



September 1, 2026

Trisha Whitfield
City of Tulare Wastewater Plant
1875 South West Street
Tulare, CA 93274

Re: Notice of Preliminary Decision – Title V Permit Renewal
Facility Number: S-548
Project Number: S-1221242

Dear Ms. Whitfield:

Enclosed for your review and comment is the District's analysis of the application to renew the Federally Mandated Operating Permit for City of Tulare Wastewater Plant at 1875 S West St, in Tulare.

The notice of preliminary decision for this project has been posted on the District's website (<https://ww2.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 Ms. Erin Scott, Permit Services Manager, at (661) 392-5500.

Sincerely,

Brian Clements
Director of Permit Services

Enclosures

cc: Courtney Graham, CARB (w/enclosure) via email
cc: EPA Region 9 Air Permitting Manager (w/enclosure) via EPS

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SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT

Proposed Title V Permit Renewal Evaluation City of Tulare Wastewater Plant S-548

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TITLE V PERMIT RENEWAL EVALUATION

Wastewater Treatment Plant

Engineer: Will Jones

Date: 11/08/2024

Facility Number: S-548

Facility Name: City of Tulare Wastewater Plant

Mailing Address: 1875 South West Street Tulare, CA 93274

Contact Name: Trisha Whitfield

Phone: 559-684-4319

Email: twhitfield@tulare.ca.gov

Responsible Official: Trisha Whitfield

Title: Public Works Director

Project #: S-1221242

Deemed Complete: 06/08/2023

I. PROPOSAL

City of Tulare Wastewater Plant was issued a renewed Title V permit on July 31, 2017. As required by District Rule 2520, the applicant is requesting a permit renewal. The existing Title V permit shall be reviewed and modified to reflect all applicable District and federal rules updated, removed, or added since the issuance of the initial Title V permit.

The purpose of this evaluation 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. It also specifically identifies all additions, deletions, and/or changes made to permit conditions or equipment descriptions.

II. FACILITY LOCATION

City of Tulare Wastewater Plant is located at 1875 S West St, Tulare, CA 93274.

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

Rules Updated

- District Rule 2201, New and Modified Stationary Source Review Rule (amended April 20, 2023)
- District Rule 2520, Federally Mandated Operating Permits (June 20, 2024)
- District Rule 4306, Boilers, Steam Generators, and Process Heaters – Phase 3 (Amended December 17, 2020)
- District Rule 4311, Flares (Amended December 17, 2020)
- District Rule 4320, Advanced Emission Reduction Options for Boilers, Steam Generators, and Process Heaters greater than 5.0 MMBtu/hr (Amended December 17, 2020)
- District Rule 4601, Architectural Coatings (amended April 16, 2020)
- District Rule 4623, Storage of Organic Liquids (Amended June 15, 2023)
- District Rule 4702, Internal Combustion Engines (Amended August 19, 2021)
- District Rule 8051, Fugitive Dust Requirements for Control of Fine Particulate Matter (PM10) from Open Area (Amended September 21, 2023)

Rules Removed

- Merced County Rule 109, Equipment Breakdown (SIP approved June 18, 1982)
- San Joaquin County Rule 110, Equipment Breakdown (SIP approved December 5, 1984)
- Fresno County Rule 110, Equipment Breakdown (SIP approved August 22, 1977 ⇒ District resolution to rescind from SIP February 17, 2022)
- Stanislaus County Rule 110, Equipment Breakdown (SIP approved June 1, 1983 ⇒ District resolution to rescind from SIP February 17, 2022)
- Kern County Rule 111, Equipment Breakdown (SIP approved October 24, 1980 ⇒ District resolution to rescind from SIP February 17, 2022)
- Kings County Rule 111, Equipment Breakdown (SIP approved, last amended June 18, 1982 ⇒ District resolution to rescind from SIP February 17, 2022)
- Madera County Rule 113, Equipment Breakdown (SIP approved November 18, 1983 ⇒ District resolution to rescind from SIP February 17, 2022)
- Tulare County Rule 111, Equipment Breakdown (SIP approved August 22, 1977 ⇒ District resolution to rescind from SIP February 17, 2022)

Rules Added

None

Rules Not Updated

- District Rule 1080, Stack Monitoring (amended December 17, 1992)
- District Rule 1081, Source Sampling (amended December 16, 1993)
- District Rule 1100, Equipment Breakdown (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 (December 17, 1992)
- District Rule 2080, Conditional Approval (amended December 17, 1992)
- District Rule 2410, Prevention of Significant Deterioration (adopted November 26, 2012)
- District Rule 4101, Visible Emissions (amended February 17, 2005)
- District Rule 4201, Particulate Matter Concentration (Amended December 17, 1992)
- District Rule 4202, Particulate Matter - Emission Rate (Amended December 17, 1992)
- District Rule 4305, Boilers, Steam Generators, Process Heaters (Amended August 21, 2003)
- 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 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 61, Subpart M, National Emission Standard for Asbestos (Amended July 20, 2004)
- 40 CFR Part 64, Compliance Assurance Monitoring (Amended April 10, 2015)

D. Rule Not Applicable

- 40 CFR Part 60, Subpart O, Standards of Performance for Sewage Treatment Plants (Amended February 27, 2014)

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

None

B. Rules Not Updated

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

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. Fresno County Rule 110, Stanislaus County Rule 110, San Joaquin County Rule 110, Merced County Rule 109, Madera County Rule 113, Kern County Rule 111, Kings County Rule 111, and Tulare County Rule 111 - Equipment Breakdown

In accordance with EPA's State Implementation Plan (SIP) Call, on February 17, 2022, the District rescinded Fresno County Rule 110, Kern County Rule 111, Kings County Rule 111, Madera County Rule 113, Stanislaus County Rule 110, San Joaquin County Rule 110, Tulare County Rule 111, and Merced County Rule 109 from the San Joaquin Valley SIP. Moreover, the references to these County Rules will be removed from the permit.

Condition #	Rule Reference
2	District Rule 1100, 6.1; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and Tulare County Rule 111 (Kern, Tulare, Kings)
3	District Rule 1100, 7.0; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and Tulare County Rule 111 (Kern, Tulare, Kings)

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, except for the terms from project #1223297 which are being included as part of this Title V permit renewal (see section E below).

C. District Rule 2520 - Federally Mandated Operating Permits

District Rule 2520 was amended on June 20, 2024 due to EPA's new rule that removed the emergency affirmative defense provisions from Title V operating permit program regulations.

In response, the District has removed Section 13.4 (Emergency Provisions) from the existing District Rule 2520 (Federally Mandated Operating Permits).

Additionally, the District made administrative revisions to Rule 2520 to improve rule language consistency. Rule 2520 used the term "Title I

Modification” to refer to a major modification under federal non-attainment new source review (NNSR). Instead of having a standalone definition, Rule 2520 referred to the definition in Rule 2201. However, District Rule 2201 no longer defines or uses the term “Title I Modification”. Instead, Rule 2201 defines and uses the term “Federal Major Modification” with reference to the NNSR program contained in 40 CFR 51.165. Therefore, the term “Title I Modification” will be replaced with “Federal Major Modification” in the Rule 2520.

No changes to the permits will be required at this time, therefore continued compliance is expected.

Greenhouse gas emissions will also 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 4306 – Boilers, Steam Generators, and Process Heaters – Phase 3

The rule was amended on December 17, 2020.

This rule limits NO_x and CO emissions from boilers, steam generators, and process heaters. The rule is applicable to gaseous or liquid fuel-fired boilers, steam generators, or process heaters with a heat input greater than 5 million Btu per hour.

The amended rule requires units subject to the rule to meet the applicable NO_x and CO limits listed in Table 2 on or after December 31, 2023.

The facility's sludge heater, permitted as S-548-32-6, is subject to NO_x and CO limits per District Rule 4306. The facility submitted an emission control plan (ECP) under ATC Project #1244451 to ensure compliance with these limits, effective December 31, 2023.

The permittee has submitted an emission control plan (ECP) and is currently in compliance with Rule 4306 emission limits. Therefore, no

changes to the permit will be required at this time, and continued compliance is expected.

E. District Rule 4311 – Flares

The rule was amended December 17, 2020.

The purpose of this rule is to limit the emissions of volatile organic compounds (VOC), oxides of nitrogen (NOx), and sulfur oxides (SOx) from the operation of flares. This rule applies to all operations involving the use of flares.

The amended rule requires flares to meet lower applicable NOx and VOC emission requirements by establishing industry dependent annual throughput thresholds. Additionally, NOx and VOC limits for flares exceeding the annual throughput thresholds were established by requiring ultra-low NOx flare technology implementation.

The facility operates two flares under permits S-548-5-4 and S-548-33-3, which are subject to NOx, VOC, and SOx emission limits under District Rule 4311. These flares are designed to meet ultra-low NOx technology requirements for biogas and digester applications, with monitoring and reporting requirements aligned with throughput limits and annual gas flow monitoring.

The units at this facility subject to this rule submitted Authorities to Construct (ATC Project #1223297) to comply with the current emission limit requirements of Rule 4311, Section 5.9.1 which stated that for specified operations, the units will maintain actual annual fuel use below levels specified in Table 2 (C. Flares used at Digester Operations – 100,000 MMBtu/yr.) for two consecutive years.

Conditions #5, #6, and #7 from ATC S-548-5-4 and conditions #6, #7, and #8 from ATC S-548-33-3 have been included in the proposed Title V permit.

The condition numbers referenced above are shown below respectively here:

- ~~On and after January 1, 2024, Permittee shall limit flaring annual throughput to levels not to exceed 100,000 MMBtu for two consecutive calendar years. [District Rule 4311] Y~~
- *If the flare exceeds the annual throughput threshold of 100,000 MMBtu/yr. for two consecutive calendar years, the operator shall notify the APCO in writing of the exceedance within 30 days following the*

end of the second calendar year. By April 15 of the year after the end of the second consecutive calendar year in which an exceedance of the annual throughput threshold in Table 2 occurred, the applicant shall submit an ATC application to modify or replace the flare to meet Table 3 emission limits. [District Rule 4311] Y

- ~~Effective on and after January 1, 2024, The operator shall monitor the vent gas flow to the flare with a flow-measuring device or other parameters as specified in this permit. The operator shall determine the heating value (Btu per cubic foot) of the vent gas annually in accordance with Section 6.3.6. The operator shall maintain records pursuant to Section 6.1.7. Flares that the operator can verify, based on permit conditions, are not capable of exceeding the annual throughput thresholds in Table 2 shall not be required to monitor vent gas flow to the flare. [District Rule 4311] Y~~*

ATCs S-548-5-4 and S-548-33-3 as well as the engineering evaluation for this change can be found in Attachment D. The EPA commenting period for this title V renewal action, will also serve as the 45-day EPA commenting period for the above-mentioned Title V minor permit modifications.

Since the project is being incorporated into the Title V permit as part of this TV Renewal, continued compliance is expected.

F. District Rule 4320 – Advanced Emission Reduction Options for Boilers, Steam Generators, and Process Heaters Greater than 5.0 MMBtu/hr

The rule was amended on December 17, 2020.

This rule limits NO_x, CO, SO₂, and PM₁₀ emissions from boilers, steam generators, and process heaters. The rule is applicable to gaseous or liquid fuel-fired boilers, steam generators, or process heaters with a heat input greater than 5 million Btu per hour.

The amended rule requires units subject to the rule to meet the applicable NO_x limits listed in Table 2 on or after December 31, 2023.

The facility's sludge heater under permit S-548-32 is subject to Rule 4320 requirements for NO_x and CO emissions. This rule mandates advanced emission reduction options for units above 5.0 MMBtu/hr. The facility submitted an updated emission control plan to reduce NO_x emissions to 5 ppmvd @ 3% O₂, ensuring compliance with the latest standards.

The permittee has submitted an ECP and an Authority to Construct (ATC Project #1244451) for unit S-548-32 for Rule 4320. The ATC project is to revise their current NO_x emission limits from 9 ppmvd @ 3% O₂ to 5 ppmvd @ 3% O₂ to ensure compliance with this Rule. Therefore, no further discussion is required and compliance is expected.

G. District Rule 4601 – Architectural Coatings

This rule was amended April 16, 2020.

The Rule limits the emissions of VOCs from architectural coatings, and it specifies architectural coatings storage, cleanup, and labeling requirements.

The amendments to the rule included the following:

- Numerous definitions were 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).
- 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.
- The phrase "blends or repackages" was added to rule language to extend the applicability of rule language to facilities involved in those activities.
- 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.
- Labeling requirements were updated to add new labeling standards consistent with new coatings categories per the SCM.
- 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.
- New sections were added to coincide with new coating categories pursuant to the ARB SCM.
- The compliance schedule was updated to account for the new amendments to rule language by adding the phrase "the dates specified within the text of the rule."

The only reference to this rule is in the facility-wide permit (S-548-0-4), specifically by conditions #24 through #26. The following existing conditions have been revised as shown in strikethrough/underline to reflect the changes to rule 4601 as follows:

24. *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~~ for use or sale within the District. [District Rule 4601] Y*
25. *All VOC-containing materials subject to Rule 4601 (~~12/17/09~~ 4/16/20) shall be stored in closed containers when not in use. [District Rule 4601] Y*
26. *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~~ 4/16/20). [District Rule 4601] Y*

Therefore, continued compliance with this rule is expected.

H. District Rule 4623 – Storage of Organic Liquids

This rule was amended on June 15, 2023.

The purpose of this rule is to limit VOC emissions by requiring proper maintenance of tanks, use of pressure-vacuum relief valves and/or vapor control systems for various tanks.

During the most recent amendment to this rule, the District lowered leak thresholds within the rule, required quarterly inspections of all components, and shortened repair periods for certain types of leaks. The amendments will provide consistency between the District's LDAR rules and ensure compliance with the most recent AB 617 Best Available Retrofit Control Technology (BARCT) requirements. The LDAR compliance deadline for all rules will be July 1, 2024. The exemption for True Vapor Pressure (TVP) has also been changed from 0.5 psia to 0.1 psia.

Section 5.0 Requirements

For section 5.1, the facility's 19,500-gallon methanol storage tank under permit S-548-37-1 with a TVP of ~4.6 psia must adhere to the table below from Rule 4623.

Tank Capacity (Gallons)	True Vapor Pressure (TVP) of Organic Liquid
	1.5 psia to <11 psia
(Group A) 1,100 to 19,800	Pressure-vacuum relief valve, or internal floating roof, or external floating roof, or vapor recovery system

Condition 5 ensures compliance with this requirement.

Section 5.2 requires the pressure-vacuum relief valve shall be set to within ten (10) percent of the maximum allowable working pressure of the tank. The pressure-vacuum relief valve shall be permanently labeled with the operating pressure settings. The pressure-vacuum relief valve shall be properly installed and maintained in good operating order in accordance with the manufacturer's instructions, and shall remain in a leak-free condition except when the operating pressure exceeds the valve set pressure.

Condition 5 ensures compliance with this requirement.

Section 5.3 has requirements for floating roof tanks, this tank is a fixed roof tank, therefore it does not apply.

Section 5.4 has requirements for internal floating roof tanks, this tank is a fixed roof tank, therefore it does not apply.

Section 5.5 has requirements for floating roof deck fittings, this tank is a fixed roof tank, therefore it does not apply.

Section 5.6 has requirements for vapor recovery systems, this tank is not connected to a vapor recovery system, therefore it does not apply.

Section 5.7 has requirements for the voluntary tank preventative inspection and maintenance and tank interior cleaning program, this tank is not proposed any voluntary inspection and maintenance programs, therefore it does not apply.

Section 5.8 has requirements for preventive maintenance and interior cleaning requirements for fixed roof tanks.

5.8.1 Conduct maintenance and cleaning activities pursuant to Section 5.7.5.

5.7.5 Storage Tank Degassing and Interior Cleaning Requirements states that after June 30, 2024, operators of Fixed and Floating Roof Tanks shall comply with the provisions of Section 5.7.5.

5.7.5.1 Notification

Operators of storage tanks subject to the requirements of Section 5.7 shall notify the APCO in writing at least three (3) days prior to performing tank degassing and interior tank cleaning activities. Written notification shall include the following information:

- 5.7.5.1.1 The PTO number and physical location of the tank being degassed,
- 5.7.5.1.2 The date and time that tank degassing and cleaning activities will begin,
- 5.7.5.1.3 The degassing method, as allowed pursuant to Section 5.7.5.4, to be used,
- 5.7.5.1.4 The method to be used to clean the tank, including any solvents to be used, and
- 5.7.5.1.5 The method to be used to dispose of the removed sludge, including methods that will be used to control emissions from the receiving vessel and emissions during transport.

The following condition will be added to the permit:

- *Permittee shall notify the APCO in writing at least three (3) days prior to performing tank degassing and interior tank cleaning activities. Written notification shall include the following information listed in Section 5.7.5.1. [District Rule 4623]*

5.7.5.2 Records

Operators shall maintain records of tank cleaning activities for a period of 5 years and present said records to the APCO upon request. Records should include the final details of the planned activities submitted pursuant to Section 5.7.5.1.

The following condition will be added to the permit:

- *Permittee shall maintain records of tank cleaning activities for a period of 5 years and present the*

records to the District upon request. Records should include the final details of the planned degassing and cleaning activities submitted pursuant to the notification requirements indicated in this permit. [District Rule 4623]

5.7.5.3 Fixed-Roof Tanks Operating Only a Pressure-Vacuum Relief Valve

- 5.7.5.3.1 Except for complying with Section 5.7.5.3.2 requirements, fixed-roof tanks allowed, pursuant to Tables 3, 4, 5, and 6 of this rule, to operate with a pressure-vacuum relief valve are not subject to the degassing requirements specified in Section 5.7.5.4.
- 5.7.5.3.2 Operators shall comply with the requirements of Section 5.2 during the process of draining, and refilling the tank with an organic liquid having a TVP of 0.5 psia or greater until June 30, 2024, or TVP of 0.1 psia or greater after June 30, 2024.
- 5.7.5.3.3 The requirements specified in Sections 5.1 and 5.2 shall not apply to the tank during interior cleaning or maintenance activities.

The following condition will be added to the permit:

- *Permittee shall comply with the requirements of Section 5.2 during the process of draining, and refilling the tank with an organic liquid having a TVP of 0.1 psia. [District Rule 4623]*

5.7.5.4 has Tank Degassing Requirements, however this tank operates with a pressure-vacuum relief valve and per section 5.7.5.3.1, it is not subject to the tank degassing requirements listed under this section.

5.7.5.6 Removed Sludge

Operators of tanks containing an organic liquid with a TVP of 1.5 psia or greater shall control emissions from the removed sludge by complying with all of the following provisions:

- 5.7.5.6.1 During sludge removal the operator shall control emissions from the receiving vessel by operating an

APCO-approved vapor control device that reduces emissions of organic vapors by at least 95 percent.

5.7.5.6.2 Operators shall transport removed sludge in closed, liquid leak-free containers.

5.7.5.6.3 Notwithstanding Section 5.7.5.6.2, operators shall store removed sludge, until final disposal, in leak-free containers, or tanks complying with Section 5.1 requirements. Sludge that is to be used to manufacture roadmix, as defined in Rule 2020 (Exemptions), is exempt from this requirement. Roadmix manufacturing operations exempt pursuant to Rule 2020, shall maintain documentation of their compliance with Rule 2020, and promptly make said documentation available to the APCO upon request.

The following condition will be added to the permit:

- *Permittee shall control emissions from the removed sludge by complying with all of the following provisions listed under Section 5.7.5.6. [District Rule 4623]*

Section 5.8 Preventive Maintenance and Interior Cleaning Requirements for Fixed Roof Tanks (Effective after June 30, 2024)

5.8.1 Conduct maintenance and cleaning activities pursuant to Section 5.7.5 above.

Section 5.9 Inspection and Re-Inspection Requirements (Effective after June 30, 2024)

5.9.1 specifies the determination of compliance with the leak standards during District inspections. The following condition will be updated to reflect the following:

5. *This tank shall be equipped with a pressure-vacuum (PV) relief valve set to within 10% of the maximum allowable working pressure of the tank, permanently labeled with the operating pressure settings, properly maintained in good operating order in accordance with the manufacturer's instructions, and shall remain in ~~gas-tight~~ leak-free condition except when the operating pressure exceeds the valve's set pressure. [District Rule 4623] Y*

5.9.2 specifies the determination of compliance with the leak standards during operator inspections. The following condition will be added to the ATCs to ensure compliance:

- *All leaks shall be repaired within the following timeframes: (1) Minor gas leak within 14 calendar days; (2) Major gas leak within 2 calendar days; or (3) Liquid leak within 2 calendar days. Failure to repair leaks within the timeframes specified shall be considered a violation. [District Rule 4623]*

Section 5.9.3 states that a leak discovered during Operator and District Inspection(s) above the leak threshold defined in Section 3.14 and in Table 2 shall be repaired within the timeframes of Table 9.

Rule 4623 – Table 9 Repair Time Periods	
Leak Threshold	Repair Time Period
Minor Leak	14 Calendar Days
Major Leak	2 Calendar Days
Liquid Leak	2 Calendar Days

The following proposed condition will be added to the ATCs to ensure compliance:

- *All leaks shall be repaired within the following timeframes: (1) Minor gas leak within 14 calendar days; (2) Major gas leak within 2 calendar days; or (3) Liquid leak within 2 calendar days. Failure to repair leaks within the timeframes specified shall be considered a violation. [District Rule 4623]*

Section 5.9.4 states that at least once each calendar quarter all components shall be tested for leaks, except for inaccessible components, unsafe to monitor components and floating roof tanks including their deck fittings and components. The following conditions will be added to the ATCs to ensure compliance with this section:

- *All components shall be inspected at least once every quarter by the facility operator in accordance with EPA Method 21, with the instrument calibrated with methane, in units of parts per million volume, to ensure compliance with the leaking provisions of this permit, except for inaccessible and unsafe to monitor components. Inaccessible and unsafe to monitor components shall be inspected at least once every 12 months in accordance with EPA Method 21. [District Rule 4623]*

- *Except for inaccessible components and unsafe to monitor components, operators shall audio-visually inspect (by hearing and by sight) all hatches, pressure-vacuum relief valves, pressure relief devices, and pump seals for leaks or indications of leaks at least once every 24 hours for facilities that are visited daily, or at least once per calendar week for facilities that are not visited at least once every 24 hours. Any audio-visual inspection that indicates a leak shall be tested using US EPA Reference Method 21 within 24 hours of the detection, and the leak shall be repaired in accordance with the repair timeframes specified in this permit. [District Rule 4623]*
- *An operator shall inspect all new, replaced, or repaired fittings, flanges, and threaded connections within 72 hours of placing the component in service. [District Rule 4623]*
- *A District inspection in no way fulfills any of the mandatory inspection requirements that are placed upon operators and cannot be used or counted as an inspection required of an operator. [District Rule 4623]*
- *Upon detection of a component with a leak concentration measured above the standards specified, the operator shall affix to that component a weatherproof readily visible tag that identifies the date and time of leak detection measurement and the measured leak concentration. The tag shall remain affixed to the leaking component until it has been successfully repaired or replaced, after which the tag shall be removed. Successful repair shall be confirmed by re-measuring the components using US EPA Method 21. [District Rule 4623]*
- *Excluding tanks, components or component parts which incur five (5) repair actions within a rolling 12-month period shall be replaced with a compliant component in working order and must be re-measured using US EPA Reference Method 21, to determine that the component is below the minimum leak threshold. A record of the replacement must be maintained in a log at the facility, and shall be made available upon request by the APCO. [District Rule 4623]*
- *An operator shall attempt to minimize all component leaks immediately to the extent possible, but no later than one (1) hour after detection of leak in order to stop or reduce leakage to the atmosphere. [District Rule 4623]*

- *If the leak has been minimized but the leak still exceeds the applicable leak standards of this rule, an operator shall repair or replace the leaking component, vent the leaking component to an APCO-approved VOC control system, or remove the leaking component from operation as soon as practicable but not later than the time period specified in this permit. [District Rule 4623]*

Section 6.0 Administrative Requirements

Section 6.1 has requirements for the inspection of floating roof tanks, this tank is a fixed roof tank, therefore it does not apply.

Section 6.2 has requirements for TVP and API Gravity Testing of Stored Organic Liquid in Uncontrolled Fixed Roof Tanks.

However, Sections 6.2.1 and 6.2.2 shall not apply to tanks that exclusively store organic liquids listed in Appendix A, provided the storage temperature indicated in Appendix A is not exceeded at any time. An operator shall comply with Section 6.3.6 if the information in Appendix A is used to demonstrate the TVP and/or API gravity of the stored liquid. Therefore, the facility will comply with Section 6.3.6.

Section 6.3 Recordkeeping

An operator shall retain accurate records required by this rule for a period of five years. Records shall be made available to the APCO upon request, except for certain records that need to be submitted as specified in the respective sections below.

6.3.1 states an operator whose tanks are subject to the requirements of this rule shall keep an accurate record of each organic liquid stored in each tank, including its storage temperature, TVP, and API gravity. The requirement of 6.3.1 shall not apply to fixed roof tanks equipped with a vapor recovery system, external floating roof tanks, or internal floating roof tanks that meet the requirements of this rule. The following condition will be added to the permit:

- *Permittee an operator whose tanks are subject to the requirements of this rule shall keep an accurate record of each organic liquid stored in each tank, including its storage temperature, TVP, and API gravity. [District Rule 4623]*

6.3.2 has requirements for emergency standby tanks, this tank is not an emergency standby tank, therefore it does not apply.

6.3.3 has requirements for temporary tanks, this tank is not a temporary tank, therefore it does not apply.

6.3.4 has requirements for small producers, this facility is not a small producer, therefore it does not apply.

6.3.5 has requirements for submitting the reports of floating roof tank inspections, this tank is a fixed roof tank, therefore it does not apply.

6.3.6 states that an operator shall submit the records of TVP and API gravity testing conducted in accordance with the requirements of Section 6.2 to the APCO within 45 days after the date of testing. The record shall include the tank identification number, PTO number, type of stored organic liquid, TVP and API gravity of the stored organic liquid, test methods used, and a copy of the test results. An operator who uses the information in Appendix A to demonstrate the TVP and/or API gravity of the stored organic liquid shall submit information to the APCO within 45 days after the date that the type of organic liquid stored in the tank has been determined. The following condition will be added to the permit:

- *Permittee shall submit the records of TVP and API gravity testing conducted in accordance with the requirements of Section 6.2 to the APCO within 45 days after the date of testing. The record shall include the tank identification number, PTO number, type of stored organic liquid, TVP and API gravity of the stored organic liquid, test methods used, and a copy of the test results. [District Rule 4623]*

6.3.7 has requirements for maintaining the records of floating roof tanks, this tank is a fixed-roof tank, therefore it does not apply.

6.3.8 states that an operator who is demonstrating their tank PTE emissions are below six (6) tons of VOC per year or actual emissions are below four (4) tons of VOC per year shall keep an accurate record of each organic liquid stored in each tank including storage temperature, TVP, and monthly throughput. The following condition will be added to the permit:

- *Permittee shall keep an accurate record of each organic liquid stored in each tank including storage temperature, TVP, and monthly throughput. [District Rule 4623]*

6.3.9 Inspection Log

The operator shall maintain an inspection log containing, at a minimum, all of the following information:

- 6.3.9.1 Total number of components inspected, and total number and percentage of leaking components found during inspection.
- 6.3.9.2 Location, type, name or description of each leaking component and description of any unit where the leaking component is found.
- 6.3.9.3 Date of leak detection and method of leak detection.
- 6.3.9.4 For gas leaks, record the leak concentration in ppmv, and for liquid leaks record the volume.
- 6.3.9.5 Date of repair, replacement, or removal from operation of leaking components.
- 6.3.9.6 After the component is repaired or is replaced, the date of re-inspection and the leak concentration in ppmv.
- 6.3.9.7 Inspector's name, business mailing address, and business telephone number.
- 6.3.9.8 The facility operator responsible for the inspection and repair program shall sign and date the inspection log certifying the accuracy of the information recorded in the log.
- 6.3.9.9 Records of each calibration of the portable hydrocarbon detection instrument utilized for inspecting components, including a copy of current calibration gas certification from the vendor of said calibration gas cylinder, the date of calibration, concentration of calibration gas, instrument reading of calibration gas before adjustment, instrument reading of calibration gas after adjustment, calibration gas expiration date, and calibration gas cylinder pressure at the time of calibration.
- 6.3.9.10 Copies of all records required by Section 6.3 of this rule shall be retained for a minimum of five (5) years after the date of an entry, and the records shall be made available to the APCO, CARB, and US EPA upon request.

The following condition will be added to the permit:

- *The permittee shall maintain an inspection log containing, at a minimum, all of the following information listed under Section 6.3.9. [District Rule 4623]*

6.4 Test and Inspection Methods

The following test methods shall be used unless otherwise approved by the APCO and the US EPA.

6.4.1 states analyses of halogenated exempt compounds, this tank stores Methanol which is not a halogenated exempt compound, therefore it does not apply.

6.4.2 states how the API gravity of crude oil or petroleum distillate shall be determined, this tank does not store crude oil, therefore it does not apply.

6.4.3 Except for crude oil subject to Section 6.4.4, the TVP of any organic liquid shall be determined by measuring the Reid Vapor Pressure (RVP) using ASTM D 323-94 (Test Method for Vapor Pressure for Petroleum Products), and converting the RVP to TVP at the tank's maximum organic liquid storage temperature. The conversion of RVP to TVP shall be done in accordance with the procedures in Appendix B. Appendix B is an excerpt from the oil and gas section of "ARB Technical Guidance Document to the Criteria and Guidelines Regulation for AB 2588", dated August 1989. The following condition will be added to the permit:

- *The TVP shall be determined by measuring the Reid Vapor Pressure (RVP) using ASTM D 323-94 (Test Method for Vapor Pressure for Petroleum Products), and converting the RVP to TVP at the tank's maximum organic liquid storage temperature. The conversion of RVP to TVP shall be done in accordance with the procedures in Appendix B. Appendix B is an excerpt from the oil and gas section of "ARB Technical Guidance Document to the Criteria and Guidelines Regulation for AB 2588", dated August 1989. [District Rule 4623]*

6.4.4 states how to determine TVP of crude oil with an API gravity of 26° or less, this tank does not store crude oil, therefore it does not apply.

6.4.5 An operator may use the information in Appendix A to determine the TVP of the stored organic liquid in a tank provided the storage temperature listed in Appendix A is not exceeded at any time.

6.4.6 describes the control efficiency of any VOC destruction device, this tank does not have a VOC destruction device, therefore it does not apply.

6.4.7 states analyses of halogenated exempt compounds, this tank stores Methanol which is not a halogenated exempt compound, therefore it does not apply.

6.4.8 Measurements of a gas-leak concentration shall be determined by US EPA Method 21.

6.4.8.1 After June 30, 2024, All leaks detected with the use of an OGI instrument shall be measured using EPA Reference Method 21 within two (2) calendar days of initial OGI leak detection or within 14 calendar days of initial OGI leak detection of an inaccessible or unsafe to monitor component to determine compliance with the leak thresholds and repair timeframes specified in Table 11.

The following condition will be added to the permit:

- *All leaks detected with the use of an OGI instrument shall be measured using EPA Reference Method 21 within two (2) calendar days of initial OGI leak detection or within 14 calendar days of initial OGI leak detection of an inaccessible or unsafe to monitor component to determine compliance with the leak thresholds and repair timeframes specified in Table 11. [District Rule 4623]*

Section 7 Compliance Schedule

The facility complies with the compliance schedule in the amended Rule 4623. Therefore, compliance is expected.

I. District Rule 4702 – Internal Combustion Engines

This rule was amended on August 19, 2021.

The purpose of this rule is to limit the emissions of nitrogen oxides (NO_x), carbon monoxide (CO), volatile organic compounds (VOC), particulate matter (PM), and sulfur oxides (SO_x) from internal combustion engines.

The facility operates several emergency internal combustion (IC) engines under permits S-548-7-6, '-11-5, '-14-4, '-28-3, '-29-2, '-30-2, and '-34-2, which are limited in annual operation and exempt from standard NO_x limits due to emergency standby use. Under District Rule 4702, these engines must meet recordkeeping and reporting requirements for hours of operation, maintenance, and testing.

The requirements of Section 5.10 (monitoring requirements) and 6.2.3 (annual operating records requirements), were left unchanged during the recent rule amendment. Therefore, no further discussion is required and compliance is expected.

J. District Rule 8051 – Fugitive Dust Requirements for Control of Fine Particulate Matter (PM10) from Open Area

This rule was amended September 21, 2023.

The purpose of this rule is to limit fugitive dust emissions from open areas. This rule applies to any open area having 0.5 acres or more within urban areas, or 3.0 acres or more within rural areas; and contains at least 1000 square feet of disturbed surface area.

The amendments expanded dust control measures to smaller parcels, reinforcing the facility's compliance with fugitive dust standards.

Sections 4.2 and 7.0 shall not become applicable until the effective date of the federal Environmental Protection Agency's (EPA) final and full approval of the California State Implementation Plan (SIP) as meeting the contingency measure requirements of the Clean Air Act section 172(c)(9) for San Joaquin Valley for the applicable PM2.5 National Ambient Air Quality Standards (NAAQS).

Upon triggering Section 7.0, rural parcels between one (1) to three (3) acres implementing fire prevention activities required by a Federal, State, or local agency using the following methods:

- 4.2.1 Mowing and/or cutting, which leaves at least three inches of stubble immediately after such mowing and/or cutting has occurred;
- 4.2.2 Discing using no more than two passes. Operator shall minimize speed of equipment to limit dust emissions.

The facility complies with Section 5.0 requirements by minimizing dust emissions during operations, particularly through dust suppression measures in unpaved areas.

The following condition on permit S-548-0-3 shall be updated to ensure compliance:

33. {4393} Whenever an open areas~~are~~ is a disturbed surface area or vehicles are used in an 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) (9/21/2023) or Rule 8011 (8/19/2004). [District Rules 8011 and 8051] Y

Therefore, continued compliance is expected.

K. Various Rule Section Reference Updates

To maintain consistency and avoid outdated references due to potential section changes in rule amendments, specific section references have been removed from rule citations.

The following existing conditions have been revised as shown in strikethrough/underline:

S-548-0-4:

Condition #	Rule Reference
4	District Rule 1160, 5.0
5	District Rule 2010, 3.0 and 4.0 ; and 2020
6	District Rules 2070, 7.0 ; 2080, and 2520, 9.8.1 and 9.13.1
9	District Rule 2520, 9.4.1
10	District Rule 2520, 9.4.2
11	District Rule 2520, 9.5.1
12	District Rules 2520, 9.5.2 and 1100, 7.0
13	District Rule 2520, 9.7
14	District Rule 2520, 9.8.2
15	District Rule 2520, 9.8.3
16	District Rule 2520, 9.8.4
17	District Rule 2520, 9.8.5
18	District Rule 2520, 9.9
19	District Rule 2520, 9.13.2.1
20	District Rule 2520, 9.13.2.2
21	District Rule 2520, 9.13.2.3
22	District Rule 2520, 9.13.2.4
24	District Rule 4601, 5.1
25	District Rule 4601, 5.4
26	District Rule 4601, 6.1 and 6.3
27	District Rule 2520, 9.13.1 and 10.0
37	District Rule 2520, 9.16
38	District Rule 2520, 5.2
39	District Rule 2520, 9.1.1
40	District Rule 2520, 13.2
41	District Rule 2520, 13.2

S-548-7:

Condition #	Rule Reference
2	District Rule 2520, 13.2

S-548-11:

Condition #	Rule Reference
6	District Rule 2520, 13.2

S-548-14:

Condition #	Rule Reference
7	District Rule 2520, 13.2
13	District Rule 2520, 9.3.2 and 17 CCR 93115

S-548-16:

Condition #	Rule Reference
11	District Rule 2520, 9.3.2 and 17 CCR 93115

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.

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
- D. Engineering Evaluation for S-1223297 and Authorities to Construct (ATCs) S-548-5-4 and S-548-33-3
- E. Stringency Comparison of District Rule 4623 Non-SIP Version (6/15/23) to Current SIP Version (5/19/05)

ATTACHMENT A

Draft Renewed Title V Operating Permit

San Joaquin Valley

Air Pollution Control District

FACILITY: S-548-0-4

EXPIRATION DATE: 10/31/2022

FACILITY-WIDE REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. 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] Federally Enforceable Through Title V Permit
3. 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] Federally Enforceable Through Title V Permit
4. 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] Federally Enforceable Through Title V Permit
5. 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 and 2020] Federally Enforceable Through Title V Permit
6. 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, 2080, and 2520] Federally Enforceable Through Title V Permit
7. {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
8. {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
9. 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] Federally Enforceable Through Title V Permit
10. 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] 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: CITY OF TULARE, WASTEWATER PLANT

Location: 1875 S WEST ST, TULARE, CA 93274

S-548-0-4 : 7/9/2026 10:50:12 AM -- JONESW

11. 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] Federally Enforceable Through Title V Permit
12. 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 and 1100] Federally Enforceable Through Title V Permit
13. 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] Federally Enforceable Through Title V Permit
14. 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] Federally Enforceable Through Title V Permit
15. 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] Federally Enforceable Through Title V Permit
16. The permit does not convey any property rights of any sort, or any exclusive privilege. [District Rule 2520] Federally Enforceable Through Title V Permit
17. 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] Federally Enforceable Through Title V Permit
18. 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] Federally Enforceable Through Title V Permit
19. 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] Federally Enforceable Through Title V Permit
20. 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] Federally Enforceable Through Title V Permit
21. 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] Federally Enforceable Through Title V Permit
22. 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] Federally Enforceable Through Title V Permit
23. {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

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

24. 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 2 for use or sale within the District. [District Rule 4601] Federally Enforceable Through Title V Permit
25. All VOC-containing materials subject to Rule 4601(4/16/20) shall be stored in closed containers when not in use. [District Rule 4601] Federally Enforceable Through Title V Permit
26. The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (4/16/20). [District Rule 4601] Federally Enforceable Through Title V Permit
27. 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] Federally Enforceable Through Title V Permit
28. {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
29. {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
30. {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
31. {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
32. {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
33. Whenever an open area is a disturbed area, or vehicles are used in an 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 (9/21/2023) or Rule 8011 (8/19/2004). [District Rules 8011 and 8051] Federally Enforceable Through Title V Permit
34. {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
35. {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
36. {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

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

37. 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] Federally Enforceable Through Title V Permit
38. 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] Federally Enforceable Through Title V Permit
39. 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] Federally Enforceable Through Title V Permit
40. 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] Federally Enforceable Through Title V Permit
41. 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 (9/21/2025); 8061 (8/19/2004); and 8071 (9/16/2004). A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit
42. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report are due October 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

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-548-5-5

SECTION: SW16 **TOWNSHIP:** 20S **RANGE:** 24E

EQUIPMENT DESCRIPTION:
VARAC MODEL 244-W BIOGAS FLARE

EXPIRATION DATE: 10/31/2022

PERMIT UNIT REQUIREMENTS

1. Volume of biogas combusted in flare shall not exceed 88,150 cubic feet per hour. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. Daily emissions of air contaminants shall not exceed the following limits: 2.7 lb PM10/day, 221.5 lb SOx (as SO2)/day, 90.7 lb NOx (as NO2)/day, 18.2 lb CO/day, or 2.5 lb VOC/day. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Permittee shall limit flaring annual throughput to levels not to exceed 100,000 MMBtu for two consecutive calendar years. [District Rule 4311] Federally Enforceable Through Title V Permit
5. If the flare exceeds the annual throughput threshold of 100, 000 MMBtu/yr for two consecutive calendar years, the operator shall notify the APCO in writing of the exceedance within 30 days following the end of the second calendar year. By April 15 of the year after the end of the second consecutive calendar year in which an exceedance of the annual throughput threshold in Table 2 occurred, the applicant shall submit an ATC application to modify or replace the flare to meet Table 3 emission limits. [District Rule 4311] Federally Enforceable Through Title V Permit
6. The operator shall monitor the vent gas flow to the flare with a flow-measuring device or other parameters as specified in this permit. The operator shall determine the heating value (Btu per cubic foot) of the vent gas annually in accordance with Section 6.3.6. The operator shall maintain records pursuant to Section 6.1.7. Flares that the operator can verify, based on permit conditions, are not capable of exceeding the annual throughput thresholds in Table 2 shall not be required to monitor vent gas flow to the flare. [District Rule 4311] Federally Enforceable Through Title V Permit
7. Compliance with SOx emission limit shall be demonstrated by sampling biogas sulfur content and calculating the resulting daily SOx emissions at least once every two years. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The District shall be notified by the permittee 15 days prior to each test. The test results shall be submitted to the District no later than 30 days after each test. [District Rule 1081] Federally Enforceable Through Title V Permit
9. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
10. 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
11. The following test methods shall be used: fuel gas sulfur content - ASTM D3246 or double GC for H2S and mercaptans. [District Rule 1081] 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. Permittee shall maintain records of the volume of biogas combusted in the flare each day. Records shall be maintained for 5 years and be made readily available for District inspection upon request. [District Rule 2201, District Rule 4311, and 40 CFR 64] Federally Enforceable Through Title V Permit
13. Visible emissions monitoring shall be conducted at least annually, using EPA Method 22. [40 CFR 60.18(f)(1) and 40 CFR 64] Federally Enforceable Through Title V Permit
14. The flame shall be present at all times when combustible gases are vented through the flare. [District Rule 4311, 40 CFR 60.18(c)(2), and 40 CFR 64] Federally Enforceable Through Title V Permit
15. The outlet shall be equipped with an automatic ignition system, or, shall operate with a pilot flame present at all times when combustible gases are vented through the flare, except during purge periods for automatic-ignition equipped flares. [District Rule 4311, 40 CFR 60.18(f)(2), and 40 CFR 64] Federally Enforceable Through Title V Permit
16. Except for flares equipped with a flow-sensing ignition system, a heat sensing device such as a thermocouple, ultraviolet beam sensor, infrared sensor, or an equivalent device, capable of continuously detecting at least one pilot flame or the flare flame is present shall be installed and operated. [District Rule 4311, 40 CFR 60.18(f)(2), and 40 CFR 64] Federally Enforceable Through Title V Permit
17. Flares that use flow-sensing automatic ignition systems and which do not use a continuous flame pilot shall use purge gas for purging. [District Rule 4311] Federally Enforceable Through Title V Permit
18. Open flares in which the flare gas pressure is less than 5 psig shall be operated in such a manner that meets the provisions of 40 CFR 60.18. [District Rule 4311 and 40 CFR 64] Federally Enforceable Through Title V Permit
19. The flare shall be operated according to the manufacturer's specifications, a copy of which shall be maintained on site. [40 CFR 60.18(d) and 40 CFR 64] Federally Enforceable Through Title V Permit
20. A non-assisted flare shall have a diameter of 3 inches or greater, have a minimum hydrogen content of 8.0% by volume, and be designed for and operated with an exit velocity less than 122 ft/sec and less than the velocity V_{max} , as determined by the equation specified in paragraph 40 CFR 60.18 (c)(3)(i)(A). [40 CFR 60.18 (c)(3)(i)(a) and 40 CFR 64] Federally Enforceable Through Title V Permit
21. The actual exit velocity of a flare shall be determined by dividing the volumetric flowrate (in units of standard temperature and pressure), as determined by Reference Methods 2, 2A, 2C, or 2D as appropriate; by the unobstructed (free) cross sectional area of the flare tip. [40 CFR 60.18 (f)(4) and 40 CFR 64] Federally Enforceable Through Title V Permit
22. Air-assisted or steam-assisted flares shall only be used when the net heating value of the gas being combusted is 300 Btu/scf or greater. Non-assisted flares shall only be used when the net heating value of the gas being combusted is 200 Btu/scf or greater. [40 CFR 60.18 (c)(3)(ii) and 40 CFR 64] Federally Enforceable Through Title V Permit
23. Steam-assisted and non-assisted flares shall be operated with an exit velocity less than 60 ft/sec, except as provided in 40 CFR 60.18 (c)(4)(ii) and (iii). [40 CFR 60.18 (c)(4)(i) and 40 CFR 64] Federally Enforceable Through Title V Permit
24. Steam-assisted and non-assisted flares may be operated with an exit velocity equal to or greater than 60 ft/sec, but less than 400 ft/sec, if the net heating value of the gas being combusted is greater than 1,000 Btu/scf. [40 CFR 60.18 (c)(4)(ii) and 40 CFR 64] Federally Enforceable Through Title V Permit
25. Steam-assisted and non-assisted flares may be operated with an exit velocity less than the velocity V_{max} , as determined by the methods specified in 40 CFR 60.18 (f)(5), and less than 400 ft/sec. [40 CFR 60.18 (c)(4)(iii) and 40 CFR 64] Federally Enforceable Through Title V Permit
26. Air-assisted flares shall be operated with an exit velocity less than the velocity V_{max} as determined by the methods specified in 40 CFR 60.18 (f)(6). [40 CFR 60.18 (c)(5) and 40 CFR 64] Federally Enforceable Through Title V Permit
27. The net heating value of the gas being combusted the flare shall be calculated pursuant to 40 CFR 60.18(f)(3) or by using EPA Method 18, ASTM D1946, and ASTM D2382 if published values are not available or cannot be calculated. [40 CFR 60.18 (f)(3)] 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 maintain, and make available for District inspection, all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 4311 and 40 CFR 64] Federally Enforceable Through Title V Permit
29. The permittee shall visually inspect the flare's emergency bypass valve to ensure the valve is maintained in the closed position. [40 CFR 64] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-548-7-6

EXPIRATION DATE: 10/31/2022

SECTION: SW16 **TOWNSHIP:** 20S **RANGE:** 24E

EQUIPMENT DESCRIPTION:

900 BHP CATERPILLAR MODEL D348 V-12 S/N 36J1780 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE
POWERING AN ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements of Tulare County Rule 407. A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit
3. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
4. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
5. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201, 4801, and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 20 hours per calendar year. [District Rule 4702, 40 CFR 63 Subpart ZZZZ, and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
8. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
9. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] 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.

Facility Name: CITY OF TULARE, WASTEWATER PLANT

Location: 1875 S WEST ST, TULARE, CA 93274

S-548-7-6: 7/9/2026 10:50:19 AM -- JONESW

10. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.), and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rules 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
11. The permittee shall maintain monthly records of the type of fuel purchased. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
12. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 4702, 40 CFR 63 Subpart ZZZZ, and 17 CCR 93115] Federally Enforceable Through Title V Permit
13. On and after May 3, 2013, the permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
14. On and after May 3, 2013, the engine shall be in full compliance with 40 CFR Part 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). [40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
15. On and after May 3, 2013, the engine's oil and filter shall be changed every 500 hours of operation or every 12 months, whichever comes first. [40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
16. On and after May 3, 2013, the engine's air filter shall be inspected every 1,000 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
17. On and after May 3, 2013, the engine's hoses and belts shall be inspected every 500 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
18. On and after May 3, 2013, the permittee shall maintain records of performance tests and performance evaluations as required in §63.10(b)(2)(viii) and records of required maintenance performed on the air pollution control and monitoring equipment. [40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
19. On and after May 3, 2013, the permittee shall maintain records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. The permittee shall also maintain records of action taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [40 CFR 63, Subpart ZZZZ] 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: S-548-11-5

EXPIRATION DATE: 10/31/2022

SECTION: SW16 **TOWNSHIP:** 20S **RANGE:** 24E

EQUIPMENT DESCRIPTION:

1502 HP CATERPILLAR MODEL 3508B DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. This engine shall be equipped with either a positive crankcase ventilation (PCV) system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
2. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap, roof overhang, or any other obstruction. [District Rule 4102]
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
4. NOx emissions shall not exceed 6.7 g/hp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The PM10 emissions rate shall not exceed 0.05 g/hp-hr based on US EPA certification using ISO 8178 test procedure. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements of Tulare County Rule 407. A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit
7. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 40 CFR 63 Subpart ZZZZ, and 17 CCR 93115] Federally Enforceable Through Title V Permit
8. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
9. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801, and 17 CCR 93115] Federally Enforceable Through Title V Permit
10. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] 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.

Facility Name: CITY OF TULARE, WASTEWATER PLANT

Location: 1875 S WEST ST, TULARE, CA 93274

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11. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
12. The permittee shall maintain monthly records of the type of fuel purchased. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
13. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 4702, 40 CFR 63 Subpart ZZZZ, and 17 CCR 93115] Federally Enforceable Through Title V Permit
14. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 50 hours per calendar year. [District Rule 4702, 40 CFR 63 Subpart ZZZZ, and 17 CCR 93115] Federally Enforceable Through Title V Permit
15. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
16. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] Federally Enforceable Through Title V Permit
17. On and after May 3, 2013, the permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
18. On and after May 3, 2013, the engine shall be in full compliance with 40 CFR Part 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). [40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
19. On and after May 3, 2013, the engine's oil and filter shall be changed every 500 hours of operation or every 12 months, whichever comes first. [40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
20. On and after May 3, 2013, the engine's air filter shall be inspected every 1,000 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
21. On and after May 3, 2013, the engine's hoses and belts shall be inspected every 500 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
22. On and after May 3, 2013, the permittee shall maintain records of performance tests and performance evaluations as required in §63.10(b)(2)(viii) and records of required maintenance performed on the air pollution control and monitoring equipment. [40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
23. On and after May 3, 2013, the permittee shall maintain records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. The permittee shall also maintain records of action taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [40 CFR 63, Subpart ZZZZ] 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: S-548-14-5

EXPIRATION DATE: 10/31/2022

SECTION: SW16 **TOWNSHIP:** 20S **RANGE:** 24E

EQUIPMENT DESCRIPTION:

80 BHP JOHN DEERE MODEL 4045DF150 DIESEL-FIRED EMERGENCY IC ENGINE POWERING A WATER PUMP

PERMIT UNIT REQUIREMENTS

1. This engine shall be equipped with either a positive crankcase ventilation (PCV) system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
2. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap, roof overhang, or any other obstruction. [District Rule 4102]
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
4. Visible emissions from this engine shall not exceed Ringelmann 2, provided that operation of the engine for testing and maintenance purposes does not exceed 30 minutes per week, or 2 hours per month. [CH&SC 41701.6]
5. Emissions from this engine shall not exceed either of the following limits: 5.05 g-NOx/hp-hr or 2.75 g-CO/hp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The PM10 emissions rate shall not exceed 0.15 g/hp-hr based on US EPA certification using ISO 8178 test procedure. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements of Tulare County Rule 407. A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit
8. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 40 CFR 63 Subpart ZZZZ, and 17 CCR 93115] Federally Enforceable Through Title V Permit
9. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
10. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
11. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] 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.

Facility Name: CITY OF TULARE, WASTEWATER PLANT

Location: 1875 S WEST ST, TULARE, CA 93274

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12. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.), and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rules 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
13. The permittee shall maintain monthly records of the type of fuel purchased, the amount of fuel purchased, date when the fuel was purchased, signature of the permittee who received the fuel, and signature of the fuel supplier indicating that the fuel was delivered. [District Rule 2520 and 17 CCR 93115] Federally Enforceable Through Title V Permit
14. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 4702, 40 CFR 63 Subpart ZZZZ, and 17 CCR 93115] Federally Enforceable Through Title V Permit
15. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 50 hours per calendar year. [District Rule 4702, 40 CFR 63 Subpart ZZZZ, and 17 CCR 93115] Federally Enforceable Through Title V Permit
16. On and after May 3, 2013, the permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
17. On and after May 3, 2013, the engine shall be in full compliance with 40 CFR Part 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). [40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
18. On and after May 3, 2013, the engine's oil and filter shall be changed every 500 hours of operation or every 12 months, whichever comes first. [40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
19. On and after May 3, 2013, the engine's air filter shall be inspected every 1,000 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
20. On and after May 3, 2013, the engine's hoses and belts shall be inspected every 500 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
21. On and after May 3, 2013, the permittee shall maintain records of performance tests and performance evaluations as required in §63.10(b)(2)(viii) and records of required maintenance performed on the air pollution control and monitoring equipment. [40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
22. On and after May 3, 2013, the permittee shall maintain records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. The permittee shall also maintain records of action taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [40 CFR 63, Subpart ZZZZ] 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: S-548-20-6

EXPIRATION DATE: 10/31/2022

SECTION: SW16 **TOWNSHIP:** 20S **RANGE:** 24E

EQUIPMENT DESCRIPTION:

EIGHT WASTEWATER TREATMENT RETENTION/PERCOLATION PONDS

PERMIT UNIT REQUIREMENTS

1. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. Daily average domestic wastewater throughput shall not exceed 8 million gallons per day. [District Rule 2201]
Federally Enforceable Through Title V Permit
3. Daily average industrial wastewater throughput shall not exceed 12 million gallons per day. [District Rule 2201]
Federally Enforceable Through Title V Permit
4. VOC emissions shall not exceed 5.3 lb VOC per day. [District Rule 2201] 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: S-548-28-3

EXPIRATION DATE: 10/31/2022

SECTION: SW16 **TOWNSHIP:** 20S **RANGE:** 24E

EQUIPMENT DESCRIPTION:

2220 BHP CUMMINS MODEL QSK50-G4 NR2 TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE
POWERING AN ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201, 4801, 17 CCR 93115, and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115, and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
5. Emissions from this IC engine shall not exceed any of the following limits: 4.13 g-NOx/bhp-hr, 0.69 g-CO/bhp-hr, or 0.07 g-VOC/bhp-hr. [District Rule 2201, 13 CCR 2423, 17 CCR 93115, and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
6. Emissions from this IC engine shall not exceed 0.11 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201, 4102, 13 CCR 2423, 17 CCR 93115, 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
7. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
8. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
9. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 50 hours per calendar year. [District Rule 4702, 17 CCR 93115, and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
10. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] 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.

Facility Name: CITY OF TULARE, WASTEWATER PLANT

Location: 1875 S WEST ST, TULARE, CA 93274

S-548-28-3 : 7/9/2026 10:50:24 AM -- JONESW

11. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] Federally Enforceable Through Title V Permit
12. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
13. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702 and 17 CCR 93115] 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: S-548-29-3

EXPIRATION DATE: 10/31/2022

SECTION: SW16 **TOWNSHIP:** 20S **RANGE:** 24E

EQUIPMENT DESCRIPTION:

2220 BHP CUMMINS MODEL QSK50-G4 NR2 TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE
POWERING AN ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201, 4801, 17 CCR 93115, and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115, and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
5. Emissions from this IC engine shall not exceed any of the following limits: 4.13 g-NOx/bhp-hr, 0.69 g-CO/bhp-hr, or 0.07 g-VOC/bhp-hr. [District Rule 2201, 13 CCR 2423, 17 CCR 93115, and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
6. Emissions from this IC engine shall not exceed 0.11 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201, 4102, 13 CCR 2423, 17 CCR 93115, and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
7. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
8. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
9. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 50 hours per calendar year. [District Rule 4702, 17 CCR 93115, and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
10. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] 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.

Facility Name: CITY OF TULARE, WASTEWATER PLANT

Location: 1875 S WEST ST, TULARE, CA 93274

S-548-29-3 : 7/9/2026 10:50:25 AM -- JONESW

11. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] Federally Enforceable Through Title V Permit
12. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
13. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702 and 17 CCR 93115] 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: S-548-30-3

EXPIRATION DATE: 10/31/2022

SECTION: SW16 **TOWNSHIP:** 20S **RANGE:** 24E

EQUIPMENT DESCRIPTION:

2922 BHP CUMMINS MODEL QSK60-G6 NR2 TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE
POWERING AN ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201, 4801, 17 CCR 93115, and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115, and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
5. Emissions from this IC engine shall not exceed any of the following limits: 3.88 g-NOx/bhp-hr, 0.35 g-CO/bhp-hr, or 0.29 g-VOC/bhp-hr. [District Rule 2201, 13 CCR 2423, 17 CCR 93115, and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
6. Emissions from this IC engine shall not exceed 0.09 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201, 4102, 13 CCR 2423, 17 CCR 93115, and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
7. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
8. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
9. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 50 hours per calendar year. [District Rule 4702, 17 CCR 93115, and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
10. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] 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.

Facility Name: CITY OF TULARE, WASTEWATER PLANT

Location: 1875 S WEST ST, TULARE, CA 93274

S-548-30-3 : 7/9/2026 10:50:26 AM -- JONESW

11. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] Federally Enforceable Through Title V Permit
12. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
13. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702 and 17 CCR 93115] 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: S-548-32-7

EXPIRATION DATE: 10/31/2022

SECTION: SW16 **TOWNSHIP:** 20S **RANGE:** 24E

EQUIPMENT DESCRIPTION:

6.3 MMBTU/HR HURST SERIES 100 NATURAL GAS-FIRED SLUDGE HEATER WITH A POWER FLAME L NINVC5-GG-30A BURNER

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. 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
4. The unit shall only be fired on PUC-regulated natural gas. [District Rule 2201 & 4320] Federally Enforceable Through Title V Permit
5. Emissions from the unit shall not exceed any of the following limits: 5 ppmvd NO_x @ 3% O₂ or 0.0061 lb-NO_x/MMBtu, 0.00285 lb-SO_x/MMBtu, 0.0005 lb-PM₁₀/MMBtu, 41 ppmvd CO @ 3% O₂ or 0.030 lb-CO/MMBtu, or 0.005 lb-VOC/MMBtu. [District Rules 2201, 4306 and 4320] Federally Enforceable Through Title V Permit
6. Fuel used shall not exceed 151 MMBtu/day or 49,920 MMBtu/yr. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The permittee shall monitor and record the stack concentration of NO_x, CO, and O₂ at least once every month (in which a source test is not performed) using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
8. If either the NO_x or CO concentrations corrected to 3% O₂, as measured by the portable analyzer, exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rules 4305, 4306 and 4320] 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.

Facility Name: CITY OF TULARE, WASTEWATER PLANT

Location: 1875 S WEST ST, TULARE, CA 93274

S-548-32-7 : 7/9/2026 10:50:27 AM -- JONESW

9. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
10. Consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rules 4305, 4306, 4320 and 2520, 9.3.2] Federally Enforceable Through Title V Permit
11. The permittee shall maintain records of: (1) the date and time of NO_x, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NO_x and CO concentrations corrected to 3% O₂, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
12. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, 4306, and 2520, 9.3.2] Federally Enforceable Through Title V Permit
13. Source testing to measure NO_x and CO emissions from this unit while fired on natural gas shall be conducted within 60 days of initial start-up. [District Rules 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
14. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
15. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
16. 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
17. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
18. This unit shall be tested for compliance with the NO_x and CO emissions limits at least once every 12 months. After demonstrating compliance on two consecutive annual source tests, the unit shall be tested not less than once every thirty-six months. [District Rule 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
19. NO_x emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. NO_x emissions during the source test shall be calculated as the arithmetic average of three 30-consecutive-minute test runs. [District Rule 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
20. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. CO emissions during the source test shall be calculated as the arithmetic average of three 30-consecutive-minute test runs. [District Rule 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
21. Stack gas oxygen shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rule 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
22. 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 Rule 1070]

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-548-33-4

EXPIRATION DATE: 10/31/2022

SECTION: SW16 **TOWNSHIP:** 20S **RANGE:** 24E

EQUIPMENT DESCRIPTION:

THREE ANAEROBIC DIGESTERS SERVED BY A DIGESTER GAS H₂S REMOVAL SYSTEM AND A FLARE
INDUSTRIES MODEL 566 12.4 MMBTU/HR GROUND LEVEL ENCLOSED FLARE OR EQUIVALENT

PERMIT UNIT REQUIREMENTS

1. Volume of biogas combusted in flare shall not exceed 497,000 cubic feet per day and 98,250,000 scf/yr. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. Daily emissions of air contaminants shall not exceed the following limits: 6.0 lb PM₁₀/day, 12.2 lb SO_x (as SO₂)/day, 17.9 lb NO_x (as NO₂)/day, 89.5 lb CO/day, or 0.8 lb VOC/day. [District Rule 2201 and 4311] Federally Enforceable Through Title V Permit
4. Fuel used shall not exceed 298.2 MMBtu/day or 58,920 MMBtu/yr. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Permittee shall limit flaring annual throughput to levels not to exceed 100,000 MMBtu for two consecutive calendar years. [District Rule 4311] Federally Enforceable Through Title V Permit
6. If the flare exceeds the annual throughput threshold of 100,000 MMBtu/yr for two consecutive calendar years, the operator shall notify the APCO in writing of the exceedance within 30 days following the end of the second calendar year. By April 15 of the year after the end of the second consecutive calendar year in which an exceedance of the annual throughput threshold in Table 2 occurred, the applicant shall submit an ATC application to modify or replace the flare to meet Table 3 emission limits. [District Rule 4311] Federally Enforceable Through Title V Permit
7. The operator shall monitor the vent gas flow to the flare with a flow-measuring device or other parameters as specified in this permit. The operator shall determine the heating value (Btu per cubic foot) of the vent gas annually in accordance with Section 6.3.6. The operator shall maintain records pursuant to Section 6.1.7. Flares that the operator can verify, based on permit conditions, are not capable of exceeding the annual throughput thresholds in Table 2 shall not be required to monitor vent gas flow to the flare. [District Rule 4311] Federally Enforceable Through Title V Permit
8. Compliance with SO_x emission limit shall be demonstrated by sampling biogas sulfur content and calculating the resulting daily SO_x emissions at least once every two years. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
10. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

Facility Name: CITY OF TULARE, WASTEWATER PLANT

Location: 1875 S WEST ST, TULARE, CA 93274

S-548-33-4 : 7/9/2026 10:50:28 AM -- JONESW

11. The following test methods shall be used: fuel gas sulfur content - ASTM D3246 or double GC for H₂S and mercaptans. [District Rule 1081] Federally Enforceable Through Title V Permit
12. Permittee shall maintain records of the volume of biogas combusted in the flare each day. Records shall be maintained for 5 years and be made readily available for District inspection upon request. [District Rule 2201 and District Rule 4311] Federally Enforceable Through Title V Permit
13. The flame shall be present at all times when combustible gases are vented through the flare. [District Rule 4311] Federally Enforceable Through Title V Permit
14. The outlet shall be equipped with an automatic ignition system, or, shall operate with a pilot flame present at all times when combustible gases are vented through the flare, except during purge periods for automatic-ignition equipped flares. [District Rule 4311] Federally Enforceable Through Title V Permit
15. Except for flares equipped with a flow-sensing ignition system, a heat sensing device such as a thermocouple, ultraviolet beam sensor, infrared sensor, or an equivalent device, capable of continuously detecting at least one pilot flame or the flare flame is present shall be installed and operated. [District Rule 4311] Federally Enforceable Through Title V Permit
16. Flares that use flow-sensing automatic ignition systems and which do not use a continuous flame pilot shall use purge gas for purging. [District Rule 4311] Federally Enforceable Through Title V Permit
17. The flare shall be tested for compliance with the VOC and NO_x emissions limits at least once every 12 months. [District Rule 4311] Federally Enforceable Through Title V Permit
18. VOC, measured and calculated as carbon, shall be determined by EPA Method 25, except when the outlet concentration must be below 50 ppm in order to meet the standard, in which case Method 25a may be used, and analysis of halogenated exempt compounds shall be analyzed by EPA Method 18 or ARB Method 422. NO_x emissions in pounds per million BTU shall be determined by using EPA Method 19. [District Rule 4311] Federally Enforceable Through Title V Permit
19. The permittee shall maintain, and make available for District inspection, all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 4311] 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: S-548-34-2

EXPIRATION DATE: 10/31/2022

SECTION: SW16 **TOWNSHIP:** 20S **RANGE:** 24E

EQUIPMENT DESCRIPTION:

2922 BHP CUMMINS MODEL QSK60-G6 NR2 TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE
POWERING AN ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. {14} Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
3. {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]
4. {1898} The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
5. {3395} Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115]
6. {3403} This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 17 CCR 93115]
7. Emissions from this IC engine shall not exceed any of the following limits: 3.88 g-NOx/bhp-hr, 0.35 g-CO/bhp-hr, or 0.29 g-VOC/bhp-hr. [District Rule 2201 and 13 CCR 2423 and 17 CCR 93115]
8. Emissions from this IC engine shall not exceed 0.09 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102 and 13 CCR 2423 and 17 CCR 93115]
9. {3405} This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702]
10. {3478} During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702]
11. {3810} This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 50 hours per calendar year. [District Rule 4702 and 17 CCR 93115]
12. {3807} An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702 and 17 CCR 93115]
13. {3808} This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702 and 17 CCR 93115]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

Facility Name: CITY OF TULARE, WASTEWATER PLANT

Location: 1875 S WEST ST, TULARE, CA 93274

S-548-34-2 : 7/9/2026 10:50:30 AM -- JONESW

14. {3479} The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115]
15. {3475} All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702 and 17 CCR 93115]

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

San Joaquin Valley

Air Pollution Control District

PERMIT UNIT: S-548-37-2

EXPIRATION DATE: 10/31/2022

SECTION: SW16 **TOWNSHIP:** 20S **RANGE:** 24E

EQUIPMENT DESCRIPTION:

19,500 GALLON FIXED-ROOF METHANOL STORAGE TANK WITH PV RELIEF VENT

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102] Federally Enforceable Through Title V Permit
2. VOC emission rate from the tank shall not exceed any of the following: 34.7 lb/day; 170 lb/yr. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The maximum throughput (total received and dispensed) shall not exceed any of the following: 10,000 gallons in any one day; 40,000 gallons in any one calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall only store, place, or hold methanol with a true vapor pressure (TVP) of less than 4.6 psia under all storage conditions. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
5. This tank shall be equipped with a pressure-vacuum (PV) relief valve set to within 10% of the maximum allowable working pressure of the tank, permanently labeled with the operating pressure settings, properly maintained in good operating order in accordance with the manufacturer's instructions, and shall remain in gas-tight condition except when the operating pressure exceeds the valve's set pressure. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall comply with the requirements of Section 5.2 during the process of draining, and refilling the tank with an organic liquid having a TVP of 0.1 psia. [District Rule 4623] Federally Enforceable Through Title V Permit
7. Permittee shall control emissions from the removed sludge by complying with all of the following provisions listed under Section 5.7.5.6. [District Rule 4623] Federally Enforceable Through Title V Permit
8. All components shall be inspected at least once every quarter by the facility operator in accordance with EPA Method 21, with the instrument calibrated with methane, in units of parts per million volume, to ensure compliance with the leaking provisions of this permit, except for inaccessible and unsafe to monitor components. Inaccessible and unsafe to monitor components shall be inspected at least once every 12 months in accordance with EPA Method 21. [District Rule 4623] Federally Enforceable Through Title V Permit
9. Except for inaccessible components and unsafe to monitor components, operators shall audio-visually inspect (by hearing and by sight) all hatches, pressure-vacuum relief valves, pressure relief devices, and pump seals for leaks or indications of leaks at least once every 24 hours for facilities that are visited daily, or at least once per calendar week for facilities that are not visited at least once every 24 hours. Any audio-visual inspection that indicates a leak shall be tested using US EPA Reference Method 21 within 24 hours of the detection, and the leak shall be repaired in accordance with the repair timeframes specified in this permit. [District Rule 4623] Federally Enforceable Through Title V Permit
10. An operator shall inspect all new, replaced, or repaired fittings, flanges, and threaded connections within 72 hours of placing the component in service. [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.

Facility Name: CITY OF TULARE, WASTEWATER PLANT

Location: 1875 S WEST ST, TULARE, CA 93274

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11. A District inspection in no way fulfills any of the mandatory inspection requirements that are placed upon operators and cannot be used or counted as an inspection required of an operator. [District Rule 4623] Federally Enforceable Through Title V Permit
12. Upon detection of a component with a leak concentration measured above the standards specified, the operator shall affix to that component a weatherproof readily visible tag that identifies the date and time of leak detection measurement and the measured leak concentration. The tag shall remain affixed to the leaking component until it has been successfully repaired or replaced, after which the tag shall be removed. Successful repair shall be confirmed by re-measuring the components using US EPA Method 21. [District Rule 4623] Federally Enforceable Through Title V Permit
13. Excluding tanks, components or component parts which incur five (5) repair actions within a rolling 12-month period shall be replaced with a compliant component in working order and must be re-measured using US EPA Reference Method 21, to determine that the component is below the minimum leak threshold. A record of the replacement must be maintained in a log at the facility, and shall be made available upon request by the APCO [District Rule 4623] Federally Enforceable Through Title V Permit
14. An operator shall attempt to minimize all component leaks immediately to the extent possible, but no later than one (1) hour after detection of leak in order to stop or reduce leakage to the atmosphere. [District Rule 4623] Federally Enforceable Through Title V Permit
15. If the leak has been minimized but the leak still exceeds the applicable leak standards of this rule, an operator shall repair or replace the leaking component, vent the leaking component to an APCO-approved VOC control system, or remove the leaking component from operation as soon as practicable but not later than the time period specified in this permit. [District Rule 4623] Federally Enforceable Through Title V Permit
16. All leaks shall be repaired within the following timeframes: (1) Minor gas leak within 14 calendar days; (2) Major gas leak within 2 calendar days; or (3) Liquid leak within 2 calendar days. Failure to repair leaks within the timeframes specified shall be considered a violation. [District Rule 4623] Federally Enforceable Through Title V Permit
17. Permittee an operator whose tanks are subject to the requirements of this rule shall keep an accurate record of each organic liquid stored in each tank, including its storage temperature, TVP, and API gravity. [District Rule 4623] Federally Enforceable Through Title V Permit
18. Permittee shall submit the records of TVP and API gravity testing conducted in accordance with the requirements of Section 6.2 to the APCO within 45 days after the date of testing. The record shall include the tank identification number, PTO number, type of stored organic liquid, TVP and API gravity of the stored organic liquid, test methods used, and a copy of the test results. [District Rule 4623] Federally Enforceable Through Title V Permit
19. Permittee shall keep an accurate record of each organic liquid stored in each tank including storage temperature, TVP, and monthly throughput. [District Rule 4623] Federally Enforceable Through Title V Permit
20. The permittee shall maintain an inspection log containing, at a minimum, all of the following information listed under Section 6.3.9. [District Rule 4623] Federally Enforceable Through Title V Permit
21. The TVP shall be determined by measuring the Reid Vapor Pressure (RVP) using ASTM D 323-94 (Test Method for Vapor Pressure for Petroleum Products), and converting the RVP to TVP at the tank's maximum organic liquid storage temperature. The conversion of RVP to TVP shall be done in accordance with the procedures in Appendix B. Appendix B is an excerpt from the oil and gas section of "ARB Technical Guidance Document to the Criteria and Guidelines Regulation for AB 2588", dated August 1989. [District Rule 4623] Federally Enforceable Through Title V Permit
22. All leaks detected with the use of an OGI instrument shall be measured using EPA Reference Method 21 within two (2) calendar days of initial OGI leak detection or within 14 calendar days of initial OGI leak detection of an inaccessible or unsafe to monitor component to determine compliance with the leak thresholds and repair timeframes specified in Table 11. [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.

23. Permittee shall maintain records of tank cleaning activities for a period of 5 years and present the records to the District upon request. Records should include the final details of the planned degassing and cleaning activities submitted pursuant to the notification requirements indicated in this permit. [District Rule 4623] Federally Enforceable Through Title V Permit
24. Permittee shall notify the APCO in writing at least three (3) days prior to performing tank degassing and interior tank cleaning activities. Written notification shall include the following information listed in Section 5.7.5.1. [District Rule 4623] Federally Enforceable Through Title V Permit
25. Permittee shall maintain monthly records of average daily throughput and shall keep accurate records of each organic liquid stored in the tank . [District Rule 2201] Federally Enforceable Through Title V Permit
26. 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.

ATTACHMENT B

Previous Title V Operating Permit

San Joaquin Valley

Air Pollution Control District

FACILITY: S-548-0-3

EXPIRATION DATE: 10/31/2022

FACILITY-WIDE REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. 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
3. 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
4. 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
5. 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
6. 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
7. 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
8. 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
9. 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
10. 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: CITY OF TULARE, WASTEWATER PLANT

Location: 1875 S WEST ST, TULARE, CA 93274

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11. 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
12. 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
13. 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
14. 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
15. 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
16. 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
17. 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
18. 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
19. 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
20. 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
21. 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
22. 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
23. 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.

24. 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
25. 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
26. 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
27. 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
28. 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
29. 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
30. 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
31. 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
32. 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
33. 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
34. 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
35. 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
36. 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.

37. 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
38. 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
39. 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
40. 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
41. 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
42. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report are due October 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

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-548-5-3

EXPIRATION DATE: 10/31/2022

EQUIPMENT DESCRIPTION:

VARAC MODEL 244-W BIOGAS FLARE

PERMIT UNIT REQUIREMENTS

1. Volume of biogas combusted in flare shall not exceed 88,150 cubic feet per hour. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. Daily emissions of air contaminants shall not exceed the following limits: 2.7 lb PM10/day, 221.5 lb SOx (as SO2)/day, 90.7 lb NOx (as NO2)/day, 18.2 lb CO/day, or 2.5 lb VOC/day. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Compliance with SOx emission limit shall be demonstrated by sampling biogas sulfur content and calculating the resulting daily SOx emissions at least once every two years. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The District shall be notified by the permittee 15 days prior to each test. The test results shall be submitted to the District no later than 30 days after each test. [District Rule 1081] Federally Enforceable Through Title V Permit
6. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
7. 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
8. The following test methods shall be used: fuel gas sulfur content - ASTM D3246 or double GC for H2S and mercaptans. [District Rule 1081] Federally Enforceable Through Title V Permit
9. Permittee shall maintain records of the volume of biogas combusted in the flare each day. Records shall be maintained for 5 years and be made readily available for District inspection upon request. [District Rule 2201, District Rule 4311, and 40 CFR 64] Federally Enforceable Through Title V Permit
10. Visible emissions monitoring shall be conducted at least annually, using EPA Method 22. [40 CFR 60.18(f)(1) and 40 CFR 64] Federally Enforceable Through Title V Permit
11. The flame shall be present at all times when combustible gases are vented through the flare. [District Rule 4311, 40 CFR 60.18(c)(2), and 40 CFR 64] Federally Enforceable Through Title V Permit
12. The outlet shall be equipped with an automatic ignition system, or, shall operate with a pilot flame present at all times when combustible gases are vented through the flare, except during purge periods for automatic-ignition equipped flares. [District Rule 4311, 40 CFR 60.18(f)(2), and 40 CFR 64] 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.

Facility Name: CITY OF TULARE, WASTEWATER PLANT

Location: 1875 S WEST ST, TULARE, CA 93274

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13. Except for flares equipped with a flow-sensing ignition system, a heat sensing device such as a thermocouple, ultraviolet beam sensor, infrared sensor, or an equivalent device, capable of continuously detecting at least one pilot flame or the flare flame is present shall be installed and operated. [District Rule 4311, 40 CFR 60.18(f)(2), and 40 CFR 64] Federally Enforceable Through Title V Permit
14. Flares that use flow-sensing automatic ignition systems and which do not use a continuous flame pilot shall use purge gas for purging. [District Rule 4311] Federally Enforceable Through Title V Permit
15. Open flares in which the flare gas pressure is less than 5 psig shall be operated in such a manner that meets the provisions of 40 CFR 60.18. [District Rule 4311 and 40 CFR 64] Federally Enforceable Through Title V Permit
16. The flare shall be operated according to the manufacturer's specifications, a copy of which shall be maintained on site. [40 CFR 60.18(d) and 40 CFR 64] Federally Enforceable Through Title V Permit
17. A non-assisted flare shall have a diameter of 3 inches or greater, have a minimum hydrogen content of 8.0% by volume, and be designed for and operated with an exit velocity less than 122 ft/sec and less than the velocity V_{max} , as determined by the equation specified in paragraph 40 CFR 60.18 (c)(3)(i)(A). [40 CFR 60.18 (c)(3)(i)(a) and 40 CFR 64] Federally Enforceable Through Title V Permit
18. The actual exit velocity of a flare shall be determined by dividing the volumetric flowrate (in units of standard temperature and pressure), as determined by Reference Methods 2, 2A, 2C, or 2D as appropriate; by the unobstructed (free) cross sectional area of the flare tip. [40 CFR 60.18 (f)(4) and 40 CFR 64] Federally Enforceable Through Title V Permit
19. Air-assisted or steam-assisted flares shall only be used when the net heating value of the gas being combusted is 300 Btu/scf or greater. Non-assisted flares shall only be used when the net heating value of the gas being combusted is 200 Btu/scf or greater. [40 CFR 60.18 (c)(3)(ii) and 40 CFR 64] Federally Enforceable Through Title V Permit
20. Steam-assisted and non-assisted flares shall be operated with an exit velocity less than 60 ft/sec, except as provided in 40 CFR 60.18 (c)(4)(ii) and (iii). [40 CFR 60.18 (c)(4)(i) and 40 CFR 64] Federally Enforceable Through Title V Permit
21. Steam-assisted and non-assisted flares may be operated with an exit velocity equal to or greater than 60 ft/sec, but less than 400 ft/sec, if the net heating value of the gas being combusted is greater than 1,000 Btu/scf. [40 CFR 60.18 (c)(4)(ii) and 40 CFR 64] Federally Enforceable Through Title V Permit
22. Steam-assisted and non-assisted flares may be operated with an exit velocity less than the velocity V_{max} , as determined by the methods specified in 40 CFR 60.18 (f)(5), and less than 400 ft/sec. [40 CFR 60.18 (c)(4)(iii) and 40 CFR 64] Federally Enforceable Through Title V Permit
23. Air-assisted flares shall be operated with an exit velocity less than the velocity V_{max} as determined by the methods specified in 40 CFR 60.18 (f)(6). [40 CFR 60.18 (c)(5) and 40 CFR 64] Federally Enforceable Through Title V Permit
24. The net heating value of the gas being combusted the flare shall be calculated pursuant to 40 CFR 60.18(f)(3) or by using EPA Method 18, ASTM D1946, and ASTM D2382 if published values are not available or cannot be calculated. [40 CFR 60.18 (f)(3)] Federally Enforceable Through Title V Permit
25. The permittee shall maintain, and make available for District inspection, all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 4311 and 40 CFR 64] Federally Enforceable Through Title V Permit
26. The permittee shall visually inspect the flare's emergency bypass valve to ensure the valve is maintained in the closed position. [40 CFR 64] 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: S-548-7-5

EXPIRATION DATE: 10/31/2022

SECTION: SW16 **TOWNSHIP:** 20S **RANGE:** 24E

EQUIPMENT DESCRIPTION:

900 BHP CATERPILLAR MODEL D348 V-12 S/N 36J1780 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE
POWERING AN ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements of Tulare County Rule 407. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
3. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
4. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
5. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201, 4801, and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 20 hours per calendar year. [District Rule 4702, 40 CFR 63 Subpart ZZZZ, and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
8. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
9. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] 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.

Facility Name: CITY OF TULARE, WASTEWATER PLANT

Location: 1875 S WEST ST, TULARE, CA 93274

S-548-7-5 : 7/9/2026 10:53:18 AM -- JONESW

10. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.), and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rules 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
11. The permittee shall maintain monthly records of the type of fuel purchased. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
12. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 4702, 40 CFR 63 Subpart ZZZZ, and 17 CCR 93115] Federally Enforceable Through Title V Permit
13. On and after May 3, 2013, the permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
14. On and after May 3, 2013, the engine shall be in full compliance with 40 CFR Part 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). [40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
15. On and after May 3, 2013, the engine's oil and filter shall be changed every 500 hours of operation or every 12 months, whichever comes first. [40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
16. On and after May 3, 2013, the engine's air filter shall be inspected every 1,000 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
17. On and after May 3, 2013, the engine's hoses and belts shall be inspected every 500 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
18. On and after May 3, 2013, the permittee shall maintain records of performance tests and performance evaluations as required in §63.10(b)(2)(viii) and records of required maintenance performed on the air pollution control and monitoring equipment. [40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
19. On and after May 3, 2013, the permittee shall maintain records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. The permittee shall also maintain records of action taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [40 CFR 63, Subpart ZZZZ] 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: S-548-11-4

EXPIRATION DATE: 10/31/2022

EQUIPMENT DESCRIPTION:

1502 HP CATERPILLAR MODEL 3508B DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. This engine shall be equipped with either a positive crankcase ventilation (PCV) system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
2. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap, roof overhang, or any other obstruction. [District Rule 4102]
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
4. NOx emissions shall not exceed 6.7 g/hp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The PM10 emissions rate shall not exceed 0.05 g/hp-hr based on US EPA certification using ISO 8178 test procedure. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements of Tulare County Rule 407. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
7. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 40 CFR 63 Subpart ZZZZ, and 17 CCR 93115] Federally Enforceable Through Title V Permit
8. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
9. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801, and 17 CCR 93115] Federally Enforceable Through Title V Permit
10. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
11. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115] 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.

Facility Name: CITY OF TULARE, WASTEWATER PLANT

Location: 1875 S WEST ST, TULARE, CA 93274

S-548-11-4 : 7/9/2026 10:53:24 AM -- JONESW

12. The permittee shall maintain monthly records of the type of fuel purchased. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
13. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 4702, 40 CFR 63 Subpart ZZZZ, and 17 CCR 93115] Federally Enforceable Through Title V Permit
14. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 50 hours per calendar year. [District Rule 4702, 40 CFR 63 Subpart ZZZZ, and 17 CCR 93115] Federally Enforceable Through Title V Permit
15. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
16. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] Federally Enforceable Through Title V Permit
17. On and after May 3, 2013, the permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
18. On and after May 3, 2013, the engine shall be in full compliance with 40 CFR Part 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). [40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
19. On and after May 3, 2013, the engine's oil and filter shall be changed every 500 hours of operation or every 12 months, whichever comes first. [40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
20. On and after May 3, 2013, the engine's air filter shall be inspected every 1,000 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
21. On and after May 3, 2013, the engine's hoses and belts shall be inspected every 500 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
22. On and after May 3, 2013, the permittee shall maintain records of performance tests and performance evaluations as required in §63.10(b)(2)(viii) and records of required maintenance performed on the air pollution control and monitoring equipment. [40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
23. On and after May 3, 2013, the permittee shall maintain records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. The permittee shall also maintain records of action taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [40 CFR 63, Subpart ZZZZ] 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: S-548-14-4

EXPIRATION DATE: 10/31/2022

EQUIPMENT DESCRIPTION:

80 BHP JOHN DEERE MODEL 4045DF150 DIESEL-FIRED EMERGENCY IC ENGINE POWERING A WATER PUMP

PERMIT UNIT REQUIREMENTS

1. This engine shall be equipped with either a positive crankcase ventilation (PCV) system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
2. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap, roof overhang, or any other obstruction. [District Rule 4102]
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
4. Visible emissions from this engine shall not exceed Ringelmann 2, provided that operation of the engine for testing and maintenance purposes does not exceed 30 minutes per week, or 2 hours per month. [CH&SC 41701.6]
5. Emissions from this engine shall not exceed either of the following limits: 5.05 g-NOx/hp-hr or 2.75 g-CO/hp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The PM10 emissions rate shall not exceed 0.15 g/hp-hr based on US EPA certification using ISO 8178 test procedure. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements of Tulare County Rule 407. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
8. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 40 CFR 63 Subpart ZZZZ, and 17 CCR 93115] Federally Enforceable Through Title V Permit
9. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
10. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
11. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] 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.

Facility Name: CITY OF TULARE, WASTEWATER PLANT

Location: 1875 S WEST ST, TULARE, CA 93274

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12. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.), and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rules 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
13. The permittee shall maintain monthly records of the type of fuel purchased, the amount of fuel purchased, date when the fuel was purchased, signature of the permittee who received the fuel, and signature of the fuel supplier indicating that the fuel was delivered. [District Rule 2520, 9.3.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit
14. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 4702, 40 CFR 63 Subpart ZZZZ, and 17 CCR 93115] Federally Enforceable Through Title V Permit
15. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 50 hours per calendar year. [District Rule 4702, 40 CFR 63 Subpart ZZZZ, and 17 CCR 93115] Federally Enforceable Through Title V Permit
16. On and after May 3, 2013, the permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
17. On and after May 3, 2013, the engine shall be in full compliance with 40 CFR Part 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). [40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
18. On and after May 3, 2013, the engine's oil and filter shall be changed every 500 hours of operation or every 12 months, whichever comes first. [40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
19. On and after May 3, 2013, the engine's air filter shall be inspected every 1,000 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
20. On and after May 3, 2013, the engine's hoses and belts shall be inspected every 500 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
21. On and after May 3, 2013, the permittee shall maintain records of performance tests and performance evaluations as required in §63.10(b)(2)(viii) and records of required maintenance performed on the air pollution control and monitoring equipment. [40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
22. On and after May 3, 2013, the permittee shall maintain records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. The permittee shall also maintain records of action taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [40 CFR 63, Subpart ZZZZ] 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: S-548-20-5

EXPIRATION DATE: 10/31/2022

EQUIPMENT DESCRIPTION:

EIGHT WASTEWATER TREATMENT RETENTION/PERCOLATION PONDS

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. Daily average domestic wastewater throughput shall not exceed 8 million gallons per day. [District Rule 2201]
Federally Enforceable Through Title V Permit
3. Daily average industrial wastewater throughput shall not exceed 12 million gallons per day. [District Rule 2201]
Federally Enforceable Through Title V Permit
4. VOC emissions shall not exceed 5.3 lb VOC per day. [District Rule 2201] Federally Enforceable Through Title V Permit

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

Facility Name: CITY OF TULARE, WASTEWATER PLANT

Location: 1875 S WEST ST, TULARE, CA 93274

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San Joaquin Valley

Air Pollution Control District

PERMIT UNIT: S-548-28-2

EXPIRATION DATE: 10/31/2022

EQUIPMENT DESCRIPTION:

2220 BHP CUMMINS MODEL QSK50-G4 NR2 TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE
POWERING AN ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201, 4801, 17 CCR 93115, and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115, and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
5. Emissions from this IC engine shall not exceed any of the following limits: 4.13 g-NOx/bhp-hr, 0.69 g-CO/bhp-hr, or 0.07 g-VOC/bhp-hr. [District Rule 2201, 13 CCR 2423, 17 CCR 93115, and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
6. Emissions from this IC engine shall not exceed 0.11 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201, 4102, 13 CCR 2423, 17 CCR 93115, 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
7. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
8. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
9. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 50 hours per calendar year. [District Rule 4702, 17 CCR 93115, and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
10. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] 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.

Facility Name: CITY OF TULARE, WASTEWATER PLANT

Location: 1875 S WEST ST, TULARE, CA 93274

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11. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] Federally Enforceable Through Title V Permit
12. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
13. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702 and 17 CCR 93115] 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: S-548-29-2

EXPIRATION DATE: 10/31/2022

EQUIPMENT DESCRIPTION:

2220 BHP CUMMINS MODEL QSK50-G4 NR2 TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE
POWERING AN ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201, 4801, 17 CCR 93115, and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115, and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
5. Emissions from this IC engine shall not exceed any of the following limits: 4.13 g-NOx/bhp-hr, 0.69 g-CO/bhp-hr, or 0.07 g-VOC/bhp-hr. [District Rule 2201, 13 CCR 2423, 17 CCR 93115, and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
6. Emissions from this IC engine shall not exceed 0.11 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201, 4102, 13 CCR 2423, 17 CCR 93115, and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
7. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
8. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
9. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 50 hours per calendar year. [District Rule 4702, 17 CCR 93115, and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
10. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] 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.

Facility Name: CITY OF TULARE, WASTEWATER PLANT

Location: 1875 S WEST ST, TULARE, CA 93274

S-548-29-2 : 7/9/2026 10:53:59 AM -- JONESW

11. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] Federally Enforceable Through Title V Permit
12. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
13. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702 and 17 CCR 93115] 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: S-548-30-2

EXPIRATION DATE: 10/31/2022

EQUIPMENT DESCRIPTION:

2922 BHP CUMMINS MODEL QSK60-G6 NR2 TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE
POWERING AN ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201, 4801, 17 CCR 93115, and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115, and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
5. Emissions from this IC engine shall not exceed any of the following limits: 3.88 g-NOx/bhp-hr, 0.35 g-CO/bhp-hr, or 0.29 g-VOC/bhp-hr. [District Rule 2201, 13 CCR 2423, 17 CCR 93115, and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
6. Emissions from this IC engine shall not exceed 0.09 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201, 4102, 13 CCR 2423, 17 CCR 93115, and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
7. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
8. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
9. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 50 hours per calendar year. [District Rule 4702, 17 CCR 93115, and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
10. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] 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.

Facility Name: CITY OF TULARE, WASTEWATER PLANT

Location: 1875 S WEST ST, TULARE, CA 93274

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11. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] Federally Enforceable Through Title V Permit
12. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
13. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702 and 17 CCR 93115] 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: S-548-32-6

EXPIRATION DATE: 10/31/2022

EQUIPMENT DESCRIPTION:

6.3 MMBTU/HR HURST SERIES 100 NATURAL GAS-FIRED SLUDGE HEATER WITH A POWER FLAME L NINVC5-GG-30A BURNER

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. 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
4. The unit shall only be fired on PUC-regulated natural gas. [District Rule 2201 & 4320] Federally Enforceable Through Title V Permit
5. Emissions from the unit shall not exceed any of the following limits: 9 ppmvd NO_x @ 3% O₂ or 0.011 lb-NO_x/MMBtu, 0.00285 lb-SO_x/MMBtu, 0.0005 lb-PM₁₀/MMBtu, 41 ppmvd CO @ 3% O₂ or 0.030 lb-CO/MMBtu, or 0.005 lb-VOC/MMBtu. [District Rules 2201, 4306 and 4320] Federally Enforceable Through Title V Permit
6. Fuel used shall not exceed 151 MMBtu/day or 49,920 MMBtu/yr. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The permittee shall monitor and record the stack concentration of NO_x, CO, and O₂ at least once every month (in which a source test is not performed) using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
8. If either the NO_x or CO concentrations corrected to 3% O₂, as measured by the portable analyzer, exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rules 4305, 4306 and 4320] 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.

Facility Name: CITY OF TULARE, WASTEWATER PLANT

Location: 1875 S WEST ST, TULARE, CA 93274

S-548-32-6 : 7/9/2026 10:54:14 AM -- JONESW

9. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
10. Consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rules 4305, 4306, 4320 and 2520, 9.3.2] Federally Enforceable Through Title V Permit
11. The permittee shall maintain records of: (1) the date and time of NO_x, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NO_x and CO concentrations corrected to 3% O₂, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
12. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, 4306, and 2520, 9.3.2] Federally Enforceable Through Title V Permit
13. Source testing to measure NO_x and CO emissions from this unit while fired on natural gas shall be conducted within 60 days of initial start-up. [District Rules 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
14. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
15. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
16. 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
17. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
18. This unit shall be tested for compliance with the NO_x and CO emissions limits at least once every 12 months. After demonstrating compliance on two consecutive annual source tests, the unit shall be tested not less than once every thirty-six months. [District Rule 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
19. NO_x emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. NO_x emissions during the source test shall be calculated as the arithmetic average of three 30-consecutive-minute test runs. [District Rule 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
20. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. CO emissions during the source test shall be calculated as the arithmetic average of three 30-consecutive-minute test runs. [District Rule 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
21. Stack gas oxygen shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rule 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
22. 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 Rule 1070]

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

San Joaquin Valley

Air Pollution Control District

PERMIT UNIT: S-548-33-2

EXPIRATION DATE: 10/31/2022

EQUIPMENT DESCRIPTION:

THREE ANAEROBIC DIGESTERS SERVED BY A DIGESTER GAS H₂S REMOVAL SYSTEM AND A FLARE INDUSTRIES MODEL 566 12.4 MMBTU/HR GROUND LEVEL ENCLOSED FLARE OR EQUIVALENT

PERMIT UNIT REQUIREMENTS

1. Volume of biogas combusted in flare shall not exceed 497,000 cubic feet per day and 98,250,000 scf/yr. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. Daily emissions of air contaminants shall not exceed the following limits: 6.0 lb PM₁₀/day, 12.2 lb SO_x (as SO₂)/day, 17.9 lb NO_x (as NO₂)/day, 89.5 lb CO/day, or 0.8 lb VOC/day. [District Rule 2201 and 4311] Federally Enforceable Through Title V Permit
4. Fuel used shall not exceed 298.2 MMBtu/day or 58,920 MMBtu/yr. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Compliance with SO_x emission limit shall be demonstrated by sampling biogas sulfur content and calculating the resulting daily SO_x emissions at least once every two years. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
7. 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
8. The following test methods shall be used: fuel gas sulfur content - ASTM D3246 or double GC for H₂S and mercaptans. [District Rule 1081] Federally Enforceable Through Title V Permit
9. Permittee shall maintain records of the volume of biogas combusted in the flare each day. Records shall be maintained for 5 years and be made readily available for District inspection upon request. [District Rule 2201 and District Rule 4311] Federally Enforceable Through Title V Permit
10. The flame shall be present at all times when combustible gases are vented through the flare. [District Rule 4311] Federally Enforceable Through Title V Permit
11. The outlet shall be equipped with an automatic ignition system, or, shall operate with a pilot flame present at all times when combustible gases are vented through the flare, except during purge periods for automatic-ignition equipped flares. [District Rule 4311] Federally Enforceable Through Title V Permit
12. Except for flares equipped with a flow-sensing ignition system, a heat sensing device such as a thermocouple, ultraviolet beam sensor, infrared sensor, or an equivalent device, capable of continuously detecting at least one pilot flame or the flare flame is present shall be installed and operated. [District Rule 4311] 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.

Facility Name: CITY OF TULARE, WASTEWATER PLANT

Location: 1875 S WEST ST, TULARE, CA 93274

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13. Flares that use flow-sensing automatic ignition systems and which do not use a continuous flame pilot shall use purge gas for purging. [District Rule 4311] Federally Enforceable Through Title V Permit
14. The flare shall be tested for compliance with the VOC and NOx emissions limits at least once every 12 months. [District Rule 4311] Federally Enforceable Through Title V Permit
15. VOC, measured and calculated as carbon, shall be determined by EPA Method 25, except when the outlet concentration must be below 50 ppm in order to meet the standard, in which case Method 25a may be used, and analysis of halogenated exempt compounds shall be analyzed by EPA Method 18 or ARB Method 422. NOx emissions in pounds per million BTU shall be determined by using EPA Method 19. [District Rule 4311] Federally Enforceable Through Title V Permit
16. The permittee shall maintain, and make available for District inspection, all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 4311] 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: S-548-34-1

EXPIRATION DATE: 10/31/2022

SECTION: SW16 **TOWNSHIP:** 20S **RANGE:** 24E

EQUIPMENT DESCRIPTION:

2922 BHP CUMMINS MODEL QSK60-G6 NR2 TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE
POWERING AN ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
3. 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]
4. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
5. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115]
6. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 17 CCR 93115]
7. Emissions from this IC engine shall not exceed any of the following limits: 3.88 g-NOx/bhp-hr, 0.35 g-CO/bhp-hr, or 0.29 g-VOC/bhp-hr. [District Rule 2201 and 13 CCR 2423 and 17 CCR 93115]
8. Emissions from this IC engine shall not exceed 0.09 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102 and 13 CCR 2423 and 17 CCR 93115]
9. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702]
10. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702]
11. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 50 hours per calendar year. [District Rule 4702 and 17 CCR 93115]
12. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702 and 17 CCR 93115]
13. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702 and 17 CCR 93115]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

Facility Name: CITY OF TULARE, WASTEWATER PLANT

Location: 1875 S WEST ST, TULARE, CA 93274

S-548-34-1 : 7/9/2026 10:54:29 AM -- JONESW

14. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115]
15. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702 and 17 CCR 93115]

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

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-548-37-1

EXPIRATION DATE: 10/31/2022

EQUIPMENT DESCRIPTION:

19,500 GALLON FIXED-ROOF METHANOL STORAGE TANK WITH PV RELIEF VENT

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
Federally Enforceable Through Title V Permit
2. VOC emission rate from the tank shall not exceed any of the following: 34.7 lb/day; 170 lb/yr. [District Rule 2201]
Federally Enforceable Through Title V Permit
3. The maximum throughput (total received and dispensed) shall not exceed any of the following: 10,000 gallons in any one day; 40,000 gallons in any one calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This tank shall only store, place, or hold methanol with a true vapor pressure (TVP) of less than 4.6 psia under all storage conditions. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
5. This tank shall be equipped with a pressure-vacuum (PV) relief valve set to within 10% of the maximum allowable working pressure of the tank, permanently labeled with the operating pressure settings, properly maintained in good operating order in accordance with the manufacturer's instructions, and shall remain in gas-tight condition except when the operating pressure exceeds the valve's set pressure. [District Rule 4623] Federally Enforceable Through Title V Permit
6. Permittee shall maintain monthly records of average daily throughput and shall keep accurate records of each organic liquid stored in the tank . [District Rule 2201] Federally Enforceable Through Title V Permit
7. 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.

ATTACHMENT C

Detailed Summary List of Facility Permits

CITY OF TULARE, WASTEWATER PLANT 1875 S WEST ST TULARE, CA 93274	Fac #: S-548		Type: TitleV	Expiration: 10/31/2022
	Status: A		Toxic ID: 50054	Area: 22 /
	Phone:			Insp. Date: 11/26

Permit #	Fee Description	Fee Rule	Fee Amount	Permit Status	Equipment Description
0-3				A	
1-1	1,500,000 BTU/HR	3020-02 E	578.00	D	TWO 0.75 MMBTU/HR EACH BIOGAS-FUELED ENVIREX MODEL 756 HEATERS
2-1	3,360,000 BTU/HR	3020-02 F	854.00	D	2.63 MMBTU/HR ENVIREX MODEL 1348 BIOGAS FLARE
3-9	670 bhp IC engine	3020-10 D	674.00	D	670 BHP WAUKESHA MODEL L5108GL BIOGAS-FIRED LEAN BURN IC ENGINE WITH H2S SCRUBBER POWERING AN ELECTRIC GENERATOR
4-0	233 HP IC ENGINE	3020-10 C	340.00	D	ONE WAUKESHA MODEL F817GU, BIOGAS I.C.ENGINE, 233 HP RATING - CANCELED PER PERMITTEES LETTER DATED 9/15/98 - LE 10/27/98
5-3	61.25 MMBTU/HR	3020-02 H	1,446.00	A	VARAC MODEL 244-W BIOGAS FLARE
6-1	19,478 GALLONS	3020-05 B	133.00	D	LIME & SODA ASH RECEIVING, STORAGE AND SLURRIZING OPERATION WITH PNEUMATICALLY FILLED SILO WITH BIN VENT FILTER, ENCLOSED DISCHARGE AUGER AND CLOSED SLURRIZING TANK
7-5	900 HORSEPOWER	3020-10 E	844.00	A	900 BHP CATERPILLAR MODEL D348 V-12 S/N 36J1780 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR
9-3	116 BHP	3020-10 B	168.00	D	116 HP CUMMINS 4BTA3.9-C DIESEL-FIRED EMERGENCY IC ENGINE POWERING A WATER WELL PUMP
10-3	171 BHP	3020-10 B	168.00	D	171 BHP CUMMINS MODEL 6BT5.9G6 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR
11-4	1502 hp	3020-10 F	1,050.00	A	1502 HP CATERPILLAR MODEL 3508B DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR
12-1	110 hp	3020-10 B	168.00	D	110 HP FORD MODEL #6TCCGF-1 GASOLINE-FIRED EMERGENCY IC ENGINE WITH PCV AND A 3-WAY CATALYTIC CONVERTER POWERING A WATER PUMP
14-4	80 HP IC ENGINE	3020-10 A	115.00	A	80 BHP JOHN DEERE MODEL 4045DF150 DIESEL-FIRED EMERGENCY IC ENGINE POWERING A WATER PUMP
16-3	119 BHP IC ENGINE	3020-10 B	168.00	D	119 BHP PERKINS 3054TA DIESEL-FIRED EMERGENCY IC ENGINE WITH TURBOCHARGER AND AFTERCOOLER POWERING A WASTEWATER PUMP
20-5	Eight Percolation/Retention Ponds	3020-06	151.00	A	EIGHT WASTEWATER TREATMENT RETENTION/PERCOLATION PONDS
24-1	0.3 MW	3020-08A A	364.00	D	300 KW FUELCELL ENERGY DCF300MA BIOGAS FUEL CELL WITH APPLIED FILTER TECHNOLOGY H2S REMOVAL SYSTEM SERVING S-548-24, 25, 26, AND 35
25-1	0.3 MW	3020-08A A	364.00	D	300 KW FUELCELL ENERGY DCF300MA BIOGAS FUEL CELL
26-1	0.3 MW	3020-08A A	364.00	D	300 KW FUELCELL ENERGY DCF300MA BIOGAS FUEL CELL
28-2	2,220 bhp	3020-10 F	1,050.00	A	2220 BHP CUMMINS MODEL QSK50-G4 NR2 TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR
29-2	2,944 bhp	3020-10 F	1,050.00	A	2220 BHP CUMMINS MODEL QSK50-G4 NR2 TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR
30-2	2,922 bhp	3020-10 F	1,050.00	A	2922 BHP CUMMINS MODEL QSK60-G6 NR2 TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR
32-6	6.3 MMBtu/hr	3020-02 G	1,144.00	A	6.3 MMBTU/HR HURST SERIES 100 NATURAL GAS-FIRED SLUDGE HEATER WITH A POWER FLAME L NINVC/R5-GG-30A BURNER
33-2	12.4 MMBtu/hr	3020-02 G	1,144.00	A	THREE ANAEROBIC DIGESTERS SERVED BY A DIGESTER GAS H2S REMOVAL SYSTEM AND A FLARE INDUSTRIES MODEL 566 12.4 MMBTU/HR GROUND LEVEL ENCLOSED FLARE OR EQUIVALENT
34-1	2922 bhp	3020-10 F	1,050.00	A	2922 BHP CUMMINS MODEL QSK60-G6 NR2 TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

Detailed Facility Report

For Facility=548

Sorted by Facility Name and Permit Number

35-1	0.3 MW fuel cell	3020-08A A	364.00	D	300 KW FUELCELL ENERGY DCF300MA BIOGAS FUEL CELL
36-1	250 HP	3020-10 C	340.00	D	250 BHP JOHN DEERE MODEL 6068HFC94 TIER 4I TRANSPORTABLE DIESEL-FIRED IC ENGINE POWERING A WASTE WATER PUMP
37-1	19,500 gallons	3020-05 B	133.00	A	19,500 GALLON FIXED-ROOF METHANOL STORAGE TANK WITH PV RELIEF VENT

Number of Facilities Reported: 1

ATTACHMENT D

Engineering Evaluation for S-1223297 and Authorities to Construct
(ATCs) S-548-5-4 and S-548-33-3

AUTHORITY TO CONSTRUCT

PERMIT NO: S-548-5-4

ISSUANCE DATE: 01/25/2023

LEGAL OWNER OR OPERATOR: TULARE CITY WASTEWATER PLANT

MAILING ADDRESS: 1875 S WEST ST
TULARE, CA 93274

LOCATION: 1875 S WEST ST
TULARE, CA 93274

EQUIPMENT DESCRIPTION:

MODIFICATION OF VARAC MODEL 244-W BIOGAS FLARE: COMPLY WITH DISTRICT RULE 4311 REQUIREMENTS BY ADD ACTUAL ANNUAL FUEL USE REQUIREMENT

CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Volume of biogas combusted in flare shall not exceed 88,150 cubic feet per hour. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
4. Daily emissions of air contaminants shall not exceed the following limits: 2.7 lb PM10/day, 221.5 lb SO_x (as SO₂)/day, 90.7 lb NO_x (as NO₂)/day, 18.2 lb CO/day, or 2.5 lb VOC/day. [District Rule 2201] Federally Enforceable Through Title V Permit
5. On and after January 1, 2024, permittee shall limit flaring annual throughput to levels not to exceed 100,000 MMBtu for two consecutive calendar years. [District Rule 4311] Federally Enforceable Through Title V Permit
6. If the flare exceeds the annual throughput threshold of 100,000 MMBtu/yr for two consecutive calendar years, the operator shall notify the APCO in writing of the exceedance within 30 days following the end of the second calendar year. By April 15 of the year after the end of the second consecutive calendar year in which an exceedance of the annual throughput threshold in Table 2 occurred, the applicant shall submit an ATC application to modify or replace the flare to meet Table 3 emission limits. [District Rule 4311] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (661) 392-5500 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Samir Sheikh, Executive Director / APCO

Steven D Davidson

Brian Clements, Director of Permit Services

S-548-5-4 : Jan 25 2023 10:18AM -- KLEVANNND : Joint Inspection NOT Required

7. Effective on and after January 1, 2024, the operator shall monitor the vent gas flow to the flare with a flow-measuring device or other parameters as specified in this permit. The operator shall determine the heating value (Btu per cubic foot) of the vent gas annually in accordance with Section 6.3.6. The operator shall maintain records pursuant to Section 6.1.7. Flares that the operator can verify, based on permit conditions, are not capable of exceeding the annual throughput thresholds in Table 2 shall not be required to monitor vent gas flow to the flare. [District Rule 4311] Federally Enforceable Through Title V Permit
8. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of gas combusted in the flare shall be installed, utilized and maintained. [District Rule 4311] Federally Enforceable Through Title V Permit
9. The higher heating value of the flared gas shall be monitored at least quarterly. Measured higher heating value and quantity of gas flared shall be used to determine compliance with heat input limits. [District Rules 1070, 2201, and 4311] Federally Enforceable Through Title V Permit
10. Permittee shall maintain the following daily records of gas flared: volume, type, higher heating value, hours of operation, and sulfur content. [District Rule 4311] Federally Enforceable Through Title V Permit
11. Compliance with SOx emission limit shall be demonstrated by sampling biogas sulfur content and calculating the resulting daily SOx emissions at least once every two years. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The District shall be notified by the permittee 15 days prior to each test. The test results shall be submitted to the District no later than 30 days after each test. [District Rule 1081] Federally Enforceable Through Title V Permit
13. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
14. 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
15. The following test methods shall be used: fuel gas sulfur content - ASTM D3246 or double GC for H₂S and mercaptans. [District Rule 1081] Federally Enforceable Through Title V Permit
16. Permittee shall maintain records of the volume of biogas combusted in the flare each day. Records shall be maintained for 5 years and be made readily available for District inspection upon request. [District Rule 2201, District Rule 4311, and 40 CFR 64] Federally Enforceable Through Title V Permit
17. Visible emissions monitoring shall be conducted at least annually, using EPA Method 22. [40 CFR 60.18(f)(1) and 40 CFR 64] Federally Enforceable Through Title V Permit
18. The flame shall be present at all times when combustible gases are vented through the flare. [District Rule 4311, 40 CFR 60.18(c)(2), and 40 CFR 64] Federally Enforceable Through Title V Permit
19. The outlet shall be equipped with an automatic ignition system, or, shall operate with a pilot flame present at all times when combustible gases are vented through the flare, except during purge periods for automatic-ignition equipped flares. [District Rule 4311, 40 CFR 60.18(f)(2), and 40 CFR 64] Federally Enforceable Through Title V Permit
20. Except for flares equipped with a flow-sensing ignition system, a heat sensing device such as a thermocouple, ultraviolet beam sensor, infrared sensor, or an equivalent device, capable of continuously detecting at least one pilot flame or the flare flame is present shall be installed and operated. [District Rule 4311, 40 CFR 60.18(f)(2), and 40 CFR 64] Federally Enforceable Through Title V Permit
21. Flares that use flow-sensing automatic ignition systems and which do not use a continuous flame pilot shall use purge gas, as defined by Rule 4311, for purging. [District Rule 4311] Federally Enforceable Through Title V Permit
22. Open flares in which the flare gas pressure is less than 5 psig shall be operated in such a manner that meets the provisions of 40 CFR 60.18. [District Rule 4311 and 40 CFR 64] Federally Enforceable Through Title V Permit
23. The flare shall be operated according to the manufacturer's specifications, a copy of which shall be maintained on site. [40 CFR 60.18(d) and 40 CFR 64] Federally Enforceable Through Title V Permit

24. A non-assisted flare shall have a diameter of 3 inches or greater, have a minimum hydrogen content of 8.0% by volume, and be designed for and operated with an exit velocity less than 122 ft/sec and less than the velocity V_{max} , as determined by the equation specified in paragraph 40 CFR 60.18 (c)(3)(i)(A). [40 CFR 60.18 (c)(3)(i)(a) and 40 CFR 64] Federally Enforceable Through Title V Permit
25. The actual exit velocity of a flare shall be determined by dividing the volumetric flowrate (in units of standard temperature and pressure), as determined by Reference Methods 2, 2A, 2C, or 2D as appropriate; by the unobstructed (free) cross sectional area of the flare tip. [40 CFR 60.18 (f)(4) and 40 CFR 64] Federally Enforceable Through Title V Permit
26. Air-assisted or steam-assisted flares shall only be used when the net heating value of the gas being combusted is 300 Btu/scf or greater. Non-assisted flares shall only be used when the net heating value of the gas being combusted is 200 Btu/scf or greater. [40 CFR 60.18 (c)(3)(ii) and 40 CFR 64] Federally Enforceable Through Title V Permit
27. Steam-assisted and non-assisted flares shall be operated with an exit velocity less than 60 ft/sec, except as provided in 40 CFR 60.18 (c)(4)(ii) and (iii). [40 CFR 60.18 (c)(4)(i) and 40 CFR 64] Federally Enforceable Through Title V Permit
28. Steam-assisted and non-assisted flares may be operated with an exit velocity equal to or greater than 60 ft/sec, but less than 400 ft/sec, if the net heating value of the gas being combusted is greater than 1,000 Btu/scf. [40 CFR 60.18 (c)(4)(ii) and 40 CFR 64] Federally Enforceable Through Title V Permit
29. Steam-assisted and non-assisted flares may be operated with an exit velocity less than the velocity V_{max} , as determined by the methods specified in 40 CFR 60.18 (f)(5), and less than 400 ft/sec. [40 CFR 60.18 (c)(4)(iii) and 40 CFR 64] Federally Enforceable Through Title V Permit
30. Air-assisted flares shall be operated with an exit velocity less than the velocity V_{max} as determined by the methods specified in 40 CFR 60.18 (f)(6). [40 CFR 60.18 (c)(5) and 40 CFR 64] Federally Enforceable Through Title V Permit
31. The net heating value of the gas being combusted the flare shall be calculated pursuant to 40 CFR 60.18(f)(3) or by using EPA Method 18, ASTM D1946, and ASTM D2382 if published values are not available or cannot be calculated. [40 CFR 60.18 (f)(3)] Federally Enforceable Through Title V Permit
32. The permittee shall maintain, and make available for District inspection, all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 4311 and 40 CFR 64] Federally Enforceable Through Title V Permit
33. The permittee shall visually inspect the flare's emergency bypass valve to ensure the valve is maintained in the closed position. [40 CFR 64] Federally Enforceable Through Title V Permit



AUTHORITY TO CONSTRUCT

PERMIT NO: S-548-33-3

ISSUANCE DATE: 01/25/2023

LEGAL OWNER OR OPERATOR: TULARE CITY WASTEWATER PLANT

MAILING ADDRESS: 1875 S WEST ST
TULARE, CA 93274

LOCATION: 1875 S WEST ST
TULARE, CA 93274

EQUIPMENT DESCRIPTION:

MODIFICATION OF THREE ANAEROBIC DIGESTERS SERVED BY A DIGESTER GAS H₂S REMOVAL SYSTEM AND A FLARE INDUSTRIES MODEL 566 12.4 MMBTU/HR GROUND LEVEL ENCLOSED FLARE OR EQUIVALENT: COMPLY WITH DISTRICT RULE 4311 REQUIREMENTS BY ADD ACTUAL ANNUAL FUEL USE REQUIREMENT

CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Volume of biogas combusted in flare shall not exceed 497,000 cubic feet per day and 98,250,000 scf/yr. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
4. Daily emissions of air contaminants shall not exceed the following limits: 6.0 lb PM₁₀/day, 12.2 lb SO_x (as SO₂)/day, 17.9 lb NO_x (as NO₂)/day, 89.5 lb CO/day, or 0.8 lb VOC/day. [District Rule 2201 and 4311] Federally Enforceable Through Title V Permit
5. Fuel used shall not exceed 298.2 MMBtu/day or 58,920 MMBtu/yr. [District Rule 2201] Federally Enforceable Through Title V Permit
6. On and after January 1, 2024, permittee shall limit flaring annual throughput to levels not to exceed 100,000 MMBtu for two consecutive calendar years. [District Rule 4311] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (661) 392-5500 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Samir Sheikh, Executive Director / APCO

Steven D Davidson

Brian Clements, Director of Permit Services

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7. If the flare exceeds the annual throughput threshold of 100, 000 MMBtu/yr for two consecutive calendar years, the operator shall notify the APCO in writing of the exceedance within 30 days following the end of the second calendar year. By April 15 of the year after the end of the second consecutive calendar year in which an exceedance of the annual throughput threshold in Table 2 occurred, the applicant shall submit an ATC application to modify or replace the flare to meet Table 3 emission limits. [District Rule 4311] Federally Enforceable Through Title V Permit
8. Effective on and after January 1, 2024, the operator shall monitor the vent gas flow to the flare with a flow-measuring device or other parameters as specified in this permit. The operator shall determine the heating value (Btu per cubic foot) of the vent gas annually in accordance with Section 6.3.6. The operator shall maintain records pursuant to Section 6.1.7. Flares that the operator can verify, based on permit conditions, are not capable of exceeding the annual throughput thresholds in Table 2 shall not be required to monitor vent gas flow to the flare. [District Rule 4311] Federally Enforceable Through Title V Permit
9. Compliance with SOx emission limit shall be demonstrated by sampling biogas sulfur content and calculating the resulting daily SOx emissions at least once every two years. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
11. 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
12. The following test methods shall be used: fuel gas sulfur content - ASTM D3246 or double GC for H2S and mercaptans. [District Rule 1081] Federally Enforceable Through Title V Permit
13. Permittee shall maintain records of the volume of biogas combusted in the flare each day. Records shall be maintained for 5 years and be made readily available for District inspection upon request. [District Rule 2201 and District Rule 4311] Federally Enforceable Through Title V Permit
14. The flame shall be present at all times when combustible gases are vented through the flare. [District Rule 4311] Federally Enforceable Through Title V Permit
15. The outlet shall be equipped with an automatic ignition system, or, shall operate with a pilot flame present at all times when combustible gases are vented through the flare, except during purge periods for automatic-ignition equipped flares. [District Rule 4311] Federally Enforceable Through Title V Permit
16. Except for flares equipped with a flow-sensing ignition system, a heat sensing device such as a thermocouple, ultraviolet beam sensor, infrared sensor, or an equivalent device, capable of continuously detecting at least one pilot flame or the flare flame is present shall be installed and operated. [District Rule 4311] Federally Enforceable Through Title V Permit
17. Flares that use flow-sensing automatic ignition systems and which do not use a continuous flame pilot shall use purge gas, as defined by Rule 4311, for purging. [District Rule 4311] Federally Enforceable Through Title V Permit
18. The flare shall be tested for compliance with the VOC and NOx emissions limits at least once every 12 months. [District Rule 4311] Federally Enforceable Through Title V Permit
19. VOC, measured and calculated as carbon, shall be determined by EPA Method 25, except when the outlet concentration must be below 50 ppm in order to meet the standard, in which case Method 25a may be used, and analysis of halogenated exempt compounds shall be analyzed by EPA Method 18 or ARB Method 422. NOx emissions in pounds per million BTU shall be determined by using EPA Method 19. [District Rule 4311] Federally Enforceable Through Title V Permit
20. The permittee shall maintain, and make available for District inspection, all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 4311] Federally Enforceable Through Title V Permit

San Joaquin Valley Air Pollution Control District Authority to Construct

Modification of an Existing Flare for Compliance with Rule 4311

Facility Name:	Tulare City Wastewater Plant	Date:	January 12, 2023
Mailing Address:	1875 S West Street Tulare, CA 93274	Engineer:	Dan Klevann
Contact Person:	Branlee Vath	Lead Engineer:	Steve Davidson
Telephone:	559-684-3122		
Email:	bvath@tulare.ca.gov		
Application #(s):	S-548-5-4, '-33-3		
Project #:	S-1223297		
Deemed Complete:	October 24, 2022		

I. PROPOSAL

Tulare City Wastewater Plant (Tulare) requests Authorities to Construct (ATC) for the modification of one 61.25 MMBtu/hr flare and one 12.4 MMBtu/hr flare at its wastewater facility to comply with the requirements of District Rule 4311 – *Flares*.

The applicant proposes to modify the existing flares in order to meet the annual throughput threshold specified in Table 2 of District Rule 4311 for flares used at digester operations.

This modification is proposed solely to comply with District Rule 4311 requirements and will be considered an administrative change, because this modification reflects how the unit currently operates and is not a NSR modification pursuant to District Rule 2201 – *New and Modified Stationary Source Review Rule* and SSPE, BACT, and offsets will not be required. See further discussion under the Compliance section below.

Tulare has received their Title V Operating Permit. This modification can be classified as a Title V minor modification pursuant to Rule 2520, Section 3.20, and could be processed with a Certificate of Conformity (COC).

However, the facility has not requested that this project be processed in that manner. Therefore, the facility will be required to submit a Title V minor modification application prior to operating under the revised provisions of the ATC(s) issued with this project. The following condition will be added to the ATC(s):

- *{1829} The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520]*

II. APPLICABLE RULES

District Rule 2201	New and Modified Stationary Source Review Rule (8/15/19)
District Rule 2520	Federally Mandated Operating Permits (6/21/01)
District Rule 4311	Flares (12/17/20)
District Rule 4000 Series ¹	Prohibitory Rules (Various Dates)
CH&SC 41700	Health Risk Assessment
CH&SC 42301.6	School Notice

¹ This project does not result in any increase in emissions. The flare is currently in compliance with all District Rules and Regulations. Therefore, continued compliance with all other prohibitory rules is expected and will not be addressed in this evaluation.

III. PROJECT LOCATION

This facility is located at 1875 S West Street in Tulare, CA. The equipment is not located within 1,000 feet of the outer boundary of a K-12 school. Therefore, the public notification requirement of California Health and Safety Code 42301.6 is not applicable to this project.

IV. PROCESS DESCRIPTION

Tulare operates 61.25 MMBtu/hr and 12.4 MMBtu/hr flares to combust gas from the wastewater digester operations.

V. EQUIPMENT LISTING

Pre-Project Equipment Description:

- S-548-5-3:** VARAC MODEL 244-W BIOGAS FLARE
- S-548-33-2:** THREE ANAEROBIC DIGESTERS SERVED BY A DIGESTER GAS H₂S REMOVAL SYSTEM AND A FLARE INDUSTRIES MODEL 566 12.4 MMBTU/HR GROUND LEVEL ENCLOSED FLARE OR EQUIVALENT

Proposed Modification:

- S-548-5-4:** MODIFICATION OF VARAC MODEL 244-W BIOGAS FLARE: COMPLY WITH DISTRICT RULE 4311 REQUIREMENTS BY ADD ACTUAL ANNUAL FUEL USE REQUIREMENT
- S-548-33-3:** MODIFICATION OF THREE ANAEROBIC DIGESTERS SERVED BY A DIGESTER GAS H₂S REMOVAL SYSTEM AND A FLARE INDUSTRIES MODEL 566 12.4 MMBTU/HR GROUND LEVEL ENCLOSED FLARE OR EQUIVALENT: COMPLY WITH DISTRICT RULE 4311 REQUIREMENTS BY ADD ACTUAL ANNUAL FUEL USE REQUIREMENT

Post Project Equipment Description:

S-548-5-4: VARAC MODEL 244-W BIOGAS FLARE

S-548-33-3: THREE ANAEROBIC DIGESTERS SERVED BY A DIGESTER GAS H₂S REMOVAL SYSTEM AND A FLARE INDUSTRIES MODEL 566 12.4 MMBTU/HR GROUND LEVEL ENCLOSED FLARE OR EQUIVALENT

VI. EMISSION CONTROL TECHNOLOGY EVALUATION

There are no changes in control methods proposed by the applicant. However, the amendments to Rule 4311 will result in reductions of NO_x and VOC emissions.

VII. GENERAL CALCULATIONS

Calculations will be performed to demonstrate compliance with the new requirements of Rule 4311, potential emissions, and to establish, when applicable, new emissions limits for the flare.

A. Assumptions

- The maximum operating schedule is 24 hours per day
- The units are fired solely on digester gas
- Annual pre-project potential to emit is calculated based on 8,760 hours of operation per year (current PTO)
- Annual post-project potential to emit is calculated based on 100,000 MMBtu annual heat input (applicant's proposal)
- Flared gas heat input = permit 5- 1,470 MMBtu/day or permit 33- 298.2 MMBtu/day (Current PTO)

B. Emission Factors

Pre-Project Emission Factors

‘-33 Pre-Project Emission Factors		
Pollutant	lb/MMBtu	Source
NO _x	0.06	Manufacturer
SO _x	0.041	Manufacturer
PM ₁₀	0.02	Manufacturer
CO	0.3	Manufacturer
VOC	0.0027	Manufacturer

Post-Project Emission Factors

Since there is no change in emission factors, post project and pre-project emissions factors are identical.

C. Calculations

1. Pre-Project Potential to Emit (PE1)

Potential emissions from the flare are from the permit and from Project S-1085134 and summarized below:

‘-5 PE1		
Pollutant	Daily Emissions (lb/day)	Annual Emissions (lb/year)
NO _x	90.7	33,106
SO _x	221.5	80,848
PM ₁₀	2.7	986
CO	18.2	6643
VOC	2.5	913

‘-33 PE1		
Pollutant	Daily Emissions (lb/day)	Annual Emissions (lb/year)
NO _x	17.9	3535
SO _x	12.2	2416
PM ₁₀	6.0	1178
CO	89.5	17,676
VOC	0.8	159

2. Post-Project Potential to Emit (PE2)

The applicant has proposed to limit the annual throughput (MMBtu/year) for two consecutive calendar years to meet the applicable threshold specified in Table 2 of District Rule 4311. The following condition will be added to ensure compliance with Rule 4311:

- *On and after January 1, 2024, permittee shall limit flaring annual throughput to levels not to exceed 100,000 MMBtu for two consecutive calendar years. [District Rule 4311]*

However, this project is not an NSR modification; therefore, PE1 = PE2 for all pollutants and all permit units.

PE2 is summarized in the following tables:

‘-5 PE2		
Pollutant	Daily Emissions (lb/day)	Annual Emissions (lb/year)
NO _x	90.7	33,106
SO _x	221.5	80,848
PM ₁₀	2.7	986
CO	18.2	6643
VOC	2.5	913

‘-33 PE2		
Pollutant	Daily Emissions (lb/day)	Annual Emissions (lb/year)
NO _x	17.9	3535
SO _x	12.2	2416
PM ₁₀	6.0	1178
CO	89.5	17676
VOC	0.8	159

VIII. COMPLIANCE

District Rule 2201 New and Modified Stationary Source Review Rule

Section 3.25 states that a modification is an action including at least one of the following items:

- **Any change in hours of operation, production rate, or method of operation of an existing emissions unit, which would necessitate a change in permit conditions.**

The modification proposed by the applicant does not change the actual production rate or method of operation of the existing flare; the proposal will instead reflect a more accurate representation of current operations.

Furthermore, the flare is an emissions control device for a specific operation which production rate, operating schedule or method of operation is not expected to change as a result of this project.

- **Any structural change or addition to an existing emissions unit which would necessitate a change in permit conditions. A Replacement Emissions Unit shall not be considered to be a structural change.**

The proposed modification does not involve any structural change or addition to the existing flares as the facility will be limiting the annual MMBtu heat input. Therefore, the facility has not proposed a structural change or addition to an existing emissions unit, which would necessitate a change in permit conditions.

- **An increase in emissions from an emissions unit caused by a modification of the Stationary Source when the emissions unit is not subject to a daily emissions limitation.**

As discussed above, there are no emissions increases associated with this project.

- **Addition of any new emissions unit, which is subject to District permitting requirements.**

The applicant is not proposing to add any new emissions units in this project.

- **A change in a permit term or condition proposed by an applicant to obtain an exemption from an applicable requirement to which the source would otherwise be subject.**

The applicant is proposing to limiting the annual MMBtu heat input. The proposed modification is solely to comply with amendments to Rule 4311. Therefore, the facility has not proposed a change in a permit term or condition to obtain an exemption from an applicable requirement to which the source would otherwise be subject.

As shown above, the applicant's proposal is not a modification as defined by Rule 2201. Therefore, Rule 2201 is not applicable and no further discussion is required.

A. Daily Emission Limits (DELs)

Daily Emissions Limitations (DELs) and other enforceable conditions are required by Section 3.15 to restrict a unit's maximum daily emissions, to a level at or below the emissions associated with the maximum design capacity. Per Sections 3.15.1 and 3.15.2, the DEL must be contained in the latest ATC and contained in or enforced by the latest PTO and enforceable, in a practicable manner, on a daily basis. DELs are also required to enforce the applicability of BACT.

B. Compliance Assurance

1. Source Testing

This unit is subject to District Rule 4311, *Flares*. Source testing requirements will be discussed in Section VIII, *District Rule 4311* of this evaluation.

2. Monitoring

As required by District Rule 4311, *Flares*, this unit is subject to monitoring requirements. Monitoring requirements will be discussed in Section VIII, *District Rule 4311* of this evaluation.

Continued compliance with Rule 2201 monitoring requirements is expected.

3. Recordkeeping

As required by District Rule 4311, *Flares*, this unit is subject to recordkeeping requirements. Recordkeeping requirements will be discussed in Section VIII, *District Rule 4311* of this evaluation.

Continued compliance with Rule 2201 monitoring requirements is expected.

4. Reporting

No reporting is required to demonstrate compliance with Rule 2201.

District Rule 2520 Federally Mandated Operating Permits

Tulare has a Title V permit. The changes authorized by this ATC constitute a minor modification of their Title V permit. The facility has requested that this ATC be issued without a Certificate of Conformity (COC). Therefore, prior to initial operation under this ATC, the applicant must submit a Title V application for a minor modification and a permit condition will be listed as follows:

- {1829} *The facility shall submit an application to modify the Title V permit, in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520]*

4000 Series Prohibitory Rules

As stated in Section II, this project does not result in any increase in emissions. The flare is currently in compliance with all District Rules and Regulations. The proposed changes are solely for compliance with the amendments to District Rule 4311. Therefore, a discussion of this rule will be addressed below.

Continued compliance with all other prohibitory rules is expected.

District Rule 4311 Flares

The purpose of this rule is to limit emissions of VOCs, NO_x, and SO_x from the operation of flares. Therefore, the unit in this project is subject to this rule.

The following discussion will solely focus on the Sections in which new requirements were added in the most recent amendment to this rule, dated December 17, 2020.

Section 5.1 states that flares that are permitted to operate only during an emergency are not subject to the requirements of Sections 5.7, 5.8, 5.9, and 5.10.

The applicant does not propose to operate the flare as emergency use only. Therefore, it is not exempt from the requirements of Sections 5.7 through 5.10.

Section 5.2 states that flares that are operated 200 hours or less per calendar year as specified in the permit to operate, or with an annual throughput limit equivalent to 200 hours per year at flare rating (MMBtu/hr) as specified in the permit to operate, are exempt from the requirements of Sections 5.9 and 5.10.

The applicant proposes to add 100,000 MMBtu/yr heat input restriction. Therefore, it is not exempt from the requirements of Sections 5.9 and 5.10.

The following conditions will be added to the ATC to ensure compliance with this section:

- *{edited 2965} A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of gas combusted in the flare shall be installed, utilized and maintained. [District Rule 4311]*
- *The higher heating value of the flared gas shall be monitored at least quarterly. Measured higher heating value and quantity of gas flared shall be used to determine compliance with heat input limits. [District Rules 1070, 2201, and 4311]*
- *Permittee shall maintain the following daily records of gas flared: volume, type, higher heating value, hours of operation, and sulfur content. [District Rule 4311]*

Sections 5.3 states that the flame shall be present at all times when combustible gases are vented through the flare. The following condition remain in the permit:

- *{2329} The flame shall be present at all times when combustible gases are vented through the flare. [District Rule 4311]*

Section 5.4 states that the outlet shall be equipped with an automatic ignition system, or, shall operate with a pilot flame present at all times when combustible gases are vented through the flare, except during purge periods for automatic-ignition equipped flares. The flare is equipped with a continuous propane pilot and not an automatic ignition system. The following condition will remain in the permit:

- *{2330} The outlet shall be equipped with an automatic ignition system, or, shall operate with a pilot flame present at all times when combustible gases are vented through the*

flare. The pilot need not be present when the flare is isolated for required flare maintenance. [District Rule 4311]

Section 5.5 states that, except for flares equipped with a flow-sensing ignition system, a heat sensing device such as a thermocouple, ultraviolet beam sensor, infrared sensor, or an alternative equivalent device, capable of continuously detecting at least one pilot flame or the flare flame is present shall be installed and operated. The flare does not have a continuous pilot; therefore, this section does not apply.

Section 5.6 states that flares that use flow-sensing automatic ignition systems and which do not use a continuous flame pilot shall use purge gas for purging. This section is applicable as the flare has a continuous pilot. The following condition will be included on the ATC:

- *The flare shall use purge gas, as defined by Rule 4311, for purging. [District Rule 4311]*

Section 5.7 states that open flares with flare gas pressure less than 5 psig shall comply with 40 CFR 60.18. However, this section also states that the requirements of this section shall not apply to Coanda effect flares. Therefore, this section does apply. The following condition(s) are included on the ATC:

- *Flares shall only be used with the net heating value of the gas being combusted being 300 Btu/scf or greater if the flare is air-assisted or steam-assisted. [40 CFR 60.18 (c)(3)]*
- *The net heating value of the gas being combusted in a flare shall be calculated annually, pursuant to 40 CFR 60.18(f)(3) and using EPA Method 18, ASTM D1946, and ASTM D2382. [40 CFR 60.18 (f)(3-6)]*
- *{656} Air-assisted flares shall be operated with an exit velocity less than V_{max} , as determined by the equation specified in paragraph 40 CFR 60.18 (f)(6). [40 CFR 60.18 (c)(5)]*
- *{660} The actual exit velocity of a flare shall be determined by dividing the volumetric flowrate (in units of standard temperature and pressure), as determined by Reference Methods 2, 2A, 2C, or 2D as appropriate; by the unobstructed (free) cross sectional area of the flare tip. [40 CFR 60.18 (f)(4)]*

Section 5.8 provides emissions limits for ground-level enclosed flares. The flare in this project is an open flare. Therefore, these standards do not apply.

Section 5.9 states that, except for flares that meet the emissions limits in Table 3, operators of flares located at operations specified in Table 2 shall complete one of the following options:

- 5.9.1 Submit an ATC application to limit flaring annual throughput through an enforceable Permit to Operate limit, to levels not to exceed those specified in Table 2 for two consecutive years, per the compliance schedule in Section 7.2; or
- 5.9.2 Replace or modify the existing flare to meet Table 3 emissions limits per the compliance schedule in Section 7.3.

Table 2 – Flare Annual Throughput Thresholds (MMBtu/calendar year)	
Flare Category	MMBtu/yr
A. Flares used at Oil and Gas Operations, and Chemical Operations	25,000
B. Flares used at Landfill Operations	90,000
C. Flares used at Digester Operations	100,000
D. Flares used at Organic Liquid Loading Operations	25,000

Table 3 – VOC and NOx Emissions Requirements for Flares		
Flare Category	VOC (lb/MMBtu)	NOx (lb/MMBtu)
A. Flares at Oil and Gas Operations or Chemical Operations	0.008	0.018
B. Flares at Landfill Operations	0.038	0.025
C. Flares at Digester Operations (Located at a Major Source)	0.038	0.025
D. Flares at Digester Operations (Not located at a Major Source)	N/A	0.060
E. Flares at Organic Liquid Loading Operations	Pounds/1,000 gallons loaded	
	N/A	0.034

The applicant proposes to modify the existing flare in order to meet the annual throughput threshold specified in Table 2 of District Rule 4311 for flares used at digester operations.

The following condition, already proposed in this evaluation, will be included in the ATC:

- *On and after January 1, 2024, permittee shall limit flaring annual throughput to levels not to exceed 100,000 MMBtu/yr for two consecutive calendar years. [District Rule 4311]*

Section 5.10 states that operators of flares that opt to comply with Section 5.9.1, if they exceed the annual throughput thresholds for two consecutive calendar years, they shall notify the APCO in writing within 30 days following the end of the second calendar year and shall replace or modify the flare to meet Table 3 emission limits per the compliance schedule in Section 7.4. The following condition will be added to the ATC to ensure compliance:

- *If the flare exceeds the annual throughput threshold of 100,000 MMBtu/yr for two consecutive calendar years, the operator shall notify the APCO in writing of the exceedance within 30 days following the end of the second calendar year. By April 15 of the year after the end of the second consecutive calendar year in which an exceedance of the annual throughput threshold in Table 2 occurred, the applicant shall submit an ATC application to modify or replace the flare to meet Table 3 emission limits. [District Rule 4311]*

Section 5.14 states that, effective on and after January 1, 2024, the operator of a flare subject to the annual throughput thresholds in Table 2 shall monitor the vent gas flow to the flare with a flow-measuring device or other parameters as specified in the Permit to Operate. The operator shall determine the heating value (Btu per cubic foot) of the vent gas annually in

accordance with Section 6.3.6. The operator shall maintain records pursuant to Section 6.1.7. Flares that the operator can verify, based on permit conditions, are not capable of exceeding the annual throughput thresholds in Table 2 shall not be required to monitor vent gas flow to the flare.

The flare in this project is subject to the annual throughput thresholds in Table 2. Therefore, section 5.14 applies and the following condition will be added to the permit:

- *Effective on and after January 1, 2024, the operator shall monitor the vent gas flow to the flare with a flow-measuring device or other parameters as specified in this permit. The operator shall determine the heating value (Btu per cubic foot) of the vent gas annually in accordance with Section 6.3.6. The operator shall maintain records pursuant to Section 6.1.7. Flares that the operator can verify, based on permit conditions, are not capable of exceeding the annual throughput thresholds in Table 2 shall not be required to monitor vent gas flow to the flare. [District Rule 4311]*

Section 6.0 Recordkeeping Requirements

Section 6.1 states that the following records shall be maintained, retained on-site for a minimum of five years, and made available to the APCO, ARB, and EPA upon request:

- 6.1.1 Copy of the compliance determination conducted pursuant to Section 6.4.1.
- 6.1.2 Copy of the source testing result conducted pursuant to Section 6.4.2.
- 6.1.3 For flares used during an emergency, record of the duration of flare operation, amount of gas burned, and the nature of the emergency situation.
- 6.1.4 Operators claiming an exemption pursuant to Section 5.2 shall record annual hours of operation or annual throughput necessary to demonstrate an exemption under that section.
- 6.1.5 A copy of the approved flare minimization plan pursuant to Section 6.5.
- 6.1.6 A copy of annual reports submitted to the APCO pursuant to Section 6.2.
- 6.1.7 Monitoring data collected pursuant to Sections 5.13, 5.14, 6.6, 6.7, 6.8, 6.9, and 6.10.

The units are currently in compliance with these Subsections. Therefore, we will only discuss the sections that were recently amended.

This flare is not used for emergency purposes and does not claim an exemption pursuant Section 5.2; therefore, the recordkeeping requirements of subsections 6.1.3 and 6.1.4 do not apply. Continued compliance with the applicable recordkeeping requirements in this Section is expected.

Section 7.0 Compliance Schedule

Section 7.2 is for operators of flares opting to limit flaring annual throughput per Section 5.9.1, which limits the flaring throughput for flares used at digester operations to 100,000 MMBtu/yr. The compliance schedule is included in Table 5 of this rule.

The facility proposed to limit the annual throughput of this flare to 100,000 MMBtu/yr for two consecutive calendar years, which does not surpass the threshold in Table 2. The limit will be included in their permit and, therefore, it will be enforceable. Therefore, the following compliance schedule needs to be met.

Table 5 – Flaring Throughput Permit to Operate Limit Timeline	
Requirement	Deadline
A. Submit ATC application to limit annual throughput to levels below those specified in Table 2	July 1, 2022
B. Compliance with flaring annual throughput limits	On and after January 1, 2024

The applicant submitted an ATC application for the modification of the flare, which was received on 06/27/22. Therefore, the compliance schedule has been met.

Section 7.4 is intended for operators of flares subject to Section 5.10 and they shall meet the compliance schedule in Table 7 below:

Table 7 – Flare Modification or Replacement Timeline	
Requirement	Deadline
A. Submit ATC application to modify or replace the flare to meet Table 3 emission limits	By April 15 of the year after the end of the second consecutive calendar year in which an exceedance of the Annual Throughput Threshold occurred
B. Demonstrate Compliance with Table 3 emission limits	By December 31 of the year after the end of the second consecutive calendar year in which an exceedance of the Annual Throughput Threshold occurred

The following condition, already proposed in this evaluation, will be added to the ATC to ensure compliance with this section:

- If the flare exceeds the annual throughput threshold of 100,000 for two consecutive calendar years, the operator shall notify the APCO in writing of the exceedance within 30 days following the end of the second calendar year. By April 15 of the year after the end of the second consecutive calendar year in which an exceedance of the annual throughput threshold in Table 2 occurred, the applicant shall submit an ATC application to modify or replace the flare to meet Table 3 emission limits. [District Rule 4311]*

Continued compliance with the remaining sections of this rule is expected.

California Health & Safety Code 41700 (Health Risk Assessment)

District Policy APR 1905 – Risk Management Policy for Permitting New and Modified Sources specifies that for an increase in emissions associated with a proposed new source or modification, the District perform an analysis to determine the possible impact to the nearest resident or worksite.

As demonstrated above, there are no increases in emissions associated with this project, therefore a health risk assessment is not necessary and no further risk analysis is required.

California Health & Safety Code 42301.6 (School Notice)

This facility is not located within 1,000 feet of a school. Regardless, there is no increase in emissions of any hazardous air pollutants with this project; therefore, the public notification requirement of California Health and Safety Code 42301.6 is not applicable to this project.

California Environmental Quality Act (CEQA)

CEQA requires each public agency to adopt objectives, criteria, and specific procedures consistent with CEQA Statutes and the CEQA Guidelines for administering its responsibilities under CEQA, including the orderly evaluation of projects and preparation of environmental documents. The District adopted its *Environmental Review Guidelines* (ERG) in 2001. The basic purposes of CEQA are to:

- Inform governmental decision-makers and the public about the potential, significant environmental effects of proposed activities;
- Identify the ways that environmental damage can be avoided or significantly reduced;
- Prevent significant, avoidable damage to the environment by requiring changes in projects through the use of alternatives or mitigation measures when the governmental agency finds the changes to be feasible; and
- Disclose to the public the reasons why a governmental agency approved the project in the manner the agency chose if significant environmental effects are involved.

The District performed an Engineering Evaluation (this document) for the proposed project and determined that the project qualifies for ministerial approval under the District's Guideline for Expedited Application Review (GEAR). Section 21080 of the Public Resources Code exempts from the application of CEQA those projects over which a public agency exercises only ministerial approval. Therefore, the District finds that this project is exempt from the provisions of CEQA.

Indemnification Agreement/Letter of Credit Determination

According to District Policy APR 2010 (CEQA Implementation Policy), when the District is the Lead or Responsible Agency for CEQA purposes, an indemnification agreement and/or a letter of credit may be required. The decision to require an indemnity agreement and/or a letter of credit are based on a case-by-case analysis of a particular project's potential for litigation risk, which in turn may be based on a project's potential to generate public concern, its potential for significant impacts, and the project proponent's ability to pay for the costs of litigation without a letter of credit, among other factors.

As described above, the project requires only ministerial approval, and is exempt from the provisions of CEQA. As such, an Indemnification Agreement or a Letter of Credit will not be required for this project in the absence of expressed public concern.

IX. RECOMMENDATION

Compliance with all applicable rules and regulations is expected. Issue Authority to Construct S-548-5-4, S-548-33-3, subject to the permit conditions on the attached draft Authority to Construct in Appendix B.

X. BILLING INFORMATION

Annual Permit Fees			
Permit Number	Fee Schedule	Fee Description	Annual Fee
S-548-5-4	3020-02-H	61.25 MMBtu/hr flare	\$1,238
S-548-33-3	3020-02-G	12.4 MMBtu/hr flare	\$980

APPENDICES

- A. Current PTO(s)
- B. Draft ATC(s)

Appendix A:

Current PTOs

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-548-5-3

EXPIRATION DATE: 10/31/2022

EQUIPMENT DESCRIPTION:

VARAC MODEL 244-W BIOGAS FLARE

PERMIT UNIT REQUIREMENTS

1. Volume of biogas combusted in flare shall not exceed 88,150 cubic feet per hour. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. Daily emissions of air contaminants shall not exceed the following limits: 2.7 lb PM10/day, 221.5 lb SOx (as SO2)/day, 90.7 lb NOx (as NO2)/day, 18.2 lb CO/day, or 2.5 lb VOC/day. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Compliance with SOx emission limit shall be demonstrated by sampling biogas sulfur content and calculating the resulting daily SOx emissions at least once every two years. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The District shall be notified by the permittee 15 days prior to each test. The test results shall be submitted to the District no later than 30 days after each test. [District Rule 1081] Federally Enforceable Through Title V Permit
6. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
7. 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
8. The following test methods shall be used: fuel gas sulfur content - ASTM D3246 or double GC for H2S and mercaptans. [District Rule 1081] Federally Enforceable Through Title V Permit
9. Permittee shall maintain records of the volume of biogas combusted in the flare each day. Records shall be maintained for 5 years and be made readily available for District inspection upon request. [District Rule 2201, District Rule 4311, and 40 CFR 64] Federally Enforceable Through Title V Permit
10. Visible emissions monitoring shall be conducted at least annually, using EPA Method 22. [40 CFR 60.18(f)(1) and 40 CFR 64] Federally Enforceable Through Title V Permit
11. The flame shall be present at all times when combustible gases are vented through the flare. [District Rule 4311, 40 CFR 60.18(c)(2), and 40 CFR 64] Federally Enforceable Through Title V Permit
12. The outlet shall be equipped with an automatic ignition system, or, shall operate with a pilot flame present at all times when combustible gases are vented through the flare, except during purge periods for automatic-ignition equipped flares. [District Rule 4311, 40 CFR 60.18(f)(2), and 40 CFR 64] 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.

Facility Name: TULARE CITY WASTEWATER PLANT

Location: 1875 S WEST ST, TULARE, CA 93274

S-548-5-3 : Jan 11 2023 10:45AM -- KLEVANN

13. Except for flares equipped with a flow-sensing ignition system, a heat sensing device such as a thermocouple, ultraviolet beam sensor, infrared sensor, or an equivalent device, capable of continuously detecting at least one pilot flame or the flare flame is present shall be installed and operated. [District Rule 4311, 40 CFR 60.18(f)(2), and 40 CFR 64] Federally Enforceable Through Title V Permit
14. Flares that use flow-sensing automatic ignition systems and which do not use a continuous flame pilot shall use purge gas for purging. [District Rule 4311] Federally Enforceable Through Title V Permit
15. Open flares in which the flare gas pressure is less than 5 psig shall be operated in such a manner that meets the provisions of 40 CFR 60.18. [District Rule 4311 and 40 CFR 64] Federally Enforceable Through Title V Permit
16. The flare shall be operated according to the manufacturer's specifications, a copy of which shall be maintained on site. [40 CFR 60.18(d) and 40 CFR 64] Federally Enforceable Through Title V Permit
17. A non-assisted flare shall have a diameter of 3 inches or greater, have a minimum hydrogen content of 8.0% by volume, and be designed for and operated with an exit velocity less than 122 ft/sec and less than the velocity V_{max} , as determined by the equation specified in paragraph 40 CFR 60.18 (c)(3)(i)(A). [40 CFR 60.18 (c)(3)(i)(a) and 40 CFR 64] Federally Enforceable Through Title V Permit
18. The actual exit velocity of a flare shall be determined by dividing the volumetric flowrate (in units of standard temperature and pressure), as determined by Reference Methods 2, 2A, 2C, or 2D as appropriate; by the unobstructed (free) cross sectional area of the flare tip. [40 CFR 60.18 (f)(4) and 40 CFR 64] Federally Enforceable Through Title V Permit
19. Air-assisted or steam-assisted flares shall only be used when the net heating value of the gas being combusted is 300 Btu/scf or greater. Non-assisted flares shall only be used when the net heating value of the gas being combusted is 200 Btu/scf or greater. [40 CFR 60.18 (c)(3)(ii) and 40 CFR 64] Federally Enforceable Through Title V Permit
20. Steam-assisted and non-assisted flares shall be operated with an exit velocity less than 60 ft/sec, except as provided in 40 CFR 60.18 (c)(4)(ii) and (iii). [40 CFR 60.18 (c)(4)(i) and 40 CFR 64] Federally Enforceable Through Title V Permit
21. Steam-assisted and non-assisted flares may be operated with an exit velocity equal to or greater than 60 ft/sec, but less than 400 ft/sec, if the net heating value of the gas being combusted is greater than 1,000 Btu/scf. [40 CFR 60.18 (c)(4)(ii) and 40 CFR 64] Federally Enforceable Through Title V Permit
22. Steam-assisted and non-assisted flares may be operated with an exit velocity less than the velocity V_{max} , as determined by the methods specified in 40 CFR 60.18 (f)(5), and less than 400 ft/sec. [40 CFR 60.18 (c)(4)(iii) and 40 CFR 64] Federally Enforceable Through Title V Permit
23. Air-assisted flares shall be operated with an exit velocity less than the velocity V_{max} as determined by the methods specified in 40 CFR 60.18 (f)(6). [40 CFR 60.18 (c)(5) and 40 CFR 64] Federally Enforceable Through Title V Permit
24. The net heating value of the gas being combusted the flare shall be calculated pursuant to 40 CFR 60.18(f)(3) or by using EPA Method 18, ASTM D1946, and ASTM D2382 if published values are not available or cannot be calculated. [40 CFR 60.18 (f)(3)] Federally Enforceable Through Title V Permit
25. The permittee shall maintain, and make available for District inspection, all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 4311 and 40 CFR 64] Federally Enforceable Through Title V Permit
26. The permittee shall visually inspect the flare's emergency bypass valve to ensure the valve is maintained in the closed position. [40 CFR 64] 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: S-548-33-2

EXPIRATION DATE: 10/31/2022

EQUIPMENT DESCRIPTION:

THREE ANAEROBIC DIGESTERS SERVED BY A DIGESTER GAS H₂S REMOVAL SYSTEM AND A FLARE
INDUSTRIES MODEL 566 12.4 MMBTU/HR GROUND LEVEL ENCLOSED FLARE OR EQUIVALENT

PERMIT UNIT REQUIREMENTS

1. Volume of biogas combusted in flare shall not exceed 497,000 cubic feet per day and 98,250,000 scf/yr. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. Daily emissions of air contaminants shall not exceed the following limits: 6.0 lb PM₁₀/day, 12.2 lb SO_x (as SO₂)/day, 17.9 lb NO_x (as NO₂)/day, 89.5 lb CO/day, or 0.8 lb VOC/day. [District Rule 2201 and 4311] Federally Enforceable Through Title V Permit
4. Fuel used shall not exceed 298.2 MMBtu/day or 58,920 MMBtu/yr. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Compliance with SO_x emission limit shall be demonstrated by sampling biogas sulfur content and calculating the resulting daily SO_x emissions at least once every two years. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
7. 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
8. The following test methods shall be used: fuel gas sulfur content - ASTM D3246 or double GC for H₂S and mercaptans. [District Rule 1081] Federally Enforceable Through Title V Permit
9. Permittee shall maintain records of the volume of biogas combusted in the flare each day. Records shall be maintained for 5 years and be made readily available for District inspection upon request. [District Rule 2201 and District Rule 4311] Federally Enforceable Through Title V Permit
10. The flame shall be present at all times when combustible gases are vented through the flare. [District Rule 4311] Federally Enforceable Through Title V Permit
11. The outlet shall be equipped with an automatic ignition system, or, shall operate with a pilot flame present at all times when combustible gases are vented through the flare, except during purge periods for automatic-ignition equipped flares. [District Rule 4311] Federally Enforceable Through Title V Permit
12. Except for flares equipped with a flow-sensing ignition system, a heat sensing device such as a thermocouple, ultraviolet beam sensor, infrared sensor, or an equivalent device, capable of continuously detecting at least one pilot flame or the flare flame is present shall be installed and operated. [District Rule 4311] 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. Flares that use flow-sensing automatic ignition systems and which do not use a continuous flame pilot shall use purge gas for purging. [District Rule 4311] Federally Enforceable Through Title V Permit
14. The flare shall be tested for compliance with the VOC and NOx emissions limits at least once every 12 months. [District Rule 4311] Federally Enforceable Through Title V Permit
15. VOC, measured and calculated as carbon, shall be determined by EPA Method 25, except when the outlet concentration must be below 50 ppm in order to meet the standard, in which case Method 25a may be used, and analysis of halogenated exempt compounds shall be analyzed by EPA Method 18 or ARB Method 422. NOx emissions in pounds per million BTU shall be determined by using EPA Method 19. [District Rule 4311] Federally Enforceable Through Title V Permit
16. The permittee shall maintain, and make available for District inspection, all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 4311] Federally Enforceable Through Title V Permit

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

Appendix B:

Draft ATCs

San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

PERMIT NO: S-548-5-4

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: TULARE CITY WASTEWATER PLANT

MAILING ADDRESS: 1875 S WEST ST
TULARE, CA 93274

LOCATION: 1875 S WEST ST
TULARE, CA 93274

EQUIPMENT DESCRIPTION:

MODIFICATION OF VARAC MODEL 244-W BIOGAS FLARE: COMPLY WITH DISTRICT RULE 4311 REQUIREMENTS
BY ADD ACTUAL ANNUAL FUEL USE REQUIREMENT

CONDITIONS

1. {1829} The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Volume of biogas combusted in flare shall not exceed 88,150 cubic feet per hour. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
4. Daily emissions of air contaminants shall not exceed the following limits: 2.7 lb PM10/day, 221.5 lb SOx (as SO2)/day, 90.7 lb NOx (as NO2)/day, 18.2 lb CO/day, or 2.5 lb VOC/day. [District Rule 2201] Federally Enforceable Through Title V Permit
5. On and after January 1, 2024, permittee shall limit flaring annual throughput to levels not to exceed 100,000 MMBtu for two consecutive calendar years. [District Rule 4311] Federally Enforceable Through Title V Permit
6. If the flare exceeds the annual throughput threshold of 100, 000 MMBtu/yr for two consecutive calendar years, the operator shall notify the APCO in writing of the exceedance within 30 days following the end of the second calendar year. By April 15 of the year after the end of the second consecutive calendar year in which an exceedance of the annual throughput threshold in Table 2 occurred, the applicant shall submit an ATC application to modify or replace the flare to meet Table 3 emission limits. [District Rule 4311] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (661) 392-5500 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Samir Sheikh, Executive Director / APCO

Brian Clements, Director of Permit Services

S-548-5-4 : Jan 25 2023 9:40AM -- KLEVANNND : Joint Inspection NOT Required

7. Effective on and after January 1, 2024, the operator shall monitor the vent gas flow to the flare with a flow-measuring device or other parameters as specified in this permit. The operator shall determine the heating value (Btu per cubic foot) of the vent gas annually in accordance with Section 6.3.6. The operator shall maintain records pursuant to Section 6.1.7. Flares that the operator can verify, based on permit conditions, are not capable of exceeding the annual throughput thresholds in Table 2 shall not be required to monitor vent gas flow to the flare. [District Rule 4311] Federally Enforceable Through Title V Permit
8. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of gas combusted in the flare shall be installed, utilized and maintained. [District Rule 4311] Federally Enforceable Through Title V Permit
9. The higher heating value of the flared gas shall be monitored at least quarterly. Measured higher heating value and quantity of gas flared shall be used to determine compliance with heat input limits. [District Rules 1070, 2201, and 4311] Federally Enforceable Through Title V Permit
10. Permittee shall maintain the following daily records of gas flared: volume, type, higher heating value, hours of operation, and sulfur content. [District Rule 4311] Federally Enforceable Through Title V Permit
11. Compliance with SOx emission limit shall be demonstrated by sampling biogas sulfur content and calculating the resulting daily SOx emissions at least once every two years. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The District shall be notified by the permittee 15 days prior to each test. The test results shall be submitted to the District no later than 30 days after each test. [District Rule 1081] Federally Enforceable Through Title V Permit
13. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
14. 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
15. The following test methods shall be used: fuel gas sulfur content - ASTM D3246 or double GC for H₂S and mercaptans. [District Rule 1081] Federally Enforceable Through Title V Permit
16. Permittee shall maintain records of the volume of biogas combusted in the flare each day. Records shall be maintained for 5 years and be made readily available for District inspection upon request. [District Rule 2201, District Rule 4311, and 40 CFR 64] Federally Enforceable Through Title V Permit
17. Visible emissions monitoring shall be conducted at least annually, using EPA Method 22. [40 CFR 60.18(f)(1) and 40 CFR 64] Federally Enforceable Through Title V Permit
18. The flame shall be present at all times when combustible gases are vented through the flare. [District Rule 4311, 40 CFR 60.18(c)(2), and 40 CFR 64] Federally Enforceable Through Title V Permit
19. The outlet shall be equipped with an automatic ignition system, or, shall operate with a pilot flame present at all times when combustible gases are vented through the flare, except during purge periods for automatic-ignition equipped flares. [District Rule 4311, 40 CFR 60.18(f)(2), and 40 CFR 64] Federally Enforceable Through Title V Permit
20. Except for flares equipped with a flow-sensing ignition system, a heat sensing device such as a thermocouple, ultraviolet beam sensor, infrared sensor, or an equivalent device, capable of continuously detecting at least one pilot flame or the flare flame is present shall be installed and operated. [District Rule 4311, 40 CFR 60.18(f)(2), and 40 CFR 64] Federally Enforceable Through Title V Permit
21. Flares that use flow-sensing automatic ignition systems and which do not use a continuous flame pilot shall use purge gas, as defined by Rule 4311, for purging. [District Rule 4311] Federally Enforceable Through Title V Permit
22. Open flares in which the flare gas pressure is less than 5 psig shall be operated in such a manner that meets the provisions of 40 CFR 60.18. [District Rule 4311 and 40 CFR 64] Federally Enforceable Through Title V Permit
23. The flare shall be operated according to the manufacturer's specifications, a copy of which shall be maintained on site. [40 CFR 60.18(d) and 40 CFR 64] Federally Enforceable Through Title V Permit

24. A non-assisted flare shall have a diameter of 3 inches or greater, have a minimum hydrogen content of 8.0% by volume, and be designed for and operated with an exit velocity less than 122 ft/sec and less than the velocity V_{max} , as determined by the equation specified in paragraph 40 CFR 60.18 (c)(3)(i)(A). [40 CFR 60.18 (c)(3)(i)(a) and 40 CFR 64] Federally Enforceable Through Title V Permit
25. The actual exit velocity of a flare shall be determined by dividing the volumetric flowrate (in units of standard temperature and pressure), as determined by Reference Methods 2, 2A, 2C, or 2D as appropriate; by the unobstructed (free) cross sectional area of the flare tip. [40 CFR 60.18 (f)(4) and 40 CFR 64] Federally Enforceable Through Title V Permit
26. Air-assisted or steam-assisted flares shall only be used when the net heating value of the gas being combusted is 300 Btu/scf or greater. Non-assisted flares shall only be used when the net heating value of the gas being combusted is 200 Btu/scf or greater. [40 CFR 60.18 (c)(3)(ii) and 40 CFR 64] Federally Enforceable Through Title V Permit
27. Steam-assisted and non-assisted flares shall be operated with an exit velocity less than 60 ft/sec, except as provided in 40 CFR 60.18 (c)(4)(ii) and (iii). [40 CFR 60.18 (c)(4)(i) and 40 CFR 64] Federally Enforceable Through Title V Permit
28. Steam-assisted and non-assisted flares may be operated with an exit velocity equal to or greater than 60 ft/sec, but less than 400 ft/sec, if the net heating value of the gas being combusted is greater than 1,000 Btu/scf. [40 CFR 60.18 (c)(4)(ii) and 40 CFR 64] Federally Enforceable Through Title V Permit
29. Steam-assisted and non-assisted flares may be operated with an exit velocity less than the velocity V_{max} , as determined by the methods specified in 40 CFR 60.18 (f)(5), and less than 400 ft/sec. [40 CFR 60.18 (c)(4)(iii) and 40 CFR 64] Federally Enforceable Through Title V Permit
30. Air-assisted flares shall be operated with an exit velocity less than the velocity V_{max} as determined by the methods specified in 40 CFR 60.18 (f)(6). [40 CFR 60.18 (c)(5) and 40 CFR 64] Federally Enforceable Through Title V Permit
31. The net heating value of the gas being combusted the flare shall be calculated pursuant to 40 CFR 60.18(f)(3) or by using EPA Method 18, ASTM D1946, and ASTM D2382 if published values are not available or cannot be calculated. [40 CFR 60.18 (f)(3)] Federally Enforceable Through Title V Permit
32. The permittee shall maintain, and make available for District inspection, all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 4311 and 40 CFR 64] Federally Enforceable Through Title V Permit
33. The permittee shall visually inspect the flare's emergency bypass valve to ensure the valve is maintained in the closed position. [40 CFR 64] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

ISSUANCE DATE: DRAFT

PERMIT NO: S-548-33-3

LEGAL OWNER OR OPERATOR: TULARE CITY WASTEWATER PLANT

MAILING ADDRESS: 1875 S WEST ST
TULARE, CA 93274

LOCATION: 1875 S WEST ST
TULARE, CA 93274

EQUIPMENT DESCRIPTION:

MODIFICATION OF THREE ANAEROBIC DIGESTERS SERVED BY A DIGESTER GAS H₂S REMOVAL SYSTEM AND A FLARE INDUSTRIES MODEL 566 12.4 MMBTU/HR GROUND LEVEL ENCLOSED FLARE OR EQUIVALENT: COMPLY WITH DISTRICT RULE 4311 REQUIREMENTS BY ADD ACTUAL ANNUAL FUEL USE REQUIREMENT

CONDITIONS

1. {1829} The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Volume of biogas combusted in flare shall not exceed 497,000 cubic feet per day and 98,250,000 scf/yr. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
4. Daily emissions of air contaminants shall not exceed the following limits: 6.0 lb PM₁₀/day, 12.2 lb SO_x (as SO₂)/day, 17.9 lb NO_x (as NO₂)/day, 89.5 lb CO/day, or 0.8 lb VOC/day. [District Rule 2201 and 4311] Federally Enforceable Through Title V Permit
5. Fuel used shall not exceed 298.2 MMBtu/day or 58,920 MMBtu/yr. [District Rule 2201] Federally Enforceable Through Title V Permit
6. On and after January 1, 2024, permittee shall limit flaring annual throughput to levels not to exceed 100,000 MMBtu for two consecutive calendar years. [District Rule 4311] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (661) 392-5500 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Samir Sheikh, Executive Director / APCO

Brian Clements, Director of Permit Services

S-548-33-3 : Jan 25 2023 9:40AM -- KLEVANND : Joint Inspection NOT Required

Southern Regional Office • 34946 Flyover Court • Bakersfield, CA 93308 • (661) 392-5500 • Fax (661) 392-5585

7. If the flare exceeds the annual throughput threshold of 100, 000 MMBtu/yr for two consecutive calendar years, the operator shall notify the APCO in writing of the exceedance within 30 days following the end of the second calendar year. By April 15 of the year after the end of the second consecutive calendar year in which an exceedance of the annual throughput threshold in Table 2 occurred, the applicant shall submit an ATC application to modify or replace the flare to meet Table 3 emission limits. [District Rule 4311] Federally Enforceable Through Title V Permit
8. Effective on and after January 1, 2024, the operator shall monitor the vent gas flow to the flare with a flow-measuring device or other parameters as specified in this permit. The operator shall determine the heating value (Btu per cubic foot) of the vent gas annually in accordance with Section 6.3.6. The operator shall maintain records pursuant to Section 6.1.7. Flares that the operator can verify, based on permit conditions, are not capable of exceeding the annual throughput thresholds in Table 2 shall not be required to monitor vent gas flow to the flare. [District Rule 4311] Federally Enforceable Through Title V Permit
9. Compliance with SOx emission limit shall be demonstrated by sampling biogas sulfur content and calculating the resulting daily SOx emissions at least once every two years. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
11. 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
12. The following test methods shall be used: fuel gas sulfur content - ASTM D3246 or double GC for H2S and mercaptans. [District Rule 1081] Federally Enforceable Through Title V Permit
13. Permittee shall maintain records of the volume of biogas combusted in the flare each day. Records shall be maintained for 5 years and be made readily available for District inspection upon request. [District Rule 2201 and District Rule 4311] Federally Enforceable Through Title V Permit
14. The flame shall be present at all times when combustible gases are vented through the flare. [District Rule 4311] Federally Enforceable Through Title V Permit
15. The outlet shall be equipped with an automatic ignition system, or, shall operate with a pilot flame present at all times when combustible gases are vented through the flare, except during purge periods for automatic-ignition equipped flares. [District Rule 4311] Federally Enforceable Through Title V Permit
16. Except for flares equipped with a flow-sensing ignition system, a heat sensing device such as a thermocouple, ultraviolet beam sensor, infrared sensor, or an equivalent device, capable of continuously detecting at least one pilot flame or the flare flame is present shall be installed and operated. [District Rule 4311] Federally Enforceable Through Title V Permit
17. Flares that use flow-sensing automatic ignition systems and which do not use a continuous flame pilot shall use purge gas, as defined by Rule 4311, for purging. [District Rule 4311] Federally Enforceable Through Title V Permit
18. The flare shall be tested for compliance with the VOC and NOx emissions limits at least once every 12 months. [District Rule 4311] Federally Enforceable Through Title V Permit
19. VOC, measured and calculated as carbon, shall be determined by EPA Method 25, except when the outlet concentration must be below 50 ppm in order to meet the standard, in which case Method 25a may be used, and analysis of halogenated exempt compounds shall be analyzed by EPA Method 18 or ARB Method 422. NOx emissions in pounds per million BTU shall be determined by using EPA Method 19. [District Rule 4311] Federally Enforceable Through Title V Permit
20. The permittee shall maintain, and make available for District inspection, all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 4311] Federally Enforceable Through Title V Permit

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ATTACHMENT E

Stringency Comparison of District Rule 4623 Non-SIP Version
(6/15/23) to Current SIP Version (5/19/05)

Stringency Comparison of District Rule 4623 Non-SIP Version (5/19/05) to Current SIP Version (6/15/23) to Current SIP Version (5/19/05)

Requirement Category	SIP Version of Rule 4623 (5/19/05)	Non-SIP Version of Rule 4623 (6/15/23)	Conclusion
2.0 Applicability	This rule applies to any tank with a capacity of 1,100 gallons or greater in which any organic liquid is placed, held, or stored.	This rule applies to any tank with a capacity of 1,100 gallons or greater in which any organic liquid is placed, held, or stored, and any tank used in crude oil or natural gas production operations with a potential to emit six (6) tons of VOC or greater per year.	Tanks with a VOC potential to emit ≥ 6 tons/yr are now applicable to the non-SIP version. Therefore, the non-SIP version is more stringent than the SIP version.
4.0 Exemptions	4.1 The provisions of this rule shall not apply to: 4.1.1 Pressure vessels. 4.1.2 Gasoline storage tanks with a capacity of less than 19,800 gallons that are subject to the requirements of Rule 4621 (Gasoline Transfer Into Stationary Storage Containers, Delivery Vessels, and Bulk Plants). 4.1.3 Tanks that are used for storage/processing of clean produced water, or other water that meets the VOC standard specified in the definition of "clean produced water" in Rule 1020 (Definitions). 4.1.4 Tanks used in wine fermentation and for storage of resulting products, by-products, and spirits. 4.2 Except for complying with Sections 6.3.2, 6.3.3, and 7.2, the requirements of this rule shall not apply to: 4.2.1 Emergency standby tanks, in existence prior to May 1, 1979, which exclusively store petroleum distillates or crude oil. Prior to return to Emergency Standby status, the contents of each tank shall be drained to the maximum extent feasible. After a tank has been used (filled or partially filled) and draining of the tank has begun, any further filling of the tank shall constitute a separate use of the tank, and the number of days the tank is used shall be counted towards the 60 cumulative days limit specified in the definition of an emergency standby tank in Section 3.8. Fixed roof emergency standby tanks shall be equipped with a pressure-vacuum relief valve that meets the requirements of Section 5.2. 4.2.2 Temporary tanks, with capacities of 21,000 gallons (500 barrels) or less, left on site for six months or less. 4.3 Except for complying with Sections 6.3.4 and 7.2, a small producer's tank with a throughput of 50 barrels of crude oil per day or less is exempt from the requirements of this rule. All other small producer tanks that do not qualify for exemption under Section 4.4 shall comply with all the requirements of this rule.	4.1 The provisions of this rule shall not apply to: 4.1.1 Pressure vessels. 4.1.2 Gasoline storage tanks with a capacity of less than 19,800 gallons that are subject to the requirements of Rule 4621 (Gasoline Transfer Into Stationary Storage Containers, Delivery Vessels, and Bulk Plants). 4.1.3 Tanks that are used for storage/processing of clean produced water, or other water that meets the VOC standard specified in the definition of "clean produced water" in Rule 1020 (Definitions) unless the tank has a potential to emit six (6) tons of VOC emissions or greater per year and is used in crude oil and natural gas production operations. 4.1.4 Tanks used in wine fermentation and for storage of resulting products, by-products, and spirits. 4.2 Except for complying with Sections 6.3.2, 6.3.3, and 7.1, the requirements of this rule shall not apply to: 4.2.1 Emergency standby tanks, in existence prior to May 1, 1979, which exclusively store petroleum distillates or crude oil. Prior to return to Emergency Standby status, the contents of each tank shall be drained to the maximum extent feasible. After a tank has been used (filled or partially filled) and draining of the tank has begun, any further filling of the tank shall constitute a separate use of the tank, and the number of days the tank is used shall be counted towards the 60 cumulative days limit specified in the definition of an emergency standby tank in Section 3.11. Fixed roof emergency standby tanks shall be equipped with a pressure-vacuum relief valve that meets the requirements of Section 5.2. 4.2.2 Temporary tanks, with capacities of 21,000 gallons (500 barrels) or less, left on site for six months or less. 4.3 Except for complying with Sections 6.3.4 and 7.1, a small producer's tank with a throughput of 50 barrels of crude oil per day or less is exempt from the requirements of this rule. All other	The non-SIP version does not exempt clean produced water storage/processing tanks if such tank has a potential to emit ≥ 6 tons/yr. Also, the non-SIP version has a lower TVP level for tank permit exemption. Therefore, the non-SIP version is more stringent than the SIP version.

Requirement Category	SIP Version of Rule 4623 (5/19/05)	Non-SIP Version of Rule 4623 (6/15/23)	Conclusion
	4.4 Tanks exclusively receiving and/or storing an organic liquid with a TVP less than 0.5 psia are exempt from all other requirements of the rule except for complying with the following provisions: 4.4.1 TVP and API Gravity Testing provisions pursuant to Section 6.2, 4.4.2 Recordkeeping provisions pursuant to Section 6.3.6, 4.4.3 Test Methods provisions pursuant to Section 6.4, and 4.4.4 Compliance schedules pursuant to Section 7.2. The requirements of Section 4.4 shall not apply to tanks that are exempt pursuant to Sections 4.1 through 4.3.	small producer tanks that do not qualify for exemption under Section 4.4 shall comply with all the requirements of this rule. 4.4 Until June 30, 2024, tanks exclusively receiving and/or storing an organic liquid with a TVP less than 0.5 psia are exempt from all other requirements of the rule except for complying with the following provisions: After June 30, 2024, tanks exclusively receiving and/or storing an organic liquid with a TVP less than 0.1 psia are exempt from all other requirements of the rule except for complying with the following provisions: 4.4.1 TVP and API Gravity Testing provisions pursuant to Section 6.2, 4.4.2 Recordkeeping provisions pursuant to Section 6.3.6, 4.4.3 Test Methods provisions pursuant to Section 6.4, and 4.4.4 Compliance schedules pursuant to Section 7.0. 4.4.5 After June 30, 2024, operators shall follow the storage tank degassing and interior cleaning requirements pursuant to Section 5.7.5 for notification, recordkeeping, tank degassing, tank cleaning, and sludge removal. The requirements of Section 4.4 shall not apply to tanks that are exempt pursuant to Sections 4.1 through 4.3.	
5.0 Requirements	5.1 VOC Control System Requirements 5.1.1 General VOC Control System Requirement Except for small producers who are required to comply with the VOC control system requirements in Section 5.1.2, an operator shall not place, hold, or store organic liquid in any tank unless such tank is equipped with a VOC control system identified in Table 1. The specifications for the VOC control system are described in Sections 5.2, 5.3, 5.4, 5.5, and 5.6.	5.1 VOC Control System Requirements 5.1.1 General VOC Control System Requirement Except for small producers who are required to comply with the VOC control system requirements in Section 5.1.2, an operator shall not place, hold, or store organic liquid in any tank unless such tank is equipped with a VOC control system identified in Table 3 or Table 4. The specifications for the VOC control system are described in Sections 5.2, 5.3, 5.4, 5.5, and 5.6.	More requirements have been added to Non-SIP version (i.e. sections 5.1.1.1 and 5.1.2.1). Therefore, the non-SIP version is more stringent than the SIP version.

Table 1 – General VOC Control System Requirements

Tank Capacity (Gallons)	TVP of Organic Liquid	
	0.5psia to 1.5psia	1.5psia to < 11.0 psia
(Group A) 1,100 to 19,800	Pressure-vacuum relief valve, or internal floating roof, or external floating roof.	Pressure-vacuum relief valve, or internal floating roof, or external floating roof.

Table 3 – General VOC Control System Requirements until June 30, 2024

Tank Capacity (Gallons)	TVP of Organic Liquid	
	0.5psia to 1.5psia	1.5psia to < 11.0 psia
(Group A) 1,100 to 19,800	Pressure-vacuum relief valve, or internal floating roof, or external floating roof.	Pressure-vacuum relief valve, or internal floating roof, or external floating roof.

Requirement Category	SIP Version of Rule 4623 (5/19/05)				Non-SIP Version of Rule 4623 (6/15/23)				Conclusion
		or vapor recovery system	or vapor recovery system		floating roof, or vapor recovery system	floating roof, or vapor recovery system	floating roof, or vapor recovery system		
	(Group B) > 19,800 to 39,600	Pressure-vacuum relief valve, or internal floating roof, or external floating roof, or vapor recovery system	Internal floating roof, or external floating roof, or vapor recovery system	Pressure vessel or vapor recovery system	Pressure-vacuum relief valve, or internal floating roof, or external floating roof, or vapor recovery system	Internal floating roof, or external floating roof, or vapor recovery system	Internal floating roof, or external floating roof, or vapor recovery system	Pressure vessel or vapor recovery system	
	(Group C) > 39,600	Internal floating roof, or external floating roof, or vapor recovery system	Internal floating roof, or external floating roof, or vapor recovery system	Pressure vessel or vapor recovery system	Internal floating roof, or external floating roof, or vapor recovery system	Internal floating roof, or external floating roof, or vapor recovery system	Internal floating roof, or external floating roof, or vapor recovery system	Pressure vessel or vapor recovery system	
Table 4 – General VOC Control System Requirements after June 30, 2024									
	Tank Capacity (Gallons)	TVP of Organic Liquid			0.1psia to < 0.5psia	0.5psia to < 1.5psia	1.5 psia to <11 psia	≥11.0 psia	
	(Group A) 1,100 to 19,800	Pressure -vacuum relief valve, or internal floating roof, or external floating roof, or vapor recovery system	Pressure -vacuum relief valve, or internal floating roof, or external floating roof, or vapor recovery system	Pressure -vacuum relief valve, or internal floating roof, or external floating roof, or vapor recovery system	Pressure -vacuum relief valve, or internal floating roof, or external floating roof, or vapor recovery system	Pressure -vacuum relief valve, or internal floating roof, or external floating roof, or vapor recovery system	Pressure -vacuum relief valve, or internal floating roof, or external floating roof, or vapor recovery system	Pressure vessel or vapor recovery system	
	(Group B) > 19,800 to 39,600	Pressure -vacuum relief valve, or internal floating roof, or external floating roof, or vapor recovery system	Pressure -vacuum relief valve, or internal floating roof, or external floating roof, or vapor recovery system	Pressure -vacuum relief valve, or internal floating roof, or external floating roof, or vapor recovery system	Pressure -vacuum relief valve, or internal floating roof, or external floating roof, or vapor recovery system	Pressure -vacuum relief valve, or internal floating roof, or external floating roof, or vapor recovery system	Pressure -vacuum relief valve, or internal floating roof, or external floating roof, or vapor recovery system	Pressure vessel or vapor recovery system	

5.1.2 Small Producer VOC Control System Requirements

A small producer shall not place, hold, or store crude oil in any tank unless such tank is equipped with a VOC control system identified in Table 2. For storage of any organic liquid except crude oil, a small producer shall comply with the requirements of Section 5.1.1. The specifications for the VOC control system are described in Sections 5.2, 5.3, 5.4, 5.5, and 5.6.

Table 2 – Small Producer VOC Control System Requirements for Crude Oil Storage Tanks			
Tank Capacity (Gallons)	TVP of Organic Liquid		
	0.5psia to < 1.5psia and a tank throughput of >50 to <150 barrels of crude oil per day	1.5psia to < 11psia and a tank throughput of ≥150 barrels of crude oil through put	≥11psia and regardless of crude oil tank throughput
(Group A) 1,100 to 19,800	Pressure-vacuum relief valve, or internal floating roof, or external	Pressure-vacuum relief valve, or internal floating roof, or external	Pressure vessel or vapor recovery system

Requirement Category	SIP Version of Rule 4623 (5/19/05)	Non-SIP Version of Rule 4623 (6/15/23)	Conclusion																
	<table><tr><td></td><td>floating roof, or vapor recovery system</td><td>floating roof, or vapor recovery system</td></tr><tr><td>(Group B) > 19,800 to 39,600</td><td>Pressure-vacuum relief valve, or internal floating roof, or external floating roof, or vapor recovery system</td><td>Internal floating roof, or external floating roof, or vapor recovery system</td></tr></table> 5.1.3 All tanks subject to the control requirements of this rule shall be maintained in a leak-free condition, except for the following components and as allowed by Section 5.2 and applicable provisions of Table 3 through Table 5, and Section 5.7.5.4: 5.1.3.1 Primary seals and secondary seals of external floating roof tanks that are in compliance with the applicable requirements specified in Sections 5.3.2.1, 5.3.2.2, and 5.3.2.3. 5.1.3.2 Primary seals and secondary seals of internal floating roof tanks that are in compliance with the applicable requirements specified in Section 5.4.1. 5.1.3.3 Floating roof deck fittings that are in compliance with the applicable requirements specified in Sections 5.5.2.1.5, 5.5.2.2.5, 5.5.2.3.3, 5.5.2.4.2, and 5.5.2.4.3. 5.1.3.4 Floating roof automatic bleeder vents that are in compliance with requirements specified in Sections 5.5.2.1.3 and 5.5.2.2.3 during product change provided product change is accomplished as expeditiously as practicable.		floating roof, or vapor recovery system	floating roof, or vapor recovery system	(Group B) > 19,800 to 39,600	Pressure-vacuum relief valve, or internal floating roof, or external floating roof, or vapor recovery system	Internal floating roof, or external floating roof, or vapor recovery system	<table><tr><td></td><td>floating roof, or external floating roof, or vapor recovery system</td><td>floating roof, or vapor recovery system</td><td>roof, or vapor recovery system</td><td>recovery system</td></tr><tr><td>(Group C) > 39,600</td><td>Pressure relief valve, or internal floating roof, or external floating roof, or vapor recovery system</td><td>Internal floating roof, or external floating roof, or vapor recovery system</td><td>Internal floating roof, or external floating roof, or vapor recovery system</td><td>Pressure vessel or vapor recovery system</td></tr></table> 5.1.1.1 If a tank has the Potential to Emit greater than or equal to six (6) tons per year of VOC and actual emissions are greater than or equal to four (4) tons per year using a generally accepted model or calculation methodology, operator must install a vapor control system meeting the specifications described in Sections 5.3, 5.4, 5.5 or 5.6. 5.1.2 Small Producer VOC Control System Requirements A small producer shall not place, hold, or store crude oil in any tank unless such tank is equipped with a VOC control system identified in Table 5 or Table 6. For storage of any organic liquid except crude oil, a small producer shall comply with the requirements of Section 5.1.1. The specifications for the VOC control system are described in Sections 5.2, 5.3, 5.4, 5.5, and 5.6.		floating roof, or external floating roof, or vapor recovery system	floating roof, or vapor recovery system	roof, or vapor recovery system	recovery system	(Group C) > 39,600	Pressure relief valve, or internal floating roof, or external floating roof, or vapor recovery system	Internal floating roof, or external floating roof, or vapor recovery system	Internal floating roof, or external floating roof, or vapor recovery system	Pressure vessel or vapor recovery system	
	floating roof, or vapor recovery system	floating roof, or vapor recovery system																	
(Group B) > 19,800 to 39,600	Pressure-vacuum relief valve, or internal floating roof, or external floating roof, or vapor recovery system	Internal floating roof, or external floating roof, or vapor recovery system																	
	floating roof, or external floating roof, or vapor recovery system	floating roof, or vapor recovery system	roof, or vapor recovery system	recovery system															
(Group C) > 39,600	Pressure relief valve, or internal floating roof, or external floating roof, or vapor recovery system	Internal floating roof, or external floating roof, or vapor recovery system	Internal floating roof, or external floating roof, or vapor recovery system	Pressure vessel or vapor recovery system															

Table 5 – Small Producer VOC Control System Requirements for Crude Oil Storage Tanks until June 30, 2024		
Tank Capacity (Gallons)	TVP of Organic Liquid	
	0.5psia to < 1.5psia and a tank	1.5psia to < 11psia and a tank
		≥11psia and regardless

Requirement Category	SIP Version of Rule 4623 (5/19/05)	Non-SIP Version of Rule 4623 (6/15/23)	Conclusion																			
		<table> <tr> <td data-bbox="256 919 383 1050"></td><td data-bbox="256 768 383 919">throughput of >50 to <150 barrels of crude oil per day</td><td data-bbox="256 617 383 768">throughput ≥150 barrels of crude oil per day</td><td data-bbox="256 495 383 617">ss of crude oil tank through put</td></tr> <tr> <td data-bbox="383 919 630 1050">(Group A) 1,100 to 19,800</td><td data-bbox="383 768 630 919">Pressure-vacuum relief valve, or internal floating roof, or external floating roof, or vapor recovery system</td><td data-bbox="383 617 630 768">Pressure-vacuum relief valve, or internal floating roof, or external floating roof, or vapor recovery system</td><td data-bbox="383 495 630 617">Pressur e vessel or vapor recovery system</td></tr> <tr> <td data-bbox="630 919 875 1050">(Group B) > 19,800 to 39,600</td><td data-bbox="630 768 875 919">Pressure-vacuum relief valve, or internal floating roof, or external floating roof, or vapor recovery system</td><td data-bbox="630 617 875 768">Internal floating roof, or external floating roof, or vapor recovery system</td><td data-bbox="630 495 875 617">Pressur e vessel or vapor recovery system</td></tr> </table>		throughput of >50 to <150 barrels of crude oil per day	throughput ≥150 barrels of crude oil per day	ss of crude oil tank through put	(Group A) 1,100 to 19,800	Pressure-vacuum relief valve, or internal floating roof, or external floating roof, or vapor recovery system	Pressure-vacuum relief valve, or internal floating roof, or external floating roof, or vapor recovery system	Pressur e vessel or vapor recovery system	(Group B) > 19,800 to 39,600	Pressure-vacuum relief valve, or internal floating roof, or external floating roof, or vapor recovery system	Internal floating roof, or external floating roof, or vapor recovery system	Pressur e vessel or vapor recovery system								
	throughput of >50 to <150 barrels of crude oil per day	throughput ≥150 barrels of crude oil per day	ss of crude oil tank through put																			
(Group A) 1,100 to 19,800	Pressure-vacuum relief valve, or internal floating roof, or external floating roof, or vapor recovery system	Pressure-vacuum relief valve, or internal floating roof, or external floating roof, or vapor recovery system	Pressur e vessel or vapor recovery system																			
(Group B) > 19,800 to 39,600	Pressure-vacuum relief valve, or internal floating roof, or external floating roof, or vapor recovery system	Internal floating roof, or external floating roof, or vapor recovery system	Pressur e vessel or vapor recovery system																			
		<table> <tr> <th colspan="4" data-bbox="899 495 974 1050">Table 6 – Small Producer VOC Control System Requirements for Crude Oil Storage Tanks after June 30, 2024</th></tr> <tr> <th data-bbox="974 919 1318 1050" rowspan="2">Tank Capacity (Gallons)</th><th colspan="3" data-bbox="974 768 1318 919">TVP of Organic Liquid</th></tr> <tr> <th data-bbox="974 617 1117 768">0.1psia to < 11psia and a tank through put of >50 to <150 barrels of crude oil per day</th><th data-bbox="1117 617 1260 768">0.1psia to < 0.5psia and a tank through put ≥150 barrels of crude oil per day</th><th data-bbox="1260 617 1318 768">0.5psia to <11psia and a tank through put ≥150 barrels of crude oil per day</th></tr> <tr> <td data-bbox="974 495 1318 617">Tank Capacity (Gallons)</td><td data-bbox="974 495 1117 617"></td><td data-bbox="1117 495 1260 617"></td><td data-bbox="1260 495 1318 617">≥11psia and regardl ess of crude oil tank through put</td></tr> <tr> <td data-bbox="1318 919 1421 1050">(Group A) 1,100 to 19,800</td><td data-bbox="1318 768 1421 919">Pressure-vacuum relief</td><td data-bbox="1318 617 1421 768">Pressure-vacuum relief</td><td data-bbox="1318 495 1421 617">Pressur e vessel or vapor recover</td></tr> </table>	Table 6 – Small Producer VOC Control System Requirements for Crude Oil Storage Tanks after June 30, 2024				Tank Capacity (Gallons)	TVP of Organic Liquid			0.1psia to < 11psia and a tank through put of >50 to <150 barrels of crude oil per day	0.1psia to < 0.5psia and a tank through put ≥150 barrels of crude oil per day	0.5psia to <11psia and a tank through put ≥150 barrels of crude oil per day	Tank Capacity (Gallons)			≥11psia and regardl ess of crude oil tank through put	(Group A) 1,100 to 19,800	Pressure-vacuum relief	Pressure-vacuum relief	Pressur e vessel or vapor recover	
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Requirement Category	SIP Version of Rule 4623 (5/19/05)	Non-SIP Version of Rule 4623 (6/15/23)	Conclusion								
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	5.2 Specifications for Pressure-Vacuum Relief Valve The pressure-vacuum relief valve shall be set to within ten (10) percent of the maximum allowable working pressure of the tank. The pressure-vacuum relief valve shall be permanently labeled with the operating pressure settings. The pressure-vacuum relief valve shall be properly installed and maintained in good operating order in accordance with the manufacturer's instructions, and shall remain in leak-free condition except when the operating pressure exceeds the valve set pressure. 5.3 Specifications for External Floating Roof Tanks 5.3.1 An external floating roof tank shall be: 5.3.1.1 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 5.3.1.2 Equipped with a closure device between the tank shell and roof edge consisting of two seals, one above the other; the one below shall be referred to as the primary seal, and the one above shall be referred to as the secondary seal. 5.3.1.3 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 operator intends to land the roof on its legs, an operator shall notify the APCO in writing at least five three calendar days prior to performing the work. The tank must be in compliance with this rule before the operator may land the roof on its legs. The required information to be included in the	5.1.3.2 Primary seals and secondary seals of internal floating roof tanks that are in compliance with the applicable requirements specified in Section 5.4.1. 5.1.3.3 Floating roof deck fittings that are in compliance with the applicable requirements specified in Sections 5.5.2.1.5, 5.5.2.2.5, 5.5.2.3.3, 5.5.2.4.2, and 5.5.2.4.3. 5.1.3.4 Floating roof automatic bleeder vents that are in compliance with requirements specified in Sections 5.5.2.1.3 and 5.5.2.2.3 during product change provided product change is accomplished as expeditiously as practicable. 5.2 Specifications for Pressure-Vacuum Relief Valve The pressure-vacuum relief valve shall be set to within ten (10) percent of the maximum allowable working pressure of the tank. The pressure-vacuum relief valve shall be permanently labeled with the operating pressure settings. The pressure-vacuum relief valve shall be properly installed and maintained in good operating order in accordance with the manufacturer's instructions, and shall remain in a leak-free condition except when the operating pressure exceeds the valve set pressure. 5.3 Specifications for External Floating Roof Tanks 5.3.1 An external floating roof tank shall be: 5.3.1.1 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 5.3.1.2 Equipped with a closure device between the tank shell and roof edge consisting of two seals, one above the other; the one below shall be referred to as the primary seal, and the one above shall be referred to as the secondary seal. 5.3.1.3 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 operator intends to land the roof on its legs, an operator shall notify the APCO in writing at least five three calendar days prior to performing the work. The tank must be in compliance with this rule before the operator may land the roof on its legs. The required information to be included in the written notification as	
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	written notification as well as the recordkeeping requirements is specified in Section 6.3.7. 5.3.2 Seal designs shall be submitted to the APCO and shall not be installed or used unless they are approved by the APCO as meeting the criteria set forth in Sections 5.3.2.1 through 5.3.2.3 as applicable. Seal designs other than set forth in Sections 5.3.2.1 through 5.3.2.3 may be approved provided that a notice allowing the use of such design has been published in the Federal Register pursuant to CFR 40 Part 60: Subpart Kb paragraph 60.114b. 5.3.2.1 Welded Tanks with Primary Metallic-Shoe Type Seal 5.3.2.1.1 No gap between the tank shell and the primary seal shall exceed one and one-half (1-1/2) inches. The cumulative length of all gaps between the tank shell and the primary seal greater than one-half (1/2) inch shall not exceed ten (10) percent of the circumference of the tank. The cumulative length of all primary seal gaps greater than one-eighth (1/8) inch shall not exceed 30 percent of the tank circumference. No continuous gap greater than one-eighth (1/8) inch shall exceed ten (10) percent of the tank circumference. 5.3.2.1.2 No gap between the tank shell and the secondary seal shall exceed one-half (1/2) inch. The cumulative length of all gaps between the tank shell and the secondary seal, greater than one-eighth (1/8) inch shall not exceed five (5) percent of the tank circumference. 5.3.2.1.3 Metallic-shoe-type seals 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. 5.3.2.1.4 The geometry of the metallic-shoe type seal shall be such that the maximum gap between the shoe and the tank shell is no greater than double the gap allowed by the seal gap criteria specified in Section 5.3.2.1.1 for a length of at least 18 inches in the vertical plane above the liquid surface. 5.3.2.1.5 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. 5.3.2.1.6 The secondary seal shall allow easy insertion of probes up to one and one-half (1-1/2) inches in width in order to measure gaps in the primary seal.	well as the recordkeeping requirements is specified in Section 6.3.7. 5.3.2 Seal designs shall be submitted to the APCO and shall not be installed or used unless they are approved by the APCO as meeting the criteria set forth in Sections 5.3.2.1 through 5.3.2.3 as applicable. Seal designs other than set forth in Sections 5.3.2.1 through 5.3.2.3 may be approved provided that a notice allowing the use of such design has been published in the Federal Register pursuant to CFR 40 Part 60: Subpart Kb paragraph 60.114b. 5.3.2.1 Welded Tanks with Primary Metallic-Shoe Type Seal 5.3.2.1.1 No gap between the tank shell and the primary seal shall exceed one and one-half (1-1/2) inches. The cumulative length of all gaps between the tank shell and the primary seal greater than one-half (1/2) inch shall not exceed ten (10) percent of the circumference of the tank. The cumulative length of all primary seal gaps greater than one-eighth (1/8) inch shall not exceed 30 percent of the tank circumference. No continuous gap greater than one-eighth (1/8) inch shall exceed ten (10) percent of the tank circumference. 5.3.2.1.2 No gap between the tank shell and the secondary seal shall exceed one-half (1/2) inch. The cumulative length of all gaps between the tank shell and the secondary seal, greater than one-eighth (1/8) inch shall not exceed five (5) percent of the tank circumference. 5.3.2.1.3 Metallic-shoe-type seals 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. 5.3.2.1.4 The geometry of the metallic-shoe type seal shall be such that the maximum gap between the shoe and the tank shell is no greater than double the gap allowed by the seal gap criteria specified in Section 5.3.2.1.1 for a length of at least 18 inches in the vertical plane above the liquid surface. 5.3.2.1.5 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. 5.3.2.1.6 The secondary seal shall allow easy insertion of probes up to one and one-half (1-1/2) inches in	

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	5.3.2.1.7 The secondary seal shall extend from the roof to the tank shell and shall not be attached to the primary seal. 5.3.2.2 Riveted Tank with Primary Metallic-Shoe Type Seal 5.3.2.2.1 No gap between the tank shell and the primary seal shall exceed two and one-half (2-1/2) inches. The cumulative length of all primary seal gaps greater than one and one-half (1-1/2) inches shall be not exceed ten (10) percent of the circumference of the tank. The cumulative length of all gaps between the tank shell and the primary seal greater than one-eighth (1/8) inch shall not exceed 30 percent of the circumference of the tank. No continuous gap greater than one-eighth (1/8) inch shall exceed ten (10) percent of the tank circumference. 5.3.2.2.2 No gap between the tank shell and the secondary seal shall exceed one-half (1/2) inch. The cumulative length of all gaps between the tank shell and the secondary seal greater than one-eighth (1/8) inch shall not exceed five (5) percent of the tank circumference. 5.3.2.2.3 Metallic shoe-type seals 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. The geometry of the metallic-shoe type seal shall be such that the maximum gap between the shoe and the tank shell is no greater than double the gap allowed by the seal gap criteria specified in Section 5.3.2.2.1 for a length of at least 18 inches in the vertical plane 5.3.2.2.4 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. 5.3.2.2.5 The secondary seal shall allow easy insertion of probes up to two and one-half (2-1/2) inches in width in order to measure gaps in the primary seal. 5.3.2.2.6 The secondary seal shall extend from the roof to the tank shell and shall not be attached to the primary seal. 5.3.2.3 Tanks with Primary Resilient Toroid Seal: 5.3.2.3.1 The primary resilient toroid seal shall be mounted on the perimeter of the roof such that it is in contact with	width in order to measure gaps in the primary seal. 5.3.2.1.7 The secondary seal shall extend from the roof to the tank shell and shall not be attached to the primary seal. 5.3.2.2 Riveted Tank with Primary Metallic-Shoe Type Seal 5.3.2.2.1 No gap between the tank shell and the primary seal shall exceed two and one-half (2-1/2) inches. The cumulative length of all primary seal gaps greater than one and one-half (1-1/2) inches shall be not exceed ten (10) percent of the circumference of the tank. The cumulative length of all gaps between the tank shell and the primary seal greater than one-eighth (1/8) inch shall not exceed 30 percent of the circumference of the tank. No continuous gap greater than one-eighth (1/8) inch shall exceed ten (10) percent of the tank circumference. 5.3.2.2.2 No gap between the tank shell and the secondary seal shall exceed one-half (1/2) inch. The cumulative length of all gaps between the tank shell and the secondary seal greater than one-eighth (1/8) inch shall not exceed five (5) percent of the tank circumference. 5.3.2.2.3 Metallic shoe-type seals 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. The geometry of the metallic-shoe type seal shall be such that the maximum gap between the shoe and the tank shell is no greater than double the gap allowed by the seal gap criteria specified in Section 5.3.2.2.1 for a length of at least 18 inches in the vertical plane 5.3.2.2.4 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. 5.3.2.2.5 The secondary seal shall allow easy insertion of probes up to two and one-half (2-1/2) inches in width in order to measure gaps in the primary seal. 5.3.2.2.6 The secondary seal shall extend from the roof to the tank shell and shall not be attached to the primary seal.	

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	the tank's liquid contents at all times while the roof is floating. 5.3.2.3.2 No gap between the tank shell and the primary seal shall exceed one-half (1/2) inch. The cumulative length of all primary seal gaps greater than one-eighth (1/8) inch shall not exceed five (5) percent of the tank circumference. No continuous gap greater than one-eighth (1/8) inch shall exceed ten (10) percent of the tank circumference. 5.3.2.3.3 No gap between the tank shell and the secondary seal shall exceed one-half (1/2) inch. The cumulative length of all gaps between the tank shell and the secondary seal, greater than one-eighth (1/8) inch shall not exceed five (5) percent of the tank circumference. 5.3.2.3.4 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. 5.3.2.3.5 The secondary seal shall allow easy insertion of probes up to one-half (1/2) inch in width in order to measure gaps in the primary seal. 5.3.2.3.6 The secondary seal shall extend from the roof of the tank to the shell and not be attached to the primary seal. 5.3.2.4 The following seal designs have been found to be equivalent to seals meeting the criteria set forth in Sections 5.3.2.1 through 5.3.2.3: 5.3.2.4.1 When installed and maintained with zero gap: <table><tr><td>MANUFACTURER</td><td>MODEL</td></tr><tr><td>Republic Fabricators</td><td>WeatherGuard Seal</td></tr></table> 5.3.2.4.2 When installed and maintained to meet the gap criteria for primary and secondary seals set forth in Sections 5.3.2.1 through 5.3.2.3: <table><tr><td>MANUFACTURER</td><td>MODEL</td></tr><tr><td>"HMT"</td><td>Dual/Multi Blade Wiper Seals</td></tr></table>	MANUFACTURER	MODEL	Republic Fabricators	WeatherGuard Seal	MANUFACTURER	MODEL	"HMT"	Dual/Multi Blade Wiper Seals	5.3.2.3 Tanks with Primary Resilient Toroid Seal: 5.3.2.3.1 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. 5.3.2.3.2 No gap between the tank shell and the primary seal shall exceed one-half (1/2) inch. The cumulative length of all primary seal gaps greater than one-eighth (1/8) inch shall not exceed five (5) percent of the tank circumference. No continuous gap greater than one-eighth (1/8) inch shall exceed ten (10) percent of the tank circumference. 5.3.2.3.3 No gap between the tank shell and the secondary seal shall exceed one-half (1/2) inch. The cumulative length of all gaps between the tank shell and the secondary seal, greater than one-eighth (1/8) inch shall not exceed five (5) percent of the tank circumference. 5.3.2.3.4 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. 5.3.2.3.5 The secondary seal shall allow easy insertion of probes up to one-half (1/2) inch in width in order to measure gaps in the primary seal. 5.3.2.3.6 The secondary seal shall extend from the roof of the tank to the shell and not be attached to the primary seal. 5.3.2.4 The following seal designs have been found to be equivalent to seals meeting the criteria set forth in Sections 5.3.2.1 through 5.3.2.3: 5.3.2.4.1 When installed and maintained with zero gap: <table><tr><td>MANUFACTURER</td><td>MODEL</td></tr><tr><td>Republic Fabricators</td><td>WeatherGuard Seal</td></tr></table> 5.3.2.4.2 When installed and maintained to meet the gap criteria for primary and secondary seals set forth in Sections 5.3.2.1 through 5.3.2.3:	MANUFACTURER	MODEL	Republic Fabricators	WeatherGuard Seal	
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	5.4 Specifications for Internal Floating Roof Tanks 5.4.1 Internal floating roof tanks shall be equipped with seals that meet the criteria set forth in Section 5.3, except for complying with the requirement specified in Section 5.3.2.1.3. For internal floating roof, the metallic-shoe type seals 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 186 inches above the stored liquid surface. 5.4.2 The following seal designs have been found to be equivalent to seals meeting the criteria set forth in Section 5.3: 5.4.2.1 When installed and maintained with zero gap: <table><tr><td>MANUFACTURER</td><td>MODEL</td></tr><tr><td>Ultraflo</td><td>Single Ultraseal</td></tr></table> 5.4.2.2 When installed and maintained to meet the gap criteria for primary and secondary seals set forth in Sections 5.3.2.1 through 5.3.2.3: <table><tr><td>MANUFACTURER</td><td>MODEL</td></tr><tr><td>Ultraflo</td><td>Single Ultraseal</td></tr><tr><td>Altech</td><td>Double Wiper Seal</td></tr></table> 5.4.3 The operator shall comply with the floating roof landing requirements specified in Section 5.3.1.3. 5.5 Floating Roof Deck Fitting Requirements 5.5.1 All openings in the roof used for sampling or gauging, except valves complying with Section 5.2, 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 at all times be in a closed position, with no visible gaps and leak-free, except when the device or appurtenance is in use for sampling or gauging. 5.5.2 Tanks shall meet the requirements of Sections 5.1.3, 5.5.1, and Sections 5.5.2.1 through 5.5.2.4.	MANUFACTURER	MODEL	Ultraflo	Single Ultraseal	MANUFACTURER	MODEL	Ultraflo	Single Ultraseal	Altech	Double Wiper Seal	<table><tr><td>MANUFACTURER</td><td>MODEL</td></tr><tr><td>"HMT"</td><td>Dual/Multi Blade Wiper Seals</td></tr></table> 5.4 Specifications for Internal Floating Roof Tanks 5.4.1 Internal floating roof tanks shall be equipped with seals that meet the criteria set forth in Section 5.3, except for complying with the requirement specified in Section 5.3.2.1.3. For internal floating roof, the metallic-shoe type seals 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 186 inches above the stored liquid surface. 5.4.2 The following seal designs have been found to be equivalent to seals meeting the criteria set forth in Section 5.3: 5.4.2.1 When installed and maintained with zero gap: <table><tr><td>MANUFACTURER</td><td>MODEL</td></tr><tr><td>Ultraflo</td><td>Single Ultraseal</td></tr></table> 5.4.2.2 When installed and maintained to meet the gap criteria for primary and secondary seals set forth in Sections 5.3.2.1 through 5.3.2.3: <table><tr><td>MANUFACTURER</td><td>MODEL</td></tr><tr><td>Ultraflo</td><td>Single Ultraseal</td></tr><tr><td>Altech</td><td>Double Wiper Seal</td></tr></table> 5.4.3 The operator shall comply with the floating roof landing requirements specified in Section 5.3.1.3. 5.5 Floating Roof Deck Fitting Requirements 5.5.1 All openings in the roof used for sampling or gauging, except pressure-vacuum relief valves complying with Section 5.2, 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 at all times be in a closed position, with no visible gaps and leak-free, except when the device or appurtenance is in use for sampling or gauging.	MANUFACTURER	MODEL	"HMT"	Dual/Multi Blade Wiper Seals	MANUFACTURER	MODEL	Ultraflo	Single Ultraseal	MANUFACTURER	MODEL	Ultraflo	Single Ultraseal	Altech	Double Wiper Seal	No changes were made; therefore, the non-SIP version is as stringent as the SIP version. Only change made was providing consistency and clarity by updating language (i.e. pressure-vacuum relief valve). Therefore, the non-SIP version is as stringent as the SIP version.
MANUFACTURER	MODEL																										
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Altech	Double Wiper Seal																										

Requirement Category	SIP Version of Rule 4623 (5/19/05)	Non-SIP Version of Rule 4623 (6/15/23)	Conclusion
	5.5.2.1 Requirements for Internal Floating Roof Deck Fittings 5.5.2.1.1 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. 5.5.2.1.2 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 gap) 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. 5.5.2.1.3 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. 5.5.2.1.4 Rim vents shall be equipped with a gasket and shall be set to open only when the internal floating roof is not floating or set to open at the manufacturer's recommended setting. 5.5.2.1.5 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. 5.5.2.1.6 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. 5.5.2.2 Requirements for External Floating Roof Deck Fittings 5.5.2.2.1 Except for automatic bleeder vents and rim vents and relief vents, each opening in a non-contact external floating roof shall provide a projection below the liquid surface. 5.5.2.2.2 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.	5.5.2 Tanks shall meet the requirements of Sections 5.1.3, 5.5.1, and Sections 5.5.2.1 through 5.5.2.4. 5.5.2.1 Requirements for Internal Floating Roof Deck Fittings 5.5.2.1.1 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. 5.5.2.1.2 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 gap) 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. 5.5.2.1.3 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. 5.5.2.1.4 Rim vents shall be equipped with a gasket and shall be set to open only when the internal floating roof is not floating or set to open at the manufacturer's recommended setting. 5.5.2.1.5 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. 5.5.2.1.6 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. 5.5.2.2 Requirements for External Floating Roof Deck Fittings 5.5.2.2.1 Except for automatic bleeder vents and rim vents and pressure-vacuum relief valves, each opening in a non-contact external floating roof shall provide a projection below the liquid surface. 5.5.2.2.2 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,	

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	5.5.2.2.3 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. 5.5.2.2.4 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. 5.5.2.2.5 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. 5.5.2.2.6 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. 5.5.2.3 Solid Guidepole Solid sampling or gauging wells, and similar fixed projections through a floating roof such as an anti-rotational pipe, shall meet the following requirements: 5.5.2.3.1 The well shall provide a projection below the liquid surface. 5.5.2.3.2 The 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. 5.5.2.3.3 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-half (1/2) inch. 5.5.2.4 Slotted Guidepole Slotted sampling or gauging wells shall meet the following requirements: 5.5.2.4.1 The well shall provide a projection below the liquid surface. 5.5.2.4.2 The well on 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	seal, or lid that shall be maintained in a closed position at all times (i.e., no visible gap) except when in actual use. 5.5.2.2.3 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. 5.5.2.2.4 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. 5.5.2.2.5 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. 5.5.2.2.6 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. 5.5.2.3 Solid Guidepole Solid sampling or gauging wells, and similar fixed projections through a floating roof such as an anti-rotational pipe, shall meet the following requirements: 5.5.2.3.1 The well shall provide a projection below the liquid surface. 5.5.2.3.2 The 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. 5.5.2.3.3 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-half (1/2) inch. 5.5.2.4 Slotted Guidepole Slotted sampling or gauging wells shall meet the following requirements:	

Requirement Category	SIP Version of Rule 4623 (5/19/05)	Non-SIP Version of Rule 4623 (6/15/23)	Conclusion
	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. 5.5.2.4.3 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) in ch.	5.5.2.4.1 The well shall provide a projection below the liquid surface. 5.5.2.4.2 The well on 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 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. 5.5.2.4.3 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.	
	5.6 Specifications for Vapor Recovery Systems 5.6.1 Fixed roof tanks shall be fully enclosed and shall be maintained in a leak-free condition. An APCO-approved vapor recovery system shall consist of a closed system that collects all VOCs from the storage tank, and a VOC control device. The vapor recovery system shall be maintained in a leak-free condition. The VOC control device shall be one of the following: 5.6.1.1 A condensation or vapor return system that connects to one of the following: a gas processing plant, a field gas pipeline, a pipeline distributing Public Utility Commission quality gas for sale, an injection well for disposal of vapors as approved by the Department of Oil, Gas, and Geothermal Resources (DOGGR). 5.6.1.2 A VOC control device that reduces the inlet VOC emissions by at least 95 percent by weight as determined by the test method specified in Section 6.4.6. 5.6.2 Any tank gauging or sampling device on a tank vented to the vapor recovery system shall be equipped with a leak-free cover which shall be closed at all times except during gauging or sampling. 5.6.3 All piping, valves, and fittings shall be constructed and maintained in a leak-free condition.	5.6 Specifications for Vapor Recovery Systems 5.6.1 Fixed roof tanks shall be fully enclosed and shall be maintained in a leak-free condition. An APCO-approved vapor recovery system shall consist of a closed system that collects all VOCs from the storage tank, and a VOC control device. The vapor recovery system shall be maintained in a leak-free condition. The VOC control device shall be one of the following: 5.6.1.1 A condensation or vapor return system that connects to one of the following: a gas processing plant, a field gas pipeline, a pipeline distributing Public Utility Commission quality gas for sale, an injection well for disposal of vapors as approved by the California Geologic Energy Management Division (CalGEM). 5.6.1.2 A VOC control device that reduces the inlet VOC emissions by at least 95 percent by weight as determined by the test method specified in Section 6.4.6. 5.6.2 Any tank gauging or sampling device on a tank vented to the vapor recovery system shall be equipped with a leak-free cover which shall be closed at all times except during gauging or sampling. 5.6.3 All piping, valves, and fittings shall be constructed and maintained in a leak-free condition.	Only change made was updating reference to the lead agency from DOGGR to CalGEM.
	5.7 Voluntary Tank Preventive Inspection and Maintenance, and Tank Interior Cleaning Program	5.7 Voluntary Tank Preventive Inspection and Maintenance, and Tank Interior Cleaning Program	TVP threshold of applicability to the storage tank degassing and interior cleaning

Requirement Category	SIP Version of Rule 4623 (5/19/05)	Non-SIP Version of Rule 4623 (6/15/23)	Conclusion
	Only operators who elect to participate in the voluntary tank preventive inspection and maintenance, and tank interior cleaning program (program) shall be allowed to use the provisions specified in Tables 3 to 5 and Section 5.7.5. When using Tables 3 to 5 Section 5.7.5 provisions, operators shall perform the procedures as expeditiously as practicable and minimize emissions to the maximum extent practicable. To participate in this program, the operator shall comply with the requirements of Sections 5.7.1 through 5.7.4. 5.7.1 Submit a letter to the APCO prior to conducting tank inspection, maintenance, and cleaning activities. The letter shall contain a list of each tank that will be subject to this program. The list shall include the tank identification number and location, and/or PTO numbers. 5.7.2 Keep in their facility at all times a copy of the letter sent to the APCO and maintain the records of annual tank inspection, maintenance and cleaning activities, to document their participation in the program. 5.7.3 The absence of a copy of the letter and/or failure to maintain appropriate records shall be deemed as non-participation in the program, and therefore the operator will not be eligible to use the provisions specified in Tables 3 to 5 and Section 5.7.5. Those who have not voluntarily participated in the program but are found to be using the provisions of Tables 3 to 5, and Section 5.7.5 shall be deemed to be in violation of this rule. 5.7.4 Operators who elect to participate in this program but who fail to comply with all of the requirements specified in Tables 3 to 5 and Section 5.7.5 shall be deemed to be a violation of the provisions of this rule. 5.7.5 Storage Tank Degassing and Interior Cleaning Requirements 5.7.1.1 Notification Operators of storage tanks subject to the requirements of Section 5.7 shall notify the APCO in writing at least three (3) days prior to performing tank degassing and interior tank cleaning activities. Written notification shall include the following information: 5.7.5.1.1 The PTO number and physical location of the tank being degassed, 5.7.5.1.2 The date and time that tank degassing and cleaning activities will begin.	Until June 30, 2024, operators who elect to participate in the voluntary tank preventive inspection and maintenance, and tank interior cleaning program (program) shall be allowed to use the provisions specified in Tables 5 to 7 and Section 5.7.5. When using Tables 5 to 7 Section 5.7.5 provisions, operators shall perform the procedures as expeditiously as practicable and minimize emissions to the maximum extent practicable. To participate in this program, the operator shall comply with the requirements of Sections 5.7.1 through 5.7.4. 5.7.1 Submit a letter to the APCO prior to conducting tank inspection, maintenance, and cleaning activities. The letter shall contain a list of each tank that will be subject to this program. The list shall include the tank identification number and location, and/or PTO numbers. 5.7.2 Keep in their facility at all times a copy of the letter sent to the APCO and maintain the records of annual tank inspection, maintenance and cleaning activities, to document their participation in the program. 5.7.3 The absence of a copy of the letter and/or failure to maintain appropriate records shall be deemed as non-participation in the program, and therefore the operator will not be eligible to use the provisions specified in Tables 5 to 7 and Section 5.7.5. Those who have not voluntarily participated in the program but are found to be using the provisions of Tables 5 to 7, and Section 5.7.5 shall be deemed to be in violation of this rule. 5.7.4 Operators who elect to participate in this program but who fail to comply with all of the requirements specified in Tables 3 and 5 and Section 5.7.5 shall be deemed to be a violation of the provisions of this rule. 5.7.5 Storage Tank Degassing and Interior Cleaning Requirements After June 30, 2024, operators of Fixed and Floating Roof Tanks shall comply with the provisions of Section 5.7.5. Operators may disconnect from vapor recovery provided that the procedures are performed as expeditiously as practicable and emission are minimized to the maximum extent practicable. 5.7.1.1 Notification	requirements has been lowered in the non-SIP version, from 0.5 psia or greater to 0.1 psia or greater. Therefore, the non-SIP version is more stringent than the SIP version.

Requirement Category	SIP Version of Rule 4623 (5/19/05)	Non-SIP Version of Rule 4623 (6/15/23)	Conclusion
	5.7.5.1.3 The degassing method, as allowed pursuant to Section 5.7.5.4, to be used. 5.7.5.1.4 The method to be used to clean the tank, including any solvents to be used, and 5.7.5.1.5 The method to be used to dispose of the removed sludge, including methods that will be used to control emissions from the receiving vessel and emissions during transport. 5.7.5.2 Records Operators shall maintain records of tank cleaning activities for a period of 5 years and present said records to the APCO upon request. Records should include the final details of the planned activities submitted pursuant to Section 5.7.5.1. 5.7.5.3 Fixed-Roof Tanks Operating Only a Pressure-Vacuum Relief Valve 5.7.5.3.1 Except for complying with Section 5.7.5.3.2 requirements, fixed-roof tanks allowed, pursuant to Tables 1 and 2 of this rule, to operate a pressure-vacuum relief valve as the primary VOC control system are not subject to the degassing requirements specified in Section 5.7.5.4. 5.7.5.3.2 Operators shall comply with the requirements of Section 5.2 during the process of draining, and refilling the tank with an organic liquid having a TVP of 0.5 psia or greater. 5.7.5.3.3 The requirements specified in Sections 5.1 and 5.2 shall not apply to the tank during interior cleaning or maintenance activities. 5.7.5.4 Tank Degassing Requirements Except for tanks satisfying Section 5.7.5.3 provisions, the process of tank degassing shall be accomplished by emptying the tank of organic liquid having a TVP of 0.5 psia or greater, and minimizing organic vapors in the tank vapor space by one of the following methods: 5.7.5.4.1 Exhaust VOCs contained in the tank vapor space to an APCO-approved vapor recovery system until the organic vapor concentration is 5,000 ppmv or less, or is 10 percent or less of the lower explosion limit (LEL), whichever is less; or 5.7.5.4.2 Displace VOCs contained in the tank vapor space to an APCO-approved vapor recovery system by filling	Operators of storage tanks subject to the requirements of Section 5.7 shall notify the APCO in writing at least three (3) days prior to performing tank degassing and interior tank cleaning activities. Written notification shall include the following information: 5.7.5.1.1 The PTO number and physical location of the tank being degassed, 5.7.5.1.2 The date and time that tank degassing and cleaning activities will begin, 5.7.5.1.3 The degassing method, as allowed pursuant to Section 5.7.5.4, to be used, 5.7.5.1.4 The method to be used to clean the tank, including any solvents to be used, and 5.7.5.1.5 The method to be used to dispose of the removed sludge, including methods that will be used to control emissions from the receiving vessel and emissions during transport. 5.7.5.2 Records Operators shall maintain records of tank cleaning activities for a period of 5 years and present said records to the APCO upon request. Records should include the final details of the planned activities submitted pursuant to Section 5.7.5.1. 5.7.5.3 Fixed-Roof Tanks Operating Only a Pressure-Vacuum Relief Valve 5.7.5.3.1 Except for complying with Section 5.7.5.3.2 requirements, fixed-roof tanks allowed, pursuant to Tables 3 and 4 of this rule, to operate with a pressure-vacuum relief valve are not subject to the degassing requirements specified in Section 5.7.5.4. 5.7.5.3.2 Operators shall comply with the requirements of Section 5.2 during the process of draining, and refilling the tank with an organic liquid having a TVP of 0.5 psia or greater until June 30, 2024, or TVP of 0.1 psia or greater after June 30, 2024. 5.7.5.3.3 The requirements specified in Sections 5.1 and 5.2 shall not apply to the tank during interior cleaning or maintenance activities. 5.7.5.4 Tank Degassing Requirements Except for tanks satisfying Section 5.7.5.3 provisions, the process of tank degassing shall be accomplished	

Requirement Category	SIP Version of Rule 4623 (5/19/05)	Non-SIP Version of Rule 4623 (6/15/23)	Conclusion
	the tank with a suitable liquid until 90 percent or more of the maximum operating level of the tank is filled. Suitable liquids are organic liquids having a TVP of less than 0.5 psia, after clean produced water, or produced water derived from crude oil having a TVP less than 0.5 psia; or 5.7.5.4.3 Displace VOCs contained in the tank vapor space to an APCO-approved vapor recovery system by filling the tank with a suitable gas. Degassing shall continue until the operator has achieved a vapor displacement equivalent to at least 2.3 times the tank capacity. Suitable gases are air, nitrogen, carbon dioxide, or natural gas containing less than 10 percent VOC by weight; or 5.7.5.4.4 For free-water knockout tanks, the operator may degas the tank vapor space by restricting the outflow of water and floating off the oilpad, such that at least 90 percent of the tank volume is displaced. 5.7.5.4.5 During degassing, the operator shall discharge or displace organic vapors contained in the tank vapor space to an APCO-approved vapor recovery system that is leak-free and meets the requirements of Section 5.6.1.1 or Section 5.6.1.2. 5.7.5.4.6 To facilitate connection to an external APCO-approved vapor recovery system a suitable tank fitting, such as a manway, may be temporarily removed for a period of time not to exceed 1 hour. 5.7.5.4.7 Except as provided for in Section 5.7.5.4.9, the tank shall be in compliance with the applicable requirements specified in Section 5.1 through Section 5.6 during draining, degassing, and refilling the tank with an organic liquid having a TVP of 0.5 psia or greater. 5.7.5.4.8 Draining and refilling of floating roof tanks shall occur as a continuous process and shall proceed as rapidly as practicable while the roof is not floating on the surface of the stored liquid. 5.7.5.4.9 For floating-roof tanks, the gap seal requirements specified in Sections 5.3.2 and 5.4.2 shall not apply while the roof is resting on its legs, and during the processes of draining, degassing, or refilling the tank. The leak-free condition specified in Section 5.1.3 shall not apply during refilling the tank, if the operator complies with Section 5.7.5.4.8 requirements. 5.7.5.4.10 After a tank has been degassed pursuant to the provisions of Section 5.7.5 the requirements	by emptying the tank of organic liquid having a TVP of 0.5 psia until June 30, 2024, or TVP of less than 0.1 psia after June 30, 2024, or greater, and minimizing organic vapors in the tank vapor space by one of the following methods: 5.7.5.4.1 Exhaust VOCs contained in the tank vapor space to an APCO-approved vapor recovery system until the organic vapor concentration is 5,000 ppmv or less, or is 10 percent or less of the lower explosion limit (LEL), whichever is less; or 5.7.5.4.2 Displace VOCs contained in the tank vapor space to an APCO-approved vapor recovery system by filling the tank with a suitable liquid until 90 percent or more of the maximum operating level of the tank is filled. Suitable liquids are organic liquids having a TVP of less than 0.5 psia until June 30, 2024, or TVP of less than 0.1 psia after June 30, 2024, water, clean produced water, or produced water derived from crude oil having a TVP less than 0.5 psia; or 5.7.5.4.3 Displace VOCs contained in the tank vapor space to an APCO-approved vapor recovery system by filling the tank with a suitable gas. Degassing shall continue until the operator has achieved a vapor displacement equivalent to at least 2.3 times the tank capacity. Suitable gases are air, nitrogen, carbon dioxide, or natural gas containing less than 10 percent VOC by weight; or 5.7.5.4.4 For free-water knockout tanks, the operator may degas the tank vapor space by restricting the outflow of water and floating off the oilpad, such that at least 90 percent of the tank volume is displaced. 5.7.5.4.5 During degassing, the operator shall discharge or displace organic vapors contained in the tank vapor space to an APCO-approved vapor recovery system that is leak-free and meets the requirements of Section 5.6.1.1 or Section 5.6.1.2. 5.7.5.4.6 To facilitate connection to an external APCO-approved vapor recovery system a suitable tank fitting, such as a manway, may be temporarily removed for a period of time not to exceed 1 hour. 5.7.5.4.7 Except as provided for in Section 5.7.5.4.9, the tank shall be in compliance with the applicable	

Requirement Category	SIP Version of Rule 4623 (5/19/05)	Non-SIP Version of Rule 4623 (6/15/23)	Conclusion				
	specified in Section 5.1 through Section 5.6 shall not apply until an organic liquid having a TVP of 0.5 psia or greater is placed, held, or stored in the tank. 5.7.5.5 Tank Cleaning 5.7.5.5.1 While performing tank cleaning activities, operators may use the following cleaning agents: diesel, solvents with an initial boiling point of greater than 302oF, solvents with a vapor pressure of less than 0.5 psia, or solvents with 50 grams per liter VOC content or less. 5.7.5.5.2 Steam cleaning shall be allowed at locations where wastewater treatment facilities are limited or during the months of December through March. 5.7.5.6 Removed Sludge Operators of tanks containing an organic liquid with a TVP of 1.5 psia or greater shall control emissions from the removed sludge by complying with all of the following provisions: 5.7.5.6.1 During sludge removal the operator shall control emissions from the receiving vessel by operating an APCO-approved vapor control device that reduces emissions of organic vapors by at least 95 percent. 5.7.5.6.2 Operators shall transport removed sludge in closed, liquid leak-free containers. 5.7.5.6.3 Notwithstanding Section 5.7.5.6.2, operators shall store removed sludge, until final disposal, in leak-free containers, or tanks complying with Section 5.1 requirements. Sludge that is to be used to manufacture roadmix, as defined in Rule 2020 (Exemptions), is exempt from this requirement. Roadmix manufacturing operations exempt pursuant to Rule 2020, shall maintain documentation of their compliance with Rule 2020, and promptly make said documentation available to the APCO upon request. <table><tr><td colspan="2">Table 3: Fixed Roof Tank Preventive Inspection and Maintenance</td></tr><tr><td>Emission Minimization for Components Serving Organic</td><td>Liquid Storage Tanks</td></tr></table>	Table 3: Fixed Roof Tank Preventive Inspection and Maintenance		Emission Minimization for Components Serving Organic	Liquid Storage Tanks	requirements specified in Section 5.1 through Section 5.6 during draining, degassing, and refilling the tank with an organic liquid having a TVP of 0.5 psia or greater until June 30, 2024, or TVP of less than 0.1 psia after June 30, 2024, or greater. 5.7.5.4.8 Draining and refilling of floating roof tanks shall occur as a continuous process and shall proceed as rapidly as practicable while the roof is not floating on the surface of the stored liquid. 5.7.5.4.9 For floating-roof tanks, the gap seal requirements specified in Sections 5.3.2 and 5.4.2 shall not apply while the roof is resting on its legs, and during the processes of draining, degassing, or refilling the tank. The leak-free condition specified in Section 5.1.3 shall not apply during refilling the tank, if the operator complies with Section 5.7.5.4.8 requirements. 5.7.5.4.10 After a tank has been degassed pursuant to the provisions of Section 5.7.5 the requirements specified in Section 5.1 through Section 5.6 shall not apply until an organic liquid having a TVP of 0.5 psia or greater until June 30, 2024, or TVP of less than 0.1 psia after June 30, 2024, or greater is placed, held, or stored in the tank. 5.7.5.5 Tank Cleaning 5.7.5.5.1 While performing tank cleaning activities, operators may use the following cleaning agents: diesel, solvents with an initial boiling point of greater than 302oF, solvents with a vapor pressure of less than 0.5 psia, or solvents with 50 grams per liter VOC content or less. 5.7.5.5.2 Steam cleaning shall be allowed at locations where wastewater treatment facilities are limited or during the months of December through March. 5.7.5.6 Removed Sludge Operators of tanks containing an organic liquid with a TVP of 1.5 psia or greater shall control emissions from the removed sludge by complying with all of the following provisions:	
Table 3: Fixed Roof Tank Preventive Inspection and Maintenance							
Emission Minimization for Components Serving Organic	Liquid Storage Tanks						

Requirement Category	SIP Version of Rule 4623 (5/19/05)				Non-SIP Version of Rule 4623 (6/15/23)				Conclusion
				Minimize on requirements, shall not constitute a violation of this rule. However, leaking components discovered during inspection by District staff that were not previously identified and/or tagged by the operator, and/or any leaks that were not repaired within deadlines specified in the Emissions Minimization Requirements shall constitute a violation of this rule. 3. Any component found to	-Flanges -Connectors	with EPA Method 21. 3. Visually or ultrasonically inspect as appropriate, the external shells and roofs of un-insulated tanks for integrity annually.	hours after detection. 2. Gas leak detection. Comply with the following requirements to repair leaking components that have a gas leak >10,000 ppmv (measured in accordance with EPA Method 21 by a portable hydrocarbon detection instrument that is calibrated with methane): a. Eliminate the leak within 8 hours after detection; or b. If the leak cannot be eliminated, then minimize the leak to the lowest possible level within 8 hours after	it was repaired to a leak-free condition. 2. Leaking components that have been discovered by the operator that have been immediately tagged and repaired within the deadlines specified in the Emissions Minimization Requirements, shall not constitute a violation of this rule. However, leaking components discovered during inspections by District staff that were not previously identified and/or tagged by	

Requirement Category	SIP Version of Rule 4623 (5/19/05)			Non-SIP Version of Rule 4623 (6/15/23)			Conclusion
			be leaking on two consecutive annual inspections is in violation of this rule, even if it is under the voluntary inspection and maintenance program.	3. If a component type for a given tank is found to leak during an annual inspection, then conduct quarterly inspections of that component type on the tank or tank system for four consecutive quarters. If a component type is found to have no leak after four consecutive quarterly inspections, then revert to annual inspections.	detection by using best maintenance practices; and c. Eliminate the leak within 48 hours after minimization; and d. In no event that the total time to minimize and eliminate the leak shall exceed 56 hours after detection. 3. If a component type for a given tank is found to leak during an annual inspection, then conduct quarterly inspections of that component type on the tank or tank system for four consecutive quarters. If a component type is	the operator, and/or any leaks that were not repaired with in deadlines specified in the Emissions Minimization requirements, shall constitute a violation of this rule. 3. Any component found to be leaking on two consecutive annual inspections is in violation of this rule, even if it is under the voluntary inspection and maintenance program.	

Table 4: Fixed Roof Tank Preventive Inspection and Maintenance			
Emission Minimization for Components Serving Organic Liquid Storage Tanks			
Components	Maintenance Schedule	Emission Minimization	Additional Requirements
1. Piping Components (valves, flanges, and connectors)	1. Conduct annual inspections with maintenance	1. Liquid Leak Repair leaking component s that have	1. For leaking components, immediate

Requirement Category	SIP Version of Rule 4623 (5/19/05)				Non-SIP Version of Rule 4623 (6/15/23)				Conclusion
			within 8 hours after detection; or b. If the leak cannot be eliminated, then minimize the leak to the lowest possible level within 8 hours after detection by using best maintenance practices; and c. Eliminate the leak within 48 hours after minimization; and d. In no event that the total time to minimize and eliminate the leak shall exceed 56 hours after detection. 3. If a component type for a given tank is found to leak during an annual	rule. However, leaking components discovered during inspection by District staff that were not previously identified and/or tagged by the operator, and/or any leaks that were not repaired within deadlines specified in the Emissions Minimization requirements, shall constitute a violation of this rule. 3. Any component found to be leaking on two consecutive annual inspections is in violation of this rule,		roofs of un-insulated tanks for integrity annually.	requirements to repair leaking component that have a gas leak >10,000 ppmv (measured in accordance with EPA Method 21 by a portable hydrocarbon detection instrument that is calibrated with methane); a. Eliminate the leak within 8 hours after detection; or b. If the leak cannot be eliminated, then minimize the leak to the lowest possible level within 8 hours after detection by using best maintenance practices; and c. Eliminate the leak	have been discovered by the operator that have been immediately tagged and repaired within the deadlines specified in the Emissions Minimization requirements, shall not constitute a violation of this rule. However, leaking components discovered during inspections by District staff that were not previously identified and/or tagged by the operator, and/or any leaks that were not repaired within deadlines	

Requirement Category	SIP Version of Rule 4623 (5/19/05)			Non-SIP Version of Rule 4623 (6/15/23)			Conclusion
			inspection, then conduct quarterly inspections of that component type on the tank or tank system for four consecutive quarters. If a component type is found to have no leak after four consecutive quarterly inspections, then revert to annual inspections.	even if it is under the voluntary inspection and maintenance program.		specified in the Emissions Minimization requirements, shall constitute a violation of this rule.	
						3. Any component found to be leaking on two consecutive annual inspections is in violation of this rule, even if it is under the voluntary inspection and maintenance program.	

Table 5: Internal Floating Roof Preventive Inspection and Maintenance			
Emission Minimization for Components Serving Organic Liquid Storage Tanks			
Components	Maintenance Schedule	Emission Minimization	Additional Requirements
1. Piping Components (valves, flanges, and connectors) directly affixed to the tank and within five feet of the tank.	1. Conduct annual inspections with maintenance and repair of component. 2. Conduct visual inspections and inspections	1. Liquid Leak Repair leaking component s that have a liquid leak rate of ≥30 drops per minute, within 8 hours after detection. Repair	1. For leaking components, immediately affix a tag and maintain records of liquid leak and gas leak detection

Requirement Category	SIP Version of Rule 4623 (5/19/05)				Non-SIP Version of Rule 4623 (6/15/23)				Conclusion
				then minimize the leak to the lowest possible level within 8 hours after detection by using best maintenance practices; and c. Eliminate the leak within 48 hours after minimization; and d. In no event that the total time to minimize and eliminate the leak shall exceed 56 hours after detection. 3. If a component type for a given tank is found to leak during an annual inspection, then conduct quarterly inspections of that component type on the s by District staff that were not previously identified and/or tagged by the operator, and/or any leaks that were not repaired within deadlines specified in the Emissions Minimization requirement; shall constitute a violation of this rule. 3. Any component found to be leaking on two consecutive annual inspections is in violation of this rule, even if it is under the voluntary inspection and maintenance program.		(measured in accordance with EPA Method 21 by a portable hydrocarbon detection instrument that is calibrated with methane); a. Eliminate the leak within 8 hours after detection; or b. If the leak cannot be eliminated, then minimize the leak to the lowest possible level within 8 hours after detection by using best maintenance practices; and c. Eliminate the leak within 48 hours after minimization; and d. In no event that the total time to	y tagged and repaired within the deadlines specified in the Emissions Minimization requirement; shall not constitute a violation of this rule. However, leaking components discovered during inspections by District staff that were not previously identified and/or tagged by the operator, and/or any leaks that were not repaired within deadlines specified in the Emissions Minimization requirement; shall		

Requirement Category	SIP Version of Rule 4623 (5/19/05)			Non-SIP Version of Rule 4623 (6/15/23)			Conclusion
			tank or tank system for four consecutive quarters. If a component type is found to have no leak after four consecutive quarterly inspections, then revert to annual inspections.		minimize and eliminate the leak shall exceed 56 hours after detection. . 3. If a component type for a given tank is found to leak during an annual inspection, then conduct quarterly inspections of that component type on the tank or tank system for four consecutive quarters. If a component type is found to have no leak after four consecutive quarterly inspections, then revert to annual inspections.	constitute a violation of this rule. 3. Any component found to be leaking on two consecutive annual inspections is in violation of this rule, even if it is under the voluntary inspection and maintenance program.	
	N/A			5.8 Preventive Maintenance and Interior Cleaning Requirements for Fixed Roof Tanks (Effective after June 30, 2024)			The non-SIP version includes new section 5.8. Therefore, the non-SIP version is more stringent than the SIP version.
				5.8.1 Conduct maintenance and cleaning activities pursuant to Section 5.7.5.			

Requirement Category	SIP Version of Rule 4623 (5/19/05)	Non-SIP Version of Rule 4623 (6/15/23)	Conclusion						
N/A		5.9 Inspection and Re-Inspection Requirements (Effective after June 30, 2024) 5.9.1 Determination of Compliance with the Leak Standards during District Inspection For the purpose of this rule, a facility shall be considered in violation if one or more of the conditions specified in Section 5.9.1.1 through 5.9.1.4 exist at the facility. 5.9.1.1 The discovery of a major gas leak greater than 10,000 ppmv. 5.9.1.2 The discovery of a liquid leak as defined in Section 3.23. 5.9.1.3 Exceeding the allowable number of minor leaks defined in Table 8. <table><caption>Table 8 – Allowable Leaks</caption><tr><th>Leak Threshold</th><th>200 or Less Components Inspected*</th><th>More than 200 Components Inspected*</th></tr><tr><td>500-9,999 ppmv</td><td>5</td><td>2% of total inspected</td></tr></table> * The maximum number of leaks in Table 8 shall be rounded upwards to the nearest integer, where required. The maximum allowable percent of leaks is calculated from the total number of components inspected during the specified inspection period. Leaks counted toward the allowable leak threshold in Table 8 are still subject to the maintenance and repair requirements of Section 5.9.3 through 5.9.4. 5.9.1.4 Failure to repair leaks within the timeframes specified in Table 9. 5.9.2 Determination of Compliance with the Leak Standards during Operator Inspection For the purpose of this rule a facility shall be considered in violation if the following condition specified in Section 5.9.2.1 exists at the facility. 5.9.2.1 Failure to repair leaks within the timeframes specified in Table 9. 5.9.3 A leak discovered during Operator and District Inspection(s) above the leak standards defined in Section	Leak Threshold	200 or Less Components Inspected*	More than 200 Components Inspected*	500-9,999 ppmv	5	2% of total inspected	The non-SIP version includes new section 5.9. Therefore, the non-SIP version is more stringent than the SIP version.
Leak Threshold	200 or Less Components Inspected*	More than 200 Components Inspected*							
500-9,999 ppmv	5	2% of total inspected							

Requirement Category	SIP Version of Rule 4623 (5/19/05)	Non-SIP Version of Rule 4623 (6/15/23)	Conclusion															
		3.14 and in Table 2 shall be repaired within the timeframes of Table 9. <table><tr><th colspan="2">Table 9 – Repair Time Periods</th><th>5.9.4</th></tr><tr><td>Leak Threshold</td><td>Repair Time Period</td><td></td></tr><tr><td>Minor Leak</td><td>14 Calendar Days</td><td></td></tr><tr><td>Major Leak</td><td>2 Calendar Days</td><td></td></tr><tr><td>Liquid Leak</td><td>2 Calendar Days</td><td></td></tr></table> At least once each calendar quarter all components shall be tested for leaks, except for inaccessible components, unsafe to monitor components and floating roof tanks including their deck fittings and components. External floating roof tanks shall be inspected once every 12 months as required by Section 6.1.3. Internal floating roof tanks shall be inspected once every 60 months as required by Section 6.1.4. Inspections shall be performed as allowed by the following: 5.9.4.1 All components shall be tested for leaks of total hydrocarbons in units of parts per million volume (ppmv) in accordance with US EPA Reference Method 21 as specified in Section 6.4.8. 5.9.4.2 Inaccessible components and unsafe-to-monitor components shall be inspected once every 12 months per US EPA Reference Method 21. 5.9.4.3 Except for inaccessible components, unsafe to monitor components, and floating roof tanks including deck fittings and components, owners or operators shall audio-visually inspect (by hearing and by sight) all hatches, pressure-vacuum relief valves, pressure relief devices, and pump seals for leaks or indications of leaks at least once every 24 hours for facilities that are visited daily, or at least once per calendar week for facilities that are not visited at least once every 24 hours. 5.9.4.4 Any audio-visual inspection specified in Section 5.9.4.3 that indicates a leak shall be tested using US EPA Reference Method 21 within 24 hours, and the leak shall be repaired in accordance with the repair timeframes specified in Table 9. 5.9.4.5 An operator shall inspect all new, replaced, or repaired fittings, flanges, and threaded connections within 72 hours of placing the component in service.	Table 9 – Repair Time Periods		5.9.4	Leak Threshold	Repair Time Period		Minor Leak	14 Calendar Days		Major Leak	2 Calendar Days		Liquid Leak	2 Calendar Days		
Table 9 – Repair Time Periods		5.9.4																
Leak Threshold	Repair Time Period																	
Minor Leak	14 Calendar Days																	
Major Leak	2 Calendar Days																	
Liquid Leak	2 Calendar Days																	

Requirement Category	SIP Version of Rule 4623 (5/19/05)	Non-SIP Version of Rule 4623 (6/15/23)	Conclusion
		5.9.4.6 A District inspection in no way fulfills any of the mandatory inspection requirements that are placed upon operators and cannot be used or counted as an inspection required of an operator. 5.9.4.7 Upon detection of a component with a leak concentration measured above the standards specified, the owner or operator shall affix to that component a weatherproof readily visible tag that identifies the date and time of leak detection measurement and the measured leak concentration. The tag shall remain affixed to the leaking component until it has been successfully repaired or replaced, after which the tag shall be removed. 5.9.4.7.1 Successful repair shall be confirmed by re-measuring the components using US EPA Reference Method 21 to determine that the component is below the minimum leak threshold after repair or replacement. 5.9.4.8 Excluding tanks, components or component parts which incur five (5) repair actions within a rolling 12-month period shall be replaced with a compliant component in working order and must be re-measured using US EPA Reference Method 21, to determine that the component is below the minimum leak threshold. A record of the replacement must be maintained in a log at the facility, and shall be made available upon request by the APCO. Failure to comply with all of the Maintenance Requirements of Section 5.9.4.1 through 5.9.4.8 shall constitute a violation of this rule. 5.9.4.9 An operator shall attempt to minimize all component leaks immediately to the extent possible, but no later than one (1) hour after detection of leak in order to stop or reduce leakage to the atmosphere. 5.9.4.10 If the leak has been minimized but the leak still exceeds the applicable leak standards of this rule, an operator shall comply with at least one of the requirements of Sections 5.9.4.10.3, 5.9.4.10.4 or 5.9.4.10.5 as soon as practicable but not later than the time period specified in Table 9. 5.9.4.10.1 The leak rate measured after leak minimization has been performed shall be the leak rate used to determine the repair period specified in Table 9.	

Requirement Category	SIP Version of Rule 4623 (5/19/05)	Non-SIP Version of Rule 4623 (6/15/23)	Conclusion
6.0 Administrative Requirements	6.1 Inspection of Floating Roof Tanks 6.1.1 The operator of external floating roof tanks 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. In the case of riveted tanks with toroid-type seals, a minimum of eight (8) locations shall be made available; in all other cases, a minimum of four (4) 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. 6.1.2 Operators of floating roof tanks 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 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. 6.1.3 External Floating Roof Tank Inspection 6.1.3.1 Inspect all floating tanks at least once every 12 months to determine compliance with the requirements of this rule. 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. 6.1.3.2 Inspect the primary and secondary seals for compliance with the requirements of this rule every time a tank is emptied or degassed. Actual gap measurements shall be performed when the liquid level is static but not more than 48 hours after the tank roof is re-floated.	5.9.4.10.2 The start of the repair period shall be the time of the initial leak detection. 5.9.4.10.3 Repair or replace the leaking component or 5.9.4.10.4 Vent the leaking component to a VOC control system as defined in Section 3.1. 5.9.4.10.5 Remove the leaking component from operation. 6.1 Inspection of Floating Roof Tanks 6.1.1 The operator of external floating roof tanks 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. In the case of riveted tanks with toroid-type seals, a minimum of eight (8) locations shall be made available; in all other cases, a minimum of four (4) 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. 6.1.2 Operators of floating roof tanks 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. 6.1.3 External Floating Roof Tank Inspection 6.1.3.1 Inspect all floating roof tanks at least once every 12 months to determine compliance with the requirements of this rule. 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. 6.1.3.2 Inspect the primary and secondary seals for compliance with the requirements of this rule every time a tank is emptied or degassed. Actual gap measurements shall be performed when the liquid	New requirement was added to the non-SIP version. Therefore, non-SIP version is more stringent than the SIP version.

Requirement Category	SIP Version of Rule 4623 (5/19/05)	Non-SIP Version of Rule 4623 (6/15/23)	Conclusion
	6.1.4 Internal Floating Roof Tank Inspection 6.1.4.1 For newly constructed, repaired, or rebuilt internal floating roof tanks, 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. 6.1.4.2 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 specified by this rule, no holes, tears, or other openings are allowed that would permit the escape of hydrocarbon vapors. Any defects found are violations of this rule. 6.1.4.3 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 rule, 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.	level is static but not more than 48 hours after the tank roof is re-floated. 6.1.4 Internal Floating Roof Tank Inspection 6.1.4.1 For newly constructed, repaired, or rebuilt internal floating roof tanks, 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. 6.1.4.2 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 hydrocarbon vapors. Any defects found are violations of this rule. 6.1.4.3 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 rule, 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. The inspection results shall be submitted to the APCO as specified in Section 6.3.5.	

Requirement Category	SIP Version of Rule 4623 (5/19/05)	Non-SIP Version of Rule 4623 (6/15/23)	Conclusion
	6.2 TVP and API Gravity Testing of Stored Organic Liquid in Uncontrolled Fixed Roof Tanks Sections 6.2.1 and 6.2.2 shall not apply to tanks that exclusively store organic liquids listed in Appendix A, provided the storage temperature indicated in Appendix A is not exceeded at any time. An operator shall comply with Section 6.3.6 if the information in Appendix A is used to demonstrate the TVP and/or API gravity of the stored liquid. 6.2.1 Initial TVP and API Gravity Testing 6.2.1.1 An operator shall conduct an initial TVP testing of each uncontrolled fixed roof tank. In lieu of testing each uncontrolled fixed roof tank, an operator may conduct a TVP testing of a representative tank provided the requirements of Sections 6.2.1.1.1 through 6.2.1.1.5 are met. The operator shall submit the records of TVP and/or API gravity testing to the APCO as specified in Section 6.3.6. The operator shall be in full compliance with the rule by the deadline specified in Section 7.1. 6.2.1.1.1 The selection of representative, uncontrolled fixed roof tanks is submitted in writing to the APCO, and written approval is granted by the APCO prior to conducting the test. 6.2.1.1.2 One uncontrolled fixed roof tank represents some or all of the tanks in a tank battery (defined in Section 3.31). 6.2.1.1.3 For crude oil production facilities, the representative uncontrolled fixed roof tank shall be the first line tank (or tanks) in a tank battery that is first receiving the produced fluids (mixture of oil, water, and gases) from the crude oil production wells. 6.2.1.1.4 The stored organic liquid in each of the represented tanks is the same and came from the same source. 6.2.1.1.5 The TVP and storage temperature of the stored organic liquid of the representative tank to be tested are the same or higher than those of the tanks it is to represent. 6.2.1.2 The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. If the tank stores crude oil or petroleum distillates, the operator shall also conduct an API gravity testing. 6.2.1.3 In lieu of complying with Sections 6.2.1.1 and 6.2.1.2, an operator shall submit a complete application for an Authority to Construct to install and operate on each uncontrolled fixed roof tank the appropriate VOC control	6.2 TVP and API Gravity Testing of Stored Organic Liquid in Uncontrolled Fixed Roof Tanks Sections 6.2.1 and 6.2.2 shall not apply to tanks that exclusively store organic liquids listed in Appendix A, provided the storage temperature indicated in Appendix A is not exceeded at any time. An operator shall comply with Section 6.3.6 if the information in Appendix A is used to demonstrate the TVP and/or API gravity of the stored liquid. 6.2.1 TVP and API Gravity Testing 6.2.1.1 An operator shall conduct TVP and API testing upstream of each separator and fixed roof tank not controlled by a vapor control system per Sections 5.3, 5.4, 5.5, or 5.6 using test methods in Section 6.4 and the procedures below. 6.2.1.1.1 In lieu of testing upstream of each fixed roof tank not meeting the control systems of Sections 5.3, 5.4, 5.5, and 5.6 an operator may conduct TVP testing of a representative fixed roof tank. The selection of a representative, uncontrolled fixed roof tanks is submitted in writing to the APCO, and written approval is granted by the APCO prior to conducting the test. 6.2.1.1.2 One fixed roof tank not meeting the control systems of Section 5.3, 5.4, 5.5, and 5.6 represents some or all of the tanks in a tank battery (defined in Section 3.41). 6.2.1.1.3 For crude oil production facilities, the representative uncontrolled fixed roof tank shall be the front line tank (or tanks) in a tank battery that is first receiving the produced fluids (mixture of oil, water, and gases) from the crude oil production wells. 6.2.1.1.4 The stored organic liquid in each of the represented tanks is the same and came from the same source. 6.2.1.1.5 The TVP and storage temperature of the stored organic liquid of the representative tank to be tested are the same or higher than those of the tanks it is to represent. 6.2.1.1.6 An operator must maintain a sketch or diagram of the separator and tank system depicting the sampling location. 6.2.1.1.7 The TVP testing shall be conducted during the months of June through September using the	TVP and API gravity requirements were modified to provide clarity for the sampling location and frequency of sampling in the non-SIP version. Although sections 6.2.2 and 6.2.3 were removed from the non-SIP version, it didn't relax the stringency of the rule. Therefore, the non-SIP version is as stringent as the SIP version.

Requirement Category	SIP Version of Rule 4623 (5/19/05)	Non-SIP Version of Rule 4623 (6/15/23)	Conclusion
	system specified in Section 5.1. The operator shall be in full compliance with the rule by the deadline specified in Section 7.1. 6.2.2 Periodic TVP and API Gravity Testing Effective on and after November 15, 2003, an operator shall conduct a TVP testing of each uncontrolled fixed roof tank at least once every 24 months during summer (July – September), and/or whenever there is a change in the source or type of organic liquid stored in each tank. In lieu of testing each uncontrolled fixed roof tank, an operator may conduct a TVP testing of a representative tank provided the requirements of Sections 6.2.1.1.1 through 6.2.1.1.5 are met. The operator shall also comply with Section 6.2.1.2. The operator shall submit the records of TVP and/or API gravity testing to the APCO as specified in Section 6.3.6. 6.2.3 The requirements of Sections 6.2.1 and 6.2.2 shall not apply to the following tanks: 6.2.3.1 Tanks identified in Section 5.1.1, Table 1, Group A, that are permitted by the District to operate a pressure-vacuum relief valve complying with Section 5.2 requirements, and exclusively receive and/or store crude oil with a TVP of less than 11 psia, 6.2.3.2 Tanks identified in Section 5.1.2, Table 2, Group A, that are permitted by the District to operate a pressure-vacuum relief valve complying with Section 5.2 requirements, and exclusively receive and/or store crude oil with a TVP of less than 11 psia, or 6.2.3.3 Tanks identified in Section 5.1.2, Table 2, Group B, are permitted by the District to operate a pressure-vacuum relief valve complying with Section 5.2 requirements; exclusively receive and/or store crude oil with a TVP of less than 11 psia; and have a permitted throughput of less than 150 barrels of crude oil per day.	actual storage temperature of the organic liquid in the tank. 6.2.1.1.8 Testing shall occur whenever there is a change in the source or type of organic liquid stored in each tank. The operator shall submit the records of TVP and/or API gravity testing to the APCO as specified in Section 6.3.6. 6.2.1.1.9 An operator shall conduct a TVP and API testing of each fixed roof tank not controlled by a vapor control system per Sections 5.3, 5.4, 5.5, or 5.6 at least once every 24 months following the procedures in Section 6.2.1.	
	6.3 Recordkeeping An operator shall retain accurate records required by this rule for a period of five years. Records shall be made available to the APCO upon request, except for certain records that need to be submitted as specified in the respective sections below. 6.3.1 An operator whose tanks are subject to the requirements of this rule shall keep an accurate record of each organic liquid stored in each tank, including its storage temperature, TVP,	6.3 Recordkeeping An operator shall retain accurate records required by this rule for a period of five years. Records shall be made available to the APCO upon request, except for certain records that need to be submitted as specified in the respective sections below. 6.3.1 An operator whose tanks are subject to the requirements of this rule shall keep an accurate record of each organic liquid stored in each tank, including its storage	New requirements were added to the non-SIP version (i.e. sections 6.3.8 and 6.3.9). Therefore, non-SIP version is more stringent than the SIP version.

Requirement Category	SIP Version of Rule 4623 (5/19/05)	Non-SIP Version of Rule 4623 (6/15/23)	Conclusion
	and API gravity. The requirement of 6.3.1 shall not apply to fixed roof tanks equipped with a vapor recovery system, external floating roof tanks, or internal floating roof tanks that meet the requirements of this rule. 6.3.2 An operator whose emergency standby tanks are required to comply with Section 4.2.1 shall maintain records showing date(s) the organic liquid is first introduced into each tank, and date(s) each tank is fully drained. Such records shall be submitted to the APCO 60 days prior to permit renewal. 6.3.3 An operator whose temporary tanks are required to comply with Section 4.2.2 shall maintain records showing the tank capacity and duration of time that the tank is used. 6.3.4 Small producers shall maintain monthly records of average daily crude oil production to determine compliance with Section 3.29. The monthly crude oil production records required by the Department of Oil, Gas, and Geothermal Resources (DOGGR) may be used to comply with the above requirements. Small producers shall also maintain monthly records of the average daily crude oil throughput of each tank to demonstrate compliance with Sections 4.3, and/or 5.1.2. Operators shall submit the required monthly records upon the request of the APCO. 6.3.5 An operator shall submit the reports of the floating roof tank inspections conducted in accordance with the requirements of Section 6.1 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 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 shall be made available upon request by the APCO. The inspection report shall contain all information necessary to demonstrate compliance with the provisions of this rule, including the following: 6.3.5.1 Date of inspection and names and titles of company personnel doing the inspection. 6.3.5.2 Tank identification numbers and PTO number. 6.3.5.3 Measurements of the gaps between the tank shell and primary and secondary seals. 6.3.5.4 Leak-free status of tanks and floating roof deck fittings. Records of leak-free status shall include the vapor concentration values measured in ppmv.	temperature, TVP, and API gravity. The requirement of 6.3.1 shall not apply to fixed roof tanks equipped with a vapor recovery system, external floating roof tanks, or internal floating roof tanks that meet the requirements of this rule. 6.3.2 An operator whose emergency standby tanks are required to comply with Section 4.2.1 shall maintain records showing date(s) the organic liquid is first introduced into each tank, and date(s) each tank is fully drained. Such records shall be submitted to the APCO 60 days prior to permit renewal. 6.3.3 An operator whose temporary tanks are required to comply with Section 4.2.2 shall maintain records showing the tank capacity and duration of time that the tank is used. 6.3.4 Small producers shall maintain monthly records of average daily crude oil production to determine compliance with Section 3.39. The monthly crude oil production records required by the California Geologic Energy Management Division (CalGEM) may be used to comply with the above requirements. Small producers shall also maintain monthly records of the average daily crude oil throughput of each tank to demonstrate compliance with Sections 4.3, and/or 5.1.2. Operators shall submit the required monthly records upon the request of the APCO. 6.3.5 An operator shall submit the reports of the floating roof tank inspections conducted in accordance with the requirements of Section 6.1 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 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 shall be made available upon request by the APCO. The inspection report shall contain all information necessary to demonstrate compliance with the provisions of this rule, including the following: 6.3.5.1 Date of inspection and names and titles of company personnel doing the inspection. 6.3.5.2 Tank identification numbers and PTO number. 6.3.5.3 Measurements of the gaps between the tank shell and primary and secondary seals.	

Requirement Category	SIP Version of Rule 4623 (5/19/05)	Non-SIP Version of Rule 4623 (6/15/23)	Conclusion
	6.3.5.5 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 this rule. 6.3.5.6 Any corrective actions or repairs performed on the tank in order to comply with this rule and the date such actions were taken. 6.3.6 An operator shall submit the records of TVP and API gravity testing conducted in accordance with the requirements of Section 6.2 to the APCO within 45 days after the date of testing. The record shall include the tank identification number, PTO number, type of stored organic liquid, TVP and API gravity of the stored organic liquid, test methods used, and a copy of the test results. An operator who uses the information in Appendix A to demonstrate the TVP and/or API gravity of the stored organic liquid shall submit information to the APCO within 45 days after the date that the APCO within 45 days after the date that the type of organic liquid stored in the tank has been determined. 6.3.7 An operator shall maintain the records of the external floating roof or internal floating roof landing activities that are performed pursuant to Sections 5.3.1.3 and 5.4.3. The records shall include information on the TVP, API gravity, and 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. The operator shall keep the records at the facility (or on-site) for a period of five years. The records shall be made available to the APCO upon request.	6.3.5.4 Leak-free status of tanks and floating roof deck fittings. Records of leak-free status shall include the vapor concentration values measured in ppmv in accordance with the Test Method in Section 6.4.8. 6.3.5.5 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 this rule. 6.3.5.6 Any corrective actions or repairs performed on the tank in order to comply with this rule and the date such actions were taken. 6.3.6 An operator shall submit the records of TVP and API gravity testing conducted in accordance with the requirements of Section 6.2 to the APCO within 45 days after the date of testing. The record shall include the tank identification number, PTO number, type of stored organic liquid, TVP and API gravity of the stored organic liquid, test methods used, and a copy of the test results. An operator who uses the information in Appendix A to demonstrate the TVP and/or API gravity of the stored organic liquid shall submit information to the APCO within 45 days after the date that the type of organic liquid stored in the tank has been determined. 6.3.7 An operator shall maintain the records of the external floating roof or internal floating roof landing activities that are performed pursuant to Sections 5.3.1.3 and 5.4.3. The records shall include information on the TVP, API gravity, and 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. The operator shall keep the records at the facility (or on-site) for a period of five years. The records shall be made available to the APCO upon request. 6.3.8 An operator who is demonstrating that their tank PTE emissions are below six (6) tons of VOC per year or actual emissions are below four (4) tons of VOC per year shall keep an accurate record of each organic liquid stored in each tank, including storage temperature, TVP, and monthly throughput. 6.3.9 Inspection Log	

Requirement Category	SIP Version of Rule 4623 (5/19/05)	Non-SIP Version of Rule 4623 (6/15/23)	Conclusion
		The operator shall maintain an inspection log containing, at a minimum, all of the following information: 6.3.9.1 Total number of components inspected, and total number and percentage of leaking components found during inspection. 6.3.9.2 Location, type, name or description of each leaking component and description of any unit where the leaking component is found. 6.3.9.3 Date of leak detection and method of leak detection. 6.3.9.4 For gas leaks, record the leak concentration in ppmv, and for liquid leaks record the volume. 6.3.9.5 Date of repair, replacement, or removal from operation of leaking components. 6.3.9.6 After the component is repaired or is replaced, the date of re-inspection and the leak concentration in ppmv. 6.3.9.7 Inspector's name, business mailing address, and business telephone number. 6.3.9.8 The facility operator responsible for the inspection and repair program shall sign and date the inspection log certifying the accuracy of the information recorded in the log. 6.3.9.9 Records of each calibration of the portable hydrocarbon detection instrument utilized for inspecting components, including a copy of current calibration gas certification from the vendor of said calibration gas cylinder, the date of calibration, concentration of calibration gas, instrument reading of calibration gas before adjustment, instrument reading of calibration gas after adjustment, calibration gas expiration date, and calibration gas cylinder pressure at the time of calibration. 6.3.9.10 Copies of all records required by Section 6.3 of this rule shall be retained for a minimum of five (5) years after the date of an entry, and the records shall be made available to the APCO, CARB, and US EPA upon request.	
	6.4 Test Methods The following test methods shall be used unless otherwise approved by the APCO and the United States Environmental Protection Agency (US EPA). 6.4.1 Analysis of halogenated exempt compounds shall be conducted using California Air Resources Board (CARB) Method 432.	6.4 Test Methods The following test methods shall be used unless otherwise approved by the APCO and the United States Environmental Protection Agency (US EPA). 6.4.1 Analysis of halogenated exempt compounds shall be conducted using California Air Resources Board (CARB) Method 432.	Section 6.4.8.1 was added to the non-SIP version. Therefore, non-SIP version is more stringent than the SIP version.

Requirement Category	SIP Version of Rule 4623 (5/19/05)	Non-SIP Version of Rule 4623 (6/15/23)	Conclusion
	6.4.2 The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D287-92 (2000)el "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057-95 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." 6.4.3 Except for crude oil subject to Section 6.4.4, the TVP of any organic liquid shall be determined by measuring the Reid Vapor Pressure (RVP) using ASTM D 323-94 (Test Method for Vapor Pressure for Petroleum Products), and converting the RVP to TVP at the tank's maximum organic liquid storage temperature. The conversion of RVP to TVP shall be done in accordance with the procedures in Appendix B. Appendix B is an excerpt from the oil and gas section of "ARB Technical Guidance Document to the Criteria and Guidelines Regulation for AB 2588", dated August 1989. As an alternative to using ASTM D 323-94, the TVP of crude oil with an API gravity range of greater than 26° up to 30° may be determined by using other equivalent test methods approved by APCO, ARB and US EPA. 6.4.4 The latest version of the Lawrence Berkeley National Laboratory "Test Method for Vapor Pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and US EPA, shall be used to determine the TVP of crude oil with an API gravity of 26° or less, or for any API gravity that is specified in this test method. 6.4.5 An operator may use the information in Appendix A to determine the TVP of the stored organic liquid in a tank provided the storage temperature listed in Appendix A is not exceeded at any time. 6.4.6 The control efficiency of any VOC destruction device, measured and calculated as carbon, shall be determined by US EPA Method 25, except when the outlet concentration must be below 50 ppm in order to meet the standard, in which case US EPA Method 25a may be used. US EPA Method 18 may be used in lieu of US EPA Method 25 or US EPA Method 25A provided the identity and approximate concentrations of the analytes/compounds in the sample gas stream are known before analysis with the gas chromatograph and the gas chromatograph is calibrated for each of the known	6.4.2 The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D287-12b (reapproved 2019)el "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method) or ASTM Method D4052-18A "Standard Test Method for Density, Relative Density and API Gravity of Liquids by Digital Density meter," Sampling for API gravity shall be performed in accordance with ASTM Method D 4057-95 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." 6.4.3 Except for crude oil subject to Section 6.4.4, the TVP of any organic liquid shall be determined by measuring the Reid Vapor Pressure (RVP) using ASTM D 323-94 (Test Method for Vapor Pressure for Petroleum Products), and converting the RVP to TVP at the tank's maximum organic liquid storage temperature. The conversion of RVP to TVP shall be done in accordance with the procedures in Appendix B. Appendix B is an excerpt from the oil and gas section of "ARB Technical Guidance Document to the Criteria and Guidelines Regulation for AB 2588", dated August 1989. As an alternative to using ASTM D 323-94, the TVP of crude oil with an API gravity range of greater than 26° up to 30° may be determined by using other equivalent test methods approved by APCO, ARB and US EPA. 6.4.4 The latest version of the Lawrence Berkeley National Laboratory "Test Method for Vapor Pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and US EPA, shall be used to determine the TVP of crude oil with an API gravity of 26° or less, or for any API gravity that is specified in this test method. 6.4.5 An operator may use the information in Appendix A to determine the TVP of the stored organic liquid in a tank provided the storage temperature listed in Appendix A is not exceeded at any time. 6.4.6 The control efficiency of any VOC destruction device, measured and calculated as carbon, shall be determined by US EPA Method 25, except when the outlet concentration must be below 50 ppm in order to meet the standard, in which case US EPA Method 25a may be used. US EPA Method 18 may be used in lieu of US EPA Method	US EPA Method 25a may be used.

Requirement Category	SIP Version of Rule 4623 (5/19/05)	Non-SIP Version of Rule 4623 (6/15/23)	Conclusion								
7.0 Compliance Schedule	analytes/compounds to ensure that the VOC concentrations are neither under- or over-reported. 6.4.7 Analysis of halogenated exempt compounds shall be analyzed by ARB Method 422 "Exempt Halogenated VOCs in Gases September 12, 1990". 6.4.8 Measurements of a gas-leak concentration shall be determined by US EPA Method 21.	25 or US EPA Method 25A provided the identity and approximate concentrations of the analytes/compounds in the sample gas stream are known before analysis with the gas chromatograph and the gas chromatograph is calibrated for each of the known analytes/compounds to ensure that the VOC concentrations are neither under- or over-reported. 6.4.7 Analysis of halogenated exempt compounds shall be analyzed by ARB Method 422 "Exempt Halogenated VOCs in Gases September 12, 1990". 6.4.8 Measurements of a gas-leak concentration shall be determined by US EPA Method 21. 6.4.8.1 After June 30, 2024, All leaks detected with the use of an OGI instrument shall be measured using EPA Reference Method 21 within two (2) calendar days of initial OGI leak detection or within 14 calendar days of initial OGI leak detection of an inaccessible or unsafe to monitor component to determine compliance with the leak thresholds and repair timeframes specified in Table 9.									
	7.1 Any tank subject to the requirements of this rule that is installed or constructed on and after May 19, 2005, shall be in full compliance with this rule upon initial operation, and thereafter.	7.1 Any tank that is exempted under Section 4.0 that becomes subject to the VOC control system requirements of this rule through the loss of exemption status, shall be in full compliance with this rule on the date the exemption status is lost.		Obsolete language was removed; therefore, the non-SIP version is as stringent as the SIP version.							
	7.2 Any tank that is exempted under Section 4.0 that becomes subject to the VOC control system requirements of this rule through the loss of exemption status, shall be in full compliance with this rule on the date the exemption status is lost.	7.2 An operator shall comply with this rule in accordance with the schedule specified below: <table><caption>Table 10 – Compliance Schedule</caption><tr><th></th><th>Authority to Construct</th><th>Full Compliance</th></tr><tr><td>Leak Standard (Table 2), Inspection and Re-Inspection Requirements in Section 5.9</td><td>N/A</td><td>July 1, 2024</td></tr><tr><td>Tanks required to comply with Section 5.1.1.1, 5.1.2.1, or required to install a pressure-relief vacuum valve</td><td>March 31, 2024</td><td>12 months after issuance of ATC</td></tr></table>		Authority to Construct	Full Compliance	Leak Standard (Table 2), Inspection and Re-Inspection Requirements in Section 5.9	N/A	July 1, 2024	Tanks required to comply with Section 5.1.1.1, 5.1.2.1, or required to install a pressure-relief vacuum valve	March 31, 2024	12 months after issuance of ATC
	Authority to Construct	Full Compliance									
Leak Standard (Table 2), Inspection and Re-Inspection Requirements in Section 5.9	N/A	July 1, 2024									
Tanks required to comply with Section 5.1.1.1, 5.1.2.1, or required to install a pressure-relief vacuum valve	March 31, 2024	12 months after issuance of ATC									

District Rule 4623 was amended (6/15/23). As analyzed, each amended section of the non-SIP version of the rule is at least as stringent as, or more stringent than the corresponding section of the SIP version of the rule. Therefore, it is concluded that overall the non-SIP version of the rule is more stringent than the SIP version of the rule.