provide in the semiannual report the reason(s) why the repair was not feasible and the date each repair was completed. [40 CFR Part 63.11089(d)] Federally Enforceable Through Title V Permit
30. The owner or operator shall maintain a log book that contain the following information for a leak during during monthly inspection: 1.) equipment type and identification number; 2.) the nature of the leak (i.e. vapor or liquid) and the method of detection (i.e. sight, sound, or smell); 3.) the date the leak was detected and the date of each attempt to repair the leak; 4.) repair methods applied in each attempt to repair the leak; 5.) repair delayed and the reason for the delay if the leak is not repaired within 15 calendar days after discovery of the leak; 6) the expected date of successful repair of the leak if the leak is not repaired within 15 days; and 7.) the date of successful repair of the leak. [40 CFR 63.11089(g)] Federally Enforceable Through Title V Permit
31. The permittee shall visually inspect, through the manholes, roof hatches, or other opening on the fixed roof, the internal floating roof and its appurtenant parts, fittings, etc., and the primary seal and/or secondary seal at least once every 12 months after the tank is initially filled with an organic liquid. There should be no visible organic liquid on the roof, tank walls, or anywhere. Other than the gap criteria specified by this rule, no holes, tears, or other openings are allowed that would permit the escape of vapors. Any defects found are violations of this rule. [District Rule 4623, 6.1.4.2 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
32. If any failure (i.e. visible organic liquid on the internal floating roof, tank walls or anywhere, holes or tears in the seal fabric) is detected during 12 month visual inspection, the permittee shall repair the items or empty and remove the storage vessel from service within 45 days. If the detected failure cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the APCO in the inspection report. Such a request must document that alternate storage capacity is unavailable and specify a schedule of actions the company will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible. [40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
33. The permittee shall visually inspect the internal floating roof, the primary seal, the secondary seal, gaskets, slotted membranes and sleeve seals (if any) each time the vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10 percent open area, the owner or operator shall repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel. [40 CFR Part 63.11087(c)] Federally Enforceable Through Title V Permit
34. The owner or operator shall report the number of equipment leaks not repaired within 15 days after detection in a semi-annual report. [40 CFR 63.11089(g)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

35. All covers, seals and lids covering openings in the roof used for sampling and gauging shall be inspected annually by the facility operator to ensure compliance with the provisions of this permit. If one or more of the components are found to leak during an annual inspection, the inspection frequency for that component type shall be changed from annual to quarterly. If none of the components of that type are subsequently found to be leaking during five consecutive inspections, the inspection frequency may be changed from quarterly to annual. Components located in inaccessible (over 15 feet above ground when access is required from the ground or over 6 feet away from a platform when access is required from the platform) locations shall be inspected at least annually and components located in unsafe areas shall be inspected and repaired upon detection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
36. The operator shall determine the presence of gas leaks using portable hydrocarbon detection instrument in accordance with EPA Method 21. The instrument shall be calibrated before use each day of its use by the procedures specified in Method 21 using the following calibration gases: 1.) Zero air (less than 10 ppm of hydrocarbon in air); and 2.) A mixture of methane or n-hexane and air at a concentration of about, but less than, 10,000 ppm methane or n-hexane. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
37. The operator shall maintain an inspection log containing the following: 1.) Type of component leaking; 2.) Date of leak detection, and method of detection; 3.) Date and emission level of recheck after leak is repaired. Leaks over 10,000 ppmv shall be reported as a deviation. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
38. The permittee shall conduct actual gap measurements of the primary seal and/or secondary seal at least once every 60 months. Other than the gap criteria specified by this permit, no holes, tears, or other openings are allowed that would permit the escape of hydrocarbon vapors. Any defects found shall constitute a violation of this rule. [District Rule 4623, 6.1.4.3 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
39. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid whenever there is a change in the source or type of organic liquid stored in this tank. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
40. The permittee shall determine the maximum true vapor pressure of the stored organic liquid on a monthly basis, using the calculation methodology listed in Appendix B of District Rule 4623. The permittee shall keep a record of all Reid vapor pressure measurements for the stored organic liquid and shall use the highest recorded Reid vapor pressure of the month when determining the maximum true vapor pressure. The permittee shall keep a record of the actual storage temperature of the organic storage tank and shall use the highest temperature recorded of the month when determining the maximum true vapor pressure. [District Rule 4623] Federally Enforceable Through Title V Permit
41. As used in this permit, the term "source or type" shall mean liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids stored in this unit to determine which are from common source. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
42. The permittee shall submit the reports of the floating roof tank inspections to the APCO within five calendar days after the completion of the inspection only for those tanks that failed to meet the applicable requirements of Rule 4623, Sections 5.2 through 5.5. The inspection report for tanks that have been determined to be in compliance with the requirements of Sections 5.2 through 5.5 need not be submitted to the APCO, but the inspection report shall be kept on-site and made available upon request by the APCO. The inspection report shall contain all necessary information to demonstrate compliance with the provisions of this rule, including the following: 1.) Date of inspection and names and titles of company personnel doing the inspection; 2.) Tank identification number and Permit to Operate number; 3.) Measurements of the gaps between the tank shell and primary and secondary seals; 4.) Leak-free status of the tank and floating roof deck fittings. Records of the leak-free status shall include the vapor concentration values measured in ppmv. 5.) Data, supported by calculations, demonstrating compliance with the requirements specified in Sections 5.3, 5.4, 5.5.2.3.3, 5.5.2.4.2, and 5.5.2.4.3 of Rule 4623. 6.) Any corrective actions or repairs performed on the tank in order to comply with Rule 4623 and the date(s) such actions were taken. [District Rule 4623, 6.3.5 and 40 CFR 63.11087(e)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

43. The permittee shall maintain the records of the internal floating roof landing activities that are performed pursuant to Rule 4623, Sections 5.3.1.3 and 5.4.3. The records shall include information on the true vapor pressure (TVP), API gravity, storage temperature, type of organic liquid stored in the tank, the purpose of landing the roof on its legs, the date of roof landing, duration the roof was on its legs, the level or height at which the tank roof was set to land on its legs, and the lowest liquid level in the tank. [District Rule 4623, 6.3.7] Federally Enforceable Through Title V Permit
44. The following test methods shall be used: ASTM Method D287 for determining API Gravity, ASTM Method D4057 sampling for API Gravity testing; ASTM D323 for determining RVP, and converting RVP to TVP at the tank's maximum organic liquid storage temperature; ARB Method 422 for determining exempt halogenated VOCs in gases; EPA Method 21 for measuring gas-leak concentration. Should the owner or operator wish to use test methods other than the ones mentioned in this condition, the methods must be approved by the District prior to its use. [District Rule 4623,6.4] Federally Enforceable Through Title V Permit
45. On a monthly basis, the permittee shall calculate and record organic liquid throughput, in gallons, for the previous 12-consecutive months. [District Rule 2201] Federally Enforceable Through Title V Permit
46. The permittee shall maintain records sufficient to demonstrate compliance with the daily VOC emission limit. These records shall contain the calculated emission quantity as well as each process variable used in the respective calculations/modeling. [District Rules 2080 and 2201] Federally Enforceable Through Title V Permit
47. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623, 6.3] Federally Enforceable Through Title V Permit

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-829-17-9

EXPIRATION DATE: 11/30/2020

EQUIPMENT DESCRIPTION:

1,008,000 GALLON WELDED INTERNAL FLOATING ROOF STORAGE TANK (#2401) WITH A MECHANICAL SHOE PRIMARY SEAL AND A WIPER SECONDARY SEAL, AND A SLOTTED GUIDE POLE WITH INTERNAL FLOAT AND POLE SLEEVE

PERMIT UNIT REQUIREMENTS

1. True vapor pressure (TVP) of the organic liquid stored shall be less than 11 psia. [District Rule 4623] Federally Enforceable Through Title V Permit
2. VOC emissions shall not exceed 19.9 pounds in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The organic liquid throughput shall not exceed 24,192,000 gallons in any one calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The tank shall be equipped with a fixed roof with an internal floating type cover equipped with a continuous closure device between the tank wall and the cover edge. [40 CFR 60.112a(2) and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
5. The slotted guide pole shall be equipped with a float, a sleeve and a wiper and the pole shall have no openings above the tank's roof; all slots between the floating roof deck and liquid surface shall be covered by the vapor tight sleeve. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel that has a fixed roof. The internal roof shall be floating on the liquid surface except during initial fill and when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible. Whenever the permittee intends to land the roof on it's legs, the permittee shall notify the APCO in writing at least five days prior to performing the work. [District Rule 4623 and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
7. Gaps between the tank shell and the primary seal shall not exceed 1 1/2 inches. [District Rule 4623] Federally Enforceable Through Title V Permit
8. The cumulative length of all gaps between the tank shell and the primary seal greater than 1/2 inch shall not exceed 10% of the circumference of the tank. [District Rule 4623] Federally Enforceable Through Title V Permit
9. The cumulative length of all primary seal gaps greater than 1/8 inch shall not exceed 30% of the circumference of the tank. [District Rule 4623] Federally Enforceable Through Title V Permit
10. No continuous gap in the primary seal greater than 1/8 inch wide shall exceed 10% of the tank circumference. [District Rule 4623] Federally Enforceable Through Title V Permit
11. No gap between the tank shell and the secondary seal shall exceed 1/2 inch. [District Rule 4623] Federally Enforceable Through Title V Permit
12. The cumulative length of all gaps between the tank shell and the secondary seal, greater than 1/8 inch shall not exceed 5% of the tank circumference. [District Rule 4623] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

13. The metallic shoe-type seal shall be installed so that one end of the shoe extends into the stored liquid and the other end extends a minimum vertical distance of 18 inches above the stored liquid surface. [District Rule 4623] Federally Enforceable Through Title V Permit
14. The geometry of the metallic-shoe type seal shall be such that the maximum gap between the shoe and the tank shell shall be no greater than 3 inches for a length of at least 18 inches in the vertical plane above the liquid. [District Rule 4623] Federally Enforceable Through Title V Permit
15. There shall be no holes, tears, or openings in the secondary seal or in the primary seal envelope that surrounds the annular vapor space enclosed by the roof edge, seal fabric, and secondary seal. [District Rule 4623] Federally Enforceable Through Title V Permit
16. The secondary seal shall allow easy insertion of probes of up to 1 1/2 inches in width in order to measure gaps in the primary seal. [District Rule 4623] Federally Enforceable Through Title V Permit
17. The secondary seal shall extend from the roof to the tank shell and shall not be attached to the primary seal. [District Rule 4623] Federally Enforceable Through Title V Permit
18. All openings in the roof used for sampling and gauging shall provide a projection below the liquid surface to prevent belching of liquid and to prevent entrained or formed organic vapor from escaping from the liquid contents of the tank and shall be equipped with a cover, seal or lid that shall be in a closed position at all times, with no visible gaps and be leak free, except when the device or appurtenance is in use for sampling and gauging. [District Rule 4623] Federally Enforceable Through Title V Permit
19. A leak-free condition is defined as a condition without a gas leak or a liquid leak. A gas leak is defined as a reading in excess of 10,000 parts per million by volume (ppmv), as methane, above background on a portable hydrocarbon detection instrument that is calibrated with methane in accordance with the procedures specified in EPA Method 21. Liquid leak is defined as the dripping of organic liquid at a rate of more than 3 drops per minute. A reading in excess to 10,000 ppmv, as methane, above background, or dripping of organic liquid at a rate of more than 3 drops per minute, is a violation of this permit and Rule 4623 and shall be reported as a deviation. [District Rule 4623] Federally Enforceable Through Title V Permit
20. Each opening in a non-contact internal floating roof, except for automatic bleeder vents (vacuum breaker vents) and rim space vents, shall provide a projection below the liquid surface. [District Rule 4623 and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
21. Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, combination manway/vacuum breakers, 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. [District Rule 4623] Federally Enforceable Through Title V Permit
22. Automatic bleeder vents shall be equipped with a gasket and shall 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. [District Rule 4623] Federally Enforceable Through Title V Permit
23. Rim 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. [District Rule 4623] Federally Enforceable Through Title V Permit
24. Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The well shall have a slit fabric cover that covers at least 90% of the opening. The fabric cover must be impermeable. [District Rule 4623] Federally Enforceable Through Title V Permit
25. Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover. The fabric sleeve must be impermeable. [District Rule 4623] Federally Enforceable Through Title V Permit
26. The permittee shall notify the District in writing at least 30 days prior to conduct the visual inspection of the storage vessel, so the District can arrange an observer. [40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

27. For newly constructed, repaired, or rebuilt internal floating roof tanks, the permittee shall visually inspect the internal floating roof, and its appurtenant parts, fittings, etc. and measure the gaps of the primary seal and/or secondary seal prior to filling the tank. If holes, tears, or openings in the primary seal, the secondary seal, the seal fabric or defects in the internal floating roof or its appurtenant parts, components, fittings, etc., are found, they shall be repaired prior to filling the tank. [District Rule 4623 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
28. The owner or operator shall perform a monthly leak inspection of all equipment in gasoline service, as defined in section 63.11100. For this inspection, detection methods incorporating sight, sound, and smell are acceptable. [40 CFR Part 63.11089(a)] Federally Enforceable Through Title V Permit
29. For monthly leak inspection, a log book shall be used and shall be signed by the owner or operator at the completion of each inspection. A section of the log book shall contain a list, summary description, or diagram(s) showing the location of all equipment in gasoline service at the facility. [40 CFR Part 63.11089(b)] Federally Enforceable Through Title V Permit
30. Each detection of a liquid or vapor leak shall be recorded in the log book. When a leak is detected, an initial attempt at repair shall be made as soon as practicable, but no later than 5 calendar days after the leak is detected. Repair or replacement of leaking equipment shall be completed within 15 calendar days after detection of each leak. Delay of repair of leaking equipment will be allowed if the repair is not feasible within 15 days. The owner or operator shall provide in the semiannual report the reason(s) why the repair was not feasible and the date each repair was completed. [40 CFR Part 63.11089(d)] Federally Enforceable Through Title V Permit
31. The owner or operator shall maintain a log book that contain the following information for a leak during during monthly inspection: 1.) equipment type and identification number; 2.) the nature of the leak (i.e. vapor or liquid) and the method of detection (i.e. sight, sound, or smell); 3.) the date the leak was detected and the date of each attempt to repair the leak; 4.) repair methods applied in each attempt to repair the leak; 5.) repair delayed and the reason for the delay if the leak is not repaired within 15 calendar days after discovery of the leak; 6) the expected date of successful repair of the leak if the leak is not repaired within 15 days; and 7.) the date of successful repair of the leak. [40 CFR 63.11089(g)] Federally Enforceable Through Title V Permit
32. The permittee shall visually inspect, through the manholes, roof hatches, or other opening on the fixed roof, the internal floating roof and its appurtenant parts, fittings, etc., and the primary seal and/or secondary seal at least once every 12 months after the tank is initially filled with an organic liquid. There should be no visible organic liquid on the roof, tank walls, or anywhere. Other than the gap criteria specified by this rule, no holes, tears, or other openings are allowed that would permit the escape of vapors. Any defects found are violations of this rule. [District Rule 4623 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
33. If any failure (i.e. visible organic liquid on the internal floating roof, tank walls or anywhere, holes or tears in the seal fabric) is detected during 12 month visual inspection, the permittee shall repair the items or empty and remove the storage vessel from service within 45 days. If the detected failure cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the APCO in the inspection report. Such a request must document that alternate storage capacity is unavailable and specify a schedule of actions the company will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible. [40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
34. The permittee shall visually inspect the internal floating roof, the primary seal, the secondary seal, gaskets, slotted pole membranes and sleeve and sleeve seals (if any) each time the vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10 percent open area, the owner or operator shall repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel. [40 CFR Part 63.11087(c)] Federally Enforceable Through Title V Permit
35. The owner or operator shall report the number of equipment leaks not repaired within 15 days after detection in a semi-annual report. [40 CFR 63.11089(g)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

36. All covers, seals and lids covering openings in the roof used for sampling and gauging shall be inspected annually by the facility operator to ensure compliance with the provisions of this permit. If one or more of the components are found to leak during an annual inspection, the inspection frequency for that component type shall be changed from annual to quarterly. If none of the components of that type are subsequently found to be leaking during five consecutive inspections, the inspection frequency may be changed from quarterly to annual. Components located in inaccessible (over 15 feet above ground when access is required from the ground or over 6 feet away from a platform when access is required from the platform) locations shall be inspected at least annually and components located in unsafe areas shall be inspected and repaired upon detection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
37. The operator shall determine the presence of gas leaks using portable hydrocarbon detection instrument in accordance with EPA Method 21. The instrument shall be calibrated before use each day of its use by the procedures specified in Method 21 using the following calibration gases: 1.) Zero air (less than 10 ppm of hydrocarbon in air); and 2.) A mixture of methane or n-hexane and air at a concentration of about, but less than, 10,000 ppm methane or n-hexane. [District Rule 2520] Federally Enforceable Through Title V Permit
38. The operator shall maintain an inspection log containing the following: 1.) Type of component leaking; 2.) Date of leak detection, and method of detection; 3.) Date and emission level of recheck after leak is repaired. Leaks over 10,000 ppmv shall be reported as a deviation. [District Rule 2520] Federally Enforceable Through Title V Permit
39. The permittee shall conduct actual gap measurements of the primary seal and/or secondary seal at least once every 60 months. Other than the gap criteria specified by this permit, no holes, tears, or other openings are allowed that would permit the escape of hydrocarbon vapors. Any defects found shall constitute a violation of this rule. [District Rule 4623 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
40. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid whenever there is a change in the source or type of organic liquid stored in this tank. [District Rule 2520] Federally Enforceable Through Title V Permit
41. The permittee shall determine the maximum true vapor pressure of the stored organic liquid on a monthly basis, using the calculation methodology listed in Appendix B of District Rule 4623. The permittee shall keep a record of all Reid vapor pressure measurements for the stored organic liquid and shall use the highest recorded Reid vapor pressure of the month when determining the maximum true vapor pressure. The permittee shall keep a record of the actual storage temperature of the organic storage tank and shall use the highest temperature recorded of the month when determining the maximum true vapor pressure. [District Rule 4623] Federally Enforceable Through Title V Permit
42. As used in this permit, the term "source or type" shall mean liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids stored in this unit to determine which are from common source. [District Rule 2520] Federally Enforceable Through Title V Permit
43. The permittee shall submit the reports of the floating roof tank inspections to the APCO within five calendar days after the completion of the inspection only for those tanks that failed to meet the applicable requirements of Rule 4623, Sections 5.2 through 5.5. The inspection report for tanks that have been determined to be in compliance with the requirements of Sections 5.2 through 5.5 need not be submitted to the APCO, but the inspection report shall be kept on-site and made available upon request by the APCO. The inspection report shall contain all necessary information to demonstrate compliance with the provisions of this rule, including the following: 1.) Date of inspection and names and titles of company personnel doing the inspection; 2.) Tank identification number and Permit to Operate number; 3.) Measurements of the gaps between the tank shell and primary and secondary seals; 4.) Leak-free status of the tank and floating roof deck fittings. Records of the leak-free status shall include the vapor concentration values measured in ppmv. 5.) Data, supported by calculations, demonstrating compliance with the requirements specified in Sections 5.3, 5.4, 5.5.2.3.3, 5.5.2.4.2, and 5.5.2.4.3 of Rule 4623. 6.) Any corrective actions or repairs performed on the tank in order to comply with Rule 4623 and the date(s) such actions were taken. [District Rule 4623 and 40 CFR 63.11087(e)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

44. The permittee shall maintain the records of the internal floating roof landing activities that are performed pursuant to Rule 4623, Sections 5.3.1.3 and 5.4.3. The records shall include information on the true vapor pressure (TVP), API gravity, storage temperature, type of organic liquid stored in the tank, the purpose of landing the roof on its legs, the date of roof landing, duration the roof was on its legs, the level or height at which the tank roof was set to land on its legs, and the lowest liquid level in the tank. [District Rule 4623] Federally Enforceable Through Title V Permit
45. The following test methods shall be used: ASTM Method D287 for determining API Gravity, ASTM Method D4057 sampling for API Gravity testing; ASTM D323 for determining RVP, and converting RVP to TVP at the tank's maximum organic liquid storage temperature; ARB Method 422 for determining exempt halogenated VOCs in gases; EPA Method 21 for measuring gas-leak concentration. Should the owner or operator wish to use test methods other than the ones mentioned in this condition, the methods must be approved by the District prior to its use. [District Rule 4623] Federally Enforceable Through Title V Permit
46. Records of the cumulative annual organic liquid throughput shall be maintained and updated monthly. [District Rule 2201] Federally Enforceable Through Title V Permit
47. The permittee shall maintain records sufficient to demonstrate compliance with the daily VOC emission limit. These records shall contain the calculated emission quantity as well as each process variable used in the respective calculations/modeling. [District Rules 2080 and 2201] Federally Enforceable Through Title V Permit
48. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-829-18-10

EXPIRATION DATE: 11/30/2020

EQUIPMENT DESCRIPTION:

1,008,000 GALLON WELDED INTERNAL FLOATING ROOF ORGANIC LIQUID STORAGE TANK (#2402) WITH A PRIMARY MECHANICAL SHOE SEAL, A SECONDARY WIPER SEAL, AND A SLOTTED GUIDEPOLE

PERMIT UNIT REQUIREMENTS

1. True vapor pressure (TVP) of the organic liquid stored shall be less than 11 psia. [District Rule 4623] Federally Enforceable Through Title V Permit
2. VOC emissions shall not exceed 14.2 pounds in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The organic liquid throughput shall not exceed 24,192,000 gallons in any one calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The tank shall be equipped with a fixed roof with an internal floating type cover equipped with a continuous closure device between the tank wall and the cover edge. [40 CFR 60.112a(2) and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
5. The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel that has a fixed roof. The internal roof shall be floating on the liquid surface except during initial fill and when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible. Whenever the permittee intends to land the roof on it's legs, the permittee shall notify the APCO in writing at least five days prior to performing the work. [District Rule 4623, 40 CFR 60.112a(2) and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
6. Gaps between the tank shell and the primary seal shall not exceed 1 1/2 inches. [District Rule 4623] Federally Enforceable Through Title V Permit
7. The cumulative length of all gaps between the tank shell and the primary seal greater than 1/2 inch shall not exceed 10% of the circumference of the tank. [District Rule 4623] Federally Enforceable Through Title V Permit
8. The cumulative length of all primary seal gaps greater than 1/8 inch shall not exceed 30% of the circumference of the tank. [District Rule 4623] Federally Enforceable Through Title V Permit
9. No continuous gap in the primary seal greater than 1/8 inch wide shall exceed 10% of the tank circumference. [District Rule 4623] Federally Enforceable Through Title V Permit
10. No gap between the tank shell and the secondary seal shall exceed 1/2 inch. [District Rule 4623] Federally Enforceable Through Title V Permit
11. The cumulative length of all gaps between the tank shell and the secondary seal, greater than 1/8 inch shall not exceed 5% of the tank circumference. [District Rule 4623] Federally Enforceable Through Title V Permit
12. The metallic shoe-type seal shall be installed so that one end of the shoe extends into the stored liquid and the other end extends a minimum vertical distance of 18 inches above the stored liquid surface. [District Rule 4623] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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13. The geometry of the metallic-shoe type seal shall be such that the maximum gap between the shoe and the tank shell shall be no greater than 3 inches for a length of at least 18 inches in the vertical plane above the liquid. [District Rule 4623] Federally Enforceable Through Title V Permit
14. There shall be no holes, tears, or openings in the secondary seal or in the primary seal envelope that surrounds the annular vapor space enclosed by the roof edge, seal fabric, and secondary seal. [District Rule 4623] Federally Enforceable Through Title V Permit
15. The secondary seal shall allow easy insertion of probes of up to 1 1/2 inches in width in order to measure gaps in the primary seal. [District Rule 4623] Federally Enforceable Through Title V Permit
16. The secondary seal shall extend from the roof to the tank shell and shall not be attached to the primary seal. [District Rule 4623] Federally Enforceable Through Title V Permit
17. All openings in the roof used for sampling and gauging, except pressure-vacuum valves which shall be set to within 10% of the maximum allowable working pressure of the roof, shall provide a projection below the liquid surface to prevent belching of liquid and to prevent entrained or formed organic vapor from escaping from the liquid contents of the tank and shall be equipped with a cover, seal or lid that shall be in a closed position at all times, with no visible gaps and be leak free, except when the device or appurtenance is in use for sampling or gauging. [District Rule 4623] Federally Enforceable Through Title V Permit
18. A leak-free condition is defined as a condition without a gas leak or a liquid leak. A gas leak is defined as a reading in excess of 10,000 parts per million by volume (ppmv), as methane, above background on a portable hydrocarbon detection instrument that is calibrated with methane in accordance with the procedures specified in EPA Method 21. Liquid leak is defined as the dripping of organic liquid at a rate of more than 3 drops per minute. A reading in excess to 10,000 ppmv, as methane, above background, or dripping of organic liquid at a rate of more than 3 drops per minute, is a violation of this permit and Rule 4623 and shall be reported as a deviation. [District Rule 4623] Federally Enforceable Through Title V Permit
19. Each opening in a non-contact internal floating roof, except for automatic bleeder vents (vacuum breaker vents) and rim space vents, shall provide a projection below the liquid surface. [District Rule 4623 and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
20. Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, combination manway/vacuum breakers, 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. [District Rule 4623] Federally Enforceable Through Title V Permit
21. Automatic bleeder vents shall be equipped with a gasket and shall 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. [District Rule 4623] Federally Enforceable Through Title V Permit
22. Rim 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. [District Rule 4623] Federally Enforceable Through Title V Permit
23. Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The well shall have a slit fabric cover that covers at least 90% of the opening. The fabric cover must be impermeable. [District Rule 4623] Federally Enforceable Through Title V Permit
24. Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover. The fabric sleeve must be impermeable. [District Rule 4623] Federally Enforceable Through Title V Permit
25. All slotted sampling or gauging wells shall provide a projection below the liquid surface. [District Rule 4623] Federally Enforceable Through Title V Permit
26. The gap between the pole wiper and the slotted guidepole shall be added to the gaps measured to determine compliance with the secondary seal requirement, and in no case shall exceed one-eighth inch. [District Rule 4623] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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27. The permittee shall notify the District in writing at least 30 days prior to conduct the visual inspection of the storage vessel, so the District can arrange an observer. [40 CFR 60.11087(c)] Federally Enforceable Through Title V Permit
28. For newly constructed, repaired, or rebuilt internal floating roof tanks, the permittee shall visually inspect the internal floating roof, and its appurtenant parts, fittings, etc. and measure the gaps of the primary seal and/or secondary seal prior to filling the tank. If holes, tears, or openings in the primary seal, the secondary seal, the seal fabric or defects in the internal floating roof or its appurtenant parts, components, fittings, etc., are found, they shall be repaired prior to filling the tank. [District Rule 4623, 6.1.4.1 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
29. The owner or operator shall perform a monthly leak inspection of all equipment in gasoline service, as defined in section 63.11100. For this inspection, detection methods incorporating sight, sound, and smell are acceptable. [40 CFR Part 63.11089(a)] Federally Enforceable Through Title V Permit
30. For monthly leak inspection, a log book shall be used and shall be signed by the owner or operator at the completion of each inspection. A section of the log book shall contain a list, summary description, or diagram(s) showing the location of all equipment in gasoline service at the facility. [40 CFR Part 63.11089(b)] Federally Enforceable Through Title V Permit
31. Each detection of a liquid or vapor leak shall be recorded in the log book. When a leak is detected, an initial attempt at repair shall be made as soon as practicable, but no later than 5 calendar days after the leak is detected. Repair or replacement of leaking equipment shall be completed within 15 calendar days after detection of each leak. Delay of repair of leaking equipment will be allowed if the repair is not feasible within 15 days. The owner or operator shall provide in the semiannual report the reason(s) why the repair was not feasible and the date each repair was completed. [40 CFR Part 63.11089(d)] Federally Enforceable Through Title V Permit
32. The owner or operator shall maintain a log book that contain the following information for a leak during during monthly inspection: 1.) equipment type and identification number; 2.) the nature of the leak (i.e. vapor or liquid) and the method of detection (i.e. sight, sound, or smell); 3.) the date the leak was detected and the date of each attempt to repair the leak; 4.) repair methods applied in each attempt to repair the leak; 5.) repair delayed and the reason for the delay if the leak is not repaired within 15 calendar days after discovery of the leak; 6) the expected date of successful repair of the leak if the leak is not repaired within 15 days; and 7.) the date of successful repair of the leak. [40 CFR 63.11089(g)] Federally Enforceable Through Title V Permit
33. The permittee shall visually inspect, through the manholes, roof hatches, or other opening on the fixed roof, the internal floating roof and its appurtenant parts, fittings, etc., and the primary seal and/or secondary seal at least once every 12 months after the tank is initially filled with an organic liquid. There should be no visible organic liquid on the roof, tank walls, or anywhere. Other than the gap criteria specified by this rule, no holes, tears, or other openings are allowed that would permit the escape of vapors. Any defects found are violations of this rule. [District Rule 4623, 6.1.4.2 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
34. If any failure (i.e. visible organic liquid on the internal floating roof, tank walls or anywhere, holes or tears in the seal fabric) is detected during 12 month visual inspection, the permittee shall repair the items or empty and remove the storage vessel from service within 45 days. If the detected failure cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the APCO in the inspection report. Such a request must document that alternate storage capacity is unavailable and specify a schedule of actions the company will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible. [40 CFR 60.11087(c)] Federally Enforceable Through Title V Permit
35. The permittee shall visually inspect the internal floating roof, the primary seal, the secondary seal, gaskets, slotted membranes and sleeve seals (if any) each time the vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10 percent open area, the owner or operator shall repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel. [40 CFR Part 63.11087(c)] Federally Enforceable Through Title V Permit
36. The owner or operator shall report the number of equipment leaks not repaired within 15 days after detection in a semi-annual report. [40 CFR 63.11089(g)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

37. All covers, seals and lids covering openings in the roof used for sampling and gauging shall be inspected annually by the facility operator to ensure compliance with the provisions of this permit. If one or more of the components are found to leak during an annual inspection, the inspection frequency for that component type shall be changed from annual to quarterly. If none of the components of that type are subsequently found to be leaking during five consecutive inspections, the inspection frequency may be changed from quarterly to annual. Components located in inaccessible (over 15 feet above ground when access is required from the ground or over 6 feet away from a platform when access is required from the platform) locations shall be inspected at least annually and components located in unsafe areas shall be inspected and repaired upon detection. [District Rule 2520] Federally Enforceable Through Title V Permit
38. The operator shall determine the presence of gas leaks using portable hydrocarbon detection instrument in accordance with EPA Method 21. The instrument shall be calibrated before use each day of its use by the procedures specified in Method 21 using the following calibration gases: 1.) Zero air (less than 10 ppm of hydrocarbon in air); and 2.) A mixture of methane or n-hexane and air at a concentration of about, but less than, 10,000 ppm methane or n-hexane. [District Rule 2520] Federally Enforceable Through Title V Permit
39. The operator shall maintain an inspection log containing the following: 1.) Type of component leaking; 2.) Date of leak detection, and method of detection; 3.) Date and emission level of recheck after leak is repaired. Leaks over 10,000 ppmv shall be reported as a deviation. [District Rule 2520] Federally Enforceable Through Title V Permit
40. The permittee shall conduct actual gap measurements of the primary seal and/or secondary seal at least once every 60 months. Other than the gap criteria specified by this permit, no holes, tears, or other openings are allowed that would permit the escape of hydrocarbon vapors. Any defects found shall constitute a violation of this permit. [District Rule 4623 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
41. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid whenever there is a change in the source or type of organic liquid stored in this tank. [District Rule 2520] Federally Enforceable Through Title V Permit
42. As used in this permit, the term "source or type" shall mean liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids stored in this unit to determine which are from common source. [District Rule 2520] Federally Enforceable Through Title V Permit
43. The operator shall keep a record of liquids stored in each container, period of storage, and the maximum true vapor pressure of the liquid during the respective storage period. [40 CFR 60.115a(a)] Federally Enforceable Through Title V Permit
44. Maximum true vapor pressure may be determined from nomographs contained in API Bulletin 2517, by using the typical Reid vapor pressure and the maximum expected storage temperature of the stored product, unless the APCO specifically requests that the liquid be sampled, the actual storage temperature determined, and the Reid vapor pressure determined from the sample(s). [40 CFR 60.115a(b)] Federally Enforceable Through Title V Permit
45. The permittee shall submit the reports of the floating roof tank inspections to the APCO within five calendar days after the completion of the inspection only for those tanks that failed to meet the applicable requirements of Rule 4623, Sections 5.2 through 5.5. The inspection report for tanks that have been determined to be in compliance with the requirements of Sections 5.2 through 5.5 need not be submitted to the APCO, but the inspection report shall be kept on-site and made available upon request by the APCO. The inspection report shall contain all necessary information to demonstrate compliance with the provisions of this rule, including the following: 1.) Date of inspection and names and titles of company personnel doing the inspection; 2.) Tank identification number and Permit to Operate number; 3.) Measurements of the gaps between the tank shell and primary and secondary seals; 4.) Leak-free status of the tank and floating roof deck fittings. Records of the leak-free status shall include the vapor concentration values measured in ppmv. 5.) Data, supported by calculations, demonstrating compliance with the requirements specified in Sections 5.3, 5.4, 5.5.2.3.3, 5.5.2.4.2, and 5.5.2.4.3 of Rule 4623. 6.) Any corrective actions or repairs performed on the tank in order to comply with Rule 4623 and the date(s) such actions were taken. [District Rule 4623 and 40 CFR 63.11087(e)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

46. The permittee shall maintain the records of the internal floating roof landing activities that are performed pursuant to Rule 4623, Sections 5.3.1.3 and 5.4.3. The records shall include information on the true vapor pressure (TVP), API gravity, storage temperature, type of organic liquid stored in the tank, the purpose of landing the roof on its legs, the date of roof landing, duration the roof was on its legs, the level or height at which the tank roof was set to land on its legs, and the lowest liquid level in the tank. [District Rule 4623] Federally Enforceable Through Title V Permit
47. The following test methods shall be used: ASTM Method D287 for determining API Gravity, ASTM Method D4057 sampling for API Gravity testing; ASTM D323 for determining RVP, and converting RVP to TVP at the tank's maximum organic liquid storage temperature; ARB Method 422 for determining exempt halogenated VOCs in gases; EPA Method 21 for measuring gas-leak concentration. Should the owner or operator wish to use test methods other than the ones mentioned in this condition, the methods must be approved by the District prior to its use. [District Rule 4623] Federally Enforceable Through Title V Permit
48. Records of the cumulative annual organic liquid throughput shall be maintained and updated monthly. [District Rule 2201] Federally Enforceable Through Title V Permit
49. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-829-20-9

EXPIRATION DATE: 11/30/2020

EQUIPMENT DESCRIPTION:

VAPOR COMBUSTION SYSTEM CONSISTING OF A 300,000 GALLON VAPOR HOLDING TANK, A VAPOR PROCESSING AND CONVEYING SYSTEM, AND A 40 MMBTU/HR PROPANE FIRED JOHN ZINK ZCT-2-8-35-X-2/8-X VAPOR COMBUSTION UNIT (VCU)

PERMIT UNIT REQUIREMENTS

1. The VOC destruction efficiency shall be at least 99% and all gasoline loading shall be conducted utilizing bottom loading and dry-break couplers. [District Rule 4102]
2. Gasoline shall be loaded only into vapor tight tank trucks. [40 CFR Part 60.502(e)] Federally Enforceable Through Title V Permit
3. The facility shall obtain the vapor tightness documentation specified in 40 CFR Part 60.505(b) for each gasoline tank truck that is to be loaded at the facility. [40 CFR Part 60.502(e)(1)] Federally Enforceable Through Title V Permit
4. VOC emissions from the vapor recovery system shall not exceed 0.08 pounds per thousand gallons of gasoline loaded. [District Rules 4624, 5.1.1, San Joaquin County Rule 412, and 40 CFR 63.11088(a)] Federally Enforceable Through Title V Permit
5. The vapor collection system shall be operated in a manner to prevent any organic vapors collected at one loading rack from passing to another loading rack. [40 CFR 63.11088(a)] Federally Enforceable Through Title V Permit
6. The vapor collection and control system shall operate such that the pressure in the delivery tank being loaded does not exceed 18 inches water column pressure and 6 inches water column vacuum. [District Rule 4624] Federally Enforceable Through Title V Permit
7. The combined quantity of gasoline loaded through permit units N-829-1 and N-829-2 shall not exceed 756,000,000 gallons during any one calendar year. This annual limit shall be lowered in the event that the CARB certifies the vapor recovery system can process VOC emissions with a daily gasoline throughput of less than 2,071,233 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The combined quantity of gasoline loaded through permit units N-829-1 and N-829-2 shall not exceed 2,071,233 gallons during any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The vapor combustor's combustion chamber shall be configured to operate with logic controls set to shut the vapor combustor system down and close the block valve to receiving vapors if the operating temperature does not reach a minimum of 900 degrees Fahrenheit within 10 minutes. [District Rules 2201, 4102, and 40 CFR 63.11088(d)] Federally Enforceable Through Title V Permit
10. The vapor combustor shall be equipped for continuous monitoring and recording of combustion temperature. Temperature charts shall be made available to the District upon request. [District Rule 2201, 40 CFR Part 64 and 40 CFR 63.11088(d)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

11. Should the vapor combustor's operating temperature fall below 900 degrees Fahrenheit, the permittee shall investigate the cause and take corrective action to return the operating temperature to an acceptable level as soon as possible, but no longer than one hour after initial detection. If the operating temperature cannot be raised to an acceptable value within one hour after detection, the permittee shall notify the District within the following hour and conduct a certified source test within 60 days of initial detection. In lieu of conducting a source test, the permittee may stipulate a violation that is subject to enforcement action has occurred. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviation is a result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [40 CFR Part 64] Federally Enforceable Through Title V Permit
12. Loading and vapor collection and control equipment shall be designed, installed, maintained, and operated such that there are no leaks. A leak is defined as the dripping of organic compounds at a rate of more than three drops per minute or the detection of organic compounds, in excess of 10,000 ppm as methane measured at the surface of the component interface from potential source in accordance with EPA Method 21. [District Rule 4624 and San Joaquin County Rule 412] Federally Enforceable Through Title V Permit
13. The vapor collection system, the vapor destruction device and each transfer rack shall be tested for leaks at least once every calendar quarter with a portable hydrocarbon analyzer in accordance with EPA Method 21. [District Rule 4624] Federally Enforceable Through Title V Permit
14. The equipment that are found leaking shall be repair or replaced within 72 hours after detecting the leakage. If the leaking component cannot be repaired or replaced within 72 hours, the component shall be taken out of service until such time the component is repaired or replaced. The repaired or replacement equipment shall be reinspected the first time the equipment is in operation after the repair or replacement. [District Rule 4624] Federally Enforceable Through Title V Permit
15. Each calendar month, the vapor collection system, the vapor processing system and each loading rack handling gasoline shall be inspected during the loading of gasoline tank trucks for organic liquid and organic vapor leaks. For the purpose of this condition, detection methods incorporating sight, sound and smell are acceptable. Each detection of a leak shall be recorded and the source of the leak repaired within 15 days after it is detected. [40 CFR Part 60.502(j) and 40 CFR Part 63.11089(a)] Federally Enforceable Through Title V Permit
16. A log book shall be used and shall be signed by the owner or operator at the completion of each inspection. A section of the log book shall contain a list, summary description, or diagram(s) showing the location of all equipment in gasoline service at the facility. [40 CFR Part 63.11089(b)] Federally Enforceable Through Title V Permit
17. Each detection of a liquid or vapor leak shall be recorded in the log book. When a leak is detected, an initial attempt at repair shall be made as soon as practicable, but no later than 5 calendar days after the leak is detected. Repair or replacement of leaking equipment shall be completed within 15 calendar days after detection of each leak. Delay of repair of leaking equipment will be allowed if the repair is not feasible within 15 days. The owner or operator shall provide in the semiannual report the reason(s) why the repair was not feasible and the date each repair was completed. [40 CFR Part 63.11089(d)] Federally Enforceable Through Title V Permit
18. The owner or operator shall maintain a log book that contain the following information: 1.) dates of leak inspections, 2.) the nature of the leak (i.e. vapor or liquid) and the method of detection; 3.) findings, 4.) corrective action, 5.) repair methods applied in each attempt to repair the leak; 6.) repair delayed and the reason for the delay if the leak is not repaired within 15 calendar days after discovery of the leak; 7.) the expected date of successful repair of the leak if the leak is not repaired within 15 days; 8.) the date of successful repair of the leak; and 9.) inspector name and signature. [District Rule 4624, 40 CFR Part 60.505 (c) and 40 CFR 63.11089(g)] Federally Enforceable Through Title V Permit
19. The owner or operator shall report the number of equipment leaks not repaired within 15 days after detection in a semi-annual report. [40 CFR 63.11089(g)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

20. During source testing the loading rack's vapor collection and control system (VCCS) shall be tested at every loading position to demonstrate the pressure in the delivery tanks being loaded complies with the requirements specified in this permit. Compliance shall be determined by calibrating and installing a liquid manometer, magnehelic device, or other instrument demonstrated to be equivalent, capable of measuring up to 500 mm water gauge pressure with a precision of 2.5 mm water gauge, on the terminal's VCCS at a pressure tap as close as possible to the connection with the product tank truck. The highest instantaneous pressure measurement as well as all pressure measurements at 5 minute intervals during delivery vessel loading must be recorded. [District Rule 2520 and 40 CFR 60.503(d)] Federally Enforceable Through Title V Permit
21. Source testing to determine compliance with the emission rate and VOC destruction efficiency requirements of this permit shall be conducted at least once every 60 months. [District Rules 2201 and 4624] Federally Enforceable Through Title V Permit
22. Source testing shall be conducted using methods and procedures approved by District. The District must be notified 30 days prior to any compliance source testing and a pretest plan outlining the test methods and procedures shall be submitted for the District approval no later than 15 days prior to each test. [District Rule 1081] Federally Enforceable Through Title V Permit
23. Source testing shall be witnessed or authorized by District Personnel. [District Rule 1081] Federally Enforceable Through Title V Permit
24. VOC emissions from the vapor collection and control system shall be determined using 40 CFR 60.503 "Test Methods and Procedures" and EPA Reference Methods 2A, 2B, 25A, 25B, and ARB Method 422, or ARB Test Procedure TP-203.1. [District Rule 4624 and San Joaquin County Rule 412] Federally Enforceable Through Title V Permit
25. Source testing for VOC destruction efficiency shall be conducted utilizing EPA Method 18, EPA Method 25A or CARB Method 100. Alternative methods may be utilized provided they are previously approved by the District, in writing. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
26. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
27. A log of all breakdowns of the vapor recovery system indicating the times, dates and gallons processed during the breakdown periods shall be maintained on the premises at all times and shall be made available for District inspection upon request. [District Rule 2520] Federally Enforceable Through Title V Permit
28. A record of the daily quantity of gasoline loaded from the loading racks operating under Permits to Operate N-829-1 and N-829-2 shall be kept. [District Rules 2520, 4624] Federally Enforceable Through Title V Permit
29. A record of the cumulative annual quantity of gasoline loaded from the loading racks operating under Permits to Operate N-829-1 and N-829-2 shall be kept. The record shall be updated at least monthly. [District Rule 2520] Federally Enforceable Through Title V Permit
30. Documentation attesting to the vapor tightness of each truck loaded with gasoline shall be kept. The documentation file for each tank truck shall be updated at least once per year to reflect the current test results as determined by EPA method 27. [40 CFR Part 60.5059(a) and 40 CFR 63.11094(b)] Federally Enforceable Through Title V Permit
31. The semi-annual compliance report shall include each loading of a gasoline cargo tank for which vapor tightness documentation had not been previously obtained by the facility. [40 CFR 63.11088(f)] Federally Enforceable Through Title V Permit
32. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rules 1070, 4624] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-829-21-5

EXPIRATION DATE: 11/30/2020

EQUIPMENT DESCRIPTION:

1,328,124 GALLON WELDED INTERNAL FLOATING ROOF STORAGE TANK (#3302) WITH A MECHANICAL SHOE PRIMARY SEAL, A WIPER SECONDARY SEAL AND A SLOTTED GUIDEPOLE

PERMIT UNIT REQUIREMENTS

1. True vapor pressure of the organic liquid stored shall be less than 11 psia. [District Rule 4623, 5.1.1] Federally Enforceable Through Title V Permit
2. The tank shall be equipped with a fixed roof with an internal floating type cover equipped with a continuous closure device between the tank wall and the cover edge. [40 CFR 60.112a(2) and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
3. The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel that has a fixed roof. The internal roof shall be floating on the liquid surface except during initial fill and when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible. Whenever the permittee intends to land the roof on it's legs, the permittee shall notify the APCO in writing at least five days prior to performing the work. [District Rule 4623, 5.3.1.3 and 5.4.3, 40 CFR 60.112a(2) and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
4. Gaps between the tank shell and the primary seal shall not exceed 1 1/2 inches. [District Rule 4653, 5.3.2.1.1 and 5.4.1] Federally Enforceable Through Title V Permit
5. The cumulative length of all gaps between the tank shell and the primary seal greater than 1/2 inch shall not exceed 10% of the circumference of the tank. [District Rule 4623, 5.3.2.1.1 and 5.4.1] Federally Enforceable Through Title V Permit
6. The cumulative length of all primary seal gaps greater than 1/8 inch shall not exceed 30% of the circumference of the tank. [District Rule 4623, 5.3.2.1.1 and 5.4.1] Federally Enforceable Through Title V Permit
7. No continuous gap in the primary seal greater than 1/8 inch wide shall exceed 10% of the tank circumference. [District Rule 4623, 5.3.2.1.1 and 5.4.1] Federally Enforceable Through Title V Permit
8. No gap between the tank shell and the secondary seal shall exceed 1/2 inch. [District Rule 4623, 5.3.2.1.2 and 5.4.1] Federally Enforceable Through Title V Permit
9. The cumulative length of all gaps between the tank shell and the secondary seal, greater than 1/8 inch shall not exceed 5% of the tank circumference. [District Rule 4623, 5.3.2.1.2 and 5.4.1] Federally Enforceable Through Title V Permit
10. The metallic shoe-type seal shall be installed so that one end of the shoe extends into the stored liquid and the other end extends a minimum vertical distance of 18 inches above the stored liquid surface. [District Rule 4623, 5.3.2.1.3 and 5.4.1] Federally Enforceable Through Title V Permit
11. The geometry of the metallic-shoe type seal shall be such that the maximum gap between the shoe and the tank shell shall be no greater than 3 inches for a length of at least 18 inches in the vertical plane above the liquid. [District Rule 4623, 5.3.2.1.4 and 5.4.1] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

12. There shall be no holes, tears, or openings in the secondary seal or in the primary seal envelope that surrounds the annular vapor space enclosed by the roof edge, seal fabric, and secondary seal. [District Rule 4623, 5.3.2.1.5 and 5.4.1] Federally Enforceable Through Title V Permit
13. The secondary seal shall allow easy insertion of probes of up to 1 1/2 inches in width in order to measure gaps in the primary seal. [District Rule 4623, 5.3.2.1.6 and 5.4.1] Federally Enforceable Through Title V Permit
14. The secondary seal shall extend from the roof to the tank shell and shall not be attached to the primary seal. [District Rule 4623, 5.3.2.1.7 and 5.4.1] Federally Enforceable Through Title V Permit
15. All openings in the roof used for sampling and gauging shall provide a projection below the liquid surface to prevent belching of liquid and to prevent entrained or formed organic vapor from escaping from the liquid contents of the tank and shall be equipped with a cover, seal or lid that shall be in a closed position at all times, with no visible gaps and be leak free, except when the device or appurtenance is in use for sampling or gauging. [District Rule 4623, 5.5.1] Federally Enforceable Through Title V Permit
16. A leak-free condition is defined as a condition without a gas leak or a liquid leak. A gas leak is defined as a reading in excess of 10,000 parts per million by volume (ppmv), as methane, above background on a portable hydrocarbon detection instrument that is calibrated with methane in accordance with the procedures specified in EPA Method 21. Liquid leak is defined as the dripping of organic liquid at a rate of more than 3 drops per minute. A reading in excess to 10,000 ppmv, as methane, above background, or dripping of organic liquid at a rate of more than 3 drops per minute, is a violation of this permit and Rule 4623 and shall be reported as a deviation. [District Rule 4623, 3.11, 3.17, 3.18 and 6.4.8] Federally Enforceable Through Title V Permit
17. Each opening in a non-contact internal floating roof, except for automatic bleeder vents (vacuum breaker vents) and rim space vents, shall provide a projection below the liquid surface. [District Rule 4623, 5.5.2.1.1 and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
18. Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, combination manway/vacuum breakers, 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. [District Rule 4623, 5.5.2.1.2] Federally Enforceable Through Title V Permit
19. Automatic bleeder vents shall be equipped with a gasket and shall 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. [District Rule 4623, 5.5.2.1.3] Federally Enforceable Through Title V Permit
20. Rim 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. [District Rule 4623, 5.5.2.1.4] Federally Enforceable Through Title V Permit
21. Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The well shall have a slit fabric cover that covers at least 90% of the opening. The fabric cover must be impermeable. [District Rule 4623, 5.5.2.1.5] Federally Enforceable Through Title V Permit
22. Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover. The fabric sleeve must be impermeable. [District Rule 4623, 5.5.2.1.6] Federally Enforceable Through Title V Permit
23. All slotted sampling or gauging wells, and similar fixed projections through the floating roof shall provide a projection below the liquid surface. [District Rule 4623, 5.5.2.4.1] Federally Enforceable Through Title V Permit
24. The gap between the pole wiper and the slotted guidepole shall be added to the gaps measured to determine compliance with the secondary seal requirement, and in no case shall not exceed 1/8 inch. [District Rule 4623, 5.5.2.4.3] Federally Enforceable Through Title V Permit
25. The permittee shall notify the District in writing at least 30 days prior to conduct the visual inspection of the storage vessel, so the District can arrange an observer. [40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

26. For newly constructed, repaired, or rebuilt internal floating roof tanks, the permittee shall visually inspect the internal floating roof, and its appurtenant parts, fittings, etc. and measure the gaps of the primary seal and/or secondary seal prior to filling the tank. If holes, tears, or openings in the primary seal, the secondary seal, the seal fabric or defects in the internal floating roof or its appurtenant parts, components, fittings, etc., are found, they shall be repaired prior to filling the tank. [District Rule 4623, 6.1.4.1 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
27. The owner or operator shall perform a monthly leak inspection of all equipment in gasoline service, as defined in section 63.11100. For this inspection, detection methods incorporating sight, sound, and smell are acceptable. [40 CFR Part 63.11089(a)] Federally Enforceable Through Title V Permit
28. For monthly leak inspection, a log book shall be used and shall be signed by the owner or operator at the completion of each inspection. A section of the log book shall contain a list, summary description, or diagram(s) showing the location of all equipment in gasoline service at the facility. [40 CFR Part 63.11089(b)] Federally Enforceable Through Title V Permit
29. Each detection of a liquid or vapor leak shall be recorded in the log book. When a leak is detected, an initial attempt at repair shall be made as soon as practicable, but no later than 5 calendar days after the leak is detected. Repair or replacement of leaking equipment shall be completed within 15 calendar days after detection of each leak. Delay of repair of leaking equipment will be allowed if the repair is not feasible within 15 days. The owner or operator shall provide in the semiannual report the reason(s) why the repair was not feasible and the date each repair was completed. [40 CFR Part 63.11089(d)] Federally Enforceable Through Title V Permit
30. The owner or operator shall maintain a log book that contain the following information for a leak during during monthly inspection: 1.) equipment type and identification number; 2.) the nature of the leak (i.e. vapor or liquid) and the method of detection (i.e. sight, sound, or smell); 3.) the date the leak was detected and the date of each attempt to repair the leak; 4.) repair methods applied in each attempt to repair the leak; 5.) repair delayed and the reason for the delay if the leak is not repaired within 15 calendar days after discovery of the leak; 6) the expected date of successful repair of the leak if the leak is not repaired within 15 days; and 7.) the date of successful repair of the leak. [40 CFR 63.11089(g)] Federally Enforceable Through Title V Permit
31. The permittee shall visually inspect, through the manholes, roof hatches, or other opening on the fixed roof, the internal floating roof and its appurtenant parts, fittings, etc., and the primary seal and/or secondary seal at least once every 12 months after the tank is initially filled with an organic liquid. There should be no visible organic liquid on the roof, tank walls, or anywhere. Other than the gap criteria specified by this rule, no holes, tears, or other openings are allowed that would permit the escape of vapors. Any defects found are violations of this rule. [District Rule 4623, 6.1.4.2 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
32. If any failure (i.e. visible organic liquid on the internal floating roof, tank walls or anywhere, holes or tears in the seal fabric) is detected during 12 month visual inspection, the permittee shall repair the items or empty and remove the storage vessel from service within 45 days. If the detected failure cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the APCO in the inspection report. Such a request must document that alternate storage capacity is unavailable and specify a schedule of actions the company will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible. [40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
33. The permittee shall visually inspect the internal floating roof, the primary seal, the secondary seal, gaskets, slotted membranes and sleeve seals (if any) each time the vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10 percent open area, the owner or operator shall repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel. [40 CFR Part 63.11087(c)] Federally Enforceable Through Title V Permit
34. The owner or operator shall report the number of equipment leaks not repaired within 15 days after detection in a semi-annual report. [40 CFR 63.11089(g)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

35. All covers, seals and lids covering openings in the roof used for sampling and gauging shall be inspected annually by the facility operator to ensure compliance with the provisions of this permit. If one or more of the components are found to leak during an annual inspection, the inspection frequency for that component type shall be changed from annual to quarterly. If none of the components of that type are subsequently found to be leaking during five consecutive inspections, the inspection frequency may be changed from quarterly to annual. Components located in inaccessible (over 15 feet above ground when access is required from the ground or over 6 feet away from a platform when access is required from the platform) locations shall be inspected at least annually and components located in unsafe areas shall be inspected and repaired upon detection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
36. The operator shall determine the presence of gas leaks using portable hydrocarbon detection instrument in accordance with EPA Method 21. The instrument shall be calibrated before use each day of its use by the procedures specified in Method 21 using the following calibration gases: 1.) Zero air (less than 10 ppm of hydrocarbon in air); and 2.) A mixture of methane or n-hexane and air at a concentration of about, but less than, 10,000 ppm methane or n-hexane. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
37. The operator shall maintain an inspection log containing the following: 1.) Type of component leaking; 2.) Date of leak detection, and method of detection; 3.) Date and emission level of recheck after leak is repaired. Leaks over 10,000 ppmv shall be reported as a deviation. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
38. The permittee shall conduct actual gap measurements of the primary seal and/or secondary seal at least once every 60 months. Other than the gap criteria specified by this permit, no holes, tears, or other openings are allowed that would permit the escape of hydrocarbon vapors. Any defects found shall constitute a violation of this permit. [District Rule 4623, 6.1.4.3 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
39. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid whenever there is a change in the source or type of organic liquid stored in this tank. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
40. As used in this permit, the term "source or type" shall mean liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids stored in this unit to determine which are from common source. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
41. The operator shall keep a record of liquids stored in each container, period of storage, and the maximum true vapor pressure of the liquid during the respective storage period. [40 CFR 60.115a(a)] Federally Enforceable Through Title V Permit
42. The permittee shall determine the maximum true vapor pressure of the stored organic liquid on a monthly basis, using the calculation methodology listed in Appendix B of District Rule 4623. The permittee shall keep a record of all reid vapor pressure measurements for the stored organic liquid and shall use the highest recorded reid vapor pressure of the month when determining the maximum true vapor pressure. The permittee shall keep a record of the actual storage temperature of the organic storage tank and shall use the highest temperature recorded of the month when determining the maximum true vapor pressure. [40 CFR 60.115a(b)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

43. The permittee shall submit the reports of the floating roof tank inspections to the APCO within five calendar days after the completion of the inspection only for those tanks that failed to meet the applicable requirements of Rule 4623, Sections 5.2 through 5.5. The inspection report for tanks that have been determined to be in compliance with the requirements of Sections 5.2 through 5.5 need not be submitted to the APCO, but the inspection report shall be kept on-site and made available upon request by the APCO. The inspection report shall contain all necessary information to demonstrate compliance with the provisions of this rule, including the following: 1.) Date of inspection and names and titles of company personnel doing the inspection; 2.) Tank identification number and Permit to Operate number; 3.) Measurements of the gaps between the tank shell and primary and secondary seals; 4.) Leak-free status of the tank and floating roof deck fittings. Records of the leak-free status shall include the vapor concentration values measured in ppmv. 5.) Data, supported by calculations, demonstrating compliance with the requirements specified in Sections 5.3, 5.4, 5.5.2.3.3, 5.5.2.4.2, and 5.5.2.4.3 of Rule 4623. 6.) Any corrective actions or repairs performed on the tank in order to comply with Rule 4623 and the date(s) such actions were taken. [District Rule 4623, 6.3.5 and 40 CFR 63.11087(e)] Federally Enforceable Through Title V Permit
44. The permittee shall maintain the records of the internal floating roof landing activities that are performed pursuant to Rule 4623, Sections 5.3.1.3 and 5.4.3. The records shall include information on the true vapor pressure (TVP), API gravity, storage temperature, type of organic liquid stored in the tank, the purpose of landing the roof on its legs, the date of roof landing, duration the roof was on its legs, the level or height at which the tank roof was set to land on its legs, and the lowest liquid level in the tank. [District Rule 4623, 6.3.7] Federally Enforceable Through Title V Permit
45. The following test methods shall be used: ASTM Method D287 for determining API Gravity, ASTM Method D4057 sampling for API Gravity testing; ASTM D323 for determining RVP, and converting RVP to TVP at the tank's maximum organic liquid storage temperature; ARB Method 422 for determining exempt halogenated VOCs in gases; EPA Method 21 for measuring gas-leak concentration. Should the owner or operator wish to use test methods other than the ones mentioned in this condition, the methods must be approved by the District prior to its use. [District Rule 4623, 6.4] Federally Enforceable Through Title V Permit
46. The operator shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rules 4623, 6.3 and 2520, 9.4.2] Federally Enforceable Through Title V Permit
47. There shall be no vapor space between the internal floating pan and the liquid surface. [District NSR Rule] Federally Enforceable Through Title V Permit
48. At least 95% of all hydrocarbon vapors generated during the storage and the working of the storage tank shall be prevented from entrainment into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
49. The permittee shall maintain records sufficient to demonstrate compliance with the daily VOC emission limit. These records shall contain the calculated emission quantity as well as each process variable used in the respective calculations/modeling. [District Rule 2080] Federally Enforceable Through Title V Permit
50. The internal floating roof supports, manholes, automatic bleeder vents, rim vents, gauge wells, etc., shall be covered with foam seal in a manner which prevents any gap. [District NSR Rule] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-829-22-5

EXPIRATION DATE: 11/30/2020

EQUIPMENT DESCRIPTION:

1,218,000 GALLON WELDED INTERNAL FLOATING ROOF STORAGE TANK (#3303) WITH A WIPER PRIMARY SEAL AND A SLOTTED GUIDEPOLE

PERMIT UNIT REQUIREMENTS

1. True vapor pressure of the organic liquid stored shall be less than 11 psia. [District Rule 4623, 5.1.1] Federally Enforceable Through Title V Permit
2. The tank shall be equipped with a fixed roof with an internal floating type cover equipped with one of the following closure devices between the tank wall and the cover edge: 1) A foam- or liquid-filled seal mounted in contact with the liquid (liquid-mounted seal); 2) Two seals mounted one above the other so that each forms a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof; or 3) A mechanical shoe seal. [40 CFR 60.112b(a)(1)(ii) and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
3. The internal floating roof shall float on the surface of the stored liquid at all times (i.e., off the roof leg supports) except during the initial fill until the roof is lifted off the leg supports and when the tank is completely emptied and subsequently refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible. Whenever the permittee intends to land the roof on its legs, the permittee shall notify the APCO in writing at least five calendar days prior to performing the work. The tank must be in compliance with this rule before it may land on its legs. [District Rule 4623, 5.3.1.3 and 5.4.3, 40 CFR 60.112b(a)(1)(i) and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
4. The tank shall be equipped with an Ultraflote, model Single Ultraseal, wiper primary seal. [District Rule 4623, 5.4.2 and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
5. No gap between the tank shell and the seal shell shall exceed 0.06 inch. [District Rule 4623, 3.37 and 5.4.2.1] Federally Enforceable Through Title V Permit
6. The cumulative length of all gaps exceeding 0.02 inch shall not be more than 5% of the circumference of the tank, excluding gaps less than 1.79 inches from vertical seams. [District Rule 4623, 3.37 and 5.4.2.1] Federally Enforceable Through Title V Permit
7. All openings in the roof used for sampling and gauging shall provide a projection below the liquid surface to prevent belching of liquid and to prevent entrained or formed organic vapor from escaping from the liquid contents of the tank and shall be equipped with a cover, seal or lid. The cover seal or lid shall be in a closed position, with no visible gaps and be leak-free, except when the device or appurtenance is in use for sampling or gauging. [District Rule 4623, 5.5.1] Federally Enforceable Through Title V Permit
8. A leak-free condition is defined as a condition without a gas leak or a liquid leak. A gas leak is defined as a reading in excess of 10,000 parts per million by volume (ppmv), as methane, above background on a portable hydrocarbon detection instrument that is calibrated with methane in accordance with the procedures specified in EPA Method 21. Liquid leak is defined as the dripping of organic liquid at a rate of more than 3 drops per minute. A reading in excess to 10,000 ppmv, as methane, above background, or dripping of organic liquid at a rate of more than 3 drops per minute, is a violation of this permit and Rule 4623 and shall be reported as a deviation. [District Rule 4623, 3.11, 3.17, 3.18 and 6.4.8] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

9. Each opening in a non-contact internal floating roof except for automatic bleeder vents (vacuum breaker vents) and rim space vents shall provide a projection below the liquid surface. [District Rule 4623, 5.5.2.1.1, 40 CFR 60.112b(a)(1)(iii) and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
10. Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, combination manway/vacuum breakers, and stub drains shall be equipped with a cover, or a lid shall be maintained in a closed position at all times (i.e. no visible gaps) except when the device is in use. The cover or lid shall be equipped with a gasket. Covers on each access hatch and automatic gauge float well shall be bolted in place except when they are in use. [District Rule 4623, 5.5.2.1.2 and 40 CFR 60.112b(a)(1)(iv)] Federally Enforceable Through Title V Permit
11. Automatic bleeder vents shall be equipped with a gasket and shall be closed at all times when the roof is floating except when the roof is being floated off or is being landed on the leg roof supports. [District Rule 4623, 5.5.2.1.3 and 40 CFR 60.112b(a)(1)(v)] Federally Enforceable Through Title V Permit
12. Rim vents shall be equipped with a gasket and shall be set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting. [District Rule 4623, 5.5.2.1.4 and 40 CFR 60.112b(a)(1)(vi)] Federally Enforceable Through Title V Permit
13. Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The well shall have a slit fabric cover that covers at least 90% of the opening. The fabric cover must be impermeable. [District Rule 4623, 5.5.2.1.5 and 40 CFR 60.112b(a)(1)(vii)] Federally Enforceable Through Title V Permit
14. 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. The fabric sleeve must be impermeable. [District Rule 4623, 5.5.2.1.6 and 40 CFR 60.112b(a)(1)(viii)] Federally Enforceable Through Title V Permit
15. Each penetration of the internal floating roof that allows for passage of a ladder shall have a gasketed sliding cover. [40 CFR 60.112b(a)(1)(ix)] Federally Enforceable Through Title V Permit
16. All slotted sampling or gauging wells, and similar fixed projections through the floating roof shall provide a projection below the liquid surface. [District Rule 4623, 5.5.2.4.1] Federally Enforceable Through Title V Permit
17. The gap between the pole wiper and the slotted guidepole shall not exceed 1/8 inch. [District Rule 4623, 5.5.2.4.3] Federally Enforceable Through Title V Permit
18. The permittee shall notify the District in writing at least 30 days prior to conduct the visual inspection of the storage vessel, so the District can arrange an observer. [40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
19. For newly constructed, repaired, or rebuilt internal floating roof tanks, the permittee shall visually inspect the internal floating roof, and its appurtenant parts, fittings, etc. and measure the gaps of the primary seal and/or secondary seal prior to filling the tank. If holes, tears, or openings in the primary seal, the secondary seal, the seal fabric or defects in the internal floating roof or its appurtenant parts, components, fittings, etc., are found, they shall be repaired prior to filling the tank. [District Rule 4623, 6.1.4.1, 40 CFR 60.113b(a)(1) and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
20. The owner or operator shall perform a monthly leak inspection of all equipment in gasoline service, as defined in section 63.11100. For this inspection, detection methods incorporating sight, sound, and smell are acceptable. [40 CFR Part 63.11089(a)] Federally Enforceable Through Title V Permit
21. For monthly leak inspection, a log book shall be used and shall be signed by the owner or operator at the completion of each inspection. A section of the log book shall contain a list, summary description, or diagram(s) showing the location of all equipment in gasoline service at the facility. [40 CFR Part 63.11089(b)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

22. Each detection of a liquid or vapor leak shall be recorded in the log book. When a leak is detected, an initial attempt at repair shall be made as soon as practicable, but no later than 5 calendar days after the leak is detected. Repair or replacement of leaking equipment shall be completed within 15 calendar days after detection of each leak. Delay of repair of leaking equipment will be allowed if the repair is not feasible within 15 days. The owner or operator shall provide in the semiannual report the reason(s) why the repair was not feasible and the date each repair was completed. [40 CFR Part 63.11089(d)] Federally Enforceable Through Title V Permit
23. The owner or operator shall maintain a log book that contain the following information for a leak during during monthly inspection: 1.) equipment type and identification number; 2.) the nature of the leak (i.e. vapor or liquid) and the method of detection (i.e. sight, sound, or smell); 3.) the date the leak was detected and the date of each attempt to repair the leak; 4.) repair methods applied in each attempt to repair the leak; 5.) repair delayed and the reason for the delay if the leak is not repaired within 15 calendar days after discovery of the leak; 6) the expected date of successful repair of the leak if the leak is not repaired within 15 days; and 7.) the date of successful repair of the leak. [40 CFR 63.11089(g)] Federally Enforceable Through Title V Permit
24. The permittee shall visually inspect, through the manholes, roof hatches, or other opening on the fixed roof, the internal floating roof and its appurtenant parts, fittings, etc., and the primary seal and/or secondary seal at least once every 12 months after the tank is initially filled with an organic liquid. There should be no visible organic liquid on the roof, tank walls, or anywhere. Other than the gap criteria specified by this rule, no holes, tears, or other openings are allowed that would permit the escape of vapors. Any defects found are violations of this rule. [District Rule 4623, 6.1.4.2, 40 CFR 60.113b(a)(2) and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
25. If any failure (i.e. visible organic liquid on the internal floating roof, tank walls or anywhere, holes or tears in the seal fabric) is detected during 12 month visual inspection, the permittee shall repair the items or empty and remove the storage vessel from service within 45 days. If the detected failure cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the APCO in the inspection report. Such a request must document that alternate storage capacity is unavailable and specify a schedule of actions the company will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible. [40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
26. The permittee shall visually inspect the internal floating roof, the primary seal, the secondary seal, gaskets, slotted membranes and sleeve seals (if any) each time the vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10 percent open area, the owner or operator shall repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel. [40 CFR Part 63.11087(c)] Federally Enforceable Through Title V Permit
27. The permittee shall maintain records of all visual inspections required by this permit. Each record shall identify the storage vessel on which the inspection was performed, the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings). [40 CFR 60.115b(a)(2)] Federally Enforceable Through Title V Permit
28. The owner or operator shall report the number of equipment leaks not repaired within 15 days after detection in a semi-annual report. [40 CFR 63.11089(g)] Federally Enforceable Through Title V Permit
29. All covers, seals and lids covering openings in the roof used for sampling and gauging shall be inspected annually by the facility operator to ensure compliance with the provisions of this permit. If one or more of the components are found to leak during an annual inspection, the inspection frequency for that component type shall be changed from annual to quarterly. If none of the components of that type are subsequently found to be leaking during five consecutive inspections, the inspection frequency may be changed from quarterly to annual. Components located in inaccessible (over 15 feet above ground when access is required from the ground or over 6 feet away from a platform when access is required from the platform) locations shall be inspected at least annually and components located in unsafe areas shall be inspected and repaired upon detection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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30. The operator shall determine the presence of gas leaks using portable hydrocarbon detection instrument in accordance with EPA Method 21. The instrument shall be calibrated before use each day of its use by the procedures specified in Method 21 using the following calibration gases: 1.) Zero air (less than 10 ppm of hydrocarbon in air); and 2.) A mixture of methane or n-hexane and air at a concentration of about, but less than, 10,000 ppm methane or n-hexane. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
31. The operator shall maintain an inspection log containing the following: 1.) Type of component leaking; 2.) Date of leak detection, and method of detection; 3.) Date and emission level of recheck after leak is repaired. Leaks over 10,000 ppmv shall be reported as a deviation. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
32. The permittee shall conduct actual gap measurements of the primary seal and/or secondary seal at least once every 60 months. Other than the gap criteria specified by this permit, no holes, tears, or other openings are allowed that would permit the escape of hydrocarbon vapors. Any defects found shall constitute a violation of this permit. [District Rule 4623, 6.1.4.3 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
33. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid whenever there is a change in the source or type of organic liquid stored in this tank. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
34. As used in this permit, the term "source or type" shall mean liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids stored in this unit to determine which are from common source. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
35. Operator shall maintain a record showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. The record shall be maintained for the life of the vessel. [40 CFR 60.116b(b)] Federally Enforceable Through Title V Permit
36. The operator shall keep a record of the liquids stored in this container, the period of storage, and the maximum true vapor pressure (TVP) of that liquid during the respective storage period. [40 CFR 60.116b(c)] Federally Enforceable Through Title V Permit
37. Operator of each storage vessel, either with a design capacity greater than or equal to 151 m³ storing a liquid with a maximum true vapor pressure that is normally less than 0.75 psia or with a design capacity greater than or equal to 75 m³ but less than 151 m³ storing a liquid with a maximum true vapor pressure normally less than 4.0 psia, shall notify the APCO within 30 days when the maximum true vapor pressure of the liquid exceeds the respective maximum true vapor pressure values for each volume range. [40CFR 60.116b(d)] Federally Enforceable Through Title V Permit
38. For storage vessels operated above or below ambient temperatures, the operator shall calculate the maximum true vapor pressure based upon the highest expected calendar-month average of the storage temperature. For vessels operated at ambient temperatures, the maximum true vapor pressure is calculated based upon the maximum local monthly average ambient temperature as reported by the National Weather Service. [40 CFR 60.116b(e)(1)] Federally Enforceable Through Title V Permit
39. The permittee shall determine the maximum true vapor pressure of the stored organic liquid on a monthly basis, using the calculation methodology listed in Appendix B of District Rule 4623. The permittee shall keep a record of all Reid vapor pressure measurements for the stored organic liquid and shall use the highest recorded Reid vapor pressure of the month when determining the maximum true vapor pressure. The permittee shall keep a record of the actual storage temperature of the organic storage tank and shall use the highest temperature recorded of the month when determining the maximum true vapor pressure. [District Rule 4623 and 40 CFR 60.116b(e)(2)(i)] Federally Enforceable Through Title V Permit
40. Operator shall determine the true vapor pressure of each type of crude oil with a Reid vapor pressure less than 2.0 psia or whose physical properties preclude determination by the recommended method from available data and record if the true vapor pressure is greater than 0.5 psia. [40 CFR 60.116b(e)(2)(ii)] Federally Enforceable Through Title V Permit
41. Operator shall determine the true vapor pressure of each volatile organic liquid (VOL), other than crude oil or refined petroleum products, from standard reference texts, by ASTM Method D2879, or by using an appropriate method approved by EPA. [40 CFR 60.116b(e)(3)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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42. Operator of a tank storing a waste mixture of indeterminate or variable composition shall determine the highest maximum true vapor pressure for the range of liquid compositions to be stored prior to the initial filling, using methods specified for maximum true vapor pressure in this permit. [40CFR 60.116b(f)] Federally Enforceable Through Title V Permit
43. The permittee shall submit the reports of the floating roof tank inspections to the APCO within five calendar days after the completion of the inspection only for those tanks that failed to meet the applicable requirements of Rule 4623, Sections 5.2 through 5.5. The inspection report for tanks that have been determined to be in compliance with the requirements of Sections 5.2 through 5.5 need not be submitted to the APCO, but the inspection report shall be kept on-site and made available upon request by the APCO. The inspection report shall contain all necessary information to demonstrate compliance with the provisions of this rule, including the following: 1.) Date of inspection and names and titles of company personnel doing the inspection; 2.) Tank identification number and Permit to Operate number; 3.) Measurements of the gaps between the tank shell and primary and secondary seals; 4.) Leak-free status of the tank and floating roof deck fittings. Records of the leak-free status shall include the vapor concentration values measured in ppmv. 5.) Data, supported by calculations, demonstrating compliance with the requirements specified in Sections 5.3, 5.4, 5.5.2.3.3, 5.5.2.4.2, and 5.5.2.4.3 of Rule 4623. 6.) Any corrective actions or repairs performed on the tank in order to comply with Rule 4623 and the date(s) such actions were taken. [District Rule 4623, 6.3.5, 40 CFR 60.115b(a)(3) and 40 CFR 63.11087(e)] Federally Enforceable Through Title V Permit
44. The permittee shall maintain the records of the internal floating roof landing activities that are performed pursuant to Rule 4623, Sections 5.3.1.3 and 5.4.3. The records shall include information on the true vapor pressure (TVP), API gravity, storage temperature, type of organic liquid stored in the tank, the purpose of landing the roof on its legs, the date of roof landing, duration the roof was on its legs, the level or height at which the tank roof was set to land on its legs, and the lowest liquid level in the tank. [District Rule 4623, 6.3.7] Federally Enforceable Through Title V Permit
45. The following test methods shall be used: ASTM Method D287 for determining API Gravity, ASTM Method D4057 sampling for API Gravity testing; ASTM D323 for determining RVP, and converting RVP to TVP at the tank's maximum organic liquid storage temperature; ARB Method 422 for determining exempt halogenated VOCs in gases; EPA Method 21 for measuring gas-leak concentration. Should the owner or operator wish to use test methods other than the ones mentioned in this condition, the methods must be approved by the District prior to its use. [District Rule 4623, 6.4] Federally Enforceable Through Title V Permit
46. The operator shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rules 4623, 6.3 and 2520, 9.4.2] Federally Enforceable Through Title V Permit
47. At least 95% of all hydrocarbon vapors generated during the storage and the working of the storage tank shall be prevented from entrainment into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
48. The internal floating roof supports, manholes, automatic bleeder vents, rim vents, gauge wells, etc., shall be covered with foam seal in a manner which prevents any gap. [District NSR Rule] Federally Enforceable Through Title V Permit
49. The internal floating roof shall be in direct contact with the liquid surface in a manner which prevents any vapor space below the internal roof. [District NSR Rule] Federally Enforceable Through Title V Permit
50. VOC emissions from tanks N-829-7, '-17, '-18, and '-22 shall not exceed 165 pounds per day. [District NSR Rule] Federally Enforceable Through Title V Permit
51. The permittee shall notify the District for an inspection prior to the filling of the tank with liquid in a manner which allows for unobstructed inspection of the seals from above and below the internal roof. [District NSR Rule] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-829-28-6

EXPIRATION DATE: 11/30/2020

EQUIPMENT DESCRIPTION:

3,360,000 GALLON WELDED INTERNAL FLOATING ROOF STORAGE TANK (#80001) WITH A MECHANICAL SHOE PRIMARY SEAL, A WIPER SECONDARY SEAL AND A SLOTTED GUIDEPOLE

PERMIT UNIT REQUIREMENTS

1. True vapor pressure of the organic liquid stored shall be less than 11 psia. [District Rule 4623, 5.1.1] Federally Enforceable Through Title V Permit
2. The tank shall be equipped with a floating roof consisting of a pan type that is installed before December 20, 2001, pontoon-type, or double-deck type cover, that rests on the surface of the liquid contents and is equipped with a closure device between the tank shell and roof edge consisting of a primary seal and a secondary seal. [District Rule 4623, 5.3.1.1 and 5.3.1.2, 40 CFR 60.112a(2) and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
3. The floating roof shall be floating on the surface of the stored liquid at all times (i.e., off the roof leg supports) except during the initial fill until the roof is lifted off the leg supports and when the tank is completely emptied and subsequently refilled. When the roof is resting on the leg supports the processes of filling or emptying and refilling the tank shall be continuous and shall be accomplished as rapidly as possible. Whenever the permittee intends to land the roof on its legs, the permittee shall notify the APCO in writing at least five calendar days prior to performing the work. The tank must be in compliance with this rule before it may land the roof on its legs. [District Rule 4623, 5.3.1.3 and 5.4.3, 40 CFR 60.112a(2) and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
4. Gaps between the tank shell and the primary seal shall not exceed 1 1/2 inches. [District Rule 4623, 5.3.2.1.1 and 5.4.1] Federally Enforceable Through Title V Permit
5. The cumulative length of all gaps between the tank shell and the primary seal greater than 1/2 inch shall not exceed 10% of the circumference of the tank. [District Rule 4623, 5.3.2.1.1 and 5.4.1] Federally Enforceable Through Title V Permit
6. The cumulative length of all primary seal gaps greater than 1/8 inch shall not exceed 30% of the circumference of the tank. [District Rule 4623, 5.3.2.1.1 and 5.4.1] Federally Enforceable Through Title V Permit
7. No continuous gap in the primary seal greater than 1/8 inch wide shall exceed 10% of the tank circumference. [District Rule 4623, 5.3.2.1.1 and 5.4.1] Federally Enforceable Through Title V Permit
8. No gap between the tank shell and the secondary seal shall exceed 1/2 inch. [District Rule 4623, 5.3.2.1.2 and 5.4.1] Federally Enforceable Through Title V Permit
9. The cumulative length of all gaps between the tank shell and the secondary seal, greater than 1/8 inch shall not exceed 5% of the tank circumference. [District Rule 4623, 5.3.2.1.2 and 5.4.1] Federally Enforceable Through Title V Permit
10. The metallic shoe-type seal shall be installed so that one end of the shoe extends into the stored liquid and the other end extends a minimum vertical distance of 18 inches above the stored liquid surface. [District Rule 4623, 5.3.2.1.3 and 5.4.1] Federally Enforceable Through Title V Permit
11. The geometry of the metallic-shoe type seal shall be such that the maximum gap between the shoe and the tank shell shall be no greater than 3 inches for a length of at least 18 inches in the vertical plane above the liquid. [District Rule 4623, 5.3.2.1.4 and 5.4.1] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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12. There shall be no holes, tears, or openings in the secondary seal or in the primary seal envelope that surrounds the annular vapor space enclosed by the roof edge, seal fabric, and secondary seal. [District Rule 4623, 5.3.2.1.5 and 5.4.1] Federally Enforceable Through Title V Permit
13. The secondary seal shall allow easy insertion of probes of up to 1 1/2 inches in width in order to measure gaps in the primary seal. [District Rule 4623, 5.3.2.1.6 and 5.4.1] Federally Enforceable Through Title V Permit
14. The secondary seal shall extend from the roof to the tank shell and shall not be attached to the primary seal. [District Rule 4623, 5.3.2.1.7 and 5.4.1] Federally Enforceable Through Title V Permit
15. All openings in the roof used for sampling and gauging shall provide a projection below the liquid surface to prevent belching of liquid and to prevent entrained or formed organic vapor from escaping from the liquid contents of the tank and shall be equipped with a cover, seal or lid that shall be in a closed position at all times, with no visible gaps and be leak-free, except when the device or appurtenance is in use for sampling and gauging. [District Rule 4623, 5.5.2.1.2] Federally Enforceable Through Title V Permit
16. A leak-free condition is defined as a condition without a gas leak or a liquid leak. A gas leak is defined as a reading in excess of 10,000 parts per million by volume (ppmv), as methane, above background on a portable hydrocarbon detection instrument that is calibrated with methane in accordance with the procedures specified in EPA Method 21. Liquid leak is defined as the dripping of organic liquid at a rate of more than 3 drops per minute. A reading in excess to 10,000 ppmv, as methane, above background, or dripping of organic liquid at a rate of more than 3 drops per minute, is a violation of this permit and Rule 4623 and shall be reported as a deviation. [District Rule 4623, 3.11, 3.17, 3.18 and 6.4.8] Federally Enforceable Through Title V Permit
17. Each opening in a non-contact internal floating roof, except for automatic bleeder vents (vacuum breaker vents) and rim space vents, shall provide a projection below the liquid surface. [District Rule 4623, 5.5.2.1.1 and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
18. Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, combination manway/vacuum breakers, 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. [District Rule 4623, 5.5.2.1.2] Federally Enforceable Through Title V Permit
19. Automatic bleeder vents shall be equipped with a gasket and shall 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. [District Rule 4623, 5.5.2.1.3] Federally Enforceable Through Title V Permit
20. Rim 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. [District Rule 4623, 5.5.2.1.4] Federally Enforceable Through Title V Permit
21. Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The well shall have a slit fabric cover that covers at least 90% of the opening. The fabric cover must be impermeable. [District Rule 4623, 5.5.2.1.5] Federally Enforceable Through Title V Permit
22. Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover. The fabric sleeve must be impermeable. [District Rule 4623, 5.5.2.1.6] Federally Enforceable Through Title V Permit
23. All slotted sampling or gauging wells, and similar fixed projections through the floating roof shall provide a projection below the liquid surface. [District Rule 4623, 5.5.2.4.1] Federally Enforceable Through Title V Permit
24. The gap between the pole wiper and the slotted guidepole shall be added to the gaps measured to determine compliance with the secondary seal requirement, and in no case shall not exceed 1/8 inch. [District Rule 4623, 5.5.2.4.3] Federally Enforceable Through Title V Permit
25. The permittee shall notify the District in writing at least 30 days prior to conduct the visual inspection of the storage vessel, so the District can arrange an observer. [40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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26. For newly constructed, repaired, or rebuilt internal floating roof tanks, the permittee shall visually inspect the internal floating roof, and its appurtenant parts, fittings, etc. and measure the gaps of the primary seal and/or secondary seal prior to filling the tank. If holes, tears, or openings in the primary seal, the secondary seal, the seal fabric or defects in the internal floating roof or its appurtenant parts, components, fittings, etc., are found, they shall be repaired prior to filling the tank. [District Rule 4623, 6.1.4.1 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
27. The owner or operator shall perform a monthly leak inspection of all equipment in gasoline service, as defined in section 63.11100. For this inspection, detection methods incorporating sight, sound, and smell are acceptable. [40 CFR Part 63.11089(a)] Federally Enforceable Through Title V Permit
28. For monthly leak inspection, a log book shall be used and shall be signed by the owner or operator at the completion of each inspection. A section of the log book shall contain a list, summary description, or diagram(s) showing the location of all equipment in gasoline service at the facility. [40 CFR Part 63.11089(b)] Federally Enforceable Through Title V Permit
29. Each detection of a liquid or vapor leak shall be recorded in the log book. When a leak is detected, an initial attempt at repair shall be made as soon as practicable, but no later than 5 calendar days after the leak is detected. Repair or replacement of leaking equipment shall be completed within 15 calendar days after detection of each leak. Delay of repair of leaking equipment will be allowed if the repair is not feasible within 15 days. The owner or operator shall provide in the semiannual report the reason(s) why the repair was not feasible and the date each repair was completed. [40 CFR Part 63.11089(d)] Federally Enforceable Through Title V Permit
30. The owner or operator shall maintain a log book that contain the following information for a leak during during monthly inspection: 1.) equipment type and identification number; 2.) the nature of the leak (i.e. vapor or liquid) and the method of detection (i.e. sight, sound, or smell); 3.) the date the leak was detected and the date of each attempt to repair the leak; 4.) repair methods applied in each attempt to repair the leak; 5.) repair delayed and the reason for the delay if the leak is not repaired within 15 calendar days after discovery of the leak; 6) the expected date of successful repair of the leak if the leak is not repaired within 15 days; and 7.) the date of successful repair of the leak. [40 CFR 63.11089(g)] Federally Enforceable Through Title V Permit
31. The permittee shall visually inspect, through the manholes, roof hatches, or other opening on the fixed roof, the internal floating roof and its appurtenant parts, fittings, etc., and the primary seal and/or secondary seal at least once every 12 months after the tank is initially filled with an organic liquid. There should be no visible organic liquid on the roof, tank walls, or anywhere. Other than the gap criteria specified by this rule, no holes, tears, or other openings are allowed that would permit the escape of vapors. Any defects found are violations of this rule. [District Rule 4623, 6.1.4.2 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
32. If any failure (i.e. visible organic liquid on the internal floating roof, tank walls or anywhere, holes or tears in the seal fabric) is detected during 12 month visual inspection, the permittee shall repair the items or empty and remove the storage vessel from service within 45 days. If the detected failure cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the APCO in the inspection report. Such a request must document that alternate storage capacity is unavailable and specify a schedule of actions the company will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible. [40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
33. The permittee shall visually inspect the internal floating roof, the primary seal, the secondary seal, gaskets, slotted membranes and sleeve seals (if any) each time the vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10 percent open area, the owner or operator shall repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel. [40 CFR Part 63.11087(c)] Federally Enforceable Through Title V Permit
34. The owner or operator shall report the number of equipment leaks not repaired within 15 days after detection in a semi-annual report. [40 CFR 63.11089(g)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

35. All covers, seals and lids covering openings in the roof used for sampling and gauging shall be inspected annually by the facility operator to ensure compliance with the provisions of this permit. If one or more of the components are found to leak during an annual inspection, the inspection frequency for that component type shall be changed from annual to quarterly. If none of the components of that type are subsequently found to be leaking during five consecutive inspections, the inspection frequency may be changed from quarterly to annual. Components located in inaccessible (over 15 feet above ground when access is required from the ground or over 6 feet away from a platform when access is required from the platform) locations shall be inspected at least annually and components located in unsafe areas shall be inspected and repaired upon detection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
36. The operator shall determine the presence of gas leaks using portable hydrocarbon detection instrument in accordance with EPA Method 21. The instrument shall be calibrated before use each day of its use by the procedures specified in Method 21 using the following calibration gases: 1.) Zero air (less than 10 ppm of hydrocarbon in air); and 2.) A mixture of methane or n-hexane and air at a concentration of about, but less than, 10,000 ppm methane or n-hexane. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
37. The operator shall maintain an inspection log containing the following: 1.) Type of component leaking; 2.) Date of leak detection, and method of detection; 3.) Date and emission level of recheck after leak is repaired. Leaks over 10,000 ppmv shall be reported as a deviation. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
38. The permittee shall conduct actual gap measurements of the primary seal and/or secondary seal at least once every 60 months. Other than the gap criteria specified by this permit, no holes, tears, or other openings are allowed that would permit the escape of hydrocarbon vapors. Any defects found shall constitute a violation of this permit. [District Rule 4623, 6.1.4.3 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
39. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid whenever there is a change in the source or type of organic liquid stored in this tank. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
40. As used in this permit, the term "source or type" shall mean liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids stored in this unit to determine which are from common source. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
41. The operator shall keep a record of liquids stored in each container, period of storage, and the maximum true vapor pressure of the liquid during the respective storage period. [40 CFR 60.115a(a)] Federally Enforceable Through Title V Permit
42. The permittee shall determine the maximum true vapor pressure of the stored organic liquid on a monthly basis, using the calculation methodology listed in Appendix B of District Rule 4623. The permittee shall keep a record of all reid vapor pressure measurements for the stored organic liquid and shall use the highest recorded reid vapor pressure of the month when determining the maximum true vapor pressure. The permittee shall keep a record of the actual storage temperature of the organic storage tank and shall use the highest temperature recorded of the month when determining the maximum true vapor pressure. [District Rule 4623 and 40 CFR 60.115a(b)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

43. The permittee shall submit the reports of the floating roof tank inspections to the APCO within five calendar days after the completion of the inspection only for those tanks that failed to meet the applicable requirements of Rule 4623, Sections 5.2 through 5.5. The inspection report for tanks that have been determined to be in compliance with the requirements of Sections 5.2 through 5.5 need not be submitted to the APCO, but the inspection report shall be kept on-site and made available upon request by the APCO. The inspection report shall contain all necessary information to demonstrate compliance with the provisions of this rule, including the following: 1.) Date of inspection and names and titles of company personnel doing the inspection; 2.) Tank identification number and Permit to Operate number; 3.) Measurements of the gaps between the tank shell and primary and secondary seals; 4.) Leak-free status of the tank and floating roof deck fittings. Records of the leak-free status shall include the vapor concentration values measured in ppmv. 5.) Data, supported by calculations, demonstrating compliance with the requirements specified in Sections 5.3, 5.4, 5.5.2.3.3, 5.5.2.4.2, and 5.5.2.4.3 of Rule 4623. 6.) Any corrective actions or repairs performed on the tank in order to comply with Rule 4623 and the date(s) such actions were taken. [District Rule 4623, 6.3.5 and 40 CFR 63.11087(e)] Federally Enforceable Through Title V Permit
44. The permittee shall maintain the records of the internal floating roof landing activities that are performed pursuant to Rule 4623, Sections 5.3.1.3 and 5.4.3. The records shall include information on the true vapor pressure (TVP), API gravity, storage temperature, type of organic liquid stored in the tank, the purpose of landing the roof on its legs, the date of roof landing, duration the roof was on its legs, the level or height at which the tank roof was set to land on its legs, and the lowest liquid level in the tank. [District Rule 4623, 6.3.7] Federally Enforceable Through Title V Permit
45. The following test methods shall be used: ASTM Method D287 for determining API Gravity, ASTM Method D4057 sampling for API Gravity testing; ASTM D323 for determining RVP, and converting RVP to TVP at the tank's maximum organic liquid storage temperature; ARB Method 422 for determining exempt halogenated VOCs in gases; EPA Method 21 for measuring gas-leak concentration. Should the owner or operator wish to use test methods other than the ones mentioned in this condition, the methods must be approved by the District prior to its use. [District Rule 4623, 6.4] Federally Enforceable Through Title V Permit
46. The operator shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rules 4623, 6.3 and 2520, 9.4.2] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-829-29-7

EXPIRATION DATE: 11/30/2020

EQUIPMENT DESCRIPTION:

3,360,000 GALLON WELDED EXTERNAL FLOATING ROOF STORAGE TANK (#80002) WITH A MECHANICAL SHOE PRIMARY SEAL, A WIPER SECONDARY SEAL AND A SLOTTED GUIDEPOLE

PERMIT UNIT REQUIREMENTS

1. True vapor pressure of the organic liquid stored shall be less than 11 psia. [District Rule 4623, 5.1.1] Federally Enforceable Through Title V Permit
2. The tank shall be equipped with a floating roof consisting of a pan type that was installed before December 20, 2001, pontoon-type or double-deck-type cover which rests upon the surface of the liquid being stored and is equipped with a closure device between the tank shell and roof edge consisting of a primary and a secondary seal. [District Rule 4623, 5.3.1.1 and 5.3.1.2, 40 CFR 60.112a(a)(1) and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
3. Roof shall be floating on the liquid (i.e., off the roof leg supports) at all times except during initial fill and when tank is completely emptied and subsequently refilled. The process of emptying and refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Whenever the permittee intends to land the roof on its legs, the permittee shall notify the APCO in writing at least five calendar days prior to performing the work. The tank must be in compliance with this rule before it may land on its legs. [District Rule 4623, 5.3.1.3, 40 CFR 60.112a(a)(1) and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
4. Primary seal (lower seal) shall be a metallic shoe seal, a liquid-mounted seal, or a vapor-mounted seal. [40 CFR 60.112a(a)(1)(i) and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
5. Accumulated area of gaps between tank wall and primary seal shall not exceed: 1) 10.0 in² per foot of tank diameter and the width of any portion of any gap shall not exceed 1-1/2 inch, for a metallic shoe seal or a liquid-mounted seal; 2) 1.0 in² per foot of tank diameter and the width of any portion of any gap shall not exceed 1/2 inch for a vapor mounted seal. [40 CFR 60.112a(a)(1)(i)(A) & (B), District Rule 4623, 5.3.2.1.1 and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
6. The cumulative length of all gaps between the tank shell and the primary seal: 1) Greater than one-half (1/2) inch shall not exceed 10 percent of the circumference of the tank; and 2) Greater than one-eighth (1/8) inch shall not exceed 30 percent of the circumference of the tank. [District Rule 4623, 5.3.2.1.1] Federally Enforceable Through Title V Permit
7. No continuous gap in the primary seal greater than 1/8 inch wide shall exceed 10% of the tank circumference. [District Rule 4623, 5.3.2.1.1] Federally Enforceable Through Title V Permit
8. If the secondary seal is used in combination with a metallic shoe or liquid-mounted primary seal, accumulated area of gaps between tank wall and the secondary seal shall not exceed 1.0 in² per foot of tank diameter and the width of any portion of any gap shall not exceed 1/2 inch. [District Rule 4623, 5.3.2.1.2, 40 CFR 60.112a(a)(1)(i)(B) and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
9. The cumulative length of all gaps between the tank shell and the secondary seal, greater than 1/8 inch shall not exceed 5% of the tank circumference. [District Rule 4623, 5.3.2.1.2] Federally Enforceable Through Title V Permit
10. The metallic shoe-type seal shall be installed so that one end of the shoe extends into the stored liquid and the other end extends a minimum vertical distance of 24 inches above the stored liquid surface. [District Rule 4623, 5.3.2.1.3, 40 CFR 60.112a(a)(1)(i)(C) and 40 CFR Part 63.11087(c)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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11. The geometry of the metallic-shoe type seal shall be such that the maximum gap between the shoe and the tank shell shall be no greater than 3 inches for a length of at least 18 inches in the vertical plane above the liquid. [District Rule 4623, 5.3.2.1.4] Federally Enforceable Through Title V Permit
12. There shall be no holes, tears, or openings in the secondary seal or in the primary seal envelope that surrounds the annular vapor space enclosed by the roof edge, seal fabric, and secondary seal. [District Rule 4623, 5.3.2.1.5, 40 CFR 60.112a(a)(1)(i)(D), and 40 CFR 60.112a(a)(1)(ii)(B)] Federally Enforceable Through Title V Permit
13. The secondary seal shall allow easy insertion of probes of up to 1 1/2 inches in width in order to measure gaps in the primary seal. [District Rule 4623, 5.3.2.1.6] Federally Enforceable Through Title V Permit
14. The secondary seal shall extend from the roof to the tank shell and shall not be attached to the primary seal. [District Rule 4623, 5.3.2.1.7] Federally Enforceable Through Title V Permit
15. All openings in the roof used for sampling and gauging shall provide a projection below the liquid surface to prevent belching of liquid and to prevent entrained or formed organic vapor from escaping from the liquid contents of the tank and shall be equipped with a cover, seal or lid that shall be in a closed position at all times, with no visible gaps and be leak-free, except when the device or appurtenance is in use. [District Rule 4623, 5.5.1 and 40 CFR 60.112a(a)(1)(iii)] Federally Enforceable Through Title V Permit
16. A leak-free condition is defined as a condition without a gas leak or a liquid leak. A gas leak is defined as a reading in excess of 10,000 parts per million by volume (ppmv), as methane, above background on a portable hydrocarbon detection instrument that is calibrated with methane in accordance with the procedures specified in EPA Method 21. Liquid leak is defined as the dripping of organic liquid at a rate of more than 3 drops per minute. A reading in excess to 10,000 ppmv, as methane, above background, or dripping of organic liquid at a rate of more than 3 drops per minute, is a violation of this permit and Rule 4623 and shall be reported as a deviation. [District Rule 4623, 3.11, 3.17, 3.18 and 6.4.8] Federally Enforceable Through Title V Permit
17. Each opening in the roof, except for automatic bleeder vents, rim vents, and pressure relief vents, in a non-contact external floating roof shall provide a projection below the liquid surface. [District Rule 4623, 5.5.2.2.1, 40 CFR 60.112a(a)(1)(iii)] Federally Enforceable Through Title V Permit
18. Except for automatic bleeder vents and rim vents, roof drains, and leg sleeves, each opening in the roof shall be equipped with a gasketed cover, seal, or lid that shall be maintained in a closed position at all times (i.e., no visible gap) except when in actual use. [District Rule 4623, 5.5.2.2.2] Federally Enforceable Through Title V Permit
19. Automatic bleeder vents shall be equipped with a gasket and shall 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. [District Rule 4623, 5.5.2.2.3 and 40 CFR 60.112a(a)(1)(iii)] Federally Enforceable Through Title V Permit
20. Rim vents shall be equipped with a gasket and shall be set to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. [District Rule 4623, 5.5.2.2.4 and 40 CFR 60.112a(a)(1)(iii)] Federally Enforceable Through Title V Permit
21. Each emergency roof drain shall be provided with a slotted membrane fabric cover that covers at least 90 percent of the area of the opening. The fabric cover must be impermeable if the liquid is drained into the contents of the tanks. [District Rule 4623, 5.5.2.2.5 and 40 CFR 60.112a(a)(1)(iv)] Federally Enforceable Through Title V Permit
22. External floating roof legs shall be equipped with vapor socks or vapor barriers in order to maintain a leak-free condition so as to prevent VOC emissions from escaping through the roof leg opening. [District Rule 4623, 5.5.2.2.6] Federally Enforceable Through Title V Permit
23. All slotted sampling and gauging wells and similar fixed projections through the floating roof shall provide a projection below the liquid surface. [District Rule 4623, 5.5.2.4.1] Federally Enforceable Through Title V Permit
24. The slotted guidepole well on the external floating roof shall be equipped with the following: a sliding cover, a well gasket, a pole sleeve, a pole wiper, and an internal float and float wiper designed to minimize the gap between the float and the well, and provided the gap shall not exceed 1/8 inch; or shall be equipped with a well gasket, a zero gap pole wiper seal and a pole sleeve that projects below the liquid surface. [District Rule 4623, 5.5.2.4.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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25. The gap between the pole wiper and the slotted guidepole shall be added to the gaps measured to determine compliance with the secondary seal requirement, and in no case shall exceed 1/8 inch. [District Rule 4623, 5.5.2.4.3] Federally Enforceable Through Title V Permit
26. The permittee shall make the primary seal envelope available for unobstructed inspection by the APCO on an annual basis at locations selected along its circumference at random by the APCO. A minimum of eight locations shall be made available; in all other cases, a minimum of four locations shall be made available. If the APCO suspects a violation may exist the APCO may require such further unobstructed inspection of the primary seal as may be necessary to determine the seal condition for its entire circumference. [District Rule 4623, 6.1.1] Federally Enforceable Through Title V Permit
27. The operator shall perform gap measurements on primary and secondary seals within 60 days of the initial fill with petroleum liquid and at least once every year thereafter to determine compliance with the requirements of Rule 4623. The actual gap measurements of the floating roof primary and secondary seals shall be recorded. The inspection results shall be submitted to the APCO as specified in Section 6.3.5. [District Rule 4623, 6.1.3.1, 40 CFR 60.113a(a)(1)(i)(B) and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
28. If unit is out of service for a period of one year or more, subsequent refilling with volatile organic liquid (VOL) shall be considered initial fill in accordance with the conditions of this permit. [40 CFR 60.113a(a)(1)(i)(C) and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
29. The permittee shall inspect the primary and secondary seals for compliance with the requirements of Rule 4623 every time this tank is emptied or degassed. Actual gap measurements shall be performed when the liquid level is static but not more than 24 hours after the tank roof is re-floated. [District Rule 4623, 6.1.3.2] Federally Enforceable Through Title V Permit
30. If primary or secondary seal gap width/accumulated area and minimum vertical distance for one end of the mechanical shoe do not meet the requirements in this permit during 12 month inspection, the permittee shall repair the items or empty and remove the storage vessel from service within 45 days. If the detected failure cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the APCO in the inspection report. Such a request must document that alternate storage capacity is unavailable and specify a schedule of actions the company will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible. [40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
31. The owner or operator shall visually inspect the external floating roof, the primary seal, secondary seal, and fittings each time the vessel is emptied and degassed. If the external floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, the owner or operator shall repair the items as necessary so that none of the conditions specified mentioned in this condition exist before filling or refilling the storage vessel. [40 CFR 60.11087(c)] Federally Enforceable Through Title V Permit
32. The owner or operator shall perform a monthly leak inspection of all equipment in gasoline service, as defined in section 63.11100. For this inspection, detection methods incorporating sight, sound, and smell are acceptable. [40 CFR Part 63.11089(a)] Federally Enforceable Through Title V Permit
33. For monthly leak inspection, a log book shall be used and shall be signed by the owner or operator at the completion of each inspection. A section of the log book shall contain a list, summary description, or diagram(s) showing the location of all equipment in gasoline service at the facility. [40 CFR Part 63.11089(b)] Federally Enforceable Through Title V Permit
34. Each detection of a liquid or vapor leak shall be recorded in the log book. When a leak is detected, an initial attempt at repair shall be made as soon as practicable, but no later than 5 calendar days after the leak is detected. Repair or replacement of leaking equipment shall be completed within 15 calendar days after detection of each leak. Delay of repair of leaking equipment will be allowed if the repair is not feasible within 15 days. The owner or operator shall provide in the semiannual report the reason(s) why the repair was not feasible and the date each repair was completed. [40 CFR Part 63.11089(d)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

35. The owner or operator shall maintain a log book that contain the following information for a leak during during monthly inspection: 1.) equipment type and identification number; 2.) the nature of the leak (i.e. vapor or liquid) and the method of detection (i.e. sight, sound, or smell); 3.) the date the leak was detected and the date of each attempt to repair the leak; 4.) repair methods applied in each attempt to repair the leak; 5.) repair delayed and the reason for the delay if the leak is not repaired within 15 calendar days after discovery of the leak; 6) the expected date of successful repair of the leak if the leak is not repaired within 15 days; and 7.) the date of successful repair of the leak. [40 CFR 63.11089(g)] Federally Enforceable Through Title V Permit
36. The owner or operator shall report the number of equipment leaks not repaired within 15 days after detection in a semi-annual report. [40 CFR 63.11089(g)] Federally Enforceable Through Title V Permit
37. All covers, seals and lids covering openings in the roof used for sampling and gauging shall be inspected annually by the facility operator to ensure compliance with the provisions of this permit. If one or more of the components are found to leak during an annual inspection, the inspection frequency for that component type shall be changed from annual to quarterly. If none of the components of that type are subsequently found to be leaking during five consecutive inspections, the inspection frequency may be changed from quarterly to annual. Components located in inaccessible (over 15 feet above ground when access is required from the ground or over 6 feet away from a platform when access is required from the platform) locations shall be inspected at least annually and components located in unsafe areas shall be inspected and repaired upon detection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
38. The operator shall determine the presence of gas leaks using portable hydrocarbon detection instrument in accordance with EPA Method 21. The instrument shall be calibrated before use each day of its use by the procedures specified in Method 21 using the following calibration gases: 1.) Zero air (less than 10 ppm of hydrocarbon in air); and 2.) A mixture of methane or n-hexane and air at a concentration of about, but less than, 10,000 ppm methane or n-hexane. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
39. The operator shall maintain an inspection log containing the following: 1.) Type of component leaking; 2.) Date of leak detection, and method of detection; 3.) Date and emission level of recheck after leak is repaired. Leaks over 10,000 ppmv shall be reported as a deviation. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
40. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid whenever there is a change in the source or type of organic liquid stored in this tank. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
41. As used in this permit, the term "source or type" shall mean liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids stored in this unit to determine which are from common source. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
42. Operator shall determine gap widths in the primary and secondary seals using the following procedure: 1) Measure seal gaps, at one or more floating roof levels when the roof is floating off leg supports; 2) Measure seal gaps around entire circumference of the tank in each place where a one-eighth (1/8) inch diameter uniform probe passes freely (without forcing or binding against seal) between the seal and the tank wall and measure the circumferential distance of each such location; 3), Total surface area of each gap shall be determined by using probes of various widths to accurately measure the actual distance from the tank wall to the seal and multiplying each such width by its respective circumferential distance; 4) Add the gap surface area of each gap location for the primary seal and the secondary seal individually. Divide the sum for each seal by the nominal diameter of the tank. [40 CFR 60.113a(a)(1)(ii) and (iii)] Federally Enforceable Through Title V Permit
43. Operator shall record the vessel on which the measurement was performed, date of the seal gap measurement, and raw data obtained in the measurement process in accordance with the conditions of this permit. [40 CFR 60.113a(a)(1)(i)(D) and 40 CFR 63.11087(e)] Federally Enforceable Through Title V Permit
44. The permittee shall notify the District in writing at least 30 days in advance of visual inspection or any gap measurement required by this permit, so the District can arrange an observer. [40 CFR 60.113a(a)(1)(iv) and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

45. If the accumulated area of gaps or gap width exceed limits, operator shall submit a report to the APCO within 30 days of the date of measurement. Report should include identification of the vessel, reason vessel did not meet the specifications, and a description of the actions necessary to bring the storage vessel into compliance. [40 CFR 60.113a(a)(1)(i)(E) and 40 CFR 63.11087(e)] Federally Enforceable Through Title V Permit
46. The operator shall keep a record of liquids stored in each container, period of storage, and the maximum true vapor pressure of the liquid during the respective storage period. [40 CFR 60.115a(a)] Federally Enforceable Through Title V Permit
47. The permittee shall determine the maximum true vapor pressure of the stored organic liquid on a monthly basis, using the calculation methodology listed in Appendix B of District Rule 4623. The permittee shall keep a record of all Reid vapor pressure measurements for the stored organic liquid and shall use the highest recorded Reid vapor pressure of the month when determining the maximum true vapor pressure. The permittee shall keep a record of the actual storage temperature of the organic storage tank and shall use the highest temperature recorded of the month when determining the maximum true vapor pressure. [Rule 4623 and 40 CFR 60.115a(b)] Federally Enforceable Through Title V Permit
48. The permittee shall submit the reports of the floating roof tank inspections to the APCO within five calendar days after the completion of the inspection only for those tanks that failed to meet the applicable requirements of Rule 4623, Sections 5.2 through 5.5. The inspection report for tanks that have been determined to be in compliance with the requirements of Sections 5.2 through 5.5 need not be submitted to the APCO, but the inspection report shall be kept on-site and made available upon request by the APCO. The inspection report shall contain all necessary information to demonstrate compliance with the provisions of this rule, including the following: 1.) Date of inspection and names and titles of company personnel doing the inspection; 2.) Tank identification number and Permit to Operate number; 3.) Measurements of the gaps between the tank shell and primary and secondary seals; 4.) Leak-free status of the tank and floating roof deck fittings. Records of the leak-free status shall include the vapor concentration values measured in ppmv. 5.) Data, supported by calculations, demonstrating compliance with the requirements specified in Sections 5.3, 5.4, 5.5.2.3.3, 5.5.2.4.2, and 5.5.2.4.3 of Rule 4623. 6.) Any corrective actions or repairs performed on the tank in order to comply with Rule 4623 and the date(s) such actions were taken. [District Rule 4623, 6.3.5] Federally Enforceable Through Title V Permit
49. The permittee shall maintain the records of the internal floating roof landing activities that are performed pursuant to Rule 4623, Sections 5.3.1.3 and 5.4.3. The records shall include information on the true vapor pressure (TVP), API gravity, storage temperature, type of organic liquid stored in the tank, the purpose of landing the roof on its legs, the date of roof landing, duration the roof was on its legs, the level or height at which the tank roof was set to land on its legs, and the lowest liquid level in the tank. [District Rule 4623, 6.3.7] Federally Enforceable Through Title V Permit
50. The following test methods shall be used: ASTM Method D287 for determining API Gravity, ASTM Method D4057 sampling for API Gravity testing; ASTM D323 for determining RVP, and converting RVP to TVP at the tank's maximum organic liquid storage temperature; ARB Method 422 for determining exempt halogenated VOCs in gases; EPA Method 21 for measuring gas-leak concentration. Should the owner or operator wish to use test methods other than the ones mentioned in this condition, the methods must be approved by the District prior to its use. [District Rule 4623, 6.4] Federally Enforceable Through Title V Permit
51. The operator shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rules 4623, 6.3 and 2520, 9.4.2] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-829-31-5

EXPIRATION DATE: 11/30/2020

EQUIPMENT DESCRIPTION:

1,386,000 GALLON WELDED INTERNAL FLOATING ROOF TANK (33007) WITH A MINI SHOE PRIMARY SEAL, A VAPORFLEX SECONDARY SEAL, AND A SLOTTED GUIDEPOLE

PERMIT UNIT REQUIREMENTS

1. Only denatured ethanol (97.5% or more by weight ethanol, 2.5% or less by weight gasoline) shall be stored in this tank. The permittee shall maintain sufficient records to demonstrate compliance with this condition. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
2. True vapor pressure (TVP) of the organic liquid stored in the tank shall not exceed 2.8 psia. [District Rule 2201] Federally Enforceable Through Title V Permit
3. VOC emissions shall not exceed 7.1 pounds in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The daily throughput of the organic liquid (not including diesel or other exempt liquids) shall not exceed 1,386,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The monthly throughput of the organic liquid (not including diesel or other exempt liquids) shall not exceed 5,544,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The permittee shall record TVP and the temperature of the organic liquid stored on monthly basis. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The floating roof shall be floating on the surface of the stored liquid at all times (i.e., off the roof leg supports) except during the initial fill until the roof is lifted off the leg supports and when the tank is completely emptied and subsequently refilled. When the roof is resting on the leg supports the processes of filling or emptying and refilling the tank shall be continuous and shall be accomplished as rapidly as possible. Whenever the permittee intends to land the roof on its legs, the permittee shall notify the APCO in writing at least five calendar days prior to performing the work. The tank must be in compliance with this rule before it may land the roof on its legs. [District Rule 4623, 5.4.3, 40 CFR 60.112b(a)(1)(i) and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
8. Gaps between the tank shell and the primary seal shall not exceed 1 1/2 inches. [District Rule 4623, 5.3.2.1.1 and 5.4.1] Federally Enforceable Through Title V Permit
9. The cumulative length of all gaps between the tank shell and the primary seal greater than 1/2 inch shall not exceed 10% of the circumference of the tank. [District Rule 4623, 5.3.2.1.1 and 5.4.1] Federally Enforceable Through Title V Permit
10. The cumulative length of all primary seal gaps greater than 1/8 inch shall not exceed 30% of the circumference of the tank. [District Rule 4623, 5.3.2.1.1 and 5.4.1] Federally Enforceable Through Title V Permit
11. No continuous gap in the primary seal greater than 1/8 inch wide shall exceed 10% of the tank circumference. [District Rule 4623, 5.3.2.1.1 and 5.4.1] Federally Enforceable Through Title V Permit
12. No gap between the tank shell and the secondary seal shall exceed 1/2 inch. [District Rule 4623, 5.3.2.1.2 and 5.4.1] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

13. The cumulative length of all gaps between the tank shell and the secondary seal, greater than 1/8 inch shall not exceed 5% of the tank circumference. [District Rule 4623, 5.3.2.1.2 and 5.4.1] Federally Enforceable Through Title V Permit
14. The metallic shoe-type seal shall be installed so that one end of the shoe extends into the stored liquid and the other end extends a minimum vertical distance of 18 inches above the stored liquid surface. [District Rule 4623, 5.3.2.1.3 and 5.4.1] Federally Enforceable Through Title V Permit
15. The geometry of the metallic-shoe type seal shall be such that the maximum gap between the shoe and the tank shell shall be no greater than 3 inches for a length of at least 18 inches in the vertical plane above the liquid. [District Rule 4623, 5.3.2.1.4 and 5.4.1] Federally Enforceable Through Title V Permit
16. There shall be no holes, tears, or openings in the secondary seal or in the primary seal envelope that surrounds the annular vapor space enclosed by the roof edge, seal fabric, and secondary seal. [District Rule 4623, 5.3.2.1.5 and 5.4.1] Federally Enforceable Through Title V Permit
17. The secondary seal shall allow easy insertion of probes of up to 1 1/2 inches in width in order to measure gaps in the primary seal. [District Rule 4623, 5.3.2.1.6 and 5.4.1] Federally Enforceable Through Title V Permit
18. The secondary seal shall extend from the roof to the tank shell and shall not be attached to the primary seal. [District Rule 4623, 5.3.2.1.7 and 5.4.1] Federally Enforceable Through Title V Permit
19. All openings in the roof used for sampling and gauging shall provide a projection below the liquid surface to prevent belching of liquid and to prevent entrained or formed organic vapor from escaping from the liquid contents of the tank and shall be equipped with a cover, seal or lid that shall be in a closed position at all times, with no visible gaps and be leak free, except when the device or appurtenance is in use for sampling and gauging. [District Rule 4623, 5.5.1] Federally Enforceable Through Title V Permit
20. A leak-free condition is defined as a condition without a gas leak or a liquid leak. A gas leak is defined as a reading in excess of 10,000 parts per million by volume (ppmv), as methane, above background on a portable hydrocarbon detection instrument that is calibrated with methane in accordance with the procedures specified in EPA Method 21. Liquid leak is defined as the dripping of organic liquid at a rate of more than 3 drops per minute. A reading in excess to 10,000 ppmv, as methane, above background, or dripping of organic liquid at a rate of more than 3 drops per minute, is a violation of this permit and Rule 4623 and shall be reported as a deviation. [District Rule 4623, 3.11, 3.17, 3.18 and 6.4.8] Federally Enforceable Through Title V Permit
21. Each opening in a non-contact internal floating roof except for automatic bleeder vents (vacuum breaker vents) and rim space vents shall provide a projection below the liquid surface. [District Rule 4623, 5.5.2.1.1, 40 CFR 60.112b(a)(1)(iii) and 40 CFR 63.11087(a)] Federally Enforceable Through Title V Permit
22. Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, combination manway/vacuum breakers, and stub drains shall be equipped with a cover, or a lid shall be maintained in a closed position at all times (i.e. no visible gaps) except when the device is in use. The cover or lid shall be equipped with a gasket. Covers on each access hatch and automatic gauge float well shall be bolted in place except when they are in use. [District Rule 4623, 5.5.2.1.2 and 40 CFR 60.112b(a)(1)(iv)] Federally Enforceable Through Title V Permit
23. Automatic bleeder vents shall be equipped with a gasket and shall be closed at all times when the roof is floating except when the roof is being floated off or is being landed on the leg roof supports. [District Rule 4623, 5.5.2.1.3 and 40 CFR 60.112b(a)(1)(v)] Federally Enforceable Through Title V Permit
24. Rim vents shall be equipped with a gasket and shall be set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting. [District Rule 4623, 5.5.2.1.4 and 40 CFR 60.112b(a)(1)(vi)]
25. Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The well shall have a slit fabric cover that covers at least 90 percent of the opening. The fabric cover must be impermeable. [District Rule 4623, 5.5.2.1.5 and 40 CFR 60.112b(a)(1)(vii)] Federally Enforceable Through Title V Permit
26. 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. The fabric sleeve must be impermeable. [District Rule 4623, 5.5.2.1.6 and 40 CFR 60.112b(a)(1)(viii)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

27. Each penetration of the internal floating roof that allows for the passage of a ladder shall have a gasketed sliding cover. [40 CFR 60.112b(a)(1)(ix)] Federally Enforceable Through Title V Permit
28. All slotted sampling or gauging wells, and similar fixed projections through the floating roof shall provide a projection below the liquid surface. [District Rule 4623, 5.5.2.4.1] Federally Enforceable Through Title V Permit
29. The gap between the pole wiper and the slotted guidepole shall be added to the gaps measured to determine compliance with the secondary seal requirement, and in no case shall not exceed 1/8 inch. [District Rule 4623, 5.5.2.4.3] Federally Enforceable Through Title V Permit
30. The permittee shall notify the District in writing at least 30 days prior to conduct the visual inspection of the storage vessel, so the District can arrange an observer. [40 CFR 60.113b(a)(5) and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
31. For newly constructed, repaired, or rebuilt internal floating roof tanks, the permittee shall visually inspect the internal floating roof, and its appurtenant parts, fittings, etc. and measure the gaps of the primary seal and/or secondary seal prior to filling the tank. If holes, tears, or openings in the primary seal, the secondary seal, the seal fabric or defects in the internal floating roof or its appurtenant parts, components, fittings, etc., are found, they shall be repaired prior to filling the tank. [District Rule 4623, 6.1.4.1, 40 CFR 60.113b(a)(1) and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
32. The owner or operator shall perform a monthly leak inspection of all equipment in gasoline service, as defined in section 63.11100. For this inspection, detection methods incorporating sight, sound, and smell are acceptable. [40 CFR Part 63.11089(a)] Federally Enforceable Through Title V Permit
33. For monthly leak inspection, a log book shall be used and shall be signed by the owner or operator at the completion of each inspection. A section of the log book shall contain a list, summary description, or diagram(s) showing the location of all equipment in gasoline service at the facility. [40 CFR Part 63.11089(b)] Federally Enforceable Through Title V Permit
34. Each detection of a liquid or vapor leak shall be recorded in the log book. When a leak is detected, an initial attempt at repair shall be made as soon as practicable, but no later than 5 calendar days after the leak is detected. Repair or replacement of leaking equipment shall be completed within 15 calendar days after detection of each leak. Delay of repair of leaking equipment will be allowed if the repair is not feasible within 15 days. The owner or operator shall provide in the semiannual report the reason(s) why the repair was not feasible and the date each repair was completed. [40 CFR Part 63.11089(d)] Federally Enforceable Through Title V Permit
35. The owner or operator shall maintain a log book that contain the following information for a leak during during monthly inspection: 1.) equipment type and identification number; 2.) the nature of the leak (i.e. vapor or liquid) and the method of detection (i.e. sight, sound, or smell); 3.) the date the leak was detected and the date of each attempt to repair the leak; 4.) repair methods applied in each attempt to repair the leak; 5.) repair delayed and the reason for the delay if the leak is not repaired within 15 calendar days after discovery of the leak; 6) the expected date of successful repair of the leak if the leak is not repaired within 15 days; and 7.) the date of successful repair of the leak. [40 CFR 63.11089(g)] Federally Enforceable Through Title V Permit
36. The permittee shall visually inspect, through the manholes, roof hatches, or other opening on the fixed roof, the internal floating roof and its appurtenant parts, fittings, etc., and the primary seal and/or secondary seal at least once every 12 months after the tank is initially filled with an organic liquid. There should be no visible organic liquid on the roof, tank walls, or anywhere. Other than the gap criteria specified by this rule, no holes, tears, or other openings are allowed that would permit the escape of vapors. Any defects found are violations of this rule. [District Rule 4623, 6.1.4.2, 40 CFR 60.113b(a)(2) and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit
37. If any failure (i.e. visible organic liquid on the internal floating roof, tank walls or anywhere, holes or tears in the seal fabric) is detected during 12 month visual inspection, the permittee shall repair the items or empty and remove the storage vessel from service within 45 days. If the detected failure cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the APCO in the inspection report. Such a request must document that alternate storage capacity is unavailable and specify a schedule of actions the company will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible. [40 CFR 60.113b(a)(2) and 40 CFR 63.11087(c)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

38. The permittee shall visually inspect the internal floating roof, the primary seal, the secondary seal, gaskets, slotted membranes and sleeve seals (if any) each time the vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10 percent open area, the owner or operator shall repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel. [40 CFR Part 63.11087(c)] Federally Enforceable Through Title V Permit
39. The owner or operator shall report the number of equipment leaks not repaired within 15 days after detection in a semi-annual report. [40 CFR 63.11089(g)] Federally Enforceable Through Title V Permit
40. All covers, seals and lids covering openings in the roof used for sampling and gauging shall be inspected annually by the facility operator to ensure compliance with the provisions of this permit. If one or more of the components are found to leak during an annual inspection, the inspection frequency for that component type shall be changed from annual to quarterly. If none of the components of that type are subsequently found to be leaking during five consecutive inspections, the inspection frequency may be changed from quarterly to annual. Components located in inaccessible (over 15 feet above ground when access is required from the ground or over 6 feet away from a platform when access is required from the platform) locations shall be inspected at least annually and components located in unsafe areas shall be inspected and repaired upon detection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
41. The operator shall determine the presence of gas leaks using portable hydrocarbon detection instrument in accordance with EPA Method 21. The instrument shall be calibrated before use each day of its use by the procedures specified in Method 21 using the following calibration gases: 1.) Zero air (less than 10 ppm of hydrocarbon in air); and 2.) A mixture of methane or n-hexane and air at a concentration of about, but less than, 10,000 ppm methane or n-hexane. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
42. The operator shall maintain an inspection log containing the following: 1.) Type of component leaking; 2.) Date of leak detection, and method of detection; 3.) Date and emission level of recheck after leak is repaired. Leaks over 10,000 ppmv shall be reported as a deviation. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
43. The permittee shall conduct actual gap measurements of the primary seal and/or secondary seal at least once every 60 months. Other than the gap criteria specified by this permit, no holes, tears, or other openings are allowed that would permit the escape of hydrocarbon vapors. Any defects found shall constitute a violation of this permit. [District Rule 4623 Section 6.1.4.3] Federally Enforceable Through Title V Permit
44. The permittee shall submit the reports of the floating roof tank inspections to the APCO within five calendar days after the completion of the inspection only for those tanks that failed to meet the applicable requirements of Rule 4623, Sections 5.2 through 5.5. The inspection report for tanks that have been determined to be in compliance with the requirements of Sections 5.2 through 5.5 need not be submitted to the APCO, but the inspection report shall be kept on-site and made available upon request by the APCO. The inspection report shall contain all necessary information to demonstrate compliance with the provisions of this rule, including the following: 1.) Date of inspection and names and titles of company personnel doing the inspection; 2.) Tank identification number and Permit to Operate number; 3.) Measurements of the gaps between the tank shell and primary and secondary seals; 4.) Leak-free status of the tank and floating roof deck fittings. Records of the leak-free status shall include the vapor concentration values measured in ppmv. 5.) Data, supported by calculations, demonstrating compliance with the requirements specified in Sections 5.3, 5.4, 5.5.2.3.3, 5.5.2.4.2, and 5.5.2.4.3 of Rule 4623. 6.) Any corrective actions or repairs performed on the tank in order to comply with Rule 4623 and the date(s) such actions were taken. [District Rule 4623, 6.3.5 and 40 CFR 63.11087(e)] Federally Enforceable Through Title V Permit
45. The permittee shall maintain the records of the internal floating roof landing activities that are performed pursuant to Rule 4623, Sections 5.3.1.3 and 5.4.3. The records shall include information on the true vapor pressure (TVP), API gravity, storage temperature, type of organic liquid stored in the tank, the purpose of landing the roof on its legs, the date of roof landing, duration the roof was on its legs, the level or height at which the tank roof was set to land on its legs, and the lowest liquid level in the tank. [District Rule 4623 Section 6.3.7] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

46. The following test methods shall be used: ASTM Method D287 for determining API Gravity, ASTM Method D4057 sampling for API Gravity testing; ASTM D323 for determining RVP, and converting RVP to TVP at the tank's maximum organic liquid storage temperature; ARB Method 422 for determining exempt halogenated VOCs in gases; EPA Method 21 for measuring gas-leak concentration. Should the owner or operator wish to use test methods other than the ones mentioned in this condition, the methods must be approved by the District prior to its use. [District Rule 4623, 6.4] Federally Enforceable Through Title V Permit
47. The permittee shall maintain records of daily, monthly, cumulative annual organic liquid throughput in gallons. The cumulative annual records shall be updated weekly. [District Rule 2201] Federally Enforceable Through Title V Permit
48. The permittee shall maintain records of TVP tests and the temperature of the organic liquid stored in the tank. [District Rule 2201] Federally Enforceable Through Title V Permit
49. The permittee shall determine the maximum true vapor pressure of the stored organic liquid on a monthly basis, using the calculation methodology listed in Appendix B of District Rule 4623. The permittee shall keep a record of all Reid vapor pressure measurements for the stored organic liquid and shall use the highest recorded Reid vapor pressure of the month when determining the maximum true vapor pressure. The permittee shall keep a record of the actual storage temperature of the organic storage tank and shall use the highest temperature recorded of the month when determining the maximum true vapor pressure. [District Rule 4623] Federally Enforceable Through Title V Permit
50. The permittee shall maintain records sufficient to demonstrate compliance with the daily VOC emission limit. These records shall contain the calculated emission quantity as well as each process variable used in the respective calculations/modeling. [District Rule 2080] Federally Enforceable Through Title V Permit
51. The permittee shall keep all records on-site for a period of at least five years. These records shall be made available for District inspection upon request. [District Rules 2201 and 4623, 6.3] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-829-32-1

EXPIRATION DATE: 11/30/2020

EQUIPMENT DESCRIPTION:

MODIFICATION OF 1,953,000 GALLON WELDED INTERNAL FLOATING ROOF GASOLINE, DIESEL, ETHANOL, AND METHANOL STORAGE TANK (#4901) WITH A MECHANICAL SHOE PRIMARY SEAL, A WIPER SECONDARY SEAL AND A SLOTTED GUIDEPOLE:

PERMIT UNIT REQUIREMENTS

1. This tank shall only store gasoline, diesel fuel, ethanol, and methanol with a TVP of less than or equal to 10 psia. [District Rule 2201] Federally Enforceable Through Title V Permit
2. This tank shall not have more than two (2) turnovers per month. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Annual throughput of fuel shall not exceed 46,922,400 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Permittee shall maintain records of monthly and annual throughput of fuel in gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Daily emissions shall not exceed 9.0 lbs VOC/day based on a monthly average. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel that has a fixed roof. The internal roof shall be floating on the liquid surface except during initial fill and when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible. Whenever the permittee intends to land the roof on it's legs, the permittee shall notify the APCO in writing at least five days prior to performing the work. [District Rule 4623] Federally Enforceable Through Title V Permit
7. Gaps between the tank shell and the primary seal shall not exceed 1 1/2 inches. [District Rule 4623] Federally Enforceable Through Title V Permit
8. The cumulative length of all gaps between the tank shell and the primary seal greater than 1/2 inch shall not exceed 10% of the circumference of the tank. [District Rule 4623] Federally Enforceable Through Title V Permit
9. The cumulative length of all primary seal gaps greater than 1/8 inch shall not exceed 30% of the circumference of the tank. [District Rule 4623] Federally Enforceable Through Title V Permit
10. No continuous gap in the primary seal greater than 1/8 inch wide shall exceed 10% of the tank circumference. [District Rule 4623] Federally Enforceable Through Title V Permit
11. No gap between the tank shell and the secondary seal shall exceed 1/2 inch. [District Rule 4623] Federally Enforceable Through Title V Permit
12. The cumulative length of all gaps between the tank shell and the secondary seal, greater than 1/8 inch shall not exceed 5% of the tank circumference. [District Rule 4623] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

13. The metallic shoe-type seal shall be installed so that one end of the shoe extends into the stored liquid and the other end extends a minimum vertical distance of 11 inches above the stored liquid surface. [District Rule 4623] Federally Enforceable Through Title V Permit
14. The geometry of the metallic-shoe type seal shall be such that the maximum gap between the shoe and the tank shell shall be no greater than 3 inches for a length of at least 11 inches in the vertical plane above the liquid. [District Rule 4623] Federally Enforceable Through Title V Permit
15. There shall be no holes, tears, or openings in the secondary seal or in the primary seal envelope that surrounds the annular vapor space enclosed by the roof edge, seal fabric, and secondary seal. [District Rule 4623] Federally Enforceable Through Title V Permit
16. The secondary seal shall allow easy insertion of probes of up to 1 1/2 inches in width in order to measure gaps in the primary seal. [District Rule 4623] Federally Enforceable Through Title V Permit
17. The secondary seal shall extend from the roof to the tank shell and shall not be attached to the primary seal. [District Rule 4623] Federally Enforceable Through Title V Permit
18. All openings in the roof used for sampling and gauging, except pressure-vacuum valves which shall be set to within 10% of the maximum allowable working pressure of the roof, shall provide a projection below the liquid surface to prevent belching of liquid and to prevent entrained or formed organic vapor from escaping from the liquid contents of the tank and shall be equipped with a cover, seal or lid that shall be in a closed position at all times, with no visible gaps and be gas tight, except when the device or appurtenance is in use. [District Rule 4623] Federally Enforceable Through Title V Permit
19. A leak-free condition is defined as a condition without a gas or liquid leak. A gas leak is defined as a reading in excess of 10,000 ppmv as methane, above background, as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. A liquid leak is defined as a dripping rate of more than three (3) drops per minute. A reading in excess of 10,000 ppmv as methane above background or a liquid leak of greater than three (3) drops per minute is a violation of this permit and Rule 4623 and shall be reported as a deviation. [District Rule 4623] Federally Enforceable Through Title V Permit
20. Each opening in a non-contact internal floating roof, except for automatic bleeder vents (vacuum breaker vents) and rim space vents, shall provide a projection below the liquid surface. [District Rule 4623] Federally Enforceable Through Title V Permit
21. 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. [District Rule 4623] Federally Enforceable Through Title V Permit
22. Automatic bleeder vents shall be equipped with a gasket and shall 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. [District Rule 4623] Federally Enforceable Through Title V Permit
23. Rim 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. [District Rule 4623] Federally Enforceable Through Title V Permit
24. Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The well shall have a slit fabric cover that covers at least 90% of the opening. The fabric cover must be impermeable. [District Rule 4623] Federally Enforceable Through Title V Permit
25. Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover. The fabric sleeve must be impermeable. [District Rule 4623] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

26. The permittee shall visually inspect the internal floating roof, and its appurtenant parts, fittings, etc. and measure the gaps of the primary seal and/or secondary seal prior to filling the tank for newly constructed, repair, or rebuilt internal floating roof tanks. If holes, tears, or openings in the primary seal, the secondary seal, the seal fabric or defects in the internal floating roof or its appurtenant parts, components, fittings, etc., are found, they shall be repaired prior to filling the tank. [District Rule 4623] Federally Enforceable Through Title V Permit
27. The permittee shall visually inspect, through the manholes, roof hatches, or other openings on the fixed roof, the internal floating roof and its appurtenant parts, fittings, etc., and the primary seal and/or secondary seal at least once every 12 months after the tank is initially filled with an organic liquid. There should be no visible organic liquid on the roof, tank walls, or anywhere. Other than the gap criteria specified by this rule, no holes, tears, or other openings are allowed that would permit the escape of vapors. Any defects found are violations of this rule. [District Rule 4623] Federally Enforceable Through Title V Permit
28. The permittee shall conduct actual gap measurements of the primary seal and/or secondary seal at least once every 60 months. [District Rule 4623] Federally Enforceable Through Title V Permit
29. Permittee shall submit a tank inspection plan to the APCO for approval. The plan shall include an inventory of the tanks subject to this rule and a tank inspection schedule. A copy of the operator's tank safety procedures shall be made available to the APCO upon request. The tank inventory shall include tank's identification number, PTO number, maximum tank capacity, dimensions of tank (height and diameter), organic liquid stored, type of primary and secondary seal, type of floating roof (internal or external floating roof), construction date of tank, and location of tank. Any revision to a previously approved tank inspection schedule shall be submitted to the APCO for approval prior to conducting an inspection. [District Rule 4623] Federally Enforceable Through Title V Permit
30. Permittee shall submit the reports of the floating roof tank inspections to the APCO within five calendar days after the completion of the inspection only for those tanks that failed to meet the applicable requirements of Rule 4623, Sections 5.2 through 5.5. The inspection report for tanks that have been determined to be in compliance with the requirements of Sections 5.2 through 5.5 need not be submitted to the APCO, but the inspection report shall be kept on-site and made available upon request by the APCO. The inspection report shall contain all necessary information to demonstrate compliance with the provisions of Rule 4623. [District Rule 4623] Federally Enforceable Through Title V Permit
31. Permittee shall maintain the records of the internal floating roof landing activities that are performed pursuant to Rule 4623, Sections 5.3.1.3 and 5.4.3. The records shall include information on the true vapor pressure (TVP), API gravity, storage temperature, type of organic liquid stored in the tank, the purpose of landing the roof on its legs, the date of roof landing, duration the roof was on its legs, the level or height at which the tank roof was set to land on its legs, and the lowest liquid level in the tank. [District Rule 4623] Federally Enforceable Through Title V Permit
32. The permittee shall determine the maximum true vapor pressure of the stored organic liquid on a monthly basis, using the calculation methodology listed in Appendix B of District Rule 4623. The permittee shall keep a record of all Reid vapor pressure measurements for the stored organic liquid and shall use the highest recorded Reid vapor pressure of the month when determining the maximum true vapor pressure. The permittee shall keep a record of the actual storage temperature of the organic storage tank and shall use the highest temperature recorded of the month when determining the maximum true vapor pressure. [District Rule 4623] Federally Enforceable Through Title V Permit
33. The permittee shall maintain records sufficient to demonstrate compliance with the daily VOC emission limit. These records shall contain the calculated emission quantity as well as each process variable used in the respective calculations/modeling. [District Rule 2080] Federally Enforceable Through Title V Permit
34. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-829-33-1

EXPIRATION DATE: 11/30/2020

EQUIPMENT DESCRIPTION:

MODIFICATION OF 3,365,000 GALLON WELDED INTERNAL FLOATING ROOF GASOLINE, DIESEL, ETHANOL, AND METHANOL STORAGE TANK (#8801) WITH A MECHANICAL SHOE PRIMARY SEAL, A WIPER SECONDARY SEAL AND A SLOTTED GUIDEPOLE:

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall only store gasoline, diesel fuel, ethanol, and methanol with a TVP of less than or equal to 10 psia. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall not have more than two (2) turnovers per month. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Annual throughput of fuel shall not exceed 83,160,000 gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Permittee shall maintain records of monthly and annual throughput of fuel in gallons. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Daily emissions shall not exceed 13.3 lbs VOC/day based on a monthly average. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel that has a fixed roof. The internal roof shall be floating on the liquid surface except during initial fill and when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible. Whenever the permittee intends to land the roof on it's legs, the permittee shall notify the APCO in writing at least five days prior to performing the work. [District Rule 4623] Federally Enforceable Through Title V Permit
9. Gaps between the tank shell and the primary seal shall not exceed 1 1/2 inches. [District Rule 4623] Federally Enforceable Through Title V Permit
10. The cumulative length of all gaps between the tank shell and the primary seal greater than 1/2 inch shall not exceed 10% of the circumference of the tank. [District Rule 4623] Federally Enforceable Through Title V Permit
11. The cumulative length of all primary seal gaps greater than 1/8 inch shall not exceed 30% of the circumference of the tank. [District Rule 4623] Federally Enforceable Through Title V Permit
12. No continuous gap in the primary seal greater than 1/8 inch wide shall exceed 10% of the tank circumference. [District Rule 4623] Federally Enforceable Through Title V Permit
13. No gap between the tank shell and the secondary seal shall exceed 1/2 inch. [District Rule 4623] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

14. The cumulative length of all gaps between the tank shell and the secondary seal, greater than 1/8 inch shall not exceed 5% of the tank circumference. [District Rule 4623] Federally Enforceable Through Title V Permit
15. The metallic shoe-type seal shall be installed so that one end of the shoe extends into the stored liquid and the other end extends a minimum vertical distance of 11 inches above the stored liquid surface. [District Rule 4623] Federally Enforceable Through Title V Permit
16. The geometry of the metallic-shoe type seal shall be such that the maximum gap between the shoe and the tank shell shall be no greater than 3 inches for a length of at least 11 inches in the vertical plane above the liquid. [District Rule 4623] Federally Enforceable Through Title V Permit
17. There shall be no holes, tears, or openings in the secondary seal or in the primary seal envelope that surrounds the annular vapor space enclosed by the roof edge, seal fabric, and secondary seal. [District Rule 4623] Federally Enforceable Through Title V Permit
18. The secondary seal shall allow easy insertion of probes of up to 1 1/2 inches in width in order to measure gaps in the primary seal. [District Rule 4623] Federally Enforceable Through Title V Permit
19. The secondary seal shall extend from the roof to the tank shell and shall not be attached to the primary seal. [District Rule 4623] Federally Enforceable Through Title V Permit
20. All openings in the roof used for sampling and gauging, except pressure-vacuum valves which shall be set to within 10% of the maximum allowable working pressure of the roof, shall provide a projection below the liquid surface to prevent belching of liquid and to prevent entrained or formed organic vapor from escaping from the liquid contents of the tank and shall be equipped with a cover, seal or lid that shall be in a closed position at all times, with no visible gaps and be gas tight, except when the device or appurtenance is in use. [District Rule 4623] Federally Enforceable Through Title V Permit
21. A leak-free condition is defined as a condition without a gas or liquid leak. A gas leak is defined as a reading in excess of 10,000 ppmv as methane, above background, as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. A liquid leak is defined as a dripping rate of more than three (3) drops per minute. A reading in excess of 10,000 ppmv as methane above background or a liquid leak of greater than three (3) drops per minute is a violation of this permit and Rule 4623 and shall be reported as a deviation. [District Rule 4623] Federally Enforceable Through Title V Permit
22. Each opening in a non-contact internal floating roof, except for automatic bleeder vents (vacuum breaker vents) and rim space vents, shall provide a projection below the liquid surface. [District Rule 4623] Federally Enforceable Through Title V Permit
23. 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. [District Rule 4623] Federally Enforceable Through Title V Permit
24. Automatic bleeder vents shall be equipped with a gasket and shall 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. [District Rule 4623] Federally Enforceable Through Title V Permit
25. Rim 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. [District Rule 4623] Federally Enforceable Through Title V Permit
26. Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The well shall have a slit fabric cover that covers at least 90% of the opening. The fabric cover must be impermeable. [District Rule 4623] Federally Enforceable Through Title V Permit
27. Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover. The fabric sleeve must be impermeable. [District Rule 4623] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

28. The permittee shall visually inspect the internal floating roof, and its appurtenant parts, fittings, etc. and measure the gaps of the primary seal and/or secondary seal prior to filling the tank for newly constructed, repair, or rebuilt internal floating roof tanks. If holes, tears, or openings in the primary seal, the secondary seal, the seal fabric or defects in the internal floating roof or its appurtenant parts, components, fittings, etc., are found, they shall be repaired prior to filling the tank. [District Rule 4623] Federally Enforceable Through Title V Permit
29. The permittee shall visually inspect, through the manholes, roof hatches, or other openings on the fixed roof, the internal floating roof and its appurtenant parts, fittings, etc., and the primary seal and/or secondary seal at least once every 12 months after the tank is initially filled with an organic liquid. There should be no visible organic liquid on the roof, tank walls, or anywhere. Other than the gap criteria specified by this rule, no holes, tears, or other openings are allowed that would permit the escape of vapors. Any defects found are violations of this rule. [District Rule 4623] Federally Enforceable Through Title V Permit
30. The permittee shall conduct actual gap measurements of the primary seal and/or secondary seal at least once every 60 months. [District Rule 4623] Federally Enforceable Through Title V Permit
31. Permittee shall submit a tank inspection plan to the APCO for approval. The plan shall include an inventory of the tanks subject to this rule and a tank inspection schedule. A copy of the operator's tank safety procedures shall be made available to the APCO upon request. The tank inventory shall include tank's identification number, PTO number, maximum tank capacity, dimensions of tank (height and diameter), organic liquid stored, type of primary and secondary seal, type of floating roof (internal or external floating roof), construction date of tank, and location of tank. Any revision to a previously approved tank inspection schedule shall be submitted to the APCO for approval prior to conducting an inspection. [District Rule 4623] Federally Enforceable Through Title V Permit
32. Permittee shall submit the reports of the floating roof tank inspections to the APCO within five calendar days after the completion of the inspection only for those tanks that failed to meet the applicable requirements of Rule 4623, Sections 5.2 through 5.5. The inspection report for tanks that have been determined to be in compliance with the requirements of Sections 5.2 through 5.5 need not be submitted to the APCO, but the inspection report shall be kept on-site and made available upon request by the APCO. The inspection report shall contain all necessary information to demonstrate compliance with the provisions of Rule 4623. [District Rule 4623] Federally Enforceable Through Title V Permit
33. Permittee shall maintain the records of the internal floating roof landing activities that are performed pursuant to Rule 4623, Sections 5.3.1.3 and 5.4.3. The records shall include information on the true vapor pressure (TVP), API gravity, storage temperature, type of organic liquid stored in the tank, the purpose of landing the roof on its legs, the date of roof landing, duration the roof was on its legs, the level or height at which the tank roof was set to land on its legs, and the lowest liquid level in the tank. [District Rule 4623] Federally Enforceable Through Title V Permit
34. The permittee shall determine the maximum true vapor pressure of the stored organic liquid on a monthly basis, using the calculation methodology listed in Appendix B of District Rule 4623. The permittee shall keep a record of all Reid vapor pressure measurements for the stored organic liquid and shall use the highest recorded Reid vapor pressure of the month when determining the maximum true vapor pressure. The permittee shall keep a record of the actual storage temperature of the organic storage tank and shall use the highest temperature recorded of the month when determining the maximum true vapor pressure. [District Rule 4623] Federally Enforceable Through Title V Permit
35. The permittee shall maintain records sufficient to demonstrate compliance with the daily VOC emission limit. These records shall contain the calculated emission quantity as well as each process variable used in the respective calculations/modeling. [District Rule 2080] Federally Enforceable Through Title V Permit
36. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-829-35-1

EXPIRATION DATE: 11/30/2020

EQUIPMENT DESCRIPTION:

30,000 BBL (1,260,000 GALLON) WELDED INTERNAL FLOATING ROOF TANK (#30006) WITH A MECHANICAL SHOE PRIMARY SEAL, A WIPER SECONDARY SEAL, AND A SLOTTED GUIDEPOLE

PERMIT UNIT REQUIREMENTS

1. Only denatured ethanol (97.5% or more by weight ethanol, 2.5% or less by weight gasoline) shall be stored in this tank. The permittee shall maintain sufficient records to demonstrate compliance with this condition. [District Rules 2201 and 4102]
2. True vapor pressure (TVP) of the organic liquid stored in the tank shall not exceed 2.8 psia. [District Rule 2201]
3. VOC emissions shall not exceed 6.1 pounds in any one day. [District Rule 2201]
4. The daily throughput of the organic liquid shall not exceed 25,000 barrels/day or 1,050,000 gallons/day (equivalent to 1 tank turnover/day). [District Rule 2201]
5. The monthly throughput of the organic liquid shall not exceed 1,000,000 barrels/month or 42,000,000 gallons/month (equivalent to 4 tank turnover/month). [District Rule 2201]
6. The permittee shall determine TVP and the temperature of the organic liquid stored on monthly basis. [District Rule 2201]
7. The floating roof shall be floating on the surface of the stored liquid at all times (i.e., off the roof leg supports) except during the initial fill until the roof is lifted off the leg supports and when the tank is completely emptied and subsequently refilled. When the roof is resting on the leg supports the processes of filling or emptying and refilling the tank shall be continuous and shall be accomplished as rapidly as possible. Whenever the permittee intends to land the roof on its legs, the permittee shall notify the APCO in writing at least five calendar days prior to performing the work. The tank must be in compliance with this rule before it may land the roof on its legs. [District Rule 4623 Section 5.4.3, 40 CFR 60.112b(a)(1)(i)] Federally Enforceable Through Title V Permit
8. No gap between the tank shell and the primary seal shall exceed one and one-half (1-1/2) inches. [District Rule 4653 Sections 5.3.2.1.1 and 5.4.1] Federally Enforceable Through Title V Permit
9. The cumulative length of all gaps between the tank shell and the primary seal: 1) Greater than one-half (1/2) inch shall not exceed 10 percent of the circumference of the tank; and 2) Greater than one-eighth (1/8) inch shall not exceed 30 percent of the circumference of the tank. [District Rule 4623 Sections 5.3.2.1.1 and 5.4.1] Federally Enforceable Through Title V Permit
10. The primary seal shall have no continuous gap greater than one-eighth (1/8) inch shall exceed 10 percent of the tank circumference. [District Rule 4623 Sections 5.3.2.1.1 and 5.4.1] Federally Enforceable Through Title V Permit
11. No gap between the tank shell and the secondary seal shall exceed one-half (1/2) inch. [District Rule 4623 Sections 5.3.2.1.2 and 5.4.1] Federally Enforceable Through Title V Permit
12. The cumulative length of all gaps between the tank shell and the secondary seal, greater than one-eighth (1/8) inch shall not exceed 5 percent of the tank circumference. [District Rule 4623 Sections 5.3.2.1.2 and 5.4.1] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

13. The metallic shoe-type seal shall be installed so that one end of the shoe extends into the stored liquid and the other end extends a minimum vertical distance of 18 inches above the stored liquid surface. [District Rule 4623 Section 5.4.1] Federally Enforceable Through Title V Permit
14. The geometry of the metallic-shoe type seal shall be such that the maximum gap between the shoe and the tank shell shall be no greater than 3 inches for a length of at least 18 inches in the vertical plane above the liquid. [District Rule 4623 Sections 5.3.2.1.4 and 5.4.1] Federally Enforceable Through Title V Permit
15. There shall be no holes, tears, or openings in the secondary seal or in the primary seal envelope that surrounds the annular vapor space enclosed by the roof edge, seal fabric, and secondary seal. [District Rule 4623 Sections 5.3.2.1.5 and 5.4.1] Federally Enforceable Through Title V Permit
16. The secondary seal shall allow easy insertion of probes of up to one and one-half (1-1/2) inches in width in order to measure gaps in the primary seal. [District Rule 4623 Sections 5.3.2.1.6 and 5.4.1] Federally Enforceable Through Title V Permit
17. The secondary seal shall extend from the roof to the tank shell and shall not be attached to the primary seal. [District Rule 4623 Sections 5.3.2.1.7 and 5.4.1] Federally Enforceable Through Title V Permit
18. All openings in the roof used for sampling and gauging shall provide a projection below the liquid surface to prevent belching of liquid and to prevent entrained or formed organic vapor from escaping from the liquid contents of the tank and shall be equipped with a cover, seal or lid. The cover seal or lid shall be in a closed position, with no visible gaps and be gas tight, except when the device or appurtenance is in use. [District Rule 4623 Section 5.5.1] Federally Enforceable Through Title V Permit
19. A gas-tight condition is defined as a condition without a gas leak. A gas leak is defined as a reading in excess of 10,000 ppmv, as methane, above background as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. A reading in excess of 10,000 ppmv above background is a violation of this permit and Rule 4623 and shall be reported as a deviation. [District Rule 4623 Sections 3.11, 5.1.3, and 6.4.8] Federally Enforceable Through Title V Permit
20. Each opening in a non-contact internal floating roof except for automatic bleeder vents (vacuum breaker vents) and rim space vents shall provide a projection below the liquid surface. [District Rule 4623 Section 5.5.2.1.1, 40 CFR 60.112b(a)(1)(iii)] Federally Enforceable Through Title V Permit
21. 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 shall be equipped with a cover, or a lid shall be maintained in a closed position at all times (i.e. no visible gaps) except when the device is in use. The cover or lid shall be equipped with a gasket. Covers on each access hatch and automatic gauge float well shall be bolted in place except when they are in use. [District Rule 4623 Section 5.5.2.1.2, 40 CFR 60.112b(a)(1)(iv)] Federally Enforceable Through Title V Permit
22. Automatic bleeder vents shall be equipped with a gasket and shall be closed at all times when the roof is floating except when the roof is being floated off or is being landed on the leg roof supports. [District Rule 4623 Section 5.5.2.1.3, 40 CFR 60.112b(a)(1)(v)] Federally Enforceable Through Title V Permit
23. Rim vents shall be equipped with a gasket and shall be set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting. [District Rule 4623 Section 5.5.2.1.4, 40 CFR 60.112b(a)(1)(vi)] Federally Enforceable Through Title V Permit
24. Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The well shall have a slit fabric cover that covers at least 90 percent of the opening. The fabric cover must be impermeable. [District Rule 4623 Section 5.5.2.1.5, 40 CFR 60.112b(a)(1)(vii)] Federally Enforceable Through Title V Permit
25. 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. The fabric sleeve must be impermeable. [District Rule 4623 Section 5.5.2.1.6, 40 CFR 60.112b(a)(1)(viii)] Federally Enforceable Through Title V Permit
26. Each penetration of the internal floating roof that allows for the passage of a ladder shall have a gasketed sliding cover. [40 CFR 60.112b(a)(1)(ix)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

27. All slotted sampling or gauging wells, and similar fixed projections through the floating roof shall provide a projection below the liquid surface. [District Rule 4623 Section 5.5.2.4.1] Federally Enforceable Through Title V Permit
28. The gap between the pole wiper and the slotted guidepole shall be added to the gaps measured to determine compliance with the secondary seal requirement, and in no case shall not exceed one-eighth (1/8) inch. [District Rule 4623 Section 5.5.2.4.3] Federally Enforceable Through Title V Permit
29. The permittee shall visually inspect the internal floating roof and its appurtenant parts, fittings, etc., and measure the gaps of the primary seal and/or secondary seal prior to filling the tank. If there are holes, tears, or other openings in the primary seal, the secondary seal, or the seal fabric or defects in the internal floating roof or its appurtenant parts, components, fittings, etc., the operator shall repair the defects before filling the tank. [District Rule 4623 Section 6.1.4.1, 40 CFR 60.113b(a)(1)] Federally Enforceable Through Title V Permit
30. The permittee shall visually inspect, through the manholes, roof hatches, or other opening on the fixed roof, the internal floating roof and its appurtenant parts, fittings, etc., and the primary seal and/or secondary seal at least once every 12 months after the tank is initially filled with an organic liquid. There should be no visible organic liquid on the roof, tank walls, or anywhere. Other than the gap criteria specified by this rule, no holes, tears, or other openings are allowed that would permit the escape of vapors. Any defects found are violations of this rule. [District Rule 4623 Section 6.1.4.2, 40 CFR 60.113b(a)(2)] Federally Enforceable Through Title V Permit
31. If any failure (i.e. visible organic liquid on the internal floating roof, tank walls or anywhere, holes or tears in the seal fabric) is detected during 12 month visual inspection, the permittee shall repair the items or empty and remove the storage vessel from service within 45 days. If the detected failure cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the APCO in the inspection report. Such a request must document that alternate storage capacity is unavailable and specify a schedule of actions the company will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible. [40 CFR 60.113b(a)(2)] Federally Enforceable Through Title V Permit
32. The permittee shall conduct actual gap measurements of the primary seal and/or secondary seal at least once every 60 months. Other than the gap criteria specified by this permit, no holes, tears, or other openings are allowed that would permit the escape of hydrocarbon vapors. Any defects found shall constitute a violation of this rule. [District Rule 4623 Section 6.1.4.3] Federally Enforceable Through Title V Permit
33. The permittee shall submit the reports of the floating roof tank inspections to the APCO within five calendar days after the completion of the inspection only for those tanks that failed to meet the applicable requirements of Rule 4623, Sections 5.2 through 5.5. The inspection report for tanks that have been determined to be in compliance with the requirements of Sections 5.2 through 5.5 need not be submitted to the APCO, but the inspection report shall be kept on-site and made available upon request by the APCO. The inspection report shall contain all necessary information to demonstrate compliance with the provisions of this rule, including the following: 1) Date of inspection and names and titles of company personnel doing the inspection. 2) Tank identification number and Permit to Operate number. 3) Measurements of the gaps between the tank shell and primary and secondary seals. 4) Gas-tight status of the tank and floating roof deck fittings. Records of the gas-tight status shall include the vapor concentration values measured in parts per million by volume (ppmv). 5) Data, supported by calculations, demonstrating compliance with the requirements specified in Sections 5.3.1.3 and 5.5.2.4.3 of Rule 4623. 6) Any corrective actions or repairs performed on the tank in order to comply with rule 4623 and the date(s) such actions were taken. [District Rule 4623 Section 6.3.5] Federally Enforceable Through Title V Permit
34. Permittee shall maintain the records of the internal floating roof landing activities that are performed pursuant to Rule 4623, Sections 5.3.1.3 and 5.4.3. The records shall include storage temperature, type of organic liquid stored in the tank, the purpose of landing the roof on its legs, the date of roof landing, duration the roof was on its legs, the level or height at which the tank roof was set to land on its legs, and the lowest liquid level in the tank. [District Rule 4623 Section 6.3.7] Federally Enforceable Through Title V Permit
35. The permittee shall notify the District in writing at least 30 days prior to conduct the visual inspection of the storage vessel, so the District can arrange an observer. [40 CFR 60.113b(a)(5)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

36. The permittee shall maintain records of daily, monthly, cumulative annual organic liquid throughput in gallons. The cumulative annual records shall be updated weekly. [District Rule 2201] Federally Enforceable Through Title V Permit
37. The permittee shall maintain records of TVP tests and the temperature of the organic liquid stored in the tank. [District Rule 2201] Federally Enforceable Through Title V Permit
38. The permittee shall maintain records sufficient to demonstrate compliance with the daily VOC emission limit. These records shall contain the calculated emission quantity as well as each process variable used in the respective calculations/modeling. [District Rule 2080] Federally Enforceable Through Title V Permit
39. The permittee shall keep all records on-site for a period of at least five years. These records shall be made available for District inspection upon request. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-829-37-0

EXPIRATION DATE: 11/30/2020

EQUIPMENT DESCRIPTION:

DENATURED ETHANOL BULK OFFLOADING OPERATION CONSISTING OF ONE RAILCAR OFFLOADING STATION

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
3. The unloading equipment shall be designed, installed, maintained, and operated such that there are no leaks and no excess organic liquid drainage at disconnections. [District Rule 4624]
4. A leak is defined as the dripping of VOC-containing liquid at a rate of more than three drops per minute; or the detection of any gaseous or vapor emissions with a concentration of VOC greater than 1,000 ppmv above a background as methane when measured using a portable hydrocarbon detection instrument in accordance with EPA Method 21. [District Rule 4624]
5. Each transfer rack handling organic liquids shall be tested for leaks, using EPA Method 21, at least once every calendar quarter. [District Rule 4624]
6. The equipment that are found leaking shall be repaired or replaced within 72 hours after detecting the leakage. If the leaking component cannot be repaired or replaced within 72 hours, the component shall be taken out of service until such time the component is repaired or replaced. The repaired or replacement equipment shall be reinspected the first time the equipment is in operation after the repair or replacement. [District Rule 4624]
7. The permittee may apply for a written approval from the APCO to change the inspection frequency from quarterly to annually provided no leaks were found during five consecutive quarterly inspections. Upon identification of any leak during an annual inspection, the inspection frequency shall revert back to quarterly, and the operator shall contact the APCO in writing within 14 days. [District Rule 4624]
8. The permittee shall maintain a log book that contains the following information: 1.) dates of leak inspections, 2.) the nature of the leak and the method of detection; 3.) findings, 4.) corrective action (date each leak is repaired), 5.) repair methods applied in each attempt to repair the leak; 6.) the reason for the delay if the leak is not repaired within 3 calendar days after discovery of the leak; 7.) the date of successful repair of the leak; and 8.) inspector name and signature. [District Rule 4624]
9. The permittee shall keep daily records of the number of organic liquid hose disconnections from railcars for this permit unit. The records shall be updated at least weekly. [District Rule 2080]
10. All records shall be maintained on site for a period of at least five years and shall be made available for District, ARB, and EPA inspection upon request. [District Rules 1070, 2080, 4624]
11. This permit does not authorize the violation of any conditions established for this facility in the Conditional Use Permit (CUP), Special Use Permit (SUP), Site Approval, Site Plan Review (SPR), or other approval documents issued by a local, state, or federal agency. [Public Resources Code 21000-21177: California Environmental Quality Act]

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-829-38-0

EXPIRATION DATE: 11/30/2020

EQUIPMENT DESCRIPTION:

DENATURED ETHANOL BULK OFFLOADING OPERATION CONSISTING OF ONE TRUCK OFFLOADING STATION

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
3. The unloading equipment shall be designed, installed, maintained, and operated such that there are no leaks and no excess organic liquid drainage at disconnections. [District Rule 4624]
4. A leak is defined as the dripping of VOC-containing liquid at a rate of more than three drops per minute; or the detection of any gaseous or vapor emissions with a concentration of VOC greater than 1,000 ppmv above a background as methane when measured using a portable hydrocarbon detection instrument in accordance with EPA Method 21. [District Rule 4624]
5. Each transfer rack handling organic liquids shall be tested for leaks, using EPA Method 21, at least once every calendar quarter. [District Rule 4624]
6. The equipment that are found leaking shall be repaired or replaced within 72 hours after detecting the leakage. If the leaking component cannot be repaired or replaced within 72 hours, the component shall be taken out of service until such time the component is repaired or replaced. The repaired or replacement equipment shall be reinspected the first time the equipment is in operation after the repair or replacement. [District Rule 4624]
7. The permittee may apply for a written approval from the APCO to change the inspection frequency from quarterly to annually provided no leaks were found during five consecutive quarterly inspections. Upon identification of any leak during an annual inspection, the inspection frequency shall revert back to quarterly, and the operator shall contact the APCO in writing within 14 days. [District Rule 4624]
8. The permittee shall maintain a log book that contains the following information: 1.) dates of leak inspections, 2.) the nature of the leak and the method of detection; 3.) findings, 4.) corrective action (date each leak is repaired), 5.) repair methods applied in each attempt to repair the leak; 6.) the reason for the delay if the leak is not repaired within 3 calendar days after discovery of the leak; 7.) the date of successful repair of the leak; and 8.) inspector name and signature. [District Rule 4624]
9. The permittee shall keep daily records of the number of organic liquid hose disconnections from trucks for this permit unit. The records shall be updated at least weekly. [District Rule 2080]
10. All records shall be maintained on site for a period of at least five years and shall be made available for District, ARB, and EPA inspection upon request. [District Rules 1070, 2080, 4624]
11. This permit does not authorize the violation of any conditions established for this facility in the Conditional Use Permit (CUP), Special Use Permit (SUP), Site Approval, Site Plan Review (SPR), or other approval documents issued by a local, state, or federal agency. [Public Resources Code 21000-21177: California Environmental Quality Act]

These terms and conditions are part of the Facility-wide Permit to Operate.

ATTACHMENT C

Detailed Summary List of Facility Permits

Detailed Facility Report

For Facility=829

Sorted by Facility Number and Permit Number

| | | | | | | |
|---|------------|-------------------|-----------|---------------|-------------|------------|
| NUSTAR TERMINALS OPS PARTNERSHIP LP 2941 NAVY DRIVE STOCKTON, CA 95206 | FAC # | N 829 | TYPE: | TitleV | EXPIRE ON: | 11/30/2020 |
| | STATUS: | A | TOXIC ID: | 21101 | AREA: | 9 / |
| | TELEPHONE: | 9167985914 | | | INSP. DATE: | 12/21 |
| | | | | | | |

| PERMIT NUMBER | FEE DESCRIPTION | FEE RULE | QTY | FEE AMOUNT | FEE TOTAL | PERMIT STATUS | EQUIPMENT DESCRIPTION |
|---------------|-----------------|-----------|-----|------------|-----------|---------------|--|
| N-829-1-9 | 80 hp (total) | 3020-01 C | 1 | 239.00 | 239.00 | A | FOUR LANE TRUCK LOADING RACK (NORTH) CONSISTING OF 7 GASOLINE LOADING ARMS, 3 DIESEL/BIODIESEL LOADING ARMS, AND 1 BIODIESEL LOADING ARM, A BIODIESEL LOADING PUMP, AND A 2-STREAM BLEND SKID |
| N-829-2-9 | 115 hp (total) | 3020-01 D | 1 | 379.00 | 379.00 | A | FOUR LANE TRUCK LOADING RACK (SOUTH) CONSISTING OF 4 GASOLINE LOADING ARMS, 4 DIESEL/BIODIESEL LOADING ARMS, A BIODIESEL LOADING PUMP, A 4-STREAM BLEND SKID, AND A BIODIESEL TRUCK OFF-LOADING PUMP |
| N-829-3-1 | 40 HP | 3020-01 B | 1 | 143.00 | 143.00 | D | TWO LANE TRUCK LOADING RACK #3 CONSISTING OF 4 DIESEL LOADING ARMS. ***** PERMIT DELETED ON 5/30/2002 PER FACILITY'S REQUEST - NRP ***** |
| N-829-4-1 | 20 HP | 3020-01 A | 1 | 107.00 | 107.00 | D | TWO LANE TRUCK LOADING RACK #4 CONSISTING OF 4 GASOLINE LOADING ARMS. ***** DELETED ON 5/30/2002 PER FACILITY'S REQUEST - NRP ***** |
| N-829-5-5 | 630,000 gallons | 3020-05 F | 1 | 362.00 | 362.00 | A | 630,000 GALLON WELDED INTERNAL FLOATING ROOF STORAGE TANK (#1502) WITH A MINISHOE PRIMARY SEAL AND A VAPORFLEX SECONDARY SEAL |
| N-829-6-8 | 630,000 gallons | 3020-05 F | 1 | 362.00 | 362.00 | A | 630,000 GALLON WELDED INTERNAL FLOATING ROOF STORAGE TANK (#1501) WITH A HMT FOAM LOG PRIMARY SEAL AND A HMT VAPOR FLEX SECONDARY SEAL AND A SLOTTED GUIDEPOLE |
| N-829-7-6 | 420,000 gallons | 3020-05 E | 1 | 296.00 | 296.00 | D | 420,000 GALLON WELDED INTERNAL FLOATING ROOF TANK (#1002) WITH A PRIMARY FOAM LOG SEAL, A SECONDARY WIPER SEAL, AND A SOLID GUIDEPOLE |
| N-829-8-0 | 40 HP | 3020-01 B | 1 | 143.00 | 143.00 | D | LOADING RACK: REGULAR #2 |
| N-829-9-0 | 40 HP | 3020-01 B | 1 | 143.00 | 143.00 | D | LOADING RACK: NO LEAD #2 |
| N-829-10-0 | 40 HP | 3020-01 B | 1 | 143.00 | 143.00 | D | LOADING RACK: NO LEAD #3 |
| N-829-11-0 | 40 HP | 3020-01 B | 1 | 143.00 | 143.00 | D | LOADING RACK: DIESEL #1 |
| N-829-12-0 | 40 HP | 3020-01 B | 1 | 143.00 | 143.00 | D | LOADING RACK: DIESEL #2 |
| N-829-13-2 | 420,000 GALLONS | 3020-05 E | 1 | 296.00 | 296.00 | D | 420,000 GALLON WELDED INTERNAL FLOATING ROOF STORAGE TANK (#1001) WITH A PRIMARY WIPER SEAL AND A SOLID GUIDEPOLE |
| N-829-14-2 | 420,000 GALLONS | 3020-05 E | 1 | 296.00 | 296.00 | D | 420,000 GALLON WELDED INTERNAL FLOATING ROOF STORAGE TANK (#1004) WITH A PRIMARY WIPER SEAL AND A SOLID GUIDEPOLE |
| N-829-15-3 | 420,000 GALLONS | 3020-05 E | 1 | 296.00 | 296.00 | D | 420,000 GALLON WELDED INTERNAL FLOATING ROOF STORAGE TANK (#1003) WITH A WIPER PRIMARY SEAL AND A SOLID GUIDEPOLE |

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|---------------|---------------------------|-----------|-----|------------|-----------|---------------|---|
| N-829-16-10 | 1,386,000 gallons | 3020-05 G | 1 | 461.00 | 461.00 | A | 1,386,000 GALLON INTERNAL FLOATING ROOF MECHANICALLY FASTENED DECK AND WELDED STORAGE TANK (#3301) WITH A MECHANICAL SHOE PRIMARY SEAL AND A WIPER SECONDARY SEAL |
| N-829-17-9 | 1,008,000 gallons | 3020-05 G | 1 | 461.00 | 461.00 | A | 1,008,000 GALLON WELDED INTERNAL FLOATING ROOF STORAGE TANK (#2401) WITH A MECHANICAL SHOE PRIMARY SEAL AND A WIPER SECONDARY SEAL, AND A SLOTTED GUIDE POLE WITH INTERNAL FLOAT AND POLE SLEEVE |
| N-829-18-10 | 1,008,000 gallons | 3020-05 G | 1 | 461.00 | 461.00 | A | 1,008,000 GALLON WELDED INTERNAL FLOATING ROOF ORGANIC LIQUID STORAGE TANK (#2402) WITH A PRIMARY MECHANICAL SHOE SEAL, A SECONDARY WIPER SEAL, AND A SLOTTED GUIDEPOLE |
| N-829-19-0 | 300,000 GALLONS | 3020-05 E | 1 | 296.00 | 296.00 | D | VAPOR HOLDING TANK #701: 300,000 GALLONS |
| N-829-20-9 | 40 MMBtu/hr | 3020-02 H | 1 | 1,238.00 | 1,238.00 | A | VAPOR COMBUSTION SYSTEM CONSISTING OF A 300,000 GALLON VAPOR HOLDING TANK, A VAPOR PROCESSING AND CONVEYING SYSTEM, AND A 40 MMBTU/HR PROPANE FIRED JOHN ZINK ZCT-2-8-35-X-2/8-X VAPOR COMBUSTION UNIT (VCU) |
| N-829-21-5 | 1,328,124 gallons | 3020-05 G | 1 | 461.00 | 461.00 | A | 1,328,124 GALLON WELDED INTERNAL FLOATING ROOF STORAGE TANK (#3302) WITH A MECHANICAL SHOE PRIMARY SEAL, A WIPER SECONDARY SEAL AND A SLOTTED GUIDEPOLE |
| N-829-22-5 | 1,218,000 gallon | 3020-05 G | 1 | 461.00 | 461.00 | A | 1,218,000 GALLON WELDED INTERNAL FLOATING ROOF STORAGE TANK (#3303) WITH A WIPER PRIMARY SEAL AND A SLOTTED GUIDEPOLE |
| N-829-23-0 | 8000 GALLONS | 3020-05 B | 1 | 113.00 | 113.00 | D | ONE (1) 8000 GALLON ADDITIVE INJECTION TANK EQUIPPED WITH OPW PHASE I VAPOR RECOVERY SYSTEM. **** DELETED PER 2020 SECTION 6.6 ON 10/23/98 **** |
| N-829-25-0 | 8,000 GALLON STORAGE TANK | 3020-05 B | 1 | 113.00 | 113.00 | D | ONE (1) 8000 GALLON FIXED ROOF ABOVE GROUND GASOLINE ADDITIVE STORAGE TANK (A) AND INJECTION SYSTEM. **** DELETED PER RULE 2020 SECTION 6.6 ON 10/23/98 *** |
| N-829-26-0 | 8000 GALLONS | 3020-05 B | 1 | 113.00 | 113.00 | D | ONE (1) 8000 GALLON FIXED ROOF ABOVE GROUND GASOLINE ADDITIVE STORAGE TANK (B) AND INJECTION SYSTEM. **** DELETED PER RULE 2020 SECTION 6.6 ON 10/23/98 *** |
| N-829-28-6 | 3,360,000 gallons | 3020-05 G | 1 | 461.00 | 461.00 | A | 3,360,000 GALLON WELDED INTERNAL FLOATING ROOF STORAGE TANK (#80001) WITH A MECHANICAL SHOE PRIMARY SEAL, A WIPER SECONDARY SEAL AND A SLOTTED GUIDEPOLE |
| N-829-29-7 | 3,360,000 gallons | 3020-05 G | 1 | 461.00 | 461.00 | A | 3,360,000 GALLON WELDED EXTERNAL FLOATING ROOF STORAGE TANK (#80002) WITH A MECHANICAL SHOE PRIMARY SEAL, A WIPER SECONDARY SEAL AND A SLOTTED GUIDEPOLE |
| N-829-30-0 | 42,200 kBtu | 3020-02 H | 1 | 1,238.00 | 1,238.00 | D | VAPOR RECOVERY UNIT: JOHN ZINK THERMAL OXIDIZER UNIT. THE VAPOR RECOVERY UNIT SERVES ALL FUEL LOADING RACKS. THIS UNIT IS A TEMPORARY REPLACEMENT EMISSION UNIT FOR N-829-20.***DELETED PER CONDITION 6 ON PTO BY FT ON 7-1-03*** |

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|---------------|----------------------------|-----------|-----|---------------|--------------|------------------|--|
| N-829-31-5 | 1,386,000 gallons | 3020-05 G | 1 | 461.00 | 461.00 | A | 1,386,000 GALLON WELDED INTERNAL FLOATING ROOF TANK (33007) WITH A MINI SHOE PRIMARY SEAL, A VAPORFLEX SECONDARY SEAL, AND A SLOTTED GUIDEPOLE |
| N-829-32-1 | STATIONARY CONTAINER (gal) | 3020-05 G | 1 | 461.00 | 461.00 | A | MODIFICATION OF 1,953,000 GALLON WELDED INTERNAL FLOATING ROOF GASOLINE, DIESEL, ETHANOL, AND METHANOL STORAGE TANK (#4901) WITH A MECHANICAL SHOE PRIMARY SEAL, A WIPER SECONDARY SEAL AND A SLOTTED GUIDEPOLE: |
| N-829-33-1 | STATIONARY CONTAINER (gal) | 3020-05 G | 1 | 461.00 | 461.00 | A | MODIFICATION OF 3,365,000 GALLON WELDED INTERNAL FLOATING ROOF GASOLINE, DIESEL, ETHANOL, AND METHANOL STORAGE TANK (#8801) WITH A MECHANICAL SHOE PRIMARY SEAL, A WIPER SECONDARY SEAL AND A SLOTTED GUIDEPOLE: |
| N-829-35-1 | STATIONARY CONTAINER (gal) | 3020-05 G | 1 | 461.00 | 461.00 | A | 30,000 BBL (1,260,000 GALLON) WELDED INTERNAL FLOATING ROOF TANK (#30006) WITH A MECHANICAL SHOE PRIMARY SEAL, A WIPER SECONDARY SEAL, AND A SLOTTED GUIDEPOLE |
| N-829-37-0 | 45 electric HP | 3020-01 B | 1 | 143.00 | 143.00 | A | DENATURED ETHANOL BULK OFFLOADING OPERATION CONSISTING OF ONE RAILCAR OFFLOADING STATION |
| N-829-38-0 | MISCELLANEOUS | 3020-06 | 1 | 128.00 | 128.00 | A | DENATURED ETHANOL BULK OFFLOADING OPERATION CONSISTING OF ONE TRUCK OFFLOADING STATION |

Number of Facilities Reported: 1