San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

DEC 10 2012

Carlton Jordan
Shell Pipeline Company, LP
20945 S. Wilmington Ave
Carson, CA 90810

Re: Notice of Final Action - Title V Permit
District Facility # S-77
Project # S-1112459

Dear Mr. Jordan:

The District has issued the Final Title V Permit for Shell Pipeline Company, LP. The preliminary decision for this project was made on October 26, 2012. A summary of the comments and the District's response to each comment is included as an attachment to the engineering evaluation. These permits address all deficiencies cited by the EPA in their objection.

The public notice for issuance of the Final Title V Permit will be published approximately three days from the date of this letter.

Thank you for your cooperation in this matter. Should you have any questions, please contact Mr. Leonard Scandura, Permit Services Manager, at (661) 392-5500.

Sincerely,

David Warner
Director of Permit Services

DW: RR/cp

Attachments

Seyed Sadredin
Executive Director/Air Pollution Control Officer

Northern Region
4800 Enterprise Way
Modesto, CA 95356-8718
Tel: (209) 557-6400 FAX: (209) 557-6475

Central Region (Main Office)
1990 E. Gettysburg Avenue
Fresno, CA 93726-0244
Tel: (559) 230-6000 FAX: (559) 230-6061

Southern Region
34946 Flyover Court
Bakersfield, CA 93308-9725
Tel: 661-392-5500 FAX: 661-392-5585

www.valleyair.org www.healthyairliving.com

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San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

DEC 1 0 2012

Gerardo C. Rios, Chief
Permits Office (AIR-3)
U.S. EPA - Region IX
75 Hawthorne St
San Francisco, CA 94105

Re: Notice of Final Action - Title V Permit
District Facility # S-77
Project # S-1112459

Dear Mr. Rios:

The District has issued the Final Title V Permit for Shell Pipeline Company, LP. The preliminary decision for this project was made on October 26, 2012. A summary of the comments and the District's response to each comment is included as an attachment to the engineering evaluation.

The public notice for issuance of the Final Title V Permit will be published approximately three days from the date of this letter.

I would like to thank you and your staff for working with us. We appreciate your concurrence with this action. Should you have any questions, please contact Mr. Leonard Scandura, Permit Services Manager, at (661) 392-5500.

Sincerely,

David Warner
Director of Permit Services

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AIR POLLUTION CONTROL DISTRICT

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DEC 1 0 2012

Mike Tollstrup, Chief
Project Assessment Branch
Air Resources Board
P O Box 2815
Sacramento, CA 95812-2815

Re: Notice of Final Action - Title V Permit
District Facility # S-77
Project # S-1112459

Dear Mr. Tollstrup:

The District has issued the Final Title V Permit for Shell Pipeline Company, LP. The preliminary decision for this project was made on October 26, 2012. A summary of the comments and the District's response to each comment is included as an attachment to the engineering evaluation. These permits address all deficiencies cited by the EPA in their objection.

The public notice for issuance of the Final Title V Permit will be published approximately three days from the date of this letter.

I would like to thank you and your staff for working with us. Should you have any questions, please contact Mr. Leonard Scandura, Permit Services Manager, at (661) 392-5500.

Sincerely,

David Warner
Director of Permit Services

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Bakersfield Californian

SAN JOAQUIN VALLEY
AIR POLLUTION CONTROL DISTRICT
NOTICE OF FINAL DECISION TO ISSUE
FEDERALLY MANDATED OPERATING PERMIT

NOTICE IS HEREBY GIVEN that the San Joaquin Valley Air Pollution Control District has made its final decision to issue the initial Federally Mandated Operating Permit to Shell Pipeline Company, LP for its pipeline pump station Lost Hills, California.

The District's analysis of the legal and factual basis for this proposed action, project #S-1112459, is available for public inspection at http://www.valleyair.org/notices/public_notices_idx.htm and the District office at the address below. For additional information regarding this matter, please contact Mr. Leonard Scandura, Permit Services Manager, at (661) 392-5500, or contact David Warner, Director of Permit Services, in writing at SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT, 1990 E. GETTYSBURG AVE, FRESNO, CA 93726-0244.

SAN JOAQUIN VALLEY
UNIFIED AIR POLLUTION CONTROL DISTRICT

Final Version
Shell Pipeline Company, LP
Facility: S-77

INITIAL TITLE V PERMIT
PROPOSED ENGINEERING EVALUATION
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INITIAL TITLE V APPLICATION REVIEW

Project #: S-1112459
Deemed Complete: June 16, 2011

Engineer: Robert Rinaldi
Date: October 17, 2012

Facility Number:	S-77
Facility Name:	Shell Pipeline Company, LP
Mailing Address:	20945 S. Wilmington Ave. Carson, CA 90810
Contact Name:	Carlton Jordan
Phone:	(310) 816-2060
Responsible Official:	Michael Bringham
Title:	Operations Manager

I. PROPOSAL

Shell Pipeline Company, LP is proposing that an initial Title V permit be issued for its existing Carneras Pump Station near Lost Hills, CA. The purpose of this evaluation is to identify all applicable requirements, determine if the facility will comply with those applicable requirements, and to provide the legal and factual basis for proposed permit conditions.

II. FACILITY LOCATION

Shell Pipeline Company's Carneras Pump Station is located near Lost Hills, CA at SW/4, Sec. 34, T27S, R20E.

III. EQUIPMENT LISTING

A detailed facility printout listing all permitted equipment at the facility is shown in Attachment B.

A summary of the exempt equipment categories which describe the insignificant activities or equipment at the facility not requiring a permit is shown in Attachment C. This equipment is not exempt from facility-wide requirements.

IV. GENERAL PERMIT TEMPLATE USAGE

The applicant has requested to utilize template #SJV-UM-0-3, Facility-Wide Umbrella General Permit Template, for unit S-77-0-2. Based on the information submitted on the Template Qualification Form, the applicant qualifies for the use of this template.

V. SCOPE OF EPA AND PUBLIC REVIEW

Certain segments of the proposed Operating Permit are based on model general permit templates that have been previously subject to EPA and public review. The terms and conditions from the model general permit templates are included in the proposed permit and are not subject to further EPA and public review.

For permit applications utilizing model general permit templates, public and agency comments on the District's proposed actions are limited to the applicant's eligibility for model general permit template, applicable requirements not covered by the model general permit template, and the applicable procedural requirements for issuance of Title V Operating Permits.

The following permit conditions, including their underlying applicable requirements, originate form model general permit templates and are not subject to further EPA or public review:

- Conditions 1 through 42 on facility wide requirements S-77-0-1.

VI. APPLICABLE REQUIREMENTS ADDRESSED BY GENERAL PERMIT TEMPLATES

District Rule 1100, Equipment Breakdown (amended December 17, 1992) (Non-SIP replacement for Kern County Rule 111)

District Rule 1160, Emission Statements (adopted November 18, 1992)

District Rule 2010, Permits Required (amended December 17, 1992)

District Rule 2020, Exemptions (amended August 18, 2011)

District Rule 2031, Transfer of Permits (amended December 17, 1992)

District Rule 2040, Applications (amended December 17, 1992)

District Rule 2070, Standards for Granting Applications (amended December 17, 1992)

District Rule 2080, Conditional Approval (amended December 17, 1992)

District Rule 2520, Federally Mandated Operating Permits, Sections 5.2, 9.1.1, 9.4, 9.5, 9.7, 9.8, 9.9, 9.13.1, 9.13.2, 9.16, and 10.0 (amended June 21, 2001)

District Rule 4101, Visible Emissions (amended February 17, 2005)

District Rule 4601, Architectural Coatings (amended December 17, 2009)

District Rule 8021, Construction, Demolition Excavation, Extraction, and Other Earthmoving Activities (amended August 19, 2004)

District Rule 8031, Bulk Materials (amended August 19, 2004)

District Rule 8041, Carryout and Trackout (amended August 19, 2004)

District Rule 8051, Open Areas (amended August 19, 2004)

District Rule 8061, Paved and Unpaved Roads (amended August 19, 2004)

District Rule 8071, Unpaved Vehicle/Equipment Traffic Areas (amended September 16, 2004)

40 CFR Part 82, Subpart B and F, Stratospheric Ozone

40 CFR Part 61, Subpart M, National Emissions Standard for Asbestos

VII. APPLICABLE REQUIREMENTS NOT ADDRESSED BY GENERAL PERMIT TEMPLATES

District Rule 2201, New and Modified Stationary Source Review Rule (amended April 21, 2011)

District Rule 2520, Federally Mandated Operating Permits (amended June 21, 2001)

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

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

40 CFR 60 Subpart Kb—Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984

District Rule 4305, Boilers, S.G. and heaters - Phase 2 (amended 8/21/03)

District Rule 4306, Boilers, S.G. and heaters - Phase 2 (amended 10/16/08)

District Rule 4320, Advanced Emission Reduction Options For Boilers, Steam Generators, And Process Heaters Greater Than 5.0 Mmbtu/Hr (amended 10/16/08)

District Rule 4623, Storage of Organic Liquids (amended 5/19/05)

District Rule 4701, Internal Combustion Engines – Phase 1 (amended 8/21/03)

District Rule 4702, Internal Combustion Engines – Phase 2 (amended 8/18/11)

District Rule 4801, Sulfur Compounds (amended 12/17/92)

VIII. EVALUATION OF POTENTIALLY-APPLICABLE REQUIREMENTS

In preparing this evaluation, there were several regulations that could have affected this stationary source. The applicability of these regulations were evaluated and found to not apply to the facility's operation. The purpose of this section is to explain why these regulations were found to not apply in the specific circumstances of this stationary source.

40 CFR 63 Subpart EEEE—National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non-Gasoline)

Overall, 40 CFR 63 relates to hazardous air pollutants (HAPs). Subpart EEEE applies to facilities that are major sources of HAPs. Since the facility is not a major source for HAPs, the provisions of this subpart do not apply to the operations at this facility.

IX. 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.

This facility is subject to District Rule 4102 (Nuisance) that is not currently federally enforceable. For this facility, Condition 1 of the requirements for the facility-wide permit S-77-0-1 is based District Rule 4102 and the condition is not Federally Enforceable through Title V.

IX. COMPLIANCE

A. Requirements Addressed by Model General Permit Templates

The applicant is proposing to use a general permit template to address federally applicable facility-wide requirements. Section IV of template SJV-UM-0-3 includes a demonstration of compliance for all applicable requirements. Template conditions have been added to the facility wide requirements (draft PTO S-77-0-1) as condition numbers 1 through 42 to assure compliance with these requirements.

B. Requirements Not Addressed by Model General Permit Templates

1. District Rule 2201, New and Modified Stationary Source Review Rule (District NSR Rule)

The permit units were subject to the District NSR Rule upon application for Authority to Construct (ATC). In accordance with the White Paper for Streamlined Development of Part 70 Permit Applications, dated July 10, 1995, conditions from the resulting PTO were addressed to define how NSR permit terms should be incorporated into the Title V permit.

a. 55,000 BBL riveted internal floating roof storage tank #55GI5 with metallic shoe primary seal and secondary wiper seal (S-77-9-7)

- Conditions 1 through 10 comply with the requirements of this rule.

b. 150,000 BBL welded external floating roof crude oil storage tank with metallic shoe primary seal and secondary wiper seal (S-77-11-6)

- Conditions 1 through 8 comply with the requirements of this rule.

c. 460 BHP Caterpillar Model 3406 diesel-fired emergency IC engine powering a firewater pump (Carneras Pump Station) (S-77-13-1)

- Conditions 1, 2 and 6 comply with the requirements of this rule.

d. 126,000 BBL welded external floating roof tank #126gl6 with metallic shoe primary seal and secondary wiper seal (S-77-14-7)

- Conditions 1 through 9 comply with the requirements of this rule.

2. District Rule 2520, Federally Mandated Operating Permits

The purpose of this rule is to provide an administrative mechanism for issuing operating permits for new and modified sources of air contaminants in accordance with requirements of 40 CFR Part 70; an administrative mechanism for issuing renewed operating permits for sources of air contaminants in accordance with requirements of 40 CFR Part 70; an administrative mechanism for revising, reopening, revoking,

and terminating operating permits for sources of air contaminants in accordance with requirements of 40 CFR Part 70; an administrative mechanism for incorporating requirements authorized by preconstruction permits issued under District Rule 2201 (New and Modified Stationary Source Review) in a Part 70 permit as administrative amendments, provided that such permits meet procedural requirements substantially equivalent to the requirements of 40 CFR 70.7 and 70.8, and compliance requirements substantially equivalent to those contained in 40 CFR 70.6; and the applicable federal and local requirements to appear on a single permit.

Section 5.3.2 requires that the permitee file an application for a permit modification prior to implementing the requested change. This also applies to sources not previously subject to the requirements of this rule that become subject to the requirements due to a minor or significant modification.

- The applicant has filed the application for the change in status from not subject to Part 70 to subject to Part 70 as evidenced by this evaluation.

Mandatory Greenhouse Gas Reporting

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.

3. District Rule 4305, Boilers, S.G. and heaters - Phase 2

The purpose of this rule is to limit emissions of oxides of nitrogen (NOx) and carbon monoxide (CO) from boilers, steam generators, and process heaters. This rule applies to any gaseous fuel or liquid fuel fired boiler, steam generator, or process heater with a rated heat input greater than 5 million Btu per hour.

a. dormant 12.5 MMBtu/hr gas-fired JF thermal heater

- Conditions 4 through 9 comply with the requirements of this rule

4. District Rule 4306, Boilers, S.G. and heaters - Phase 3

The purpose of this rule is to limit emissions of oxides of nitrogen (N0x) and carbon monoxide (CO) from boilers, steam generators, and process heaters.

a. dormant 12.5 MMBtu/hr gas-fired JF thermal heater

- Conditions 1 through 3 require that this non-compliant dormant unit must receive an ATC and be modified to comply with this Rule before the permit unit may be operated.

5. District Rule 4320, Advanced Emission Reduction Options For Boilers, Steam Generators, and Process Heaters Greater Than 5.0 MMBtu/hr.

The purpose of this rule is to limit emissions of oxides of nitrogen (NOx), carbon monoxide (CO), oxides of sulfur (SO2), and particulate matter 10 microns or less (PM10) from boilers, steam generators, and process heaters.

a. dormant 12.5 MMBtu/hr gas-fired JF thermal heater

- Conditions 1 through 3 require that this non-compliant dormant unit must receive an ATC and be modified to comply with this Rule before the permit unit may be operated.

6. District Rule 4623, Storage of Organic Liquids

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, pursuant to Section 2.0, Applicability. Operators with tanks subject to control requirements are required to control emissions from the stored liquid through installing a pressure-vacuum relief valve, or an internal floating roof, or an external floating roof, or vent the tank to either a vapor recovery system, or a pressure vessel. The options available to the operator depend on the size of the tank and the vapor pressure of the stored organic liquid. The applicant has elected to install one internal floating roof storage tank with a metallic shoe primary seal and secondary wiper seal and two welded external floating roof crude oil storage tank with metallic shoe primary seal and secondary wiper seal as the control technique for the facility's three crude oil storage tanks.

The following conditions listed in the attached draft Title V permit comply with the requirements of this rule.

Permit S-77-9-7:

Conditions 11 through 39, 41 and 43.

Permit S-77-11-5:

Conditions 9, 12 through 39 and 43 through 46.

Permit S-77-14-6:

Conditions 10, 12, 14 through 40 and 44 through 47.

7. District Rule 4701, Internal Combustion Engines – Phase 1

The purpose of this rule is to limit the emissions of nitrogen oxides (NOx), carbon monoxide (CO), and volatile organic compounds (VOC) from internal combustion engines. Except as provided in Section 4.0, the provisions of this rule apply to any internal combustion engine, rated greater than 50 bhp that requires a Permit to Operate (PTO).

There is one (1) diesel fired emergency fired IC engine involved with this project. Pursuant to Section 2.0 of Rule 4701, this engine is subject to District Rule 4701 – *Internal Combustion Engines – Phase 1*. In addition, this engine is also subject to District Rule 4702 – *Internal Combustion Engines*.

Since the emission limits of District Rule 4702 and all other requirements are equivalent or more stringent than District Rule 4701 requirements, compliance with Rule 4702 requirements will satisfy the requirements of Rule 4701. No further discussion is required.

8. District Rule 4702, Internal Combustion Engines

The SIP approved version of Rule 4702 are is the version amended on 1/18/07. Rule 4702 was amended on 8/18/11, however, these amendments have not yet been approved into the SIP.

The 8/19/11 amendments established more stringent NOx emission limits and impose fuel sulfur requirements for non-agricultural operation spark ignited IC engines. Compliance with these requirements is phased in beginning in 2014. This engine is an emergency IC engine and the conditions below will insure compliance with the emergency engine requirements of Rule 4702.

a. 460 BHP Caterpillar Model 3406 diesel-fired emergency IC engine powering a firewater pump (Carneras Pump Station) (S-77-13-1)

- Conditions 5, 7, 8, 9 and 14 comply with the requirements of this rule.

9. District Rule 4801, Sulfur Compounds

The purpose of this rule is to limit the emissions of sulfur compounds. A maximum concentration and test method are specified.

Sections 3.1 and 3.2 specify the emission limits and the test methods used to determine such emissions. District Rule 4801 has been submitted to the EPA to replace Kern County Rule 407 but is not SIP approved. District Rule 4801 is at least as stringent as Kern County Rule 407, as demonstrated in the table below:

REQUIREMENTS	District Rule 4801	Kern County Rule 407
A person shall not discharge into the atmosphere sulfur compounds, which would exist as a liquid or gas at standard conditions, exceeding in concentration at the point of discharge: two-tenths (0.2) percent by volume calculated as sulfur dioxide (SO_2), on a dry basis averaged over 15 consecutive minutes	X	X
EPA Method 8 and ARB Method 1-100 (Continuous Emission Stack Sampling) shall be used to determine such emissions	X	

Diesel-Fired Internal Combustion (IC) Engine

Diesel fired units at this facility are limited to the combustion of diesel fuel with a sulfur content of less than or equal to 0.0015% by weight. The following demonstration illustrates, by stoichiometric mass balance that the proposed limitation is more stringent than either District Rule 4801 or Kern County Rule 407.

Rule 4801 requires that sulfur compound emissions (as SO_2) shall not exceed 0.2% by volume. Using the ideal gas equation, the sulfur compound emissions are calculated as follows:

Volume SO_2 = (n x R x T) ÷ P
n = moles SO_2
T (standard temperature) = 60 °F or 520 °R
R (universal gas constant) = $\frac{10.73\,psi \cdot ft^3}{lb \cdot mol \cdot °R}$

$$\frac{0.000015\ lb-S}{lb-fuel} \times \frac{7.1\ lb}{gal} \times \frac{64\ lb-SO_2}{32\ lb-S} \times \frac{1\ MMBtu}{9{,}051\ scf} \times \frac{1\ gal}{0.137\ MMBtu} \times \frac{lb-mol}{64\ lb-SO_2} \times \frac{10.73\ psi-ft^3}{lb-mol-°R} \times \frac{520°R}{14.7\ psi} \times 1{,}000{,}000 = 1.0\ ppmv$$

Since 1.0 ppmv is ≤ 2,000 ppmv, this engine is expected to comply with Rule 4801.

a. 460 BHP Caterpillar Model 3406 diesel-fired emergency IC engine powering a firewater pump (Carneras Pump Station) (S-77-13-1)

- Condition 6 complies with the requirements of this rule.

10. 40 CFR Part 60, Subpart K, Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, Reconstruction, or Modification commenced after June 11, 1973, and Prior to May 19, 1978

The tank (S-77-9) was constructed prior to June 11, 1973 and has not undergone reconstruction or modification pursuant to the definitions in 40 CFR Part 60.2. Therefore, this subpart is not applicable.

The tank (S-77-11) was constructed, modified or reconstructed after July 23, 1984. Therefore, this subpart is not applicable.

The tank (S-77-14) was constructed, modified or reconstructed after July 23, 1984. Therefore, this subpart is not applicable.

11. 40 CFR Part 60, Subpart Ka, Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, Reconstruction, or Modification commenced after May 18, 1978, and Prior to July 23, 1984

The tank (S-77-9) was constructed prior to June 11, 1973 and has not undergone reconstruction or modification pursuant to the definitions in 40 CFR Part 60.2. Therefore, this subpart is not applicable.

The tank (S-77-11) was constructed, modified or reconstructed after July 23, 1984. Therefore, this subpart is not applicable.

The tank (S-77-14) was constructed, modified or reconstructed after July 23, 1984. Therefore, this subpart is not applicable.

12. 40 CFR Part 60, Subpart Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for which Construction, Reconstruction, or Modification commenced after July 23, 1984

The tank (S-77-9) was constructed prior to June 11, 1973 and has not undergone reconstruction or modification pursuant to the definitions in 40 CFR Part 60.2. Therefore, this subpart is not applicable.

The tank (S-77-11) was constructed, modified or reconstructed after July 23, 1984. Therefore, this subpart is applicable.

- Conditions 7, 10, 12 through 21, 23, 25, 28 through 32, 40 through 44, 46 through 49, comply with the requirements of this regulation.

The tank (S-77-14) was constructed, modified or reconstructed after July 23, 1984. Therefore, this subpart is applicable.

- Conditions 8, 11, 13 through 22, 24, 26, 29 through 33, 41 through 45, 47 through 50, comply with the requirements of this regulation.

13. 40 CFR Part 60, Subpart JJJJ, Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

The provisions of this subpart are applicable to owners and operators of stationary spark ignition (SI) internal combustion engines (ICE) that commence construction, reconstruction, or modification after June 12, 2006.

The emergency diesel-fired IC engine (S-77-13) is not spark ignited. Therefore, this subpart is not applicable.

14. 40 CFR Part 63, Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

Subpart ZZZZ establishes national emission limitations and operating limitations for hazardous air pollutants (HAP) emitted from stationary reciprocating internal combustion engines (RICE) located at major and area sources of HAP emissions. This subpart also establishes requirements to demonstrate initial and continuous compliance with the emission limitations and operating limitations.

Owners or Operators of a stationary RICE at a major or area source of HAP emissions are subject to this subpart, except if the stationary RICE is being tested at a stationary RICE test cell/stand. This facility is an area source of HAP emissions; therefore, this subpart applies. As such, each RICE at this facility is subject to this subpart.

For engine S-77-13-1, conditions 5 and 13-26 assure compliance with the requirements of Subpart ZZZZ.

15. 40 CFR Part 64, Compliance Assurance Monitoring

This part requires Compliance Assurance Monitoring (CAM) for units that meet the following three criteria:

1. The unit has an emission limitation or standard for the pollutant.
2. The unit has add-on controls for the pollutant (e.g. flue gas recirculation, baghouses, catalytic oxidizers).
3. The unit has a pre-control potential to emit greater than the major source threshold for the pollutant.

The storage tanks have floating roofs, and floating roofs constitute passive emission control systems. Since the emission control system is passive, CAM does not apply to the tanks.

The emergency diesel IC engine does not have add-on controls and CAM does not apply.

X. 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

By using the model general permit template listed in Section IV of this evaluation, the applicant has requested that a permit shield be issued for requirements addressed in the template. The basis for each permit shield is discussed in the Permit Shield section of the template. The permit shields are included in the facility-wide permit S-77-0-1 as Conditions 40 and 41.

B. Requirements not Addressed by Model General Permit Templates

40 CFR 60 Subparts K, Ka, and Kb

The applicant has requested a permit shield from these federal standards. District staff has determined that these subparts do not apply to tank S-77-9. The applicant's request has been added as Condition 42 of the draft Title V permits for units. In addition, for tanks S-77-11 and S-77-14 it has been determined that Subparts K and Ka do not apply. Conditions 52 and 53, respectively, grant a permit shield.

XI. PERMIT CONDITIONS

See Initial Title V permit in Attachment A.

Attachment A

Initial Title V Permits

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

Permit to Operate

FACILITY: S-77 **EXPIRATION DATE:** 08/31/2017

LEGAL OWNER OR OPERATOR: SHELL PIPELINE COMPANY LP
MAILING ADDRESS: 20945 S WILMINGTON AVE
CARSON, CA 90810-1039

FACILITY LOCATION: CARNERAS PUMP STATION
LOST HILLS, CA

FACILITY DESCRIPTION: PETROLEUM PIPELINES

The Facility's Permit to Operate may include Facility-wide Requirements as well as requirements that apply to specific permit units.

This Permit to Operate remains valid through the permit expiration date listed above, subject to payment of annual permit fees and compliance with permit conditions and all applicable local, state, and federal regulations. This permit is valid only at the location specified above, and becomes void upon any transfer of ownership or location. Any modification of the equipment or operation, as defined in District Rule 2201, will require prior District approval. This permit shall be posted as prescribed in District Rule 2010.

Seyed Sadredin
Executive Director / APCO

David Warner
Director of Permit Services

Dec 6 2012 1:43PM – RINALDIR

San Joaquin Valley
Air Pollution Control District

FACILITY: S-77-0-1 **EXPIRATION DATE:** 08/31/2017

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, 9.9.1 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

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

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 Rule 8021 and 8011] 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 Rule 8031 and 8011] 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 Rule 8041 and 8011] 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 Rule 8051 and 8011] 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 Rule 8061 and Rule 8011] 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 Rule 8071 and Rule 8011] 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

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. On xx/xx/xxxx the intial Title V permit was issued. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin July 1st 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

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-77-1-8 **EXPIRATION DATE:** 08/31/2017

SECTION: SW34 **TOWNSHIP:** 27S **RANGE:** 20E

EQUIPMENT DESCRIPTION:
DORMANT 12.5 MMBTU/HR GAS-FIRED J F THERMAL HEATER

PERMIT UNIT REQUIREMENTS

1. No modification to this unit shall be performed without an Authority to Construct for such modification(s), except for changes specified in conditions below. [District Rule 2010] Federally Enforceable Through Title V Permit
2. The fuel supply line shall be physically disconnected from this unit. [District Rule 4306 and 4320] Federally Enforceable Through Title V Permit
3. This equipment shall not be operated for any reason until an Authority to Construct permit is issued approving all necessary retrofits required to comply with the applicable requirements of District Rule 4306 and all other applicable District regulations. [District Rule 4306 and 4320] Federally Enforceable Through Title V Permit
4. Unit shall be maintained and operated in accordance with the manufacturer's specifications and recommendations. [District Rule 4305] Federally Enforceable Through Title V Permit
5. Heater shall be fueled only on natural gas or LPG. [District Rule 4305] Federally Enforceable Through Title V Permit
6. Total heat input to this unit shall be less than 30 billion Btu per calendar year. [District Rule 4305] Federally Enforceable Through Title V Permit
7. Unit shall be tuned within 30 days of startup and at least once each calendar year in which it operates thereafter, by a qualified technician in accordance with Rule 4304. [District Rules 2201, 4304, 4305] Federally Enforceable Through Title V Permit
8. Unit shall be equipped with a non-resettable fuel flow meter. A master meter which serves more than one unit may be used, provided either: (1) the total heat input to all of the units is less than 30 billion Btu/yr, or (2) the permittee monitors the operation of each unit to determine the amount of fuel consumed by each unit. [District Rule 4305] Federally Enforceable Through Title V Permit
9. Permittee shall maintain accurate records of monthly and annual fuel usage, and of dates tuning is performed for a period of five years and shall make such records readily available for District inspection upon request. [District Rule 4305] Federally Enforceable Through Title V Permit
10. Particulate matter emissions shall not exceed 0.1 grain/dscf at operating conditions, nor 0.1 grain/dscf calculated to 12% CO2, nor 10 lb/hr. [District Rule 4201 and District Rule 4301, 5.1 and 5.2.3] Federally Enforceable Through Title V Permit
11. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-77-9-7 **EXPIRATION DATE:** 08/31/2017

SECTION: SW34 **TOWNSHIP:** 27S **RANGE:** 20E

EQUIPMENT DESCRIPTION:
55,000 BBL RIVETED INTERNAL FLOATING ROOF STORAGE TANK #55GL5 WITH METALLIC SHOE PRIMARY SEAL AND SECONDARY WIPER SEAL

PERMIT UNIT REQUIREMENTS

1. The true vapor pressure of liquid stored shall not exceed 9.2 psia. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Total throughput of organic liquid with TVP greater than 5.9 psia and less than or equal to 9.2 psia shall not exceed 190,000 bbl/day nor 85,000 bbl/day on a monthly average basis. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Total throughput of organic liquid with TVP less than or equal to 5.9 psia shall not exceed 360,000 bbl/day nor 180,000 bbl/day on a monthly average basis. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Combined total throughput of permits S-77-9, '-11, and '-14 shall not exceed 550,000 bbl/day nor 265,000 bbl/day on a monthly average basis. [District Rule 2201] Federally Enforceable Through Title V Permit
5. VOC emission rate from permits S-77-9, '-11, and '-14 shall not exceed 227.1 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. VOC emission rate from permits S-77-9, '-11, and '-14 shall not exceed 41,913 lb/yr. [District Rule 2201] Federally Enforceable Through Title V Permit
7. VOC emission rate shall not exceed 152.8 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Tank shall be equipped with operational temperature indicator. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Permittee shall maintain a record of the liquid stored, the period of storage, and the maximum true vapor pressure of that liquid during the respective storage period. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Permittee shall maintain records of maximum daily throughput and monthly average daily throughput. [District Rule 2201] Federally Enforceable Through Title V Permit
11. When storing organic liquids with true vapor pressure less than 0.5 psia, the requirements of Sections 5.3, 5.5 and 6.1 of District Rule 4623 (Amended May 19, 2005) shall not apply to this unit. This exemption applies to all conditions in this permit referencing Rule 4623 Sections 5.3, 5.5 or 6.1 only. [District Rule 4623, 2.0] Federally Enforceable Through Title V Permit
12. Before switching to the storage of organic liquids with true vapor pressure greater than or equal to 0.5 psia, all covers, seals, and lids shall be inspected by the facility operator to ensure compliance with the provisions of this permit. This includes all conditions containing District Rule 4623 reference. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13. The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel that has a fixed roof. The internal roof shall be floating on the liquid surface except during initial fill and when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible. Whenever the permittee intends to land the roof on it's legs, the permittee shall notify the APCO in writing at least five days prior to performing the work. [District Rule 4623] Federally Enforceable Through Title V Permit
14. Gaps between the tank shell and the primary seal shall not exceed 2 1/2 inches. [District Rule 4623] Federally Enforceable Through Title V Permit
15. The cumulative length of all primary seal gaps greater than 1 1/2 inches shall not exceed 10% of the circumference of the tank. [District Rule 4623] Federally Enforceable Through Title V Permit
16. The cumulative length of all primary seal gaps greater than 1/8 inch shall not exceed 30% of the circumference of the tank. [District Rule 4623] Federally Enforceable Through Title V Permit
17. No continuous gap in the primary seal greater than 1/8 inch wide shall exceed 10% of the tank circumference. [District Rule 4623] Federally Enforceable Through Title V Permit
18. No gap between the tank shell and the secondary seal shall exceed 1/2 inch. [District Rule 4623] Federally Enforceable Through Title V Permit
19. The cumulative length of all gaps between the tank shell and the secondary seal, greater than 1/8 inch shall not exceed 5% of the tank circumference. [District Rule 4623] Federally Enforceable Through Title V Permit
20. The metallic shoe-type seal shall be installed so that one end of the shoe extends into the stored liquid and the other end extends a minimum vertical distance of 18 inches above the stored liquid surface. [District Rule 4623] Federally Enforceable Through Title V Permit
21. The geometry of the metallic-shoe type seal shall be such that the maximum gap between the shoe and the tank shell shall be no greater than 5 inches for a length of at least 18 inches in the vertical plane above the liquid. [District Rule 4623] Federally Enforceable Through Title V Permit
22. There shall be no holes, tears, or openings in the secondary seal or in the primary seal envelope that surrounds the annular vapor space enclosed by the roof edge, seal fabric, and secondary seal. [District Rule 4623] Federally Enforceable Through Title V Permit
23. The secondary seal shall allow easy insertion of probes up to 2 1/2 inches in width in order to measure gaps in the primary seal. [District Rule 4623] Federally Enforceable Through Title V Permit
24. The secondary seal shall extend from the roof to the tank shell and shall not be attached to the primary seal. [District Rule 4623] Federally Enforceable Through Title V Permit
25. All openings in the roof used for sampling and gauging, except pressure-vacuum valves which shall be set to within 10% of the maximum allowable working pressure of the roof, shall provide a projection below the liquid surface to prevent belching of liquid and to prevent entrained or formed organic vapor from escaping from the liquid contents of the tank and shall be equipped with a cover, seal or lid that shall be in a closed position at all times, with no visible gaps and be gas tight, except when the device or appurtenance is in use. [District Rule 4623] Federally Enforceable Through Title V Permit
26. A gas-tight condition is defined as a condition without a gas leak. A gas leak is defined as a reading in excess of 10,000 ppmv, above background, as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. A reading in excess of 10,000 ppmv above background is a violation of this permit and Rule 4623 and shall be reported as a deviation. [District Rule 4623] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

27. A leak-free condition is defined as a condition without a gas leak or a liquid leak. A liquid leak is defined as the dripping of organic liquid at a rate of more than 3 drops per minute. A gas leak is defined as a reading in excess of 10,000 ppmv, above background, as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. A liquid leak or reading in excess of 10,000 ppmv above background is a violation of this permit and Rule 4623 and shall be reported as a deviation. [District Rule 4623, 6.4] Federally Enforceable Through Title V Permit

28. Each opening in a non-contact internal floating roof, except for automatic bleeder vents (vacuum breaker vents) and rim space vents, shall provide a projection below the liquid surface. [District Rule 4623] Federally Enforceable Through Title V Permit

29. Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains is to be equipped with a cover or lid which is to be maintained in a closed position at all times (i.e., no visible gap) except when the device is in actual use. The cover or lid shall be equipped with a gasket. Covers on each access hatch and automatic gauge float well shall be bolted except when they are in use. [District Rule 4623] Federally Enforceable Through Title V Permit

30. Automatic bleeder vents shall be equipped with a gasket and shall be closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. [District Rule 4623] Federally Enforceable Through Title V Permit

31. Rim vents shall be equipped with a gasket and are to be set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting. [District Rule 4623] Federally Enforceable Through Title V Permit

32. Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The well shall have a slit fabric cover that covers at least 90% of the opening. The fabric cover must be impermeable. [District Rule 4623] Federally Enforceable Through Title V Permit

33. Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover. The fabric sleeve must be impermeable. [District Rule 4623] Federally Enforceable Through Title V Permit

34. The permittee shall visually inspect the internal floating roof, and its appurtenant parts, fittings, etc. and measure the gaps of the primary seal and/or secondary seal prior to filling the tank for newly constructed, repair, or rebuilt internal floating roof tanks. If holes, tears, or openings in the primary seal, the secondary seal, the seal fabric or defects in the internal floating roof or its appurtenant parts, components, fittings, etc., are found, they shall be repaired prior to filling the tank. [District Rule 4623] Federally Enforceable Through Title V Permit

35. The permittee shall visually inspect, through the manholes, roof hatches, or other openings on the fixed roof, the internal floating roof and its appurtenant parts, fittings, etc., and the primary seal and/or secondary seal at least once every 12 months after the tank is initially filled with an organic liquid. There should be no visible organic liquid on the roof, tank walls, or anywhere. Other than the gap criteria specified by this rule, no holes, tears, or other openings are allowed that would permit the escape of vapors. Any defects found are violations of this rule. [District Rule 4623] Federally Enforceable Through Title V Permit

36. The permittee shall conduct actual gap measurements of the primary seal and/or secondary seal at least once every 60 months. [District Rule 4623] Federally Enforceable Through Title V Permit

37. Permittee shall submit the reports of the floating roof tank inspections to the APCO within five calendar days after the completion of the inspection only for those tanks that failed to meet the applicable requirements of Rule 4623, Sections 5.2 through 5.5. The inspection report for tanks that that have been determined to be in compliance with the requirements of Sections 5.2 through 5.5 need not be submitted to the APCO, but the inspection report shall be kept on-site and made available upon request by the APCO. The inspection report shall contain all necessary information to demonstrate compliance with the provisions of Rule 4623. [District Rule 4623] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

38. Permittee shall maintain the records of the internal floating roof landing activities that are performed pursuant to Rule 4623, Sections 5.3.1.3 and 5.4.3. The records shall include information on the true vapor pressure (TVP), API gravity, storage temperature, type of organic liquid stored in the tank, the purpose of landing the roof on its legs, the date of roof landing, duration the roof was on its legs, the level or height at which the tank roof was set to land on its legs, and the lowest liquid level in the tank. [District Rule 4623] Federally Enforceable Through Title V Permit

39. The tank pressure-vacuum (PV) relief valve shall be set to within 10% of the maximum allowable working pressure of the tank. The PV relief valve shall be permanently labeled with the operating pressure settings. The PV 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's set pressure. [District Rule 4623, 5.2] Federally Enforceable Through Title V Permit

40. Permittee shall notify District at least 7 days prior to the date when unobstructed primary and secondary seal/gap testing will occur. [District Rule 1070] Federally Enforceable Through Title V Permit

41. 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

42. This unit was constructed prior to 1973 and has not been modified (as defined in 40 CFR 60.14) or reconstructed (as defined in 40 CFR 60.15) since 1973. Therefore, the requirements of 40 CFR 60 are not applicable to this unit. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

43. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months and/or whenever there is a change in the source or type of organic liquid stored in the tank. The TVP of any organic liquid shall be determined by measuring the Reid Vapor Pressure (RVP) using ASTM D 323 (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 of District Rule 4623. Records of TVP testing shall be maintained. [District Rule 2520, 9.3.2; 4623, 6.2.2, 6.3, 6.4] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-77-11-6 **EXPIRATION DATE:** 08/31/2017

SECTION: SW34 **TOWNSHIP:** 27S **RANGE:** 20E

EQUIPMENT DESCRIPTION:
150,000 BBL WELDED EXTERNAL FLOATING ROOF CRUDE OIL STORAGE TANK WITH METALLIC SHOE PRIMARY SEAL AND SECONDARY WIPER SEAL

PERMIT UNIT REQUIREMENTS

1. This tank shall only store liquid with a true vapor pressure (TVP) of 5.9 psia or less under all storage conditions. [District Rule 2201and 4623, 5.1.1 and 40 CFR 60.110b(a), 112b(a)] Federally Enforceable Through Title V Permit
2. Total throughput of organic liquid with TVP less than or equal to 5.9 psia shall not exceed 360,000 bbl/day nor 180,000 bbl/day on a monthly average basis. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Combined total throughput of permits S-77-9, '-11, and '-14 shall not exceed 550,000 bbl/day nor 265,000 bbl/day on a monthly average basis. [District Rule 2201] Federally Enforceable Through Title V Permit
4. VOC emission rate from permits S-77-9, '-11, and '-14 shall not exceed 227.1 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
5. VOC emission rate from permits S-77-9, '-11, and '-14 shall not exceed 41,913 lb/yr. [District Rule 2201] Federally Enforceable Through Title V Permit
6. VOC emission rate shall not exceed 119.4 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Permittee shall maintain a record of the liquid stored, the period of storage, and the maximum true vapor pressure of that liquid during the respective storage period. [40 CFR 60.116b(c) and District Rule 2201] Federally Enforceable Through Title V Permit
8. Permittee shall maintain records of maximum daily throughput and monthly average daily throughput. [District Rule 2201] Federally Enforceable Through Title V Permit
9. When storing organic liquids with true vapor pressure less than 0.5 psia, the requirements of Sections 5.3, 5.5 and 6.1 of District Rule 4623 (Amended May 19, 2005) shall not apply to this unit. This exemption applies to all conditions in this permit referencing Rule 4623 Sections 5.3, 5.5 or 6.1 only. [District Rule 4623, 2.0] Federally Enforceable Through Title V Permit
10. When storing organic liquids with true vapor pressure less than 0.75 psia, the requirements of 40 CFR 60 Subpart Kb shall not apply to this unit. This exemption applies to all conditions in this permit referencing 40 CFR 60 Subpart Kb only. [40 CFR 60.112b(a)] Federally Enforceable Through Title V Permit
11. Before switching to the storage of organic liquids with true vapor pressure greater than or equal to 0.5 psia, all covers, seals, and lids shall be inspected by the facility operator to ensure compliance with the provisions of this permit. This includes all conditions containing District Rule 4623 reference. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Before switching to the storage of organic liquids with true vapor pressure greater than or equal to 0.75 psia, all covers, seals, and lids shall be inspected by the facility operator to ensure compliance with the provisions of this permit. This includes all conditions containing District Rule 4623 or 40 CFR 60 Subpart Kb reference. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
13. This tank shall be equipped with a closure device between the tank shell and roof edge consisting of two seals mounted one above the other; the one below shall be referred to as the primary seal, and the one above shall be referred as the secondary seal. [District NSR Rule; District Rule 4623, 5.3.1.2 and 40 CFR 60.112b(a)(2)(i)] Federally Enforceable Through Title V Permit
14. The external floating roof shall float on the surface of the stored liquid at all times (i.e., off the roof leg supports) except during the initial fill until the roof is lifted off the leg supports and when the tank is completely emptied and subsequently refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible. Whenever the permittee intends to land the roof on its legs, the permittee shall notify the APCO in writing at least five calendar days prior to performing the work. The tank must be in compliance with this rule before it may land on its legs. [District Rule 4623, 5.3.1.3 and 40 CFR 60.112b(a)(2)(iii)] Federally Enforceable Through Title V Permit
15. Gaps between the tank shell and the primary seal shall not exceed 1 1/2 inches. [District Rule 4623, 5.3.2.1.1 and 40 CFR 60.113b(b)(4)(i)] Federally Enforceable Through Title V Permit
16. The cumulative length of all gaps between the tank shell and the primary seal greater than 1/2 inch shall not exceed 10% of the circumference of the tank. [District Rule 4623, 5.3.2.1.1 and 40 CFR 60.113b(b)(4)(i)] Federally Enforceable Through Title V Permit
17. The cumulative length of all primary seal gaps greater than 1/8 inch shall not exceed 30% of the circumference of the tank. [District Rule 4623, 5.3.2.1.1 and 40 CFR 60.113b(b)(4)(i)] Federally Enforceable Through Title V Permit
18. No continuous gap in the primary seal greater than 1/8 inch wide shall exceed 10% of the tank circumference. [District Rule 4623, 5.3.2.1.1 and 40 CFR 60.113b(b)(4)(i)] Federally Enforceable Through Title V Permit
19. No gap between the tank shell and the secondary seal shall exceed 1/2 inch. [District Rule 4623, 5.3.2.1.2, 6.1 and 40 CFR 60.113b(b)(4)(ii)(B)] Federally Enforceable Through Title V Permit
20. The cumulative length of all gaps between the tank shell and the secondary seal, greater than 1/8 inch shall not exceed 5% of the tank circumference. [District Rule 4623, 5.3.2.1.2 and 40 CFR 60.113b(b)(4)(ii)(B)] Federally Enforceable Through Title V Permit
21. The metallic shoe-type seal shall be installed so that one end of the shoe extends into the stored liquid and the other end extends a minimum vertical distance of 24 inches above the stored liquid surface. [District Rule 4623, 5.3.2.1.3 and 40 CFR 60.113b(b)(4)(i)(A)] Federally Enforceable Through Title V Permit
22. The geometry of the metallic-shoe type seal shall be such that the maximum gap between the shoe and the tank shell shall be no greater than 3 inches for a length of at least 18 inches in the vertical plane above the liquid. [District Rule 4623, 5.3.2.1.4] Federally Enforceable Through Title V Permit
23. 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. Except for gaps meeting permit requirements, the primary seal shall completely cover the annular space between the edge of the floating roof and tank wall. [District Rule 4623, 5.3.2.1.5; 40 CFR 60.112b(a)(2)(i)(A), 40 CFR 60.113b(b)(4)(i)(B) and 60.113b(b)(4)(ii)(C)] Federally Enforceable Through Title V Permit
24. The secondary seal shall allow easy insertion of probes of up to 1 1/2 inches in width in order to measure gaps in the primary seal. [District Rule 4623, 5.3.2.1.6] Federally Enforceable Through Title V Permit
25. The secondary seal shall extend from the roof to the tank shell and shall not be attached to the primary seal. Except for gaps meeting permit requirements, the secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous fashion. [District Rule 4623, 5.3.2.1.7; 40 CFR 60.112b(a)(2)(i)(B) and 40 CFR 60.113b(b)(4)(ii)(A)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

26. All openings in the roof used for sampling and gauging, except pressure-vacuum valves which shall be set to within 10% of the maximum allowable working pressure of the roof, shall provide a projection below the liquid surface to prevent belching of liquid and to prevent entrained or formed organic vapor from escaping from the liquid contents of the tank and shall be equipped with a cover, seal or lid that shall be in a closed position at all times, with no visible gaps and be gas tight, except when the device or appurtenance is in use. [District Rule 4623, 5.2 & 5.5.1] Federally Enforceable Through Title V Permit

27. A gas-tight condition is defined as a condition without a gas leak. A gas leak is defined as a reading in excess of 10,000 ppmv, above background, as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. A reading in excess of 10,000 ppmv above background is a violation of this permit and Rule 4623 and shall be reported as a deviation. [District Rule 4623, 3.10 and 6.4.8] Federally Enforceable Through Title V Permit

28. Except for automatic bleeder vents, rim vents, and pressure relief vents, each opening in a non-contact external floating roof shall provide a projection below the liquid surface. [District Rule 4623, 5.5.2.2.1, and 40 CFR 60.112b(a)(2)(ii)] Federally Enforceable Through Title V Permit

29. Except for automatic bleeder vents and rim vents, roof drains, and leg sleeves, each opening in the roof shall be equipped with a gasketed cover, seal, or lid that shall be maintained in a closed position at all times (i.e., no visible gap) except when in actual use. [District Rule 4623, 5.5.2.2.2, and 40 CFR 60.112b(a)(2)(ii)] Federally Enforceable Through Title V Permit

30. Automatic bleeder vents shall be equipped with a gasket and shall be closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. [District Rule 4623, 5.5.2.2.3, and 40 CFR 60.112b(a)(2)(ii)] Federally Enforceable Through Title V Permit

31. Rim vents shall be equipped with a gasket and shall be set to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. [District Rule 4623, 5.5.2.2.4, and 40 CFR 60.112b(a)(2)(ii)] Federally Enforceable Through Title V Permit

32. Each emergency roof drain shall be provided with a slotted membrane fabric cover that covers at least 90 percent of the area of the opening. The fabric cover must be impermeable if the liquid is drained into the contents of the tanks. [District Rule 4623, 5.5.2.2.5, and 40 CFR 60.112b(a)(2)(ii)] Federally Enforceable Through Title V Permit

33. External floating roof legs shall be equipped with vapor socks or vapor barriers in order to maintain a gas-tight condition so as to prevent VOC emissions from escaping through the roof leg opening. [District Rule 4623, 5.5.2.2.6] Federally Enforceable Through Title V Permit

34. All wells and similar fixed projections through the floating roof shall provide a projection below the liquid surface. [District Rule 4623, 5.5.2.3.1] Federally Enforceable Through Title V Permit

35. The solid guidepole well shall be equipped with a pole wiper and a gasketed cover, seal or lid which shall be in a closed position at all times (i.e., no visible gap) except when the well is in use. [District Rule 4623, 5.5.2.3.2] Federally Enforceable Through Title V Permit

36. The gap between the pole wiper and the solid guidepole shall be added to the gaps measured to determine compliance with the secondary seal requirement, and in no case shall exceed 1/2 inch. [District Rule 4623, 5.5.2.3.3] Federally Enforceable Through Title V Permit

37. The slotted guidepole well on a external floating roof shall be equipped with the following: a sliding cover, a well gasket, a pole sleeve, a pole wiper, and an internal float and float wiper designed to minimize the gap between the float and the well, and provided the gap shall not exceed 1/8 inch; or shall be equipped with a well gasket, a zero gap pole wiper seal and a pole sleeve that projects below the liquid surface. [District Rule 4623, 5.5.2.4.2] Federally Enforceable Through Title V Permit

38. The gap between the pole wiper and the slotted guidepole shall be added to the gaps measured to determine compliance with the secondary seal requirement, and in no case shall exceed 1/8 inch. [District Rule 4623, 5.5.2.4.3] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

39. The permittee 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 locations shall be made available; in all other cases, a minimum of four locations shall be made available. If the APCO suspects a violation may exist the APCO may require such further unobstructed inspection of the primary seal as may be necessary to determine the seal condition for its entire circumference. [District Rule 4623, 6.1] Federally Enforceable Through Title V Permit

40. Measurements of gaps between the tank wall and the primary and secondary seal shall be performed during the hydrostatic testing of the vessel or within 60 days of the initial fill with a volatile organic liquid. [40 CFR 60.113b(b)(1)(i)] Federally Enforceable Through Title V Permit

41. If any source ceases to store volatile organic liquid for a period of 1 year or more, subsequent introduction of volatile organic liquid into the vessel shall be considered an initial fill. [40 CFR 60.113b(b)(1)(iii)] Federally Enforceable Through Title V Permit

42. The permittee shall 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. Permittee shall measure seal gaps, at one or more floating roof levels when the roof is floating off the roof leg supports, around the entire circumference of the tank in each place where a 0.32-cm diameter uniform probe passes freely (without forcing or binding against seal) between the seal and the wall of the storage vessel and measure the circumferential distance of each such location. The inspection results shall be submitted to the APCO as specified in Section 6.3.5. [County Rule 107 (40 CFR 60.113b(b)(1)(i) & (ii); and 40 CFR 60.113b(b)(2)(i) & (ii)] Federally Enforceable Through Title V Permit

43. The permittee shall 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 24 hours after the tank roof is re-floated. If the external floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, the owner or operator shall repair the items as necessary before filling or refilling the storage vessel. The owner or operator shall notify the APCO in writing at least 30 days prior to the filling or refilling of each storage vessel to afford the APCO the opportunity to inspect the storage vessel prior to refilling. [District Rule 4623, 6.1.3.1.2 and 40 CFR 60.113b(b)(6)] Federally Enforceable Through Title V Permit

44. Permittee shall submit the reports of the floating roof tank inspections to the APCO within five calendar days after the completion of the inspection only for those tanks that failed to meet the applicable requirements of Rule 4623, Sections 5.2 through 5.5. The inspection report for tanks that that have been determined to be in compliance with the requirements of Sections 5.2 through 5.5 need not be submitted to the APCO, but the inspection report shall be kept on-site and made available upon request by the APCO. The inspection report shall contain all necessary information to demonstrate compliance with the provisions of Rule 4623. [District Rule 4623, 6.3.5 and 40 CFR 60.115b(b)] Federally Enforceable Through Title V Permit

45. Permittee shall maintain the records of the external floating roof landing activities that are performed pursuant to Rule 4623, Sections 5.3.1.3 and 5.4.3. The records shall include information on the true vapor pressure (TVP), API gravity, storage temperature, type of organic liquid stored in the tank, the purpose of landing the roof on its legs, the date of roof landing, duration the roof was on its legs, the level or height at which the tank roof was set to land on its legs, and the lowest liquid level in the tank. [District Rule 4623, 6.3.7] Federally Enforceable Through Title V Permit

46. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623, 6.3 and 40 CFR 60.116b(a)] Federally Enforceable Through Title V Permit

47. Permittee shall notify District at least 30 days prior to the date when unobstructed primary and secondary seal/gap measurements will occur to afford the APCO the opportunity to have an observer present. [40 CFR 60.113b(b)(5)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

48. Permittee shall make necessary repairs or empty the storage vessel within 45 days of identification in any inspection for seals not meeting the requirements listed in 40 CFR 60.113b(b)(4)(i) and (ii). If necessary repairs cannot be made within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the APCO. Such an extension request must include a demonstration of unavailability of alternate storage capacity and a specification of a schedule that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible. [40 CFR 60.113b(b)(4)] Federally Enforceable Through Title V Permit

49. The owner or operator of each storage vessel shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Such records shall be retained for the life of the source. [40 CFR 60.116b(b)] Federally Enforceable Through Title V Permit

50. Permittee shall maintain records of daily throughput. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

51. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months and/or whenever there is a change in the source or type of organic liquid stored in the tank. The TVP of any organic liquid shall be determined by measuring the Reid Vapor Pressure (RVP) using ASTM D 323 (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 of District Rule 4623. Records of TVP testing shall be maintained. [District Rule 2520, 9.3.2, 4623, 6.4.3 and 6.2] Federally Enforceable Through Title V Permit

52. Compliance with permit conditions in the Title V permit shall be deemed compliance with District Rule 4623 (amended may 19, 2005) and 40CFR60 Subpart Kb. A permit shield is granted form this requirement. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-77-13-1 **EXPIRATION DATE:** 08/31/2017

SECTION: SW34 **TOWNSHIP:** 27S **RANGE:** 20E

EQUIPMENT DESCRIPTION:
460 BHP CATERPILLAR MODEL 3406 DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP (CARNERAS PUMP STATION)

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 engine shall be equipped with a turbocharger and with an aftercooler or intercooler. [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. 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
5. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. For testing purposes, the engine shall only be operated the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems". Total hours of operation for all maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year. [District Rule 4702, 17 CCR 93115 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
6. 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, and the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.). 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
7. 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
8. 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. [17 CCR 93115 and Rule 2520, 9.4] Federally Enforceable Through Title V Permit
9. If this engine is located on the grounds of a K-12 school, or if this engine is located within 500 feet of the property boundary of a K-12 school, the engine shall not be operated for non-emergency purposes, including maintenance and testing, between 7:30 a.m. and 3:30 p.m. on days when school is in session. [17 CCR 93115 and Rule 2520, 9.4] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

10. If this engine is located on the grounds of a K-12 school, the engine shall not be operated for non-emergency purposes, including maintenance and testing, whenever there is a school sponsored activity. [17 CCR 93115 and Rule 2520, 9.4] Federally Enforceable Through Title V Permit
11. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements of SJVUAPCD Rule 4201 (Amended December 17, 1992) and Kern County Rule 407. A permit shield is granted from these requirements. [District Rule 2520, 13.2] 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 Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
13. 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, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
14. 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 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
15. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201, 17 CCR 93115] Federally Enforceable Through Title V Permit
16. 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 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
17. 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 40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
18. 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, 17 CCR 93115 and 40 CFR 63, Subpart ZZZZ] Federally Enforceable Through Title V Permit
19. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rules 1070, 4702, 2520, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
20. 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
21. 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
22. 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
23. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

24. 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

25. 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

26. 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

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-77-14-7 **EXPIRATION DATE:** 08/31/2017

SECTION: SW34 **TOWNSHIP:** 27S **RANGE:** 20E

EQUIPMENT DESCRIPTION:
126,000 BBL WELDED EXTERNAL FLOATING ROOF TANK #126GL6 WITH METALLIC SHOE PRIMARY SEAL AND SECONDARY WIPER SEAL

PERMIT UNIT REQUIREMENTS

1. The true vapor pressure of liquid stored shall not exceed 9.2 psia. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Total throughput of organic liquid with TVP greater than 5.9 psia and less than or equal to 9.2 psia shall not exceed 190,000 bbl/day nor 85,000 bbl/day on a monthly average basis. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Total throughput of organic liquid with TVP less than or equal to 5.9 psia shall not exceed 360,000 bbl/day nor 180,000 bbl/day on a monthly average basis. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Combined total throughput of permits S-77-9, '-11, and '-14 shall not exceed 550,000 bbl/day nor 265,000 bbl/day on a monthly average basis. [District Rule 2201] Federally Enforceable Through Title V Permit
5. VOC emission rate from permits S-77-9, '-11, and '-14 shall not exceed 227.1 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. VOC emission rate from permits S-77-9, '-11, and '-14 shall not exceed 41,913 lb/yr. [District Rule 2201] Federally Enforceable Through Title V Permit
7. VOC emission rate shall not exceed 129.9 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Permittee shall maintain a record of the liquid stored, the period of storage, and the maximum true vapor pressure of that liquid during the respective storage period. [40 CFR 60.116b(c) and District Rule 2201] Federally Enforceable Through Title V Permit
9. Permittee shall maintain records of maximum daily throughput and monthly average daily throughput. [District Rule 2201] Federally Enforceable Through Title V Permit
10. When storing organic liquids with true vapor pressure less than 0.5 psia, the requirements of Sections 5.3, 5.5 and 6.1 of District Rule 4623 (Amended May 19, 2005) shall not apply to this unit. This exemption applies to all conditions in this permit referencing Rule 4623 Sections 5.3, 5.5 or 6.1 only. [District Rule 4623, 2.0] Federally Enforceable Through Title V Permit
11. When storing organic liquids with true vapor pressure less than 0.75 psia, the requirements of 40 CFR 60 Subpart Kb shall not apply to this unit. This exemption applies to all conditions in this permit referencing 40 CFR 60 Subpart Kb only. [40 CFR 60.112b(a)] Federally Enforceable Through Title V Permit
12. Before switching to the storage of organic liquids with true vapor pressure greater than or equal to 0.5 psia, all covers, seals, and lids shall be inspected by the facility operator to ensure compliance with the provisions of this permit. This includes all conditions containing District Rule 4623 reference. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13. Before switching to the storage of organic liquids with true vapor pressure greater than or equal to 0.75 psia, all covers, seals, and lids shall be inspected by the facility operator to ensure compliance with the provisions of this permit. This includes all conditions containing District Rule 4623 or 40 CFR 60 Subpart Kb reference. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

14. This tank shall be equipped with a closure device between the tank shell and roof edge consisting of two seals mounted one above the other; the one below shall be referred to as the primary seal, and the one above shall be referred as the secondary seal. [District NSR Rule; District Rule 4623, 5.3.1.2 and 40 CFR 60.112b(a)(2)(i)] Federally Enforceable Through Title V Permit

15. The external floating roof shall float on the surface of the stored liquid at all times (i.e., off the roof leg supports) except during the initial fill until the roof is lifted off the leg supports and when the tank is completely emptied and subsequently refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible. Whenever the permittee intends to land the roof on its legs, the permittee shall notify the APCO in writing at least five calendar days prior to performing the work. The tank must be in compliance with this rule before it may land on its legs. [District Rule 4623, 5.3.1.3 and 40 CFR 60.112b(a)(2)(iii)] Federally Enforceable Through Title V Permit

16. Gaps between the tank shell and the primary seal shall not exceed 1 1/2 inches. [District Rule 4623, 5.3.2.1.1 and 40 CFR 60.113b(b)(4)(i)] Federally Enforceable Through Title V Permit

17. The cumulative length of all gaps between the tank shell and the primary seal greater than 1/2 inch shall not exceed 10% of the circumference of the tank. [District Rule 4623, 5.3.2.1.1 and 40 CFR 60.113b(b)(4)(i)] Federally Enforceable Through Title V Permit

18. The cumulative length of all primary seal gaps greater than 1/8 inch shall not exceed 30% of the circumference of the tank. [District Rule 4623, 5.3.2.1.1 and 40 CFR 60.113b(b)(4)(i)] Federally Enforceable Through Title V Permit

19. No continuous gap in the primary seal greater than 1/8 inch wide shall exceed 10% of the tank circumference. [District Rule 4623, 5.3.2.1.1 and 40 CFR 60.113b(b)(4)(i)] Federally Enforceable Through Title V Permit

20. No gap between the tank shell and the secondary seal shall exceed 1/2 inch. [District Rule 4623, 5.3.2.1.2, 6.1 and 40 CFR 60.113b(b)(4)(ii)(B)] Federally Enforceable Through Title V Permit

21. The cumulative length of all gaps between the tank shell and the secondary seal, greater than 1/8 inch shall not exceed 5% of the tank circumference. [District Rule 4623, 5.3.2.1.2 and 40 CFR 60.113b(b)(4)(ii)(B)] Federally Enforceable Through Title V Permit

22. The metallic shoe-type seal shall be installed so that one end of the shoe extends into the stored liquid and the other end extends a minimum vertical distance of 24 inches above the stored liquid surface. [District Rule 4623, 5.3.2.1.3 and 40 CFR 60.113b(b)(4)(i)(A)] Federally Enforceable Through Title V Permit

23. The geometry of the metallic-shoe type seal shall be such that the maximum gap between the shoe and the tank shell shall be no greater than 3 inches for a length of at least 18 inches in the vertical plane above the liquid. [District Rule 4623, 5.3.2.1.4] Federally Enforceable Through Title V Permit

24. 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. Except for gaps meeting permit requirements, the primary seal shall completely cover the annular space between the edge of the floating roof and tank wall. [District Rule 4623, 5.3.2.1.5; 40 CFR 60.112b(a)(2)(i)(A), 40 CFR 60.113b(b)(4)(i)(B) and 60.113b(b)(4)(ii)(C)] Federally Enforceable Through Title V Permit

25. The secondary seal shall allow easy insertion of probes of up to 1 1/2 inches in width in order to measure gaps in the primary seal. [District Rule 4623, 5.3.2.1.6] Federally Enforceable Through Title V Permit

26. The secondary seal shall extend from the roof to the tank shell and shall not be attached to the primary seal. Except for gaps meeting permit requirements, the secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous fashion. [District Rule 4623, 5.3.2.1.7; 40 CFR 60.112b(a)(2)(i)(B) and 40 CFR 60.113b(b)(4)(ii)(A)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

27. All openings in the roof used for sampling and gauging, except pressure-vacuum valves which shall be set to within 10% of the maximum allowable working pressure of the roof, shall provide a projection below the liquid surface to prevent belching of liquid and to prevent entrained or formed organic vapor from escaping from the liquid contents of the tank and shall be equipped with a cover, seal or lid that shall be in a closed position at all times, with no visible gaps and be gas tight, except when the device or appurtenance is in use. [District Rule 4623, 5.2 & 5.5.1] Federally Enforceable Through Title V Permit

28. A gas-tight condition is defined as a condition without a gas leak. A gas leak is defined as a reading in excess of 10,000 ppmv, above background, as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. A reading in excess of 10,000 ppmv above background is a violation of this permit and Rule 4623 and shall be reported as a deviation. [District Rule 4623, 3.10 and 6.4.8] Federally Enforceable Through Title V Permit

29. Except for automatic bleeder vents, rim vents, and pressure relief vents, each opening in a non-contact external floating roof shall provide a projection below the liquid surface. [District Rule 4623, 5.5.2.2.1, and 40 CFR 60.112b(a)(2)(ii)] Federally Enforceable Through Title V Permit

30. Except for automatic bleeder vents and rim vents, roof drains, and leg sleeves, each opening in the roof shall be equipped with a gasketed cover, seal, or lid that shall be maintained in a closed position at all times (i.e., no visible gap) except when in actual use. [District Rule 4623, 5.5.2.2.2, and 40 CFR 60.112b(a)(2)(ii)] Federally Enforceable Through Title V Permit

31. Automatic bleeder vents shall be equipped with a gasket and shall be closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. [District Rule 4623, 5.5.2.2.3, and 40 CFR 60.112b(a)(2)(ii)] Federally Enforceable Through Title V Permit

32. Rim vents shall be equipped with a gasket and shall be set to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. [District Rule 4623, 5.5.2.2.4, and 40 CFR 60.112b(a)(2)(ii)] Federally Enforceable Through Title V Permit

33. Each emergency roof drain shall be provided with a slotted membrane fabric cover that covers at least 90 percent of the area of the opening. The fabric cover must be impermeable if the liquid is drained into the contents of the tanks. [District Rule 4623, 5.5.2.2.5, and 40 CFR 60.112b(a)(2)(ii)] Federally Enforceable Through Title V Permit

34. External floating roof legs shall be equipped with vapor socks or vapor barriers in order to maintain a gas-tight condition so as to prevent VOC emissions from escaping through the roof leg opening. [District Rule 4623, 5.5.2.2.6] Federally Enforceable Through Title V Permit

35. All wells and similar fixed projections through the floating roof shall provide a projection below the liquid surface. [District Rule 4623, 5.5.2.3.1] Federally Enforceable Through Title V Permit

36. The solid guidepole well shall be equipped with a pole wiper and a gasketed cover, seal or lid which shall be in a closed position at all times (i.e., no visible gap) except when the well is in use. [District Rule 4623, 5.5.2.3.2] Federally Enforceable Through Title V Permit

37. The gap between the pole wiper and the solid guidepole shall be added to the gaps measured to determine compliance with the secondary seal requirement, and in no case shall exceed 1/2 inch. [District Rule 4623, 5.5.2.3.3] Federally Enforceable Through Title V Permit

38. The slotted guidepole well on a external floating roof shall be equipped with the following: a sliding cover, a well gasket, a pole sleeve, a pole wiper, and an internal float and float wiper designed to minimize the gap between the float and the well, and provided the gap shall not exceed 1/8 inch; or shall be equipped with a well gasket, a zero gap pole wiper seal and a pole sleeve that projects below the liquid surface. [District Rule 4623, 5.5.2.4.2] Federally Enforceable Through Title V Permit

39. The gap between the pole wiper and the slotted guidepole shall be added to the gaps measured to determine compliance with the secondary seal requirement, and in no case shall exceed 1/8 inch. [District Rule 4623, 5.5.2.4.3] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

40. The permittee 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 locations shall be made available; in all other cases, a minimum of four locations shall be made available. If the APCO suspects a violation may exist the APCO may require such further unobstructed inspection of the primary seal as may be necessary to determine the seal condition for its entire circumference. [District Rule 4623, 6.1] Federally Enforceable Through Title V Permit

41. Measurements of gaps between the tank wall and the primary and secondary seal shall be performed during the hydrostatic testing of the vessel or within 60 days of the initial fill with a volatile organic liquid. [40 CFR 60.113b(b)(1)(i)] Federally Enforceable Through Title V Permit

42. If any source ceases to store volatile organic liquid for a period of 1 year or more, subsequent introduction of volatile organic liquid into the vessel shall be considered an initial fill. [40 CFR 60.113b(b)(1)(iii)] Federally Enforceable Through Title V Permit

43. The permittee shall 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. Permittee shall measure seal gaps, at one or more floating roof levels when the roof is floating off the roof leg supports, around the entire circumference of the tank in each place where a 0.32-cm diameter uniform probe passes freely (without forcing or binding against seal) between the seal and the wall of the storage vessel and measure the circumferential distance of each such location. The inspection results shall be submitted to the APCO as specified in Section 6.3.5. [County Rule 107 (40 CFR 60.113b(b)(1)(i) & (ii); and 40 CFR 60.113b(b)(2)(i) & (ii)] Federally Enforceable Through Title V Permit

44. The permittee shall 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 24 hours after the tank roof is re-floated. If the external floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, the owner or operator shall repair the items as necessary before filling or refilling the storage vessel. The owner or operator shall notify the APCO in writing at least 30 days prior to the filling or refilling of each storage vessel to afford the APCO the opportunity to inspect the storage vessel prior to refilling. [District Rule 4623, 6.1.3.1.2 and 40 CFR 60.113b(b)(6)] Federally Enforceable Through Title V Permit

45. Permittee shall submit the reports of the floating roof tank inspections to the APCO within five calendar days after the completion of the inspection only for those tanks that failed to meet the applicable requirements of Rule 4623, Sections 5.2 through 5.5. The inspection report for tanks that that have been determined to be in compliance with the requirements of Sections 5.2 through 5.5 need not be submitted to the APCO, but the inspection report shall be kept on-site and made available upon request by the APCO. The inspection report shall contain all necessary information to demonstrate compliance with the provisions of Rule 4623. [District Rule 4623, 6.3.5 and 40 CFR 60.115b(b)] Federally Enforceable Through Title V Permit

46. Permittee shall maintain the records of the external floating roof landing activities that are performed pursuant to Rule 4623, Sections 5.3.1.3 and 5.4.3. The records shall include information on the true vapor pressure (TVP), API gravity, storage temperature, type of organic liquid stored in the tank, the purpose of landing the roof on its legs, the date of roof landing, duration the roof was on its legs, the level or height at which the tank roof was set to land on its legs, and the lowest liquid level in the tank. [District Rule 4623, 6.3.7] Federally Enforceable Through Title V Permit

47. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623, 6.3 and 40 CFR 60.116b(a)] Federally Enforceable Through Title V Permit

48. Permittee shall notify District at least 30 days prior to the date when unobstructed primary and secondary seal/gap measurements will occur to afford the APCO the opportunity to have an observer present. [40 CFR 60.113b(b)(5)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

49. Permittee shall make necessary repairs or empty the storage vessel within 45 days of identification in any inspection for seals not meeting the requirements listed in 40 CFR 60.113b(b)(4)(i) and (ii). If necessary repairs cannot be made within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the APCO. Such an extension request must include a demonstration of unavailability of alternate storage capacity and a specification of a schedule that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible. [40 CFR 60.113b(b)(4)] Federally Enforceable Through Title V Permit

50. The owner or operator of each storage vessel shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Such records shall be retained for the life of the source. [40 CFR 60.116b(b)] Federally Enforceable Through Title V Permit

51. Permittee shall maintain records of daily throughput. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

52. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months and/or whenever there is a change in the source or type of organic liquid stored in the tank. The TVP of any organic liquid shall be determined by measuring the Reid Vapor Pressure (RVP) using ASTM D 323 (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 of District Rule 4623. Records of TVP testing shall be maintained. [District Rule 2520, 9.3.2, 4623, 6.4.3 and 6.2] Federally Enforceable Through Title V Permit

53. Compliance with permit conditions in the Title V permit shall be deemed compliance with District Rule 4623 (amended may 19, 2005) and 40CFR60 Subpart Kb. A permit shield is granted form this requirement. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

Attachment B

Detailed Facility Printout

Detailed Facility Report

For Facility=77

Sorted by Facility Name and Permit Number

SHELL PIPELINE COMPANY LP
CARNERAS PUMP STATION
LOST HILLS, CA

FAC # **S 77**
STATUS: **A**
TELEPHONE:

TYPE: **TitleV**
TOXIC ID: **50255**

EXPIRE ON: 08/31/2014
AREA: 102 /
INSP. DATE: 02/13

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
S-77-1-7	12.5 MMBTU/HR HEATER	3020-02 G	1	815.00	815.00	A	12.5 MMBTU/HR GAS-FIRED J F THERMAL HEATER
S-77-2-2	126,000 GALLONS	3020-05 E	1	246.00	246.00	D	3,000 BARREL FIXED ROOF PETROLEUM STORAGE TANK WITH BYPASS PIPING TO AND FROM CRUDE OIL PIPELINE
S-77-7-0	2,310,000 GALLONS	3020-05 G	1	382.00	382.00	D	55,000 BARREL FIXED ROOF PETROLEUM STORAGE TANK #37CD1
S-77-8-0	2,310,000 GALLONS	3020-05 G	1	382.00	382.00	D	55,000 BARREL FIXED ROOF PETROLEUM STORAGE TANK #55GL1
S-77-9-6	2,310,000 GALLONS	3020-05 G	1	382.00	382.00	A	55,000 BBL RIVETED INTERNAL FLOATING ROOF STORAGE TANK #55GL5 WITH METALLIC SHOE PRIMARY SEAL AND SECONDARY WIPER SEAL
S-77-11-5	6,300,000 GALLONS	3020-05 G	1	382.00	382.00	A	150,000 BBL WELDED EXTERNAL FLOATING ROOF CRUDE OIL STORAGE TANK WITH METALLIC SHOE PRIMARY SEAL AND SECONDARY WIPER SEAL
S-77-13-0	460 BHP IC ENGINE	3020-10 D	1	479.00	479.00	A	460 BHP CATERPILLAR MODEL 3406 DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP (CARNERAS PUMP STATION)
S-77-14-6	5,292,000 GALLONS	3020-05 G	1	382.00	382.00	A	126,000 BBL WELDED EXTERNAL FLOATING ROOF TANK #126GL6 WITH METALLIC SHOE PRIMARY SEAL AND SECONDARY WIPER SEAL

Number of Facilities Reported: 1

Attachment C

Insignificant Activities

San Joaquin Valley
Unified Air Pollution Control District
Title V Application - INSIGNIFICANT ACTIVITIES

COMPANY NAME: Shell Pipeline Company LP	FACILITY ID: S-77

Check the box next to the exemption category from Rule 2020 which describes any insignificant activity or equipment at your facility not requiring a permit.

Exemption Category	Rule 2020 Citation	√	Exemption Category	Rule 2020 Citation	√
Structure or incinerator assoc. with a structure designed as a dwelling for 4 families or less	4.1	☐	Containers used to store refined lubricating oils	6.6.8	☒
Locomotives, airplanes, and watercraft used to transport passengers or freight	4.4	☐	Unvented pressure vessels used exclusively to store liquified gases or assoc with exempt equipment	6.6.9 or 6.13	☒
Natural gas or LPG-fired boilers or other indirect heat transfer units of 5 MMBtu/hr or less	6.1.1	☒	Portable tanks used exclusively to store produced fluids for ≤ six months	6.6.10	☐
Piston-type i.c.engine with maximum continuous rating of 50 braking horsepower (bhp) or less	6.1.2	☒	Mobile transport tanks on delivery vehicles of VOCs	6.6.11	☐
Gas turbine engines with maximum heat input rating of 3 MMBtu/hr or less	6.1.3	☐	Loading racks used for the transfer of less than 4,000 gal/day of unheated organic material with initial boiling point ≥ 302 F or of fuel oil with specific gravity ≥0.8251	6.7.1.1	☐
Space heating equipment other than boilers	6.1.4	☒	Loading racks used for the transfer of asphalt, crude or residual oil stored in exempt tanks, or crude oil with specific gravity ≥ 0.8762	6.7.1.2	☐
Cooling towers with a circulation rate less than 10,000 gal/min, and that are not used for cooling of process water, or water from barometric jets or condensers++	6.2	☒	Equipment used exclusively for the transfer of refined lubricating oil	6.7.2	☐
Use of less than 2 gal/day of graphic arts materials	6.3	☐	Equipment used to apply architectural coatings	6.8.1	☒
Equipment at retail establishments used to prepare food for human consumption	6.4.1	☐	Unheated, non-conveyorized cleaning equipment with < 10 ft^2 open area; using solvents with initial boiling point ≥ 248 F; and < 25 gal/yr. evaporative losses	6.9	☒
Ovens at bakeries with total daily production less than 1,000 pounds and exempt by sec. 6.1.1	6.4.3	☐	Brazing, soldering, or welding equipment	6.10	☒
Equipment used exclusively for extruding or compression molding of rubber or plastics, where no plastisizer or blowing agent is used	6.5	☐	Equipment used to compress natural gas	6.11	☐
Containers used to store clean produced water	6.6.1	☒	Fugitive emissions sources assoc. with exempt equipment	6.12	☒
Containers ≤100 bbl used to store oil with specific gravity ≥ 0.8762	6.6.2	☐	Pits and Ponds as defined in Rule 1020	6.15	☒
Containers ≤ 100 bbl installed prior to 6/1/89 used to store oil with specific gravity ≥ 0.8762	6.6.3	☐	On-site roadmix manufacturing and the application of roadmix as a road base material	6.17	☐
Containers with a capacity ≤ 250 gallons used to store organic material where the actual storage temperature <150 F	6.6.4	☒	Emissions less than 2 lb/day from units not included above	6.19	☒
Containers used to store unheated organic material with an initial boiling point ≥ 302 F	6.6.5	☒	Venting PUC quality natural gas from for sole purpose of pipeline and compressor repair and or maintenance	7.2	☐
Containers used to store fuel oils or non-air-blown asphalt with specific gravity ≥0.9042	6.6.6	☒	Non-structural repairs & maintenance to permitted equipment	7.3	☒
Containers used to store petroleum distillates used as motor fuel with specific gravity ≥ 0.8251	6.6.7	☒	Detonation of explosives ≤ 100 lb/day and 1,000 lb/year	7.4	☐

☐ No insignificant activities (Check this box if no equipment in the above categories exist at your facility.)

Rob Rinaldi

From: Rob Rinaldi
Sent: Tuesday, December 04, 2012 3:50 PM
To: Leonard Scandura
Subject: RE: Comments on Initial Title V Permit for Shell Pipeline Company LP Facility S-77 Project S-1112459

The EPA is correct about this comment and the evaluation and permits have been corrected.

Robert C. Rinaldi
Air Quality Engineer, SJVAPCD
Phone: (661) 392-5614 Fax: (661) 392-5585
e-mail: rob.rinaldi@valleyair.org

HEALTHY AIR LIVING
www.healthyairliving.com
Make one change for clean air!

From: Leonard Scandura
Sent: Monday, December 03, 2012 12:45 PM
To: Rob Rinaldi; Richard Karrs
Subject: FW: Comments on Initial Title V Permit for Shell Pipeline Company LP Facility S-77 Project S-1112459

Please review, then let's discuss.

From: Glass.Geoffrey@epamail.epa.gov [mailto:Glass.Geoffrey@epamail.epa.gov]
Sent: Friday, November 30, 2012 8:54 AM
To: Leonard Scandura
Cc: Yannayon.Laura@epamail.epa.gov
Subject: Comments on Initial Title V Permit for Shell Pipeline Company LP Facility S-77 Project S-1112459

Leonard:

The Engineering Analysis for this project incorrectly states that NESHAP ZZZZ applies only to RICE at major sources of HAP. The permit does not include applicable requirements from NESHAP ZZZZ. NESHAP ZZZZ applies to owners and operators of stationary RICE at both major and area sources of HAP.

Please correct these issues before issuing the final permit.

As always, you or the project engineer may contact me by phone or email with any questions.

Thank you

Geoffrey Glass
Environmental Engineer
EPA Region 9
Air Division, Permits Office
415-972-3498