San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

SEP 14 2012

Glen Mears
Plains LPG Services, L.P.
19430 Beech Avenue
Shafter, CA 93263

Re: Notice of Preliminary Decision - Federally Mandated Operating Permit
District Facility # S-71
Project # S-1110991

Dear Mr. Mears:

Enclosed for your review and comment is the District's analysis of Plains LPG Services, L.P.'s application for the Federally Mandated Operating Permit for its natural gas production operation at 19430 Beech Avenue in Shafter, California.

The notice of preliminary decision for this project will be published approximately three days from the date of this letter. Please submit your written comments on this project within the 30-day comment period which begins on the date of publication of the public notice.

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

Sincerely,

David Warner
Director of Permit Services

DW: DK/cm

Attachments

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

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

SEP 14 2012

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

Re: Notice of Preliminary Decision - Federally Mandated Operating Permit
District Facility # S-71
Project # S-1110991

Dear Mr. Rios:

Enclosed for your review and comment is the District's analysis of Plains LPG Services, L.P.'s application for the Federally Mandated Operating Permit for its natural gas production operation at 19430 Beech Avenue in Shafter, California.

The notice of preliminary decision for this project will be published approximately three days from the date of this letter. Please submit your written comments on this project within the 45-day comment period which begins on the date of publication of the public notice.

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

Sincerely,

David Warner
Director of Permit Services

DW: DK/cm

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AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

SEP 14 2012

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

Re: Notice of Preliminary Decision - Federally Mandated Operating Permit
District Facility # S-71
Project # S-1110991

Dear Mr. Tollstrup:

Enclosed for your review and comment is the District's analysis of Plains LPG Services, L.P.'s application for the Federally Mandated Operating Permit for its natural gas production operation at 19430 Beech Avenue in Shafter, California.

The notice of preliminary decision for this project will be published approximately three days from the date of this letter. Please submit your written comments on this project within the 30-day comment period which begins on the date of publication of the public notice.

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

Sincerely,

David Warner
Director of Permit Services

DW: DK/cm

Attachments

Bakersfield Californian

NOTICE OF PRELIMINARY DECISION
FOR THE PROPOSED ISSUANCE OF
FEDERALLY MANDATED OPERATING PERMITS

NOTICE IS HEREBY GIVEN that the San Joaquin Valley Air Pollution Control District solicits public comment on the proposed issuance of the Federally Mandated Operating permits to Plains LPG Services, L.P. for its natural gas production operation at 19430 Beech Avenue in Shafter, California.

The District's analysis of the legal and factual basis for this proposed action, project #S-1110991, is available for public inspection at http://www.valleyair.org/notices/public_notices_idx.htm and the District office at the address below. There are no emission changes associated with this proposed action. This will be the public's only opportunity to comment on the specific conditions of the proposed Federally Mandated Operating initial permits. If requested by the public, the District will hold a public hearing regarding issuance of this initial permit. For additional information, please contact Mr. Leonard Scandura, Permit Services Manager, at (661) 392-5500. Written comments on the proposed initial permit must be submitted within 30 days of the publication date of this notice to DAVID WARNER, DIRECTOR OF PERMIT SERVICES, SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT, 1990 E. GETTYSBURG AVE, FRESNO, CALIFORNIA 93726-0244.

SAN JOAQUIN VALLEY
UNIFIED AIR POLLUTION CONTROL DISTRICT

Plains LPG Services, L.P.
Facility #S-71

PROPOSED ENGINEERING EVALUATION

TABLE OF CONTENTS

TITLE V APPLICATION REVIEW

Project #: S-1110991
Deemed Complete: April 25, 2011

Engineer: Dan Klevann
Date: August 28 , 2012

Facility Number:	S-71
Facility Name:	Plains LPG Services, L.P.
Mailing Address:	19430 Beech Avenue Shafter, CA 93263
Contact Name:	Glen Mears
Phone:	(661) 589-5377
Responsible Official:	Troy Valenzuela
Title:	VP – EH&S

I. PROPOSAL

Plains LPG Services, L.P. is proposing that an initial Title V permit be issued for its existing natural gas production facility in Kern County, 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

Plains LPG Services, L.P. is located at 19430 Beech Avenue, Shafter, CA.

III. EQUIPMENT LISTING

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

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 B. This equipment is not exempt from facility-wide requirements.

IV. GENERAL PERMIT TEMPLATE USAGE

The applicant is requesting to use the following model general permit templates:

A. SJV-UM-0-3, Facility-wide Umbrella General Permit Template

The applicant has requested to utilize template #SJV-UM-0-3, Facility-wide Umbrella General Permit Template for unit S-71-0-1. 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 40 of the requirements for permit unit S-71-0-1.

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, 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, Federally Mandated Operating Permits (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 Emission Standard for Asbestos

VII. APPLICABLE REQUIREMENTS NOT ADDRESSED BY GENERAL PERMIT TEMPLATES

District Rule 2201, New and Modified Stationary Source Review Rule

District Rule 1070, Inspections (amended December 17, 1992)

District Rule 1081, Source Sampling (amended December 16, 1993)

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

District Rule 4201, Particulate Matter Concentration (amended December 17, 1992)

District Rule 4311, Flares (amended June 18, 2009)

District Rule 4305, Boilers, Steam Generators and Process Heaters – Phase 2 (amended August 21, 2003)

District Rule 4306, Boilers, Steam Generators and Process Heaters – Phase 3 (amended October 16, 2008)

District Rule 4320, Advance Emission Reduction Options for Boilers, Steam Generators, and Process Heaters Greater than 5.0 MMBtu/hr (amended October 16, 2008)

District Rule 4408, Glycol Dehydration Systems (adopted December 19, 2002)

District Rule 4409, Components at Light Crude Oil Production Facilities, Natural Gas Production Facilities, and Natural Gas Processing Facilities (adopted April 20, 2005)

District Rule 4623, Storage of Organic Liquids (amended May 19, 2005)

District Rule 4701, Internal Combustion Engines–Phase 1 (amended August 21, 2003)

District Rule 4702, Internal Combustion Engines–Phase 2 (amended August 18, 2011)

District Rule 4801, Sulfur Compounds (amended December 17, 1992)

40 CFR 63, Subpart HH, National Emission Standards for Hazardous Air Pollutants from Oil and Natural Gas Production Facilities

40 CFR Part 63, Subpart Q, National Emission Standards for Hazardous Air Pollutants for Industrial Process Cooling Towers

40 CFR Part 63, Subpart OO, National Emission Standards for Tanks - Level 1

40 CFR Part 63, Subpart SS, National Emission Standards for Closed Vent Systems, Control Devices, Recovery Devices and Routing to a Fuel Gas System or a Process

40 CFR Part 63, Subpart TT, National Emission Standards for Equipment Leaks - Control Level 1

40 CFR Part 63, Subpart UU, National Emission Standards for Equipment Leaks - Control Level 2 Standards

40 CFR Part 63, Subpart WW, National Emission Standards for Storage Vessels (Tanks) - Control Level 2

40 CFR Part 63, Subpart HHH, National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities

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

40 CFR Part 63, Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (amended January 18, 2008)

40 CFR Part 64, Compliance Assurance Monitoring (CAM)

Kern County Rule 407, Sulfur Compounds

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

40 CFR 60 Subpart KKK, Standards of Performance for Equipment Leaks of VOC From Onshore Natural Gas Processing Plants

40 CFR 60 Subpart LLL, Standards of Performance for Onshore Natural Gas Processing: SO2 Emissions

40 CFR 60 Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

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

VIII. 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 the following rules that are not currently federally enforceable:

1. District Rule 4102, Nuisance

    - For this facility, condition 41 of the requirements for permit unit S-71-0-1 are based on the rule listed above and are not Federally Enforceable through Title V.

IX. COMPLIANCE

A. Requirements Addressed by Model General Permit Templates

1. Facility Wide Requirements

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 as condition numbers 1 through 41 to assure compliance with these requirements.

B. Requirements Not Addressed by Model General Permit Templates

1. Inspections (District Rule 1070)

The purpose of this rule is to explain the District's authority in determining compliance with the requirements of these rules and regulations. This rule shall apply to any source operation which emits or may emit air contaminants.

a. S-71-2-11: NATURAL GASOLINE AND LPG LOADING AND UNLOADING OPERATION WITH VAPOR CONTROL, TWO NATURAL GASOLINE AND LPG LOADING/UNLOADING RACKS, TWO LPG LOADING/UNLOADING RACKS, THREE 20,850 GALLON PRESSURIZED STORAGE TANKS, TWO 25 HP COMPRESSORS, PIPING TO PRESSURIZED (PERMIT EXEMPT) LPG TANKS, AND NITROGEN PURGE SYSTEM FOR LIQUID LINES, COMPRESSOR SEALS, AND COMPRESSOR CRANKCASES

   - Condition 21 and 22 from the current PTO were included as condition 18 and 19 for the proposed permit.

b. S-71-3-11: LPG TRUCK LOADING/UNLOADING RACKS #4 & #5 INCLUDING (2) 25 HP COMPRESSORS, (4) 2" LIQUID UNLOADING HOSES, (4) 1" VAPOR RECOVERY HOSES, PIPING TO PERMIT EXEMPT LPG TANKAGE, AND NITROGEN PURGE SYSTEM SERVING LIQUID LINES AND COMPRESSOR SEALS AND CRANKCASES

   - Condition 17 from the current PTO was included as condition 14 for the proposed permit.

c. S-71-4-15: BUTAMER-BUTANE ISOMERIZATION UNIT INCLUDING TWO BUTANE FEED DRYERS V-102A/B, HYDROGEN MAKE-UP DRYER V-106, TWO REGENERANT DRYERS V-107A/B, ONE 80 MMBTU/HR GAS-FIRED PROCESS OIL HEATER H-201 WITH SIX MODEL CUBR-10W LOW-NOX BURNERS AND FUEL PIPING SHARED WITH PERMIT #S-71-1

   - Condition 41, 42, and 44 from the current PTO were included as condition 39, 40 and 42 for the proposed permit.

d. S-71-5-9: 10.28 MMBTU/HR HYDROGEN PLANT INCLUDING ONE STEAM METHANE REFORMER FURNACE #H-301 EQUIPPED WITH CALLIDUS, MODEL LE-CSG-8W-PSA, LOW-NOX BURNER, AND TWO HYDRODESULFURIZER REACTORS (R-301 A/B)

   - Condition 18, 19, 33 and 35 from the current PTO was included as condition 16, 17, 31 and 33 for the proposed permit.

e. S-71-6-6: LPG TRUCK LOADING/UNLOADING RACKS #6 & #7 INCLUDING (10) LOADING/CHARGE PUMPS NOT TO EXCEED 30 HP EACH, (6) LIQUID UNLOADING HOSES, (6) VAPOR RECOVERY HOSES, NITROGEN PURGE SYSTEM FOR LIQUID LINES, AND PIPING TO/FROM PERMIT EXEMPT LPG TANKAGE

- Condition 15 from the current PTO was included as condition 12 for the proposed permit.

f. S-71-12-8: RAILCAR LPG/NATURAL GASOLINE LOADING/UNLOADING OPERATION WITH FIFTEEN LPG/NATURAL GASOLINE LOADING/UNLOADING STATIONS INCLUDING: ELEVATED RACK SYSTEM UTILIZING HARD PIPING AND SWIVEL JOINTS; AND NITROGEN PURGE SYSTEM SERVING LIQUID LINES, COMPRESSOR SEALS, AND COMPRESSOR CRANKCASES

- Condition 17, 18 and 23 from the current PTO were included as condition 14, 15 and 20 for the proposed permit.

g. S-71-14-12: BUTAMER-BUTANE ISOMERIZATION UNIT #2 WITH 105 MMBTU/HR GAS-FIRED HOT OIL HEATER H-202 EQUIPPED WITH CALLIDUS MODEL CUBR-12W LOW-NOX BURNERS AND INTERNAL FGR, WITH NITROGEN PURGE SYSTEM SERVING COMPRESSOR SEALS AND COMPRESSOR CRANKCASES

- Condition 22, 32, 33 and 38 from the current PTO was included as condition 17, 27, 28 and 33 for the proposed permit.

h. S-71-15-10: SAFECAT FEEDSTOCK TREATMENT UNIT WITH 23 MMBTU/HR GAS-FIRED HEATER H-401 EQUIPPED WITH CALLIDUS MODEL CUBR-8P LOW-NOX BURNERS AND INTERNAL FGR

- Condition 33, 34 and 39 from the current PTO was included as condition 31, 32 and 37 for the proposed permit.

i. S-71-18-1: 14,544 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #1

- Condition 7 from the current PTO was included as condition 52 for the proposed permit.

j. S-71-19-1: 14,544 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #2

- Condition 7 from the current PTO was included as condition 52 for the proposed permit.

k. S-71-20-1: 16,505 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #3

- Condition 7 from the current PTO was included as condition 52 for the proposed permit.

l. S-71-21-1: 15,000 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #4

- Condition 7 from the current PTO was included as condition 52 for the proposed permit.

m. S-71-22-1: 15,249 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #5

- Condition 7 from the current PTO was included as condition 52 for the proposed permit.

n. S-71-23-1: 15,187 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #6

- Condition 7 from the current PTO was included as condition 52 for the proposed permit.

o. S-71-24-1: 98,913 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #64

- Condition 7 from the current PTO was included as condition 52 for the proposed permit.

p. S-71-25-1: 98,913 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #65

- Condition 7 from the current PTO was included as condition 52 for the proposed permit.

q. S-71-26-1: 98,913 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #66

- Condition 7 from the current PTO was included as condition 52 for the proposed permit.

r. S-71-27-1: 108,047 GALLON NATURAL GASOLINE/LPG STORAGE TANK

- Included as condition 58 for the proposed permit.

s. S-71-28-1: 108,047 GALLON NATURAL GASOLINE/LPG STORAGE TANK

- Included as condition 58 for the proposed permit.

t. S-71-29-1: DISTILLATION OPERATION INCLUDING MIXED USE DEISOBUTANIZER/DEBUTANIZER COLUMN, UNFIRED REBOILER, AND VARIOUS EXCHANGERS, PUMPS, AND APPURTENANCES

- Condition 13 from the current PTO was included as condition 10 for the proposed permit.

2. New and Modified Stationary Source Review Rule (District Rule 2201)

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 Permit to Operate (PTO) were addressed to define how NSR permit terms should be incorporated into the Title V permit.

a. S-71-1-8: LPG/NGL DISTILLATION OPERATION INCLUDING ONE DE-PROPANIZER/DE-BUTANIZER, ONE DE-PROPANIZER/STRIPPER,

UNFIRED DE-ISOBUTANIZER REBOILER/LPG VAPORIZER, ONE DE-ISOBUTANIZER, AND ONE DE-BUTANIZER

- Conditions 4, 6, 8-13 from the current PTO were included as conditions 1, 3, 5-9 for the proposed permit.

b. S-71-2-11: NATURAL GASOLINE AND LPG LOADING AND UNLOADING OPERATION WITH VAPOR CONTROL, TWO NATURAL GASOLINE AND LPG LOADING/UNLOADING RACKS, TWO LPG LOADING/UNLOADING RACKS, THREE 20,850 GALLON PRESSURIZED STORAGE TANKS, TWO 25 HP COMPRESSORS, PIPING TO PRESSURIZED (PERMIT EXEMPT) LPG TANKS, AND NITROGEN PURGE SYSTEM FOR LIQUID LINES, COMPRESSOR SEALS, AND COMPRESSOR CRANKCASES

- Condition 6, 8-16, 20 from the current PTO was included as condition 3, 5-13, 17 of the proposed permit.

c. S-71-3-11: LPG TRUCK LOADING/UNLOADING RACKS #4 & #5 INCLUDING (2) 25 HP COMPRESSORS, (4) 2" LIQUID UNLOADING HOSES, (4) 1" VAPOR RECOVERY HOSES, PIPING TO PERMIT EXEMPT LPG TANKAGE, AND NITROGEN PURGE SYSTEM SERVING LIQUID LINES AND COMPRESSOR SEALS AND CRANKCASES

- Conditions 6-11, 14, 15 from the current PTO were included as conditions 3-8, 11, 12 for the proposed permit.

d. S-71-4-15: BUTAMER-BUTANE ISOMERIZATION UNIT INCLUDING TWO BUTANE FEED DRYERS V-102A/B, HYDROGEN MAKE-UP DRYER V-106, TWO REGENERANT DRYERS V-107A/B, ONE 80 MMBTU/HR GAS-FIRED PROCESS OIL HEATER H-201 WITH SIX MODEL CUBR-10W LOW-NOX BURNERS AND FUEL PIPING SHARED WITH PERMIT #S-71-1

- Condition 3-9, 12-15, 17-22, 26, 35, 40-43 from the current PTO were included as condition 1-7, 10-13, 15-20, 24, 38-41 for the proposed permit.

e. S-71-5-9: 10.28 MMBTU/HR HYDROGEN PLANT INCLUDING ONE STEAM METHANE REFORMER FURNACE #H-301 EQUIPPED WITH CALLIDUS, MODEL LE-CSG-8W-PSA, LOW-NOX BURNER, AND TWO HYDRODESULFURIZER REACTORS (R-301 A/B)

- Condition 3-6, 9-13, 15-19, 27, 32 from the current PTO were included as condition 1-4, 7-11, 13-17, 25, 30 for the proposed permit.

f. S-71-6-6: LPG TRUCK LOADING/UNLOADING RACKS #6 & #7 INCLUDING (10) LOADING/CHARGE PUMPS NOT TO EXCEED 30 HP EACH, (6) LIQUID UNLOADING HOSES, (6) VAPOR RECOVERY HOSES, NITROGEN PURGE SYSTEM FOR LIQUID LINES, AND PIPING TO/FROM PERMIT EXEMPT LPG TANKAGE

- Conditions 4-6, 9-10, 14 from the current PTO were included as conditions 1-3, 6-7, 11 for the proposed permit.

g. S-71-7-3: 320 BHP DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP

- Condition 7,9-14 from the current PTO included as condition 5, 7-12 for the proposed permit.

h. S-71-10-4: 208 BHP DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP

- Conditions 7, 9-14 from the current PTO were included as conditions 5, 7-12 for the proposed permit.

i. S-71-12-8: RAILCAR LPG/NATURAL GASOLINE LOADING/UNLOADING OPERATION WITH FIFTEEN LPG/NATURAL GASOLINE LOADING/UNLOADING STATIONS INCLUDING: ELEVATED RACK SYSTEM UTILIZING HARD PIPING AND SWIVEL JOINTS; AND NITROGEN PURGE SYSTEM SERVING LIQUID LINES, COMPRESSOR SEALS, AND COMPRESSOR CRANKCASES

- Condition 4-12, 14-16, 22 from the current PTO included as condition 1-9, 11-13, 19 for the proposed permit.

j. S-71-14-12: BUTAMER-BUTANE ISOMERIZATION UNIT #2 WITH 105 MMBTU/HR GAS-FIRED HOT OIL HEATER H-202 EQUIPPED WITH CALLIDUS MODEL CUBR-12W LOW-NOX BURNERS AND INTERNAL FGR, WITH NITROGEN PURGE SYSTEM SERVING COMPRESSOR SEALS AND COMPRESSOR CRANKCASES

- Conditions 3-16, 24-26, 31-33, 37 from the current PTO were included as conditions 1-14, 19-21, 26-28, 32 for the proposed permit.

k. S-71-15-10: SAFECAT FEEDSTOCK TREATMENT UNIT WITH 23 MMBTU/HR GAS-FIRED HEATER H-401 EQUIPPED WITH CALLIDUS MODEL CUBR-8P LOW-NOX BURNERS AND INTERNAL FGR

- Conditions 4-16, 26, 31-34, 38 from the current PTO were included as conditions 2-14, 24, 29-32, 36 for the proposed permit.

l. S-71-17-2: 267 BHP CATERPILLAR MODEL 3306, DIESEL FUELED I.C. ENGINE POWERING AN EMERGENCY FIREWATER PUMP

- Conditions 6, 8, 10-12 from the current PTO were included as conditions 3, 6, 8-10 for the proposed permit.

m. S-71-27-1: 108,047 GALLON NATURAL GASOLINE/LPG STORAGE TANK

- Conditions 7-10 from the current PTO were included as conditions 4-7 for the proposed permit.

n. S-71-28-1: 108,047 GALLON NATURAL GASOLINE/LPG STORAGE TANK

- Conditions 7-10 from the current PTO were included as conditions 4-7 for the proposed permit.

o. S-71-29-1: DISTILLATION OPERATION INCLUDING MIXED USE DEISOBUTANIZER/DEBUTANIZER COLUMN, UNFIRED REBOILER, AND VARIOUS EXCHANGERS, PUMPS, AND APPURTENANCES

- Conditions 4-8, 12-13 from the current PTO were included as conditions 1-5, 9-10 for the proposed permit.

p. S-71-30-1: 21,000 GPM MECHANICAL DRAFT COOLING TOWER WITH HIGH EFFICIENCY CELLULAR TYPE DRIFT ELIMINATOR, FOUR (4) 450 HP CIRCULATION PUMPS, AND TDS CONTROL SYSTEM

- Conditions 4-7, 9 from the current PTO were included as conditions 2-5, 7 for the proposed permit.

3. District Rule 1081, Source Sampling

The purpose of this rule is to ensure that any source operation which emits or may emit air contaminants provides adequate and safe facilities for use in sampling to determine compliance. This rule also specifies methods and procedures for source testing, sample collection, and compliance determination.

a. S-71-4-15: BUTAMER-BUTANE ISOMERIZATION UNIT INCLUDING TWO BUTANE FEED DRYERS V-102A/B, HYDROGEN MAKE-UP DRYER V-106, TWO REGENERANT DRYERS V-107A/B, ONE 80 MMBTU/HR GAS-FIRED PROCESS OIL HEATER H-201 WITH SIX MODEL CUBR-10W LOW-NOX BURNERS AND FUEL PIPING SHARED WITH PERMIT #S-71-1

- Conditions 31, 32, 36 comply with the requirements of this rule.

b. S-71-5-9: 10.28 MMBTU/HR HYDROGEN PLANT INCLUDING ONE STEAM METHANE REFORMER FURNACE #H-301 EQUIPPED WITH CALLIDUS, MODEL LE-CSG-8W-PSA, LOW-NOX BURNER, AND TWO HYDRODESULFURIZER REACTORS (R-301 A/B)

- Conditions 6, 23, 24, 28 comply with the requirements of this rule.

c. S-71-14-12: BUTAMER-BUTANE ISOMERIZATION UNIT #2 WITH 105 MMBTU/HR GAS-FIRED HOT OIL HEATER H-202 EQUIPPED WITH CALLIDUS MODEL CUBR-12W LOW-NOX BURNERS AND INTERNAL FGR, WITH NITROGEN PURGE SYSTEM SERVING COMPRESSOR SEALS AND COMPRESSOR CRANKCASES

- Conditions 15, 22-25 comply with the requirements of this rule.

d. S-71-15-10: SAFECAT FEEDSTOCK TREATMENT UNIT WITH 23 MMBTU/HR GAS-FIRED HEATER H-401 EQUIPPED WITH CALLIDUS MODEL CUBR-8P LOW-NOX BURNERS AND INTERNAL FGR

- Conditions 15, 22, 23, 27 comply with the requirements of this rule.

e. S-71-30-1: 21,000 GPM MECHANICAL DRAFT COOLING TOWER WITH HIGH EFFICIENCY CELLULAR TYPE DRIFT ELIMINATOR, FOUR (4) 450 HP CIRCULATION PUMPS, AND TDS CONTROL SYSTEM

- Condition 6 complies with the requirements of this rule.

4. 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.

In Section 9.3.2, where applicable requirements do not require periodic testing or instrumental or non-instrumental monitoring, periodic monitoring to yield reliable data for the relevant time period that are representative of the source's compliance with the permit.

Section 9.4.2 requires that all required monitoring data and support information be retained for a period of at least 5 years from the date of monitoring sample, measurement, or report.

a. S-71-0-1: Facility-wide requirements
Conditions on the facility wide permit apply to all of the permits at the facility.
   - Conditions 5, 8-21, 26, and 36-38 comply with the requirements of this rule.

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 (40CFR Part 98) is not included in the definition of an applicable requirement within Title V (per 40CFR 71.2). Therefore, there will be no further discussion of GHG in this evaluation.

5. District Rule 4201, Particulate Matter Concentration

The purpose of this rule is to protect the ambient air quality by establishing a particulate matter emission standard. A person shall not release or discharge into the atmosphere from any single source operation, dust, fumes, or total suspended particulate matter emissions in excess of 0.1 grain per cubic foot of gas at dry standard conditions.

a. S-71-7-3: 320 BHP DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP

- Condition 1 assures compliance with the requirements of this rule.

b. S-71-8-3: 55 BHP NATURAL GAS-FIRED EMERGENCY I C ENGINE POWERING A WATER WELL PUMP

- Condition 5 assures compliance with the requirements of this rule.

c. S-71-10-4: 208 BHP DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP

- Condition 1 assures compliance with the requirements of this rule.

d. S-71-17-2: 267 BHP CATERPILLAR MODEL 3306, DIESEL FUELED I.C. ENGINE POWERING AN EMERGENCY FIREWATER PUMP

- Condition 1 assures compliance with the requirements of this rule.

6. District Rule 4301, Fuel Burning Equipment

The purpose of this rule is to limit the emission of air contaminants from fuel burning equipment. This rule limits the concentration of combustion contaminants and specifies maximum emission rates for sulfur dioxide, nitrogen oxide and combustion contaminant emissions.

a. S-71-4-15: BUTAMER-BUTANE ISOMERIZATION UNIT INCLUDING TWO BUTANE FEED DRYERS V-102A/B, HYDROGEN MAKE-UP DRYER V-106, TWO REGENERANT DRYERS V-107A/B, ONE 80 MMBTU/HR GAS-FIRED PROCESS OIL HEATER H-201 WITH SIX MODEL CUBR-10W LOW-NOX BURNERS AND FUEL PIPING SHARED WITH PERMIT #S-71-1

- Conditions 41 comply with the requirements of this rule.

b. S-71-14-12: BUTAMER-BUTANE ISOMERIZATION UNIT #2 WITH 105 MMBTU/HR GAS-FIRED HOT OIL HEATER H-202 EQUIPPED WITH CALLIDUS MODEL CUBR-12W LOW-NOX BURNERS AND INTERNAL FGR, WITH NITROGEN PURGE SYSTEM SERVING COMPRESSOR SEALS AND COMPRESSOR CRANKCASES

- Conditions 26 comply with the requirements of this rule.

c. S-71-15-10: SAFECAT FEEDSTOCK TREATMENT UNIT WITH 23 MMBTU/HR GAS-FIRED HEATER H-401 EQUIPPED WITH CALLIDUS MODEL CUBR-8P LOW-NOX BURNERS AND INTERNAL FGR

- Conditions 30 comply with the requirements of this rule.

7. District Rule 4305, BOILERS, STEAM GENERATORS, AND PROCESS HEATERS - PHASE 2

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

a. S-71-4-15: BUTAMER-BUTANE ISOMERIZATION UNIT INCLUDING TWO BUTANE FEED DRYERS V-102A/B, HYDROGEN MAKE-UP DRYER V-106, TWO REGENERANT DRYERS V-107A/B, ONE 80 MMBTU/HR GAS-FIRED PROCESS OIL HEATER H-201 WITH SIX MODEL CUBR-10W LOW-NOX BURNERS AND FUEL PIPING SHARED WITH PERMIT #S-71-1

- Conditions 25-30, 33-35, 37, 38, 41 comply with the requirements of this rule.

b. S-71-5-9: 10.28 MMBTU/HR HYDROGEN PLANT INCLUDING ONE STEAM METHANE REFORMER FURNACE #H-301 EQUIPPED WITH CALLIDUS, MODEL LE-CSG-8W-PSA, LOW-NOX BURNER, AND TWO HYDRODESULFURIZER REACTORS (R-301 A/B)

- Conditions 5, 12, 18-22, 25-27, 29, 30 comply with the requirements of this rule.

c. S-71-14-12: BUTAMER-BUTANE ISOMERIZATION UNIT #2 WITH 105 MMBTU/HR GAS-FIRED HOT OIL HEATER H-202 EQUIPPED WITH CALLIDUS MODEL CUBR-12W LOW-NOX BURNERS AND INTERNAL FGR, WITH NITROGEN PURGE SYSTEM SERVING COMPRESSOR SEALS AND COMPRESSOR CRANKCASES

- Conditions 16-21, 25, 26 comply with the requirements of this rule.

d. S-71-15-10: SAFECAT FEEDSTOCK TREATMENT UNIT WITH 23 MMBTU/HR GAS-FIRED HEATER H-401 EQUIPPED WITH CALLIDUS MODEL CUBR-8P LOW-NOX BURNERS AND INTERNAL FGR

- Conditions 16-21, 24-26, 28-30 comply with the requirements of this rule.

8. District Rule 4306, BOILERS, STEAM GENERATORS, AND PROCESS HEATERS - PHASE 3

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

a. S-71-4-15: BUTAMER-BUTANE ISOMERIZATION UNIT INCLUDING TWO BUTANE FEED DRYERS V-102A/B, HYDROGEN MAKE-UP DRYER V-106, TWO REGENERANT DRYERS V-107A/B, ONE 80 MMBTU/HR GAS-FIRED PROCESS OIL HEATER H-201 WITH SIX MODEL CUBR-10W LOW-NOX BURNERS AND FUEL PIPING SHARED WITH PERMIT #S-71-1

- Conditions 25-30, 33-35, 37, 38, 41 comply with the requirements of this rule.

b. S-71-5-9: 10.28 MMBTU/HR HYDROGEN PLANT INCLUDING ONE STEAM METHANE REFORMER FURNACE #H-301 EQUIPPED WITH CALLIDUS, MODEL LE-CSG-8W-PSA, LOW-NOX BURNER, AND TWO HYDRODESULFURIZER REACTORS (R-301 A/B)

- Conditions 5, 12, 18-22, 25-27, 29, 30 comply with the requirements of this rule.

c. S-71-14-12: BUTAMER-BUTANE ISOMERIZATION UNIT #2 WITH 105 MMBTU/HR GAS-FIRED HOT OIL HEATER H-202 EQUIPPED WITH CALLIDUS MODEL CUBR-12W LOW-NOX BURNERS AND INTERNAL FGR, WITH NITROGEN PURGE SYSTEM SERVING COMPRESSOR SEALS AND COMPRESSOR CRANKCASES

- Conditions 16-21, 25, 26 comply with the requirements of this rule.

d. S-71-15-10: SAFECAT FEEDSTOCK TREATMENT UNIT WITH 23 MMBTU/HR GAS-FIRED HEATER H-401 EQUIPPED WITH CALLIDUS MODEL CUBR-8P LOW-NOX BURNERS AND INTERNAL FGR

- Conditions 16-21, 24-26, 28-30 comply with the requirements of this rule.

9. **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. S-71-4-15: BUTAMER-BUTANE ISOMERIZATION UNIT INCLUDING TWO BUTANE FEED DRYERS V-102A/B, HYDROGEN MAKE-UP DRYER V-106, TWO REGENERANT DRYERS V-107A/B, ONE 80 MMBTU/HR GAS-FIRED PROCESS OIL HEATER H-201 WITH SIX MODEL CUBR-10W LOW-NOX BURNERS AND FUEL PIPING SHARED WITH PERMIT #S-71-1

- Conditions 25-30, 33-35, 37, 38, 41 comply with the requirements of this rule.

e. S-71-5-9: 10.28 MMBTU/HR HYDROGEN PLANT INCLUDING ONE STEAM METHANE REFORMER FURNACE #H-301 EQUIPPED WITH CALLIDUS, MODEL LE-CSG-8W-PSA, LOW-NOX BURNER, AND TWO HYDRODESULFURIZER REACTORS (R-301 A/B)

- Conditions 5, 12, 18-22, 25-27, 29, 30, 32-34 comply with the requirements of this rule.

f. S-71-14-12: BUTAMER-BUTANE ISOMERIZATION UNIT #2 WITH 105 MMBTU/HR GAS-FIRED HOT OIL HEATER H-202 EQUIPPED WITH CALLIDUS MODEL CUBR-12W LOW-NOX BURNERS AND INTERNAL FGR, WITH NITROGEN PURGE SYSTEM SERVING COMPRESSOR SEALS AND COMPRESSOR CRANKCASES

- Conditions 16-21, 25, 26 comply with the requirements of this rule.

g. S-71-15-10: SAFECAT FEEDSTOCK TREATMENT UNIT WITH 23 MMBTU/HR GAS-FIRED HEATER H-401 EQUIPPED WITH CALLIDUS MODEL CUBR-8P LOW-NOX BURNERS AND INTERNAL FGR

- Conditions 16-21, 24-26, 28-30 comply with the requirements of this rule.

10. District Rule 4455, Components at Light Crude Oil Production Facilities, Natural Gas Production Facilities, and Natural Gas Processing Facilities

The purpose of this rule is to limit VOC emissions from leaking components at light crude oil production facilities, natural gas production facilities, and natural gas processing facilities.

a. S-71-1-8: LPG/NGL DISTILLATION OPERATION INCLUDING ONE DE-PROPANIZER/DE-BUTANIZER, ONE DE-PROPANIZER/STRIPPER, UNFIRED DE-ISOBUTANIZER REBOILER/LPG VAPORIZER, ONE DE-ISOBUTANIZER, AND ONE DE-BUTANIZER

- Conditions 2, 4, 9-58 comply with the requirements of this rule.

b. S-71-2-11: NATURAL GASOLINE AND LPG LOADING AND UNLOADING OPERATION WITH VAPOR CONTROL, TWO NATURAL GASOLINE AND LPG LOADING/UNLOADING RACKS, TWO LPG LOADING/UNLOADING RACKS, THREE 20,850 GALLON PRESSURIZED STORAGE TANKS, TWO 25 HP COMPRESSORS, PIPING TO PRESSURIZED (PERMIT EXEMPT) LPG TANKS, AND NITROGEN PURGE SYSTEM FOR LIQUID LINES, COMPRESSOR SEALS, AND COMPRESSOR CRANKCASES

- Conditions 14-16, 19 comply with the requirements of this rule.

c. S-71-3-11: LPG TRUCK LOADING/UNLOADING RACKS #4 & #5 INCLUDING (2) 25 HP COMPRESSORS, (4) 2" LIQUID UNLOADING HOSES, (4) 1" VAPOR RECOVERY HOSES, PIPING TO PERMIT EXEMPT LPG TANKAGE, AND NITROGEN PURGE SYSTEM SERVING LIQUID LINES AND COMPRESSOR SEALS AND CRANKCASES

- Conditions 9, 10, 12, 14 comply with the requirements of this rule.

d. S-71-4-15: BUTAMER-BUTANE ISOMERIZATION UNIT INCLUDING TWO BUTANE FEED DRYERS V-102A/B, HYDROGEN MAKE-UP DRYER V-106, TWO REGENERANT DRYERS V-107A/B, ONE 80 MMBTU/HR GAS-FIRED PROCESS OIL HEATER H-201 WITH SIX MODEL CUBR-10W LOW-NOX BURNERS AND FUEL PIPING SHARED WITH PERMIT #S-71-1

- Conditions 21-23, 42 comply with the requirements of this rule.

e. S-71-6-6: LPG TRUCK LOADING/UNLOADING RACKS #6 & #7 INCLUDING (10) LOADING/CHARGE PUMPS NOT TO EXCEED 30 HP EACH, (6) LIQUID UNLOADING HOSES, (6) VAPOR RECOVERY HOSES, NITROGEN PURGE SYSTEM FOR LIQUID LINES, AND PIPING TO/FROM PERMIT EXEMPT LPG TANKAGE

- Conditions 8-10, 12 comply with the requirements of this rule.

f. S-71-12-8: RAILCAR LPG/NATURAL GASOLINE LOADING/UNLOADING OPERATION WITH FIFTEEN LPG/NATURAL GASOLINE LOADING/UNLOADING STATIONS INCLUDING: ELEVATED RACK SYSTEM UTILIZING HARD PIPING AND SWIVEL JOINTS; AND NITROGEN PURGE SYSTEM SERVING LIQUID LINES, COMPRESSOR SEALS, AND COMPRESSOR CRANKCASES

- Conditions 16-18, 20 comply with the requirements of this rule.

g. S-71-14-12: BUTAMER-BUTANE ISOMERIZATION UNIT #2 WITH 105 MMBTU/HR GAS-FIRED HOT OIL HEATER H-202 EQUIPPED WITH CALLIDUS MODEL CUBR-12W LOW-NOX BURNERS AND INTERNAL FGR, WITH NITROGEN PURGE SYSTEM SERVING COMPRESSOR SEALS AND COMPRESSOR CRANKCASES

- Conditions 29-31, 33 comply with the requirements of this rule.

h. S-71-15-10: SAFECAT FEEDSTOCK TREATMENT UNIT WITH 23 MMBTU/HR GAS-FIRED HEATER H-401 EQUIPPED WITH CALLIDUS MODEL CUBR-8P LOW-NOX BURNERS AND INTERNAL FGR

- Conditions 33-35, 37 comply with the requirements of this rule.

i. S-71-29-1: DISTILLATION OPERATION INCLUDING MIXED USE DEISOBUTANIZER/DEBUTANIZER COLUMN, UNFIRED REBOILER, AND VARIOUS EXCHANGERS, PUMPS, AND APPURTENANCES

- Conditions 6-8, 10 comply with the requirements of this rule.

11. District Rule 4623, Storage of Organic Liquids

The purpose of this rule is to limit volatile organic compound (VOC) emissions from the storage of organic liquids. The rule applies to any tank with a capacity of 1,100 gallons or greater in which any organic liquid is placed, held, or stored.

Section 4.1.1 states that the provisions of this rule shall not apply to pressure vessels as defined in section 3.24. The tanks at the facility are pressure vessels as shown below.

a. S-71-18-1: 14,544 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #1

   - Condition 1 complies with the requirements of this rule.

b. S-71-19-1: 14,544 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #2

   - Condition 1complies with the requirements of this rule.

c. S-71-20-1: 16,505 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #3

   - Condition 1 complies with the requirements of this rule.

d. S-71-21-1: 15,000 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #4

   - Condition 1 complies with the requirements of this rule.

e. S-71-22-1: 15,249 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #5

   - Condition 1 complies with the requirements of this rule.

f. S-71-23-1: 15,187 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #6

   - Condition 1 complies with the requirements of this rule.

g. S-71-24-1: 98,913 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #64

   - Condition 1 complies with the requirements of this rule.

h. S-71-25-1: 98,913 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #65

   - Condition 1 complies with the requirements of this rule.

i. S-71-26-1: 98,913 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #66

- Condition 1 complies with the requirements of this rule.

j. S-71-27-1: 108,047 GALLON NATURAL GASOLINE/LPG STORAGE TANK

- Condition 1 complies with the requirements of this rule.

k. S-71-28-1: 108,047 GALLON NATURAL GASOLINE/LPG STORAGE TANK

- Condition 1 complies with the requirements of this rule.

12. District Rule 4624, Transfer of Organic Liquid

The purpose of this rule is to limit VOC emissions from the transfer of organic liquids. The rule applies to organic liquid transfer facilities.

a. S-71-2-11: NATURAL GASOLINE AND LPG LOADING AND UNLOADING OPERATION WITH VAPOR CONTROL, TWO NATURAL GASOLINE AND LPG LOADING/UNLOADING RACKS, TWO LPG LOADING/UNLOADING RACKS, THREE 20,850 GALLON PRESSURIZED STORAGE TANKS, TWO 25 HP COMPRESSORS, PIPING TO PRESSURIZED (PERMIT EXEMPT) LPG TANKS, AND NITROGEN PURGE SYSTEM FOR LIQUID LINES, COMPRESSOR SEALS, AND COMPRESSOR CRANKCASES

- Conditions 1-2, 20-30 comply with the requirements of this rule.

b. S-71-3-11: LPG TRUCK LOADING/UNLOADING RACKS #4 & #5 INCLUDING (2) 25 HP COMPRESSORS, (4) 2" LIQUID UNLOADING HOSES, (4) 1" VAPOR RECOVERY HOSES, PIPING TO PERMIT EXEMPT LPG TANKAGE, AND NITROGEN PURGE SYSTEM SERVING LIQUID LINES AND COMPRESSOR SEALS AND CRANKCASES

- Conditions 1-2, 13, 15-25 comply with the requirements of this rule.

c. S-71-6-6: LPG TRUCK LOADING/UNLOADING RACKS #6 & #7 INCLUDING (10) LOADING/CHARGE PUMPS NOT TO EXCEED 30 HP EACH, (6) LIQUID UNLOADING HOSES, (6) VAPOR RECOVERY HOSES, NITROGEN

PURGE SYSTEM FOR LIQUID LINES, AND PIPING TO/FROM PERMIT EXEMPT LPG TANKAGE

- Conditions 4-5, 13-23 comply with the requirements of this rule.

d. S-71-12-8: RAILCAR LPG/NATURAL GASOLINE LOADING/UNLOADING OPERATION WITH FIFTEEN LPG/NATURAL GASOLINE LOADING/UNLOADING STATIONS INCLUDING: ELEVATED RACK SYSTEM UTILIZING HARD PIPING AND SWIVEL JOINTS; AND NITROGEN PURGE SYSTEM SERVING LIQUID LINES, COMPRESSOR SEALS, AND COMPRESSOR CRANKCASES

- Conditions 10, 21-31 comply with the requirements of this rule.

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

Pursuant to Section 7.5.2.3 of District Rule 4702, as of June 1, 2006 District Rule 4701 is no longer applicable to diesel-fired emergency standby or emergency IC engines. Therefore, this diesel-fired emergency IC engine will comply with the requirements of District Rule 4702 and no further discussion is required.

14. District Rule 4702, Internal Combustion Engines–Phase 2

The purpose of this rule is to limit the emissions of nitrogen oxides (NO_X), carbon monoxide (CO), and volatile organic compounds (VOC) from internal combustion engines. This rule applies to any internal combustion (IC) engine with a rated brake horsepower greater than 50 horsepower.

The SIP approved version of Rule 4702 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. Therefore, compliance with the currently applicable requirements of 8/18/11 amendments demonstrates compliance with the requirements of the SIP approved version of Rule 4702.

a. S-71-7-3: 320 BHP DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP

- Conditions 3-6, 20 comply with the requirements of this rule.

b. S-71-8-3: 55 BHP NATURAL GAS-FIRED EMERGENCY I C ENGINE POWERING A WATER WELL PUMP

- Conditions 1-4, 7, 15 comply with the requirements of this rule.

c. S-71-10-4: 208 BHP DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP

- Conditions 3-6, 20 comply with the requirements of this rule.

d. S-71-17-2: 267 BHP CATERPILLAR MODEL 3306, DIESEL FUELED I.C. ENGINE POWERING AN EMERGENCY FIREWATER PUMP

- Conditions 4-7, 18 comply with the requirements of this rule.

15. 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.

Section 3.1 and 3.2 set forth the emissions 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. District Rule 4801 is at least as stringent as the county SIP rule addressing breakdowns, as demonstrated in Table 3.

Comparison of District Rule 4801 to Kern County Rule 407

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 (SO2), 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	

Therefore, the following conditions that include testing and recordkeeping assure compliance with the rule.

a. S-71-7-3: 320 BHP DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP

- Condition 7 complies with the requirements of this rule.

b. S-71-10-4: 208 BHP DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP

- Condition 7 complies with the requirements of this rule.

c. S-71-17-2: 267 BHP CATERPILLAR MODEL 3306, DIESEL FUELED I.C. ENGINE POWERING AN EMERGENCY FIREWATER PUMP

- Condition 8 complies with the requirements of this rule.

16. 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 storage tanks S-71-18, S-71-19, S-71-20, S-71-21, S-71-22, S-71-23, S-71-24, S-71-25, S-71-26, S-71-27, S-71-28 are all pressure vessels which are designed to operate in excess of 204.9 kPa without emissions to the atmosphere therefore, subpart Kb does not apply.

17. 40 CFR Part 60, Subpart VV, Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemical Manufacturing Industry for which Construction, Reconstruction, or Modification Commenced After January 5, 1981, and on or Before November 7, 2006

The facility does not produce as an intermediate or final product, one or more of the chemicals listed in §60.489 therefore, subpart VV does not apply.

18. 40 CFR Part 60, Subpart GGG, Standards of Performance for Equipment Leaks of VOC in Petroleum Refineries for which Construction, Reconstruction, or Modification Commenced after January 4, 1983, and on or Before November 7, 2006

The facility is not a "petroleum refinery" as defined by section GGG therefore, subpart GGG does not apply.

19. 40 CFR Part 60, Subpart KKK, Standards of Performance for Equipment Leaks of VOC From Onshore Natural Gas Processing Plants

The facility does not fractionate or extract natural gas liquids. The butane that is produced is used as a feedstock for refinery processes. The butane produced is not the end product. Therefore, the subpart is not applicable to this facility.

20. 40 CFR Part 60 Subpart LLL, Standards of Performance for Onshore Natural Gas Processing: SO2 Emissions

This subpart is not applicable to the facility because the facility does not have any sweetening units or sulfur recovery units.

21. 40 CFR Part 60, Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

This subpart applies to owners and operators of stationary compression ignition (CI) internal combustion engines (ICE) that commence construction, modification, or reconstruction after June 12, 2006. All the engines were constructed, modified or reconstructed prior to June 12, 2006 therefore, this subpart does not apply.

22. 40 CFR Part 60, Subpart JJJJ, Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

This subpart applies to owners and operators of stationary spark ignition (SI) internal combustion engines (ICE) that commence construction, modification, or reconstruction after June 12, 2006. All the engines were constructed, modified or reconstructed prior to June 12, 2006; therefore, this subpart does not apply.

23. 40 CFR Part 63, Subpart Q, National Emission Standards for Hazardous Air Pollutants for Industrial Process Cooling Towers

This subpart applies to industrial process cooling towers. The Subpart is to limit the chromium compounds.

a. S-71-30-1: 21,000 GPM MECHANICAL DRAFT COOLING TOWER WITH HIGH EFFICIENCY CELLULAR TYPE DRIFT ELIMINATOR,

FOUR (4) 450 HP CIRCULATION PUMPS, AND TDS CONTROL SYSTEM

- Condition 1 complies with the requirements of this subpart.

24. 40 CFR Part 63, Subpart HH, National Emission Standards for Hazardous Air Pollutants from Oil and Natural Gas Production Facilities

40 CFR 63, Subpart HH provides national emission standards for hazardous air pollutants (HAPs) from oil and natural gas production facilities. This facility processes the product after custody transfer therefore, this rule is not applicable.

25. 40 CFR Part 63, Subpart OO, National Emission Standards for Tanks - Level 1

40 CFR 63, Subpart OO provides standards for controlling emissions from fixed roof tanks when the subpart is referenced in another related Subpart. Subpart OO is not referenced in the other applicable standards. Therefore, Subpart OO does not apply to the equipment at this facility.

26. 40 CFR Part 63, Subpart SS, National Emission Standards for Closed Vent Systems, Control Devices, Recovery Devices and Routing to a Fuel Gas System or a Process

40 CFR 63, Subpart SS provides standards for controlling emissions from closed vent systems, control devices, recovery devices, and routing to a fuel gas system or process when the subpart is referenced in another related Subpart. Subpart SS is not referenced in the other applicable standards. Therefore, Subpart SS does not apply to the equipment at this facility.

27. 40 CFR Part 63, Subpart TT, National Emission Standards for Equipment Leaks - Control Level 1

40 CFR 63, Subpart TT provides standards for controlling emissions from equipment leaks when the subpart is referenced in another related Subpart. Subpart TT is not referenced in the other applicable standards. Therefore, Subpart TT does not apply to the equipment at this facility.

28. 40 CFR Part 63, Subpart UU, National Emission Standards for Equipment Leaks - Control Level 2

40 CFR 63, Subpart UU provides standards for controlling emissions from equipment leaks when the subpart is referenced in another related Subpart. Subpart UU is not referenced in the other applicable standards. Therefore, Subpart UU does not apply to the equipment at this facility.

29. 40 CFR Part 63, Subpart WW, National Emission Standards for Storage Vessels (Tanks) - Control Level 2

40 CFR 63, Subpart WW provides standards for controlling emissions from storage vessels when the subpart is referenced in another related Subpart. Subpart WW is not referenced in the other applicable standards. Therefore, Subpart WW does not apply to the equipment at this facility.

30. 40 CFR Part 63, Subpart HHH, National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities

The requirements of 40 CFR Part 63, Subpart HHH (National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities) applies to facilities that transport or store natural gas prior to entering the pipeline to a local distribution company or to a final end user (if there is no local distribution company) and that is a Major HAP source (as defined in 40 CFR 63.2 — Definitions). The facility's HAP emissions are below Major HAP Source thresholds. Therefore, the requirements of this regulation do not apply.

31. 40 CFR Part 63, Subpart EEEE, National Emission Standard for Hazardous Air Pollutants: Organic Liquids Distribution (Non-Gasoline)

The requirements of 40 CFR Part 63, Subpart EEEE (National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non-Gasoline)) applies to organic liquids distribution facilities that are also a Major HAP source (as defined in 40 CFR 63.2 — Definitions). The facility's HAP emissions are below Major HAP Source thresholds. Therefore, the requirements of this regulation do not apply.

32. 40 CFR Part 63, Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

This subpart 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. The engines have standards, monitoring,

recordkeeping and reporting requirements which are determined by reviewing the subpart.

Engines
S-71-7, S-71-10, and S-71-17 comply with the following requirements:
Standard
§63.6603(a)-Table 2d.4
§63.6595(a)(1)
§63.6605(a)-(b)
§63.6625(e), (h), (i)
§63.6640(b), (f)(1)
Monitoring/Testing
§63.6625(f), (i)
§63.6640(a)
§63.6640(a)-Table 6.9.a.i-ii, (b)
Recordkeeping
§63.6625(i)
§63.6655(a), (a)(1)-(2), (a)(4)-(5), (d)-(f)
§63.6660(a)-(c)
Reporting
§63.6640(b), (e)
§63.6650(f)

Engine S-71-7-3 conditions 3-4, 13-20 assure compliance with the requirements of Subpart ZZZZ.

Engine S-71-10-4 conditions 23 through 31 assure compliance with the requirements of Subpart ZZZZ.

Engine S-71-17-2 conditions 4-5, 7, 11-18 assure compliance with the requirements of Subpart ZZZZ.

Engine S-71-8 complies with the following requirements:

Standard
§63.6603(a)-Table 2d.5
§63.6595(a)(1)
§63.6605(a), (b)
§63.6625(e), (h), (j)
§63.6640(b), (f)(1)
Monitoring/Testing
§63.6625(f), (j)
§63.6640(a)
§63.6640(a)-Table 6.9.a.i-ii
§63.6640(b)

Recordkeeping
§63.6625(j)
§63.6655(a), (a)(1)-(2), (a)(4)-(5)
§63.6655(d)-(f)
§63.6660(a)-(c)
Reporting
§63.6640(b), (e)
§63.6650(f)

Engine S-71-8-3 conditions 1-2, 7-15 assure compliance with the requirements of Subpart ZZZZ.

33. 40 CFR Parts 64, Compliance Assurance Monitoring (CAM)

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

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

a. S-71-1-8: LPG/NGL DISTILLATION OPERATION INCLUDING ONE DE-PROPANIZER/DE-BUTANIZER, ONE DE-PROPANIZER/STRIPPER, UNFIRED DE-ISOBUTANIZER REBOILER/LPG VAPORIZER, ONE DE-ISOBUTANIZER, AND ONE DE-BUTANIZER

The gas plant does not have any add on controls to control VOC emissions (which are fugitive in nature). Therefore, CAM is not required.

b. S-71-2-11: NATURAL GASOLINE AND LPG LOADING AND UNLOADING OPERATION WITH VAPOR CONTROL, TWO NATURAL GASOLINE AND LPG LOADING/UNLOADING RACKS, TWO LPG LOADING/UNLOADING RACKS, THREE 20,850 GALLON PRESSURIZED STORAGE TANKS, TWO 25 HP COMPRESSORS, PIPING TO PRESSURIZED (PERMIT EXEMPT) LPG TANKS, AND NITROGEN PURGE SYSTEM FOR LIQUID LINES, COMPRESSOR SEALS, AND COMPRESSOR CRANKCASES

The unit's VOC control system consists of venting the collected vapors to a gas pipeline that is not a control device as defined in the CAM rule. Therefore, the permit unit is not subject to CAM.

c. S-71-3-11: LPG TRUCK LOADING/UNLOADING RACKS #4 & #5 INCLUDING (2) 25 HP COMPRESSORS, (4) 2" LIQUID UNLOADING HOSES, (4) 1" VAPOR RECOVERY HOSES, PIPING TO PERMIT EXEMPT LPG TANKAGE, AND NITROGEN PURGE SYSTEM SERVING LIQUID LINES AND COMPRESSOR SEALS AND CRANKCASES

The unit's VOC control system consists of venting the collected vapors to a gas pipeline that is not a control device as defined in the CAM rule. Therefore, the permit unit is not subject to CAM.

d. S-71-4-15: BUTAMER-BUTANE ISOMERIZATION UNIT INCLUDING TWO BUTANE FEED DRYERS V-102A/B, HYDROGEN MAKE-UP DRYER V-106, TWO REGENERANT DRYERS V-107A/B, ONE 80 MMBTU/HR GAS-FIRED PROCESS OIL HEATER H-201 WITH SIX MODEL CUBR-10W LOW-NOX BURNERS AND FUEL PIPING SHARED WITH PERMIT #S-71-1

The unit does not have any add on control. Therefore, the permit unit is not subject to CAM.

e. S-71-5-9: 10.28 MMBTU/HR HYDROGEN PLANT INCLUDING ONE STEAM METHANE REFORMER FURNACE #H-301 EQUIPPED WITH CALLIDUS, MODEL LE-CSG-8W-PSA, LOW-NOX BURNER, AND TWO HYDRODESULFURIZER REACTORS (R-301 A/B)

The unit does not have any add on control. Therefore, the permit unit is not subject to CAM.

f. S-71-6-6: LPG TRUCK LOADING/UNLOADING RACKS #6 & #7 INCLUDING (10) LOADING/CHARGE PUMPS NOT TO EXCEED 30 HP EACH, (6) LIQUID UNLOADING HOSES, (6) VAPOR RECOVERY HOSES, NITROGEN PURGE SYSTEM FOR LIQUID LINES, AND PIPING TO/FROM PERMIT EXEMPT LPG TANKAGE

The unit's VOC control system consists of venting the collected vapors to a gas pipeline that is not a control device as defined in the CAM rule. Therefore, the permit unit is not subject to CAM.

g. S-71-7-3: 320 BHP DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP

The unit does not have any add on control. Therefore, the permit unit is not subject to CAM.

h. S-71-8-3: 55 BHP NATURAL GAS-FIRED EMERGENCY I C ENGINE POWERING A WATER WELL PUMP

The unit does not have any add on control. Therefore, the permit unit is not subject to CAM.

i. S-71-10-4: 208 BHP DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP

The unit does not have any add on control. Therefore, the permit unit is not subject to CAM.

j. S-71-12-8: RAILCAR LPG/NATURAL GASOLINE LOADING/UNLOADING OPERATION WITH FIFTEEN LPG/NATURAL GASOLINE LOADING/UNLOADING STATIONS INCLUDING: ELEVATED RACK SYSTEM UTILIZING HARD PIPING AND SWIVEL JOINTS; AND NITROGEN PURGE SYSTEM SERVING LIQUID LINES, COMPRESSOR SEALS, AND COMPRESSOR CRANKCASES

The unit's VOC control system consists of venting the collected vapors to a gas pipeline that is not a control device as defined in the CAM rule. Therefore, the permit unit is not subject to CAM.

k. S-71-14-12: BUTAMER-BUTANE ISOMERIZATION UNIT #2 WITH 105 MMBTU/HR GAS-FIRED HOT OIL HEATER H-202 EQUIPPED WITH CALLIDUS MODEL CUBR-12W LOW-NOX BURNERS AND INTERNAL FGR, WITH NITROGEN PURGE SYSTEM SERVING COMPRESSOR SEALS AND COMPRESSOR CRANKCASES

The unit does not have any add on control. The low-NOx burner has internal FGR which cannot be removed, adjusted or replaced once the burner is installed. Therefore, the permit unit is not subject to CAM.

l. S-71-15-10: SAFECAT FEEDSTOCK TREATMENT UNIT WITH 23 MMBTU/HR GAS-FIRED HEATER H-401 EQUIPPED WITH CALLIDUS MODEL CUBR-8P LOW-NOX BURNERS AND INTERNAL FGR

The unit does not have any add on control. The low-NOx burner has internal FGR which cannot be removed, adjusted or replaced once the burner is installed. Therefore, the permit unit is not subject to CAM.

m. S-71-17-2: 267 BHP CATERPILLAR MODEL 3306, DIESEL FUELED I.C. ENGINE POWERING AN EMERGENCY FIREWATER PUMP

The engine does not have any add on control equipment in addition the engine does not have annual emissions over the major source threshold. Therefore, the permit unit is not subject to CAM.

n. S-71-18-1: 14,544 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #1

The unit's VOC control system consists of venting the collected vapors to a gas pipeline that is not a control device as defined in the CAM rule. Therefore, the permit unit is not subject to CAM.

o. S-71-19-1: 14,544 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #2

The unit's VOC control system consists of venting the collected vapors to a gas pipeline that is not a control device as defined in the CAM rule. Therefore, the permit unit is not subject to CAM.

p. S-71-20-1: 16,505 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #3

The unit's VOC control system consists of venting the collected vapors to a gas pipeline that is not a control device as defined in the CAM rule. Therefore, the permit unit is not subject to CAM.

q. S-71-21-1: 15,000 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #4

The unit's VOC control system consists of venting the collected vapors to a gas pipeline that is not a control device as defined in the CAM rule. Therefore, the permit unit is not subject to CAM.

r. S-71-22-1: 15,249 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #5

The unit's VOC control system consists of venting the collected vapors to a gas pipeline that is not a control device as defined in the CAM rule. Therefore, the permit unit is not subject to CAM.

s. S-71-23-1: 15,187 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #6

The unit's VOC control system consists of venting the collected vapors to a gas pipeline that is not a control device as defined in the CAM rule. Therefore, the permit unit is not subject to CAM.

t. S-71-24-1: 98,913 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #64

The unit's VOC control system consists of venting the collected vapors to a gas pipeline that is not a control device as defined in the CAM rule. Therefore, the permit unit is not subject to CAM.

u. S-71-25-1: 98,913 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #65

The unit's VOC control system consists of venting the collected vapors to a gas pipeline that is not a control device as defined in the CAM rule. Therefore, the permit unit is not subject to CAM.

v. S-71-26-1: 98,913 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #66

The unit's VOC control system consists of venting the collected vapors to a gas pipeline that is not a control device as defined in the CAM rule. Therefore, the permit unit is not subject to CAM.

w. S-71-27-1: 108,047 GALLON NATURAL GASOLINE/LPG STORAGE TANK

The unit's VOC control system consists of venting the collected vapors to a gas pipeline that is not a control device as defined in the CAM rule. Therefore, the permit unit is not subject to CAM.

x. S-71-28-1: 108,047 GALLON NATURAL GASOLINE/LPG STORAGE TANK

The unit's VOC control system consists of venting the collected vapors to a gas pipeline that is not a control device as defined in the CAM rule. Therefore, the permit unit is not subject to CAM.

y. S-71-29-1: DISTILLATION OPERATION INCLUDING MIXED USE DEISOBUTANIZER/DEBUTANIZER COLUMN, UNFIRED REBOILER, AND VARIOUS EXCHANGERS, PUMPS, AND APPURTENANCES

The unit's VOC control system consists of venting the collected vapors to a gas pipeline that is not a control device as defined in the CAM rule. Therefore, the permit unit is not subject to CAM.

z. S-71-30-1: 21,000 GPM MECHANICAL DRAFT COOLING TOWER WITH HIGH EFFICIENCY CELLULAR TYPE DRIFT ELIMINATOR, FOUR (4) 450 HP CIRCULATION PUMPS, AND TDS CONTROL SYSTEM

The unit does not have any add on controls. Therefore, the permit unit is not subject to CAM.

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 each template.

XI. PERMIT CONDITIONS

See final operating permit beginning on the following page.

San Joaquin Valley
Air Pollution Control District

FACILITY: S-71-0-1 **EXPIRATION DATE:** 08/31/2016

FACILITY-WIDE REQUIREMENTS

1. {4362} The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
2. {4363} The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
3. {4364} The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0] Federally Enforceable Through Title V Permit
4. {4365} Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (12/20/07). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
5. {4366} The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.9.1 and 9.13.1] Federally Enforceable Through Title V Permit
6. {4367} A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031] Federally Enforceable Through Title V Permit
7. {4368} Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District. [District Rule 2040] Federally Enforceable Through Title V Permit
8. {4369} The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

9. {4370} The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

10. {4371} The operator shall submit reports of any required monitoring at least every six months unless a different frequency is required by an applicable requirement. All instances of deviations from permit requirements must be clearly identified in such reports. [District Rule 2520, 9.5.1] Federally Enforceable Through Title V Permit

11. {4372} Deviations from permit conditions must be promptly reported, including deviations attributable to upset conditions, as defined in the permit. For the purpose of this condition, promptly means as soon as reasonably possible, but no later than 10 days after detection. The report shall include the probable cause of such deviations, and any corrective actions or preventive measures taken. All required reports must be certified by a responsible official consistent with section 10.0 of District Rule 2520 (6/21/01). [District Rules 2520, 9.5.2 and 1100, 7.0] Federally Enforceable Through Title V Permit

12. {4373} If for any reason a permit requirement or condition is being challenged for its constitutionality or validity by a court of competent jurisdiction, the outcome of such challenge shall not affect or invalidate the remainder of the conditions or requirements in that permit. [District Rule 2520, 9.7] Federally Enforceable Through Title V Permit

13. {4374} It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. [District Rule 2520, 9.8.2] Federally Enforceable Through Title V Permit

14. {4375} The permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [District Rule 2520, 9.8.3] Federally Enforceable Through Title V Permit

15. {4376} The permit does not convey any property rights of any sort, or any exclusive privilege. [District Rule 2520, 9.8.4] Federally Enforceable Through Title V Permit

16. {4377} The Permittee shall furnish to the District, within a reasonable time, any information that the District may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the District copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to EPA along with a claim of confidentiality. [District Rule 2520, 9.8.5] Federally Enforceable Through Title V Permit

17. {4378} The permittee shall pay annual permit fees and other applicable fees as prescribed in Regulation III of the District Rules and Regulations. [District Rule 2520, 9.9] Federally Enforceable Through Title V Permit

18. {4379} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to enter the permittee's premises where a permitted source is located or emissions related activity is conducted, or where records must be kept under condition of the permit. [District Rule 2520, 9.13.2.1] Federally Enforceable Through Title V Permit

19. {4380} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. [District Rule 2520, 9.13.2.2] Federally Enforceable Through Title V Permit

20. {4381} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit. [District Rule 2520, 9.13.2.3] Federally Enforceable Through Title V Permit

21. {4382} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [District Rule 2520, 9.13.2.4] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

22. {4383} No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann #1 or equivalent to 20% opacity and greater, unless specifically exempted by District Rule 4101 (02/17/05). If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition, the more stringent visible emission limit shall supersede this condition. [District Rule 4101, and County Rules 401 (in all eight counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit

23. {4384} No person shall manufacture, blend, repackage, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in Table of Standards 1 effective until 12/30/10 or Table of Standards 2 effective on and after 1/1/11 of District Rule 4601 (12/17/09) for use or sale within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit

24. {4385} All VOC-containing materials subject to Rule 4601 (12/17/09) shall be stored in closed containers when not in use. [District Rule 4601, 5.4] Federally Enforceable Through Title V Permit

25. {4386} The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (12/17/09). [District Rule 4601, 6.1 and 6.3] Federally Enforceable Through Title V Permit

26. {4387} With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.13.1 and 10.0] Federally Enforceable Through Title V Permit

27. {4388} If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. [40 CFR 82 Subpart F] Federally Enforceable Through Title V Permit

28. {4389} If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B. [40 CFR Part 82, Subpart B] Federally Enforceable Through Title V Permit

29. {4390} Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8021 and 8011] Federally Enforceable Through Title V Permit

30. {4391} Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8031 and 8011] Federally Enforceable Through Title V Permit

31. {4392} An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8041 and 8011] Federally Enforceable Through Title V Permit

32. {4393} Whenever open areas are disturbed, or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8051 and 8011] Federally Enforceable Through Title V Permit

33. {4394} Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8061 and Rule 8011] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

34. {4395} Any unpaved vehicle/equipment area that anticipates more than 50 Average annual daily Trips (AADT) shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 150 vehicle trips per day (VDT) shall comply with the requirements of Section 5.1.2 of District Rule 8071. On each day that 25 or more VDT with 3 or more axles will occur on an unpaved vehicle/equipment traffic area, the owner/operator shall comply with the requirements of Section 5.1.3 of District Rule 8071. On each day when a special event will result in 1,000 or more vehicles that will travel/park on an unpaved area, the owner/operator shall comply with the requirements of Section 5.1.4 of District Rule 8071. All sources shall comply with the requirements of Section 5.0 of District Rule 8071 unless specifically exempted under Section 4.0 of Rule 8071 (9/16/2004) or Rule 8011 (8/19/2004). [District Rule 8071 and Rule 8011] Federally Enforceable Through Title V Permit

35. {4396} Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation). [40 CFR 61 Subpart M] Federally Enforceable Through Title V Permit

36. {4397} The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.16] Federally Enforceable Through Title V Permit

37. {4398} The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2] Federally Enforceable Through Title V Permit

38. {4399} When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permits shall apply. [District Rule 2520, 9.1.1] Federally Enforceable Through Title V Permit

39. {4400} Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: Rule 401 (Madera, Fresno, Kern, Kings, San Joaquin, Stanislaus, Tulare and Merced), Rule 110 (Fresno, Stanislaus, San Joaquin), Rule 109 (Merced), Rule 113 (Madera), Rule 111 (Kern, Tulare, Kings), and Rule 202 (Fresno, Kern, Tulare, Kings, Madera, Stanislaus, Merced, San Joaquin). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

40. {4401} Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (2/17/05); 4601 (12/17/09); 8021 (8/19/2004); 8031 (8/19/2004); 8041 (8/19/2004); 8051 (8/19/2004); 8061 (8/19/2004); and 8071 (9/16/2004). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

41. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-71-1-8 **EXPIRATION DATE:** 08/31/2016

SECTION: 35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:
LPG/NGL DISTILLATION OPERATION INCLUDING ONE DE-PROPANIZER/DE-BUTANIZER, ONE DE-PROPANIZER/STRIPPER, UNFIRED DE-ISOBUTANIZER REBOILER/LPG VAPORIZER, ONE DE-ISOBUTANIZER, AND ONE DE-BUTANIZER

PERMIT UNIT REQUIREMENTS

1. Process heat shall be supplied by hot oil system (Permit #'s S-71-4 and '-14) or hydrogen plant steam methane/LPG reformer furnace (Permit #S-71-5). [District Rule 2201] Federally Enforceable Through Title V Permit
2. Heat exchangers using cooling water shall be maintained leak-free as defined in Rule 4455. [District Rule 4455] Federally Enforceable Through Title V Permit
3. Steam for steam driven pumps shall be supplied from steam methane/LPG reformer furnace waste heat boiler (Permit No. S-71-5) only. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Permittee shall comply with all applicable inspection, maintenance, testing, and recordkeeping requirements of Rules 4455. [District Rule 4455] Federally Enforceable Through Title V Permit
5. Fugitive VOC emissions from permit unit shall not exceed 59.0 lb per day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Permittee shall maintain permit accurate fugitive component counts and resulting emissions calculated using CAPCOA's "California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities," Table IV-2c (Feb 1999), Screening Value Range emission factors. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Gas compressor seals and pump seals shall have no vapor leaks in excess of 10,000 ppmv above background when measured with a portable hydrocarbon detection instrument calibrated with methane in accordance with EPA Method 21. Gas compressor seals and pump seals shall have no leak of VOC in excess of 3 drops per minute. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Except for 1.3% of the valves, 0.5% of the connectors, and 0.5% of the flanges, fugitive piping components as defined in CAPCOA's "California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities" shall have no vapor leaks in excess of 10,000 ppmv above background when measured with a portable hydrocarbon detection instrument calibrated with methane in accordance with EPA Method 21. Fugitive components shall have no leaks of VOC in excess of 3 drops per minute. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

9. For the following equipment :V-1 fractionating tower, V-1 feed piping, V-1 bottoms piping, V-1 overhead piping, P-5A/B, P12A/B, five heat exchangers, V-20, V-4 fractionating tower, V-4 feed piping, V-4 piping to storage, six heat exchangers, pumps P-4A/B, inlet piping to E-9 LPG fuel gas vaporizer and outlet piping from E-9 LPG fuel gas vaporizer to off-gas system, any valve, flange, or connector with a vapor leak greater than 100 ppmv above background or any compressor seal or pump seal with a vapor leak greater than 500 ppmv above background (when measured with a portable hydrocarbon detection instrument calibrated with methane in accordance with EPA Method 21) shall be repaired in a manner consistent with the procedures specified in Rule 4455. [District Rules 2201and 4455] Federally Enforceable Through Title V Permit

10. The permittee shall not use any components that leak in excess of the applicable leak standards as specified in this permit. Components that have been found leaking in excess of the applicable leak standards of this rule may be used provided such leaking components have been identified with a tag for repair, are repaired, or are awaiting re-inspection after being repaired, within the applicable time period specified in this permit. [District Rule 4455] Federally Enforceable Through Title V Permit

11. For valves, threaded connections, and flanges subject to the requirements of Rule 4455, but not specified in this permit; a major gas leak is a detection of > 10,000 ppmv as methane; a minor gas leak is a detection of 200 to 10,000 ppmv as methane when the component is in liquid service; a minor gas leak is a detection of 400 to 10,000 ppmv as methane when the component is in gas/vapor service. [District Rule 4455] Federally Enforceable Through Title V Permit

12. For pressure relief devices (PRDs); a major gas leak is a detection of > 10,000 ppmv as methane; a minor gas leak is a detection of 100 to 10,000 ppmv as methane when the component is in liquid service; a minor gas leak is a detection of 200 to 10,000 ppmv as methane when the component is in gas/vapor service. [District Rule 4455] Federally Enforceable Through Title V Permit

13. For pumps, compressors, and other components; a major gas leak is a detection of > 10,000 ppmv as methane; a minor gas leak is a detection of 500 to 10,000 ppmv as methane when the component is in liquid service; a minor gas leak is a detection of 1,000 to 10,000 ppmv as methane when the component is in gas/vapor service. [District Rule 4455] Federally Enforceable Through Title V Permit

14. Each hatch shall be closed at all times except during sampling or adding of process material through the hatch, or during attended repair, replacement, or maintenance operations, provided such activities are done as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere. [District Rule 4455] Federally Enforceable Through Title V Permit

15. Leaks detected during quarterly operator inspections shall not be counted towards determination of compliance with the provisions of Rule 4455 provided the leaking components are repaired as soon as practicable but not later than the time frame specified in this permit. Leaks detected during quarterly operator inspections that are not repaired, replaced, or removed from operation as soon as practicable but not later than the time frame specified in this rule shall be counted toward determination of compliance with the provisions of Rule 4455. [District Rule 4455] Federally Enforceable Through Title V Permit

16. Leaking components at this facility detected during annual operator inspections, as required by Rule 4455 for a specific component type, that exceed the leak standards specified in this permit, shall constitute a violation of this rule. This violation is regardless of whether or not the leaking components are repaired, replaced, or removed from operation within the allowable repair time frame specified in this permit. [District Rule 4455] Federally Enforceable Through Title V Permit

17. An open-ended line, or a valve located at the end of the line, that is not sealed with either a blind flange, a plug, a cap, or a second closed valve that is not closed at all times, except during attended operations requiring process fluid flow through the open-ended line is a leak. Attended operations include draining or degassing operations, connection of temporary process equipment, sampling of process streams, emergency venting, and other normal operational needs, provided such operations are done as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere. [District Rule 4455] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

18. A leak from a component is when there is a major liquid leak from the component. A major liquid leak from a component is when a visible mist or a continuous flow of liquid, that is not seal lubricant, leaks from the component. [District Rule 4455] Federally Enforceable Through Title V Permit

19. A leak from a component is when gas emissions greater than 50,000 ppmv, as methane, leaks from the component. [District Rule 4455] Federally Enforceable Through Title V Permit

20. A minor liquid leak from a component is when more than three drops of liquid per minute, that is not seal lubricant and is not a major liquid leak, leaks from the component. [District Rule 4455] Federally Enforceable Through Title V Permit

21. When 200 or fewer valves are inspected, a leak from a valve is when more than one valve has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 valves are inspected, a leak from a valve is when more than 0.5 % (rounded up to the nearest whole number) of the valves have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4455] Federally Enforceable Through Title V Permit

22. When 200 or fewer threaded connections are inspected, a leak from a threaded connection is when more than one threaded connection has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 threaded connections are inspected, a leak from a threaded connection is when more than 0.5 % (rounded up to the nearest whole number) of the threaded connections have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4455] Federally Enforceable Through Title V Permit

23. When 200 or fewer flanges are inspected, a leak from a flange is when more than one flange has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 flanges are inspected, a leak from a flange is when more than 0.5 % (rounded up to the nearest whole number) of the flanges have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4455] Federally Enforceable Through Title V Permit

24. When 200 or fewer pumps are inspected, a leak from a pump is when more than two pumps have a minor liquid leak, a minor gas leak, or a gas leak greater than 10,000 ppmv and less than or equal to 50,000 ppmv. When greater than 200 pumps are inspected, a leak from a pump is when more than 1.0 % (rounded up to the nearest whole number) of the pumps have a minor liquid leak, a minor gas leak, or a gas leak greater than 10,000 ppmv and less than or equal to 50,000 ppmv. [District Rule 4455] Federally Enforceable Through Title V Permit

25. When compressors, PRDs, or other components not specified in this permit are inspected, a leak from these components is when more than one component has a minor liquid leak, a minor gas leak, or a gas leak greater than 10,000 ppmv and less than or equal to 50,000 ppmv. [District Rule 4455] Federally Enforceable Through Title V Permit

26. When pipes are inspected, a leak from a pipe is when more than two have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4455] Federally Enforceable Through Title V Permit

27. All accessible operating pumps, compressors, and PRDs, in service, shall be audio-visually inspected for leaks at least once every 24 hours except when operators do not report to the facility during a 24 hour period. [District Rule 4455] Federally Enforceable Through Title V Permit

28. All accessible operating pumps, compressors, and PRDs, in service, that are found to be leaking by audio-visual inspection shall be attempted to be repaired immediately. The leaking component shall then be tested within 24 hours and, if found leaking again, shall be repaired as soon as practicable but not later than the timeframe specified in this permit. [District Rule 4455] Federally Enforceable Through Title V Permit

29. Except for inaccessible components, unsafe-to-monitor components, or pipes, all components, in service, shall be tested for leaks at least once every calendar quarter. [District Rule 4455] Federally Enforceable Through Title V Permit

30. All new, replaced, or repaired fittings, flanges, and threaded connections shall be tested for leaks immediately after being placed into service. [District Rule 4455] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

31. All inaccessible components shall be tested for leaks at least once every 12 months. [District Rule 4455] Federally Enforceable Through Title V Permit

32. All unsafe-to-monitor components shall be tested for leaks during each turnaround. [District Rule 4455] Federally Enforceable Through Title V Permit

33. All pipes shall be visually inspected for leaks at least once every 12 months. [District Rule 4455] Federally Enforceable Through Title V Permit

34. All pipes, in service, that are found to be leaking by visual inspection shall be attempted to be repaired immediately. The leaking pipe shall then be tested within 24 hours and, if found leaking again, shall be repaired as soon as practicable but not later than the timeframe specified in this permit. [District Rule 4455] Federally Enforceable Through Title V Permit

35. The annual pipe inspection required by either the Department of Oil, Gas, and Geothermal Resources (DOGGR) pursuant to California Code of Regulation Title 14, Division 2, Subchapter 2, Section 1774 (Oilfield Facilities and Equipment Maintenance), or by the Spill Prevention Control and Countermeasure Plan (SPCC) pursuant to 40 Code of Federal Regulation Part 112 (Oil Prevention and Response: Non- Transportation-Related Onshore and Offshore Facilities) can be used as the annual pipe inspection required by District Rule 4455. [District Rule 4455] Federally Enforceable Through Title V Permit

36. Except for pumps, compressors, and PRDs, the permittee may apply for written approval from the District to change the inspection frequency of accessible components from quarterly to annually for a specific component type provided the following two qualifying requirements are met. During the previous five consecutive quarterly inspections, for the specific component type, there shall be no more leaks than as allowed by this permit. The permittee also shall not have received a Notice of Violation (NOV) from the District during the previous 12 months for violating any provisions of District Rule 4409 for the specific component type. If these two qualifying requirements have not been met, then the inspection frequency shall revert back to quarterly. The written request shall include pertinent documentation to demonstrate that the operator has successfully met the two qualifying requirements. [District Rule 4455] Federally Enforceable Through Title V Permit

37. The permittee shall notify the District in writing within five calendar days after changing the inspection frequency for a specific component type. The written notification shall include the reason(s) and date of change to a quarterly inspection frequency. [District Rule 4455] Federally Enforceable Through Title V Permit

38. A PRD that releases to the atmosphere shall be inspected by the permittee for leaks as soon as practicable but not later than 24 hours after the time of the release. The permittee shall reinspect the PRD for leaks not earlier than 24 hours after the initial inspection but not later than 15 calendar days after the date of the initial release. If the PRD is found by the permittee to be leaking during either inspection, the PRD leak shall be treated as if the leak was found during the required quarterly operator inspections. [District Rule 4455] Federally Enforceable Through Title V Permit

39. Except for PRDs, a component shall be inspected for leaks not later than 15 calendar days after repairing the leak or replacing the component. [District Rule 4455] Federally Enforceable Through Title V Permit

40. District inspections shall not be counted as an operator inspection required by District Rule 4455. Any attempt by an operator to count such District inspections as part of the operator's mandatory inspections is considered a willful circumvention of the rule and is a violation of this rule. [District Rule 4455] Federally Enforceable Through Title V Permit

41. The operator, upon detection of a leaking component, shall affix to that component a weatherproof, readily visible tag, bearing the date and time when the leak was detected and the date and time of the leak measurement. For gaseous leaks, the tag shall indicate the leak concentration in ppmv. For liquid leaks, the tag shall indicate whether it is a major liquid leak or a minor liquid leak. The tag shall indicate, when applicable, whether the component is an essential component, an unsafe-to-monitor component, or a critical component. The tag shall remain in place until the leaking component is repaired or replaced and reinspected and found to be in compliance with the requirements of this rule. [District Rule 4455] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

42. The operator shall minimize all component leaks immediately, to the extent possible, but not later than one hour after detection of the leak in order to stop or reduce leakage to the atmosphere. If the leak has been minimized but the leak still exceeds the applicable leak standards specified in this permit, the operator shall do one of the following within the timeframes specified within this permit: 1) repair or replace the leaking component; 2) vent the leaking component to a closed vent system; 3) or remove the leaking component from operation. A closed vent system is a District approved system that is not open to the atmosphere. It is composed of hard-piping, ductwork connections and, if necessary, flow inducing devices that transport gas or vapor from a piece or pieces of equipment to a District approved control device that has a overall VOC collection and destruction or removal efficiency of at least 95%, or that transports gases or vapors back to a process system. [District Rule 4455] Federally Enforceable Through Title V Permit

43. The operator shall repair minor gas leaks within seven days. The operator shall repair major gas leaks, which are > 10,000 ppmv but < or equal to 50,000 ppmv, within three days. The operator shall repair major gas leaks, which are > 50,000 ppmv, within two days. The operator shall repair minor liquid leaks within three days. The operator shall repair major liquid leaks within two days. The leak rate measured after leak minimization has been performed shall be the leak rate used to determine the applicable repair period. The start of the repair period shall be the time of the initial leak detection. [District Rule 4455] Federally Enforceable Through Title V Permit

44. For each calendar quarter, the operator may extend the repair period for a total number of leaking components, not to exceed 0.05 % of the number of components inspected, by type, rounded upward to the nearest whole number. The repair period for minor gas leaks can be extended by seven additional days. The repair period for major gas leaks, which are > 10,000 ppmv but < or equal to 50,000 ppmv, can be extended by two additional days. [District Rule 4455] Federally Enforceable Through Title V Permit

45. If a leaking component is an essential component or a critical component and which cannot be shut down immediately for repairs, the operator shall do the following: 1) minimize the leak within one hour after detection of the leak; 2) and if the leak has been minimized, but the leak still exceeds the applicable leak standards of Rule 4455 as specified in this permit, the essential component or critical component shall be repaired or replaced to eliminate the leak during the next process unit turnaround. The repair shall occur no later than one year from the date of the original leak detection. [District Rule 4455] Federally Enforceable Through Title V Permit

46. For any component that has incurred five repair actions for major gas leaks or major liquid leaks, or a combination of major gas leaks and major liquid leaks within a continuous 12-month period, the operator shall do one of the following four options. Options 1a through 1f require written notification to the District, option 2 requires written notification to the District and written District approval, options 3 and 4 do not require written notification to the District: 1a) For compressors replace the existing seal with either a dual mechanical seal, an oil film seal, a gas seal, or a face-type seal; 1b) for pumps replace the pump with a seal-less pump or replace the seal with a dual mechanical seal; 1c) for PRDs replace the PRD and install a rupture disc in the line which precedes the PRD such that the PRD is in series with and follows the rupture disc; 1d) for valves replace the valve with a sealed bellows valve, or for seal rings install graphite or Teflon chevron seal rings in a live-loaded packing gland; 1e) for threaded connections weld the connections or replace threaded connections with flanges; 1f) for sampling connections replace the sampling connection with a closed-loop sampling system; 2) Replace the component with Achieved-in-Practice Best Available Control Technology (BACT) equipment; 3) Vent the component to a District approved closed-vent system; 4) Remove the component from operation. For any component that is accessible, is not unsafe-to-monitor, is not an essential component, or is not a critical component, the operator shall comply with these requirements as soon as practicable but not later than twelve months after the date of detection of the fifth major leak within a continuous 12-month period. For any component that is inaccessible, is unsafe-to-monitor, is essential, or is a critical component, the operator shall comply with these requirements as soon as practicable but not later than the next turnaround or not later than two years after the date of detection of the fifth major leak within a continuous 12-month period, whichever comes first. [District Rule 4455] Federally Enforceable Through Title V Permit

47. All major components and critical components shall be physically identified clearly and visibly for inspection, repair, and recordkeeping purposes. The physical identification shall consist of labels, tags, manufacturer's nameplate identifier, serial number, or model number, or other system approved by the District that enables an operator or the District to locate each individual component. The operator shall replace physical identifications that become missing or unreadable as soon as practicable but not later than 24 hours after discovery. [District Rule 4455] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

48. The operator shall keep a copy of the District approved Operator Management Plan (OMP) at the facility and make it available to the District, ARB, and EPA upon request. [District Rule 4455] Federally Enforceable Through Title V Permit

49. By January 30th of each year the operator shall submit to the District for approval, in writing, an annual report indicating any changes to the existing OMP on file at the District. [District Rule 4455] Federally Enforceable Through Title V Permit

50. The operator shall maintain an inspection log that has been signed and dated by the facility operator responsible for the inspection, certifying the accuracy of the information recorded in the log. The inspection log shall contain, at a minimum, all of the following information: 1) The total number of components inspected, and the total number and percentage of leaking components found by component types; 2) The location, type, name or description of each leaking component and the description of any unit where the leaking component is found; 3) Date of the leak detection and method of the leak detection; 4) For gaseous leaks, record the leak concentration in ppmv, and for liquid leaks record whether the leak is a major liquid leak or a minor liquid leak; 5) The date of repair, replacement, or removal from operation of the leaking component(s); 6) The identification and location of essential components and critical components found leaking that cannot be repaired until the next process unit turnaround or not later than one year after leak detection, whichever comes first; 7) The method(s) used to minimize the leak from essential components and critical components found leaking that cannot be repaired until the next process unit turnaround or not later than one year after leak detection, whichever comes earlier; 8) The date of re-inspection and the leak concentration in ppmv after the component is repaired or is replaced; 9) The inspector's name, business mailing address, and business telephone number. [District Rule 4455] Federally Enforceable Through Title V Permit

51. Records of leaks detected during quarterly or annual operator inspections, and each subsequent repair and re-inspection, shall be submitted to the District, ARB, and EPA upon request. [District Rule 4455] Federally Enforceable Through Title V Permit

52. Records shall be maintained of each calibration of the portable hydrocarbon detection instrument utilized for inspecting components. The records shall include a copy of the current calibration gas certification from the vendor of the calibration gas cylinder, the date of calibration, the concentration of calibration gas, the instrument reading of calibration gas before adjustment, the instrument reading of calibration gas after adjustment, the calibration gas expiration date, and the calibration gas cylinder pressure at the time of calibration. [District Rule 4455] Federally Enforceable Through Title V Permit

53. All records required by this permit shall be retained on-site for a minimum of five years and made available for District, ARB, and EPA inspection upon request. [District Rule 4455] Federally Enforceable Through Title V Permit

54. All measurements of gaseous leak concentrations shall be conducted according to EPA Method 21 using an appropriate portable hydrocarbon detection instrument calibrated with methane. The instrument shall be calibrated in accordance with the procedures specified in EPA Method 21 or the manufacturer's instructions not more than 30 days prior to its use. [District Rule 4455] Federally Enforceable Through Title V Permit

55. The VOC content by weight percent shall be determined using ASTM D-1945 for gases and South Coast Air Quality Management District (SCAQMD) Method 304-91 for liquids. [District Rule 4455] Federally Enforceable Through Title V Permit

56. The percent by volume liquid evaporated at 302 øF (150 øC) shall be determined using ASTM D-86. [District Rule 4455] Federally Enforceable Through Title V Permit

57. The control efficiency of any VOC control device, measured and calculated as carbon, shall be determined by EPA Method 25, except when the outlet concentration must be below 50 ppm in order to meet the standard, in which case EPA Method 25a may be used. EPA Method 18 may be used in lieu of EPA Method 25 or EPA Method 25a provided the identity and approximate concentrations of the analytes/compounds in the sample gas stream are known before analysis with the gas chromatograph and the gas chromatograph is calibrated for each of those known analyte/compound to ensure that the VOC concentrations are neither under- or over-reported. [District Rule 4455] Federally Enforceable Through Title V Permit

58. Halogenated exempt compounds shall be analyzed by EPA Method 18 or ARB Method 422. [District Rule 4455] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-71-2-11 **EXPIRATION DATE:** 08/31/2016

SECTION: SW35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:
NATURAL GASOLINE AND LPG LOADING AND UNLOADING OPERATION WITH VAPOR CONTROL, TWO NATURAL GASOLINE AND LPG LOADING/UNLOADING RACKS, TWO LPG LOADING/UNLOADING RACKS, THREE 20,850 GALLON PRESSURIZED STORAGE TANKS, TWO 25 HP COMPRESSORS, PIPING TO PRESSURIZED (PERMIT EXEMPT) LPG TANKS, AND NITROGEN PURGE SYSTEM FOR LIQUID LINES, COMPRESSOR SEALS, AND COMPRESSOR CRANKCASES

PERMIT UNIT REQUIREMENTS

1. The loading racks shall be equipped with a vapor loss prevention system consisting of vapor and condensate collection systems capable of reducing VOC emissions by at least 95%. [District Rule 4624] Federally Enforceable Through Title V Permit
2. Permittee shall comply with all applicable inspection, maintenance, testing, and recordkeeping requirements of Rules 4624 for organic liquid loading operations. [District Rules 4624] Federally Enforceable Through Title V Permit
3. Nitrogen purge system shall be a closed loop system and shall not vent to the atmosphere during operation of the system. [District Rule 2201] Federally Enforceable Through Title V Permit
4. After completion of truck loading/unloading, liquid lines shall be purged with nitrogen prior to disconnection. [District Rule 4624] Federally Enforceable Through Title V Permit
5. The nitrogen purge system serving the compressor seals and compressor crankcases shall vent through two activated charcoal canisters connected in series, except during scheduled maintenance or repair activities. During repair and maintenance (such as charcoal bed change out) VOC emissions shall be minimized to the fullest extent possible. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The nitrogen purge system's used activated charcoal canisters shall be handled and disposed of in sealed containers, preventing VOC emissions to the fullest extent possible. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The nitrogen purge system's activated charcoal canisters shall be replaced to maintain the VOC concentration from the canister vent less than 4,500 ppmv-VOC or periodically as recommended by the manufacturer, whichever occurs first. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Fugitive VOC emission rate shall not exceed 32.2 pounds per day. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Maximum VOC emissions from truck loading/unloading liquid hose connects/disconnects shall not exceed 3.5 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Maximum VOC emissions from truck loading/unloading vapor hose connects/disconnects shall not exceed 0.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

11. Permittee shall maintain permit accurate fugitive component counts and resulting emissions calculated using CAPCOA's "California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities," February 1999, Table IV-2c: CAPCOA Oil and Gas Production Screening Value Range Emission Factors. [District Rule 2201] Federally Enforceable Through Title V Permit
12. There shall be no more than 192 liquid hose connects/disconnects in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
13. There shall be no more than 192 vapor hose connects/disconnects in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
14. The operator shall keep a copy of the APCO-approved Operator Management Plan (OMP) at the facility and make it available to the APCO, ARB and US EPA upon request. By January 30 of each year, the operator shall submit to the APCO for approval, in writing, an annual report indicating any changes to the existing, approved OMP. [District Rule 4455] Federally Enforceable Through Title V Permit
15. In accordance with the approved OMP, the operator shall meet all applicable operating, inspection and re-inspection, maintenance, process pressure relief device (PRD), component identification, recordkeeping and notification requirements of Rule 4455 for all components containing or contacting VOC at the this gas liquids processing facility, except for those components specifically exempted in Sections 4.1 and 4.2. [District Rule 4455] Federally Enforceable Through Title V Permit
16. Except for those components specified in condition 18, a component shall be considered leaking if one of more of the conditions specified in Sections 5.1.4.1 through 5.1.4.4 of the rule exist at the facility . [District Rule 4455] Federally Enforceable Through Title V Permit
17. For valves and connectors, a leak shall be defined as a reading of methane in excess of 100 ppmv above background when measured per EPA Method 21 and Maintenance Program pursuant to District Rule 4455. For pump and compressor seals, a leak shall be defined as a reading of methane in excess of 500 ppmv above background when measure per EPA Method 21 and an Inspection and Maintenance Program pursuant to District Rule 4455. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Permittee shall maintain accurate daily records of the number of truck loading/unloading vapor hose connects/disconnects and truck loading/unloading liquid hose connects/disconnects. [District Rule 1070]
19. All records required by this permit shall be retained for a period of at least 5 years and shall be made available to the District, ARB, and USEPA upon request. [District Rules 1070 and 4455] Federally Enforceable Through Title V Permit
20. The organic liquid loading operation shall be bottom loaded. [District Rule 4624] Federally Enforceable Through Title V Permit
21. The VOCs from the organic liquid transfer operation shall be routed to: a vapor collection and control system; or a fixed roof container that meets the control requirements specified in Rule 4623 (Storage of Organic Liquids); or a floating roof container that meets the control requirements in Rule 4623; or a pressure vessel equiped with an APCO-approved vapor recovery system that meets the control requirements specified in Rule 4623; or a closed VOC emission control system. [District Rule 4624] Federally Enforceable Through Title V Permit
22. When utilizing a closed VOC emission control system or utilizing a container that meets the control requirements of Rule 4623 (Storage of Organic Liquids) to meet the emission control requirements of this permit, the transfer operation shall demonstrate compliance by complying with the leak inspection requirements of Rule 4624. [District 4624] Federally Enforceable Through Title V Permit
23. The vapor collection and control system, except when transferring liquefied petroleum gas, shall operate such that the pressure in the delivery tank being loaded does not exceed 18 inches water column pressure and six (6) inches water column vacuum [District Rule 4624] Federally Enforceable Through Title V Permit
24. For this Class 1 organic liquid transfer operation, the emission of VOC from the transfer operation shall not exceed 0.08 pounds per 1,000 gallons of organic liquid transferred. [District 4624] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

25. The maximum liquid spillage/leaks from each hose disconnect shall not exceed 10 milliliters. [District Rule 4624] Federally Enforceable Through Title V Permit

26. Transfer rack shall be maintained and operated in accordance with the manufacturer's specifications, and operated such that there are no leaks or excess organic liquid drainage at disconnections as defined in Rule 4624. [District Rule 4624] Federally Enforceable Through Title V Permit

27. Except for components subject to Rule 4455, a leak is defined as the dripping of VOC-containing liquid at a rate of more than three (3) drops per minute; or for organic liquids other than gasoline, the detection of any gaseous or vapor emissions with a concentration of VOC greater than 1,000 ppmv above a background as methane when measured using a portable hydrocarbon detection instrument in accordance with EPA Method 21. Any liquid or gas coming from a component undergoing repair or replacement, or during sampling of process fluid from equipment into a container is not considered a leak provided such activities are accomplished as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere [District Rule 4624] Federally Enforceable Through Title V Permit

28. Except for components subject to Rule 4455, permittee shall inspect the loading rack for leaks during transfer at least once every calendar quarter using a portable hydrocarbon detection instrument in accordance with EPA Method 21 or alternative method approved in writing by the APCO and EPA. [District Rule 4624] Federally Enforceable Through Title V Permit

29. Except for components subject to Rule 4455, all equipment found leaking shall be repaired or replaced within 72 hours. If the leaking component cannot be repaired or replaced within 72 hours, the component shall be taken out of service until such time the component is repaired or replaced. The repaired or replaced equipment shall be reinspected the first time the equipment is in operation after the repair or replacement. [District Rule 4624] Federally Enforceable Through Title V Permit

30. Except for components subject to Rule 4455, an operator may apply for a written approval from the APCO to change the inspection frequency required by Rule 4624 from quarterly to annually provided no leaks were found during inspections required under provisions of Sections 5.9.1 and 5.9.2 of Rule 4624 during five consecutive quarterly inspections. Upon identification of any leak during an annual inspection the frequency shall revert back to quarterly and the operator shall contact the APCO in writing within 14 days. [District 4624] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-71-3-11 **EXPIRATION DATE:** 08/31/2016

SECTION: 35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:
LPG TRUCK LOADING/UNLOADING RACKS #4 & #5 INCLUDING (2) 25 HP COMPRESSORS, (4) 2" LIQUID UNLOADING HOSES, (4) 1" VAPOR RECOVERY HOSES, PIPING TO PERMIT EXEMPT LPG TANKAGE, AND NITROGEN PURGE SYSTEM SERVING LIQUID LINES AND COMPRESSOR SEALS AND CRANKCASES

PERMIT UNIT REQUIREMENTS

1. After completion of truck unloading, liquid lines shall be purged with nitrogen prior to disconnection. [District Rule 4624] Federally Enforceable Through Title V Permit
2. The permittee shall comply with all inspection, maintenance, testing, and recordkeeping requirements of Rule 4624 for the organic liquid loading operation. [District Rule 4624] Federally Enforceable Through Title V Permit
3. The nitrogen purge system serving the liquid lines shall be a closed loop system and shall not vent to the atmosphere during operation of the system. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The nitrogen purge system serving the compressor seals and compressor crankcases shall vent through two activated charcoal canisters connected in series, except during scheduled maintenance or repair activities. During repair and maintenance (such as charcoal bed change out) VOC emissions shall be minimized to the fullest extent possible. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The nitrogen purge system's used activated charcoal canisters shall be handled and disposed of in sealed containers, preventing VOC emissions to the fullest extent possible. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The nitrogen purge system's activated charcoal canisters shall be replaced to maintain the VOC concentration from the canister vent less than 4,500 ppmv-VOC or periodically as recommended by the manufacturer, whichever occurs first. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Fugitive VOC emission rate shall not exceed 17.6 lb per day. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Permittee shall maintain permit accurate fugitive component counts and resulting emissions calculated using CAPCOA's "California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities," Table IV-2c (Feb 1999), Screening Value Range emission factors. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The operator shall keep a copy of the APCO-approved Operator Management Plan (OMP) at the facility and make it available to the APCO, ARB and US EPA upon request. By January 30 of each year, the operator shall submit to the APCO for approval, in writing, an annual report indicating any changes to the existing, approved OMP. [District Rule 4455] Federally Enforceable Through Title V Permit
10. In accordance with the approved OMP, the operator shall meet all applicable operating, inspection and re-inspection, maintenance, process pressure relief device (PRD), component identification, recordkeeping and notification requirements of Rule 4455 for all components containing or contacting VOC at the this gas liquids processing facility, except for those components specifically exempted in Sections 4.1 and 4.2. [District Rule 4455] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

11. Condition 13 applies to the following equipment: V-1/V-4 bottoms rundown to east tank farm unloading operation and V-1 bottoms rundown to east tank farm storage and center row unloading operation. [District Rule 2201] Federally Enforceable Through Title V Permit

12. Any valve, flange, or connector with a vapor leak greater than 100 ppmv above background or any compressor seal or pump seal with a vapor leak greater than 500 ppmv above background (when measured with a portable hydrocarbon detection instrument calibrated with methane in accordance with EPA Method 21) shall be repaired in a manner consistent with the procedures specified in Rule 4455. [District Rules 2201 and 4455] Federally Enforceable Through Title V Permit

13. The loading and vapor collection equipment shall be maintained and operated such that there are no leaks or no excess organic liquid drainage (as defined in Rule 4624) at disconnections. [District Rule 4624] Federally Enforceable Through Title V Permit

14. All records required by this permit shall be retained for a period of at least 5 years and shall be made available to the District, ARB, and USEPA upon request. [District Rules 1070 and 4455] Federally Enforceable Through Title V Permit

15. The organic liquid loading operation shall be bottom loaded. [District Rule 4624] Federally Enforceable Through Title V Permit

16. The VOCs from the organic liquid transfer operation shall be routed to: a vapor collection and control system; or a fixed roof container that meets the control requirements specified in Rule 4623 (Storage of Organic Liquids); or a floating roof container that meets the control requirements in Rule 4623; or a pressure vessel equiped with an APCO-approved vapor recovery system that meets the control requirements specified in Rule 4623; or a closed VOC emission control system. [District Rule 4624] Federally Enforceable Through Title V Permit

17. When utilizing a closed VOC emission control system or utilizing a container that meets the control requirements of Rule 4623 (Storage of Organic Liquids) to meet the emission control requirements of this permit, the transfer operation shall demonstrate compliance by complying with the leak inspection requirements of Rule 4624. [District 4624] Federally Enforceable Through Title V Permit

18. The vapor collection and control system, except when transferring liquefied petroleum gas, shall operate such that the pressure in the delivery tank being loaded does not exceed 18 inches water column pressure and six (6) inches water column vacuum [District Rule 4624] Federally Enforceable Through Title V Permit

19. For this Class 1 organic liquid transfer operation, the emission of VOC from the transfer operation shall not exceed 0.08 pounds per 1,000 gallons of organic liquid transferred. [District 4624] Federally Enforceable Through Title V Permit

20. The maximum liquid spillage/leaks from each hose disconnect shall not exceed 10 milliliters. [District Rule 4624] Federally Enforceable Through Title V Permit

21. Transfer rack shall be maintained and operated in accordance with the manufacturer's specifications, and operated such that there are no leaks or excess organic liquid drainage at disconnections as defined in Rule 4624. [District Rule 4624] Federally Enforceable Through Title V Permit

22. Except for components subject to Rule 4455, a leak is defined as the dripping of VOC-containing liquid at a rate of more than three (3) drops per minute; or for organic liquids other than gasoline, the detection of any gaseous or vapor emissions with a concentration of VOC greater than 1,000 ppmv above a background as methane when measured using a portable hydrocarbon detection instrument in accordance with EPA Method 21. Any liquid or gas coming from a component undergoing repair or replacement, or during sampling of process fluid from equipment into a container is not considered a leak provided such activities are accomplished as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere [District Rule 4624] Federally Enforceable Through Title V Permit

23. Except for components subject to Rule 4455, permittee shall inspect the loading rack for leaks during transfer at least once every calendar quarter using a portable hydrocarbon detection instrument in accordance with EPA Method 21 or alternative method approved in writing by the APCO and EPA. [District Rule 4624] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

24. Except for components subject to Rule 4455, all equipment found leaking shall be repaired or replaced within 72 hours. If the leaking component cannot be repaired or replaced within 72 hours, the component shall be taken out of service until such time the component is repaired or replaced. The repaired or replaced equipment shall be reinspected the first time the equipment is in operation after the repair or replacement. [District Rule 4624] Federally Enforceable Through Title V Permit

25. Except for components subject to Rule 4455, an operator may apply for a written approval from the APCO to change the inspection frequency required by Rule 4624 from quarterly to annually provided no leaks were found during inspections required under provisions of Sections 5.9.1 and 5.9.2 of Rule 4624 during five consecutive quarterly inspections. Upon identification of any leak during an annual inspection the frequency shall revert back to quarterly and the operator shall contact the APCO in writing within 14 days. [District 4624] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-71-4-15 **EXPIRATION DATE:** 08/31/2016

SECTION: 35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:
BUTAMER-BUTANE ISOMERIZATION UNIT INCLUDING TWO BUTANE FEED DRYERS V-102A/B, HYDROGEN MAKE-UP DRYER V-106, TWO REGENERANT DRYERS V-107A/B, ONE 80 MMBTU/HR GAS-FIRED PROCESS OIL HEATER H-201 WITH SIX MODEL CUBR-10W LOW-NOX BURNERS AND FUEL PIPING SHARED WITH PERMIT #S-71-1

PERMIT UNIT REQUIREMENTS

1. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of fuel gas combusted in the unit shall be installed, utilized and maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Operation shall include feed surge drum V-103, one product separator V-104, two reactors R-101A/B, stabilizer receiver V-109, and one perchloroethylene storage/injection vessel V-105. [District Rules 2201 & 4102] Federally Enforceable Through Title V Permit
3. Operation shall include one spent caustic de-gas drum V-112, one stabilizer column V-108, and one net gas scrubber V-110. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Operation shall include one de-isobutanizer tower T-201, one de-isobutanizer overhead accumulator V-201, one 125 HP recycle gas compressor C-101, and one hydrogen make-up knock-out drum V-115. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Operation shall include hot oil circulation piping, exchangers, and miscellaneous vessels. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Hot oil drum shall be equipped with a pressure relief valve set at a minimum 100 psig and no greater than maximum pressure rating recommended by ASME or other recognized authority. [District Rule 2201] Federally Enforceable Through Title V Permit
7. All VOC sampling connections, open-ended valves, and lines shall be equipped with two closed valves or be sealed with blind flanges, caps, or threaded plugs except during actual use. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Perchloroethylene storage vessel shall be blanketed with inert gas. [District Rule 4102] Federally Enforceable Through Title V Permit
9. Perchloroethylene storage vessel shall be equipped with a pressure relief valve set at a minimum pressure of 50 psig. [District Rule 4102] Federally Enforceable Through Title V Permit
10. Hot oil drum shall be fuel gas blanketed with vent to fuel gas system. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Fuel gas combusted in fired equipment may be comprised of process off-gas (including hydrogen), propane, butane, natural gas, or any combination thereof. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The heating value of the fuel gas (Btu/scf @ hhv) combusted in fired equipment shall be determined by sample analysis at least annually. Results of sample analysis shall be retained on site and made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit

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

13. Total heat input of fuel gas combusted in units S-71-4, '5, '14 and '15 shall not exceed 1,602,019 MM Btu/yr. [District Rule 2201] Federally Enforceable Through Title V Permit
14. Perchloroethylene receiving line shall be blown dry to storage vessel using an inert gas upon completion of transfer. [District Rule 4102] Federally Enforceable Through Title V Permit
15. Only heat transfer fluid manufactured and marketed for such use shall be used in a closed loop as heat transfer medium. [District Rule 2201] Federally Enforceable Through Title V Permit
16. All excess gas shall be incinerated in process heater firebox or existing boiler. [District Rule 2201] Federally Enforceable Through Title V Permit
17. Fugitive VOC emission rate shall not exceed 46.5 pounds per day. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Permittee shall maintain permit accurate fugitive component counts and resulting emissions calculated using CAPCOA's "California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities," February 1999, Table IV-2c: CAPCOA Oil and Gas Production Screening Value Range Emission Factors. [District Rule 2201] Federally Enforceable Through Title V Permit
19. Emission rates shall not exceed any of the following: PM10: 0.005 lb/MMBtu; NOx (as NO2): 25 ppmv @ 3% O2; VOC: 0.00275 lb/MMBtu; SOx (as SO2): 0.0005 lb/MMBtu; or CO: 50 ppmv @ 3% O2. [District Rule 2201] Federally Enforceable Through Title V Permit
20. Hot oil heater stack shall be equipped with sampling facilities for source testing in accordance with the provisions of Rule 1081 (Source Sampling). [District Rule 2201] Federally Enforceable Through Title V Permit
21. The operator shall keep a copy of the APCO-approved Operator Management Plan (OMP) at the facility and make it available to the APCO, ARB and US EPA upon request. By January 30 of each year, the operator shall submit to the APCO for approval, in writing, an annual report indicating any changes to the existing, approved OMP. [District Rule 4455] Federally Enforceable Through Title V Permit
22. In accordance with the approved OMP, the operator shall meet all applicable operating, inspection and re-inspection, maintenance, process pressure relief device (PRD), component identification, recordkeeping and notification requirements of Rule 4455 for all components containing or contacting VOC at the this gas liquids processing facility, except for those components specifically exempted in Sections 4.1 and 4.2. [District Rule 4455] Federally Enforceable Through Title V Permit
23. Except for those components specified in condition 24, a component shall be considered leaking if one of more of the conditions specified in Sections 5.1.4.1 through 5.1.4.4 of the rule exist at the facility. [District Rule 4455] Federally Enforceable Through Title V Permit
24. For valves and connectors, a leak shall be defined as a reading of methane in excess of 100 ppmv above background when measured per EPA Method 21. For pump and compressor seals, a leak shall be defined as a reading of methane in excess of 500 ppmv above background when measure per EPA Method 21. [District Rule 2201] Federally Enforceable Through Title V Permit
25. The emission control systems shall be in operation and emissions shall be minimized insofar as technologically feasible during startup and shutdown. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
26. The duration of each startup and shutdown period for the 80 MMBtu/hr gas-fired process oil heater shall not exceed 5.5 hours and 2.0 hours respectively. Emission limits of Rules 4305, 4306 and 4320 are waived during periods of startup and shutdown. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
27. The permittee shall maintain records of the duration of each startup period for the 80 MMBtu/hr gas-fired process oil heater. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

28. The permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every month using a portable emission monitor. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month. [District Rules 4305,4306 and 4320] Federally Enforceable Through Title V Permit

29. If the NOx and/or CO concentrations corrected to 3% O2, as measured by the portable analyzer, exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rule 4305,4306 and 4320] Federally Enforceable Through Title V Permit

30. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 3% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit

31. {109} Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081]

32. {110} The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081]

33. This unit shall be source tested for compliance with the NOx, CO, and SOx emissions limits at least once every 12 months. After demonstrating compliance on two consecutive annual source tests, the unit shall be tested not less than once every thirty-six months. [District Rules 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit

34. NOx emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. NOx emissions during the source test shall be calculated as the arithmetic average of three 30-consecutive-minute test runs. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit

35. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. CO emissions during the source test shall be calculated as the arithmetic average of three 30-consecutive-minute test runs. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit

36. SOx emissions for source test purposes shall be determined using EPA Method 19. [District Rule 1081] Federally Enforceable Through Title V Permit

37. Stack gas oxygen for source test purposes shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit

38. If permittee fails any compliance demonstration for NOx, CO, or SOx emission limits when testing not less than once every 36 months, compliance with NOx, CO, and SOx emission limits shall be demonstrated not less than once every 12 months. [District Rules 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit

39. Permittee shall maintain accurate records of perchloroethylene usage, fuel gas heating value, and daily, monthly and annual records of fuel gas use. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

40. Permittee shall maintain accurate monthly records of the combined heat input of the fuel gas combusted in units S-71-4, '5, '14 and '15. [Districts Rule 1070 and 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

41. When the LPG supply source for make up fuel to the fuel gas system changes, the stack concentrations of NOx, CO, and O2 shall be measured with a District approved portable analyzer to verify emissions compliance. This is to be done anytime that LPG is being vaporized to supply make up fuel to the fuel gas system. [District Rule 2201, 4301, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit

42. All records required by this permit shall be retained for a period of at least 5 years and shall be made available to the District, ARB, and USEPA upon request. [District Rules 1070 and 4455] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-71-5-9 **EXPIRATION DATE:** 08/31/2016

SECTION: 35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:
10.28 MMBTU/HR HYDROGEN PLANT INCLUDING ONE STEAM METHANE REFORMER FURNACE #H-301 EQUIPPED WITH CALLIDUS, MODEL LE-CSG-8W-PSA, LOW-NOX BURNER, AND TWO HYDRODESULFURIZER REACTORS (R-301 A/B)

PERMIT UNIT REQUIREMENTS

1. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of fuel gas combusted in the unit shall be installed, utilized and maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Operation shall include one steam drum V-301, two 5 HP boiler feed pumps, two 3 HP hydrocarbon feed pumps, one high temp. shift conversion reactor R-302, one deaerator vessel V-303, and one condensate separator V-304. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Operation shall include four pressure swing absorption purification vessels V-305A/B/C/D, two 40 HP and one 100 HP hydrogen product compressors, one PSA off gas fuel surge drum V-306, and reformer piping to steam distribution. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Gas-fired emission rates shall not exceed any of the following: PM10: 0.0137 lb/MMBtu; SOx (as SO2): 0.0006 lb MMBtu; or VOC: 0.00278 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Emissions shall not exceed any of the following: 0.036 lb NOx/MMBtu (or 30 ppmv @ 3% O2), 400 ppmv CO @ 3% O2. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
6. Steam methane reformer stack shall be equipped with sampling facilities for source testing in accordance with the provisions of Rule 1081 (Source Sampling). [District Rule 1081] Federally Enforceable Through Title V Permit
7. Waste gas shall only be ducted to and incinerated in methane reformer fire box only. [District Rule 2201] Federally Enforceable Through Title V Permit
8. All VOC sampling connections, open-ended valves, and lines shall be equipped with two closed valves or be sealed with blind flanges, caps or threaded plugs except during actual use. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Process heat shall be supplied by steam methane reformer furnace only. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Process heat from the steam methane reformer furnace may be used in the LPG/NGL distillation operation (Permit #S-71-1). [District Rule 2201] Federally Enforceable Through Title V Permit
11. Steam methane reformer furnace shall be gas-fired only. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The emission control systems shall be in operation and emissions shall be minimized insofar as technologically feasible during startup and shutdown. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13. Fuel gas combusted in fired equipment may be comprised of process off-gas (including hydrogen), propane, butane, natural gas, or any combination thereof. [District Rule 2201] Federally Enforceable Through Title V Permit
14. The heating value of the fuel gas (Btu/scf @ the hhv) combusted in fired equipment shall be determined by sample analysis at least annually. Results of sample analysis shall be retained on site and made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
15. Total heat input of fuel gas combusted in units S-71-4, '5, '14 and '15 shall not exceed 1,602,019 MM Btu/yr. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Permittee shall maintain accurate records of the fuel gas heating value and daily, monthly and annual records of fuel gas use. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. Permittee shall maintain accurate monthly records of the combined heat input of the fuel gas combusted in units S-71-4, '5, '14 and '15. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
18. The duration of each startup and shutdown period for the 10.28 MMBtu/hr hydrogen plant shall not exceed 12.0 hours and 2.0 hours respectively. Emission limits of Rules 4305, 4306 and 4320 are waived during periods of startup and shutdown. [District Rules 4305,4306 and 4320] Federally Enforceable Through Title V Permit
19. The permittee shall maintain records of the duration of each startup period for the 10.28 MMBtu/hr hydrogen plant. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
20. The permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every month using a portable emission monitor. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
21. If the NOx and/or CO concentrations corrected to 3% O2, as measured by the portable analyzer, exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
22. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 3% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
23. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
24. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
25. This unit shall be tested for compliance with the NOx, CO, and SOx emissions limits at least once every 12 months. After demonstrating compliance on two consecutive annual source tests, the unit shall be tested not less than once every thirty-six months. [District Rules 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

26. NOx emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. NOx emissions during the source test shall be calculated as the arithmetic average of three 30-consecutive-minute test runs. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit

27. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. CO emissions during the source test shall be calculated as the arithmetic average of three 30-consecutive-minute test runs. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit

28. SOx emissions for source test purposes shall be determined using EPA Method 19. [District Rule 1081] Federally Enforceable Through Title V Permit

29. Stack gas oxygen for source test purposes shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit

30. If permittee fails any compliance demonstration for NOx, CO, or SOx emission limits when testing not less than once every 36 months, compliance with NOx, CO, and SOx emission limits shall be demonstrated not less than once every 12 months. [District Rules 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit

31. All records shall be retained for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070]

32. Pursuant to Rule 4320, beginning in 2010 the operator shall pay an annual emission fee to the District for NOx emissions from this unit for the previous calendar year. Payments are due by July 1 of each year. Payments shall continue annually until either the unit is permanently removed from service in the District or the operator demonstrates compliance with the applicable NOx emission limit listed in Rule 4320. [District Rule 4320] Federally Enforceable Through Title V Permit

33. Permittee shall maintain records of annual heat input (MMBtu) for this unit on a calendar year basis. Such records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070 and Rule 4320] Federally Enforceable Through Title V Permit

34. On and after July 1, 2012, the permittee shall submit an analysis showing the fuel's sulfur content at least once every year. Valid purchase contracts, supplier certifications, tariff sheets, or transportation contacts may be used to satisfy this requirement, provided they establish the fuel parameters mentioned above. [District Rule 4320] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-71-6-6 **EXPIRATION DATE:** 08/31/2016

SECTION: 35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:
LPG TRUCK LOADING/UNLOADING RACKS #6 & #7 INCLUDING (10) LOADING/CHARGE PUMPS NOT TO EXCEED 30 HP EACH, (6) LIQUID UNLOADING HOSES, (6) VAPOR RECOVERY HOSES, NITROGEN PURGE SYSTEM FOR LIQUID LINES, AND PIPING TO/FROM PERMIT EXEMPT LPG TANKAGE

PERMIT UNIT REQUIREMENTS

1. LPG shall only be loaded into trucks dedicated to LPG service. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Vapor return hose shall be connected to LPG tank vapor space whenever butane is being loaded. [District Rule 2201] Federally Enforceable Through Title V Permit
3. There shall be no more than two liquid hose connects/disconnects per truck load. [District Rule 2201] Federally Enforceable Through Title V Permit
4. After completion of truck unloading, liquid lines shall be purged with nitrogen prior to disconnection. [District Rule 4624] Federally Enforceable Through Title V Permit
5. The loading and vapor collection equipment shall be maintained and operated such that there are no leaks or no excess organic liquid drainage (as defined in Rule 4624) at disconnections. [District Rule 4624] Federally Enforceable Through Title V Permit
6. Volatile organic compound (VOC) emission rate shall not exceed 18.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Permittee shall maintain permit accurate fugitive component counts and resulting emissions calculated using CAPCOA's "California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities," Table IV-2c (Feb 1999), Screening Value Range emission factors. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The operator shall keep a copy of the APCO-approved Operator Management Plan (OMP) at the facility and make it available to the APCO, ARB and US EPA upon request. By January 30 of each year, the operator shall submit to the APCO for approval, in writing, an annual report indicating any changes to the existing, approved OMP. [District Rule 4455] Federally Enforceable Through Title V Permit
9. In accordance with the approved OMP, the operator shall meet all applicable operating, inspection and re-inspection, maintenance, process pressure relief device (PRD), component identification, recordkeeping and notification requirements of Rule 4455 for all components containing or contacting VOC at the this gas liquids processing facility, except for those components specifically exempted in Sections 4.1 and 4.2. [District Rule 4455] Federally Enforceable Through Title V Permit
10. Except for those components specified in condition 12, a component shall be considered leaking if one or more of the conditions specified in Sections 5.1.4.1 through 5.1.4.4 of the rule exist at the facility . [District Rule 4455] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

11. For valves and connectors, a leak shall be defined as a reading of methane in excess of 100 ppmv above background when measured per EPA Method 21 and Maintenance Program pursuant to District Rule 4455. For pump and compressor seals, a leak shall be defined as a reading of methane in excess of 500 ppmv above background when measure per EPA Method 21 and an Inspection and Maintenance Program pursuant to District Rule 4455. [District Rule 2201] Federally Enforceable Through Title V Permit
12. All records required by this permit shall be retained for a period of at least 5 years and shall be made available to the District, ARB, and USEPA upon request. [District Rules 1070 and 4455] Federally Enforceable Through Title V Permit
13. The organic liquid loading operation shall be bottom loaded. [District Rule 4624] Federally Enforceable Through Title V Permit
14. The VOCs from the organic liquid transfer operation shall be routed to: a vapor collection and control system; or a fixed roof container that meets the control requirements specified in Rule 4623 (Storage of Organic Liquids); or a floating roof container that meets the control requirements in Rule 4623; or a pressure vessel equiped with an APCO-approved vapor recovery system that meets the control requirements specified in Rule 4623; or a closed VOC emission control system. [District Rule 4624] Federally Enforceable Through Title V Permit
15. When utilizing a closed VOC emission control system or utilizing a container that meets the control requirements of Rule 4623 (Storage of Organic Liquids) to meet the emission control requirements of this permit, the transfer operation shall demonstrate compliance by complying with the leak inspection requirements of Rule 4624. [District 4624] Federally Enforceable Through Title V Permit
16. The vapor collection and control system, except when transferring liquefied petroleum gas, shall operate such that the pressure in the delivery tank being loaded does not exceed 18 inches water column pressure and six (6) inches water column vacuum [District Rule 4624] Federally Enforceable Through Title V Permit
17. For this Class 1 organic liquid transfer operation, the emission of VOC from the transfer operation shall not exceed 0.08 pounds per 1,000 gallons of organic liquid transferred. [District 4624] Federally Enforceable Through Title V Permit
18. The maximum liquid spillage/leaks from each hose disconnect shall not exceed 10 milliliters. [District Rule 4624] Federally Enforceable Through Title V Permit
19. Transfer rack shall be maintained and operated in accordance with the manufacturer's specifications, and operated such that there are no leaks or excess organic liquid drainage at disconnections as defined in Rule 4624. [District Rule 4624] Federally Enforceable Through Title V Permit
20. Except for components subject to Rule 4455, a leak is defined as the dripping of VOC-containing liquid at a rate of more than three (3) drops per minute; or for organic liquids other than gasoline, the detection of any gaseous or vapor emissions with a concentration of VOC greater than 1,000 ppmv above a background as methane when measured using a portable hydrocarbon detection instrument in accordance with EPA Method 21. Any liquid or gas coming from a component undergoing repair or replacement, or during sampling of process fluid from equipment into a container is not considered a leak provided such activities are accomplished as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere [District Rule 4624] Federally Enforceable Through Title V Permit
21. Except for components subject to Rule 4455, permittee shall inspect the loading rack for leaks during transfer at least once every calendar quarter using a portable hydrocarbon detection instrument in accordance with EPA Method 21 or alternative method approved in writing by the APCO and EPA. [District Rule 4624] Federally Enforceable Through Title V Permit
22. Except for components subject to Rule 4455, all equipment found leaking shall be repaired or replaced within 72 hours. If the leaking component cannot be repaired or replaced within 72 hours, the component shall be taken out of service until such time the component is repaired or replaced. The repaired or replaced equipment shall be reinspected the first time the equipment is in operation after the repair or replacement. [District Rule 4624] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

23. Except for components subject to Rule 4455, an operator may apply for a written approval from the APCO to change the inspection frequency required by Rule 4624 from quarterly to annually provided no leaks were found during inspections required under provisions of Sections 5.9.1 and 5.9.2 of Rule 4624 during five consecutive quarterly inspections. Upon identification of any leak during an annual inspection the frequency shall revert back to quarterly and the operator shall contact the APCO in writing within 14 days. [District 4624] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-71-7-3

EXPIRATION DATE: 08/31/2016

SECTION: 35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:
320 BHP DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. 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
3. This engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
4. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
5. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 65 hours per year. [District Rules 2201, 4701, and 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. The permittee shall maintain records of hours of emergency and non-emergency operation. Records shall include the date, the number of hours of operation, the purpose of the operation (e.g., load testing, weekly testing, rolling blackout, general area power outage, etc.) and the type of fuel used. Such records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 4701, 4702 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
7. Only CARB certified diesel fuel containing not more than 0.05% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
8. Particulate matter (PM-10) emission rate shall not exceed 0.36 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Sulfur compound emission rate shall not exceed 0.32 lb/hr as SO2 and 0.00 lb/hr as SO4. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Nitrogen oxide emission rate shall not exceed 4.94 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Volatile organic compound (VOC) emission rate shall not exceed 0.40 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Carbon monoxide (CO) emission rate shall not exceed 1.06 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13. 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

14. 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

15. 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

16. The engine shall be in compliance with all emission limitations and operating limitations that apply at all times. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

17. On and after May 3, 2013, the permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

18. The permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d of Subpart ZZZZ. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

19. On and after May 3, 2013, the permittee shall maintain monthly 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 monthly 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

20. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 4702 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-71-8-3 **EXPIRATION DATE:** 08/31/2016

SECTION: 35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:
55 BHP NATURAL GAS-FIRED EMERGENCY I C ENGINE POWERING A WATER WELL PUMP

PERMIT UNIT REQUIREMENTS

1. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rules 4702 and 17 CCR 93115 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
2. 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
3. During periods of 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 (e.g. oil pressure, exhaust gas temperature, etc.). [District Rule 4702] Federally Enforceable Through Title V Permit
4. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per year. [District Rule 4702] Federally Enforceable Through Title V Permit
5. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
6. 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
7. The permittee shall maintain records of hours of emergency and non-emergency operation. Records shall include the date, the number of hours of operation, the purpose of the operation (e.g., load testing, weekly testing, rolling blackout, general area power outage, etc.), the type of fuel used, and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rules 4701 and 4702 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
8. 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
9. 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
10. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

11. The engine shall be in compliance with all emission limitations and operating limitations that apply at all times. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

12. 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

13. The permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d of Subpart ZZZZ. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

14. On and after May 3, 2013, the permittee shall maintain monthly 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 monthly 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

15. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 4702 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-71-10-4 **EXPIRATION DATE:** 08/31/2016

SECTION: 35 **TOWNSHIP:** 28S **RANGE:** 25W

EQUIPMENT DESCRIPTION:
208 BHP DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. 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
3. This engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
4. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
5. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 65 hours per year. [District Rules 2201, 4701, and 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. The permittee shall maintain records of hours of emergency and non-emergency operation. Records shall include the date, the number of hours of operation, the purpose of the operation (e.g., load testing, weekly testing, rolling blackout, general area power outage, etc.) and the type of fuel used. Such records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 4701 and 4702 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
7. Only CARB certified diesel fuel containing not more than 0.05% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
8. Injection timing shall be retarded to 4 degrees BTDC. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Sulfur compound emission rate shall not exceed 0.06 lb/hr as SO2 and 0.09 lb/hr as SO4. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Nitrogen oxide emission rate shall not exceed 3.33 lb/hr as NO2. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Volatile organic compound (VOC) emission rate shall not exceed 0.27 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Carbon monoxide (CO) emission rate shall not exceed 0.72 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13. 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

14. 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

15. 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

16. The engine shall be in compliance with all emission limitations and operating limitations that apply at all times. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

17. On and after May 3, 2013, the permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

18. The permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d of Subpart ZZZZ. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

19. On and after May 3, 2013, the permittee shall maintain monthly 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 monthly 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

20. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 4702 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-71-12-8 **EXPIRATION DATE:** 08/31/2016

SECTION: 35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:
RAILCAR LPG/NATURAL GASOLINE LOADING/UNLOADING OPERATION WITH FIFTEEN LPG/NATURAL GASOLINE LOADING/UNLOADING STATIONS INCLUDING: ELEVATED RACK SYSTEM UTILIZING HARD PIPING AND SWIVEL JOINTS; AND NITROGEN PURGE SYSTEM SERVING LIQUID LINES, COMPRESSOR SEALS, AND COMPRESSOR CRANKCASES

PERMIT UNIT REQUIREMENTS

1. Operation shall include 15 railcar loading/unloading stations each equipped with two (2) liquid lines and one (1) vapor return line for a total of 45 loading arms with 225 swivel joints. [District Rule 2201] Federally Enforceable Through Title V Permit
2. The nitrogen purge system serving the liquid lines shall be a closed loop system and shall not vent to the atmosphere during operation of the system. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The nitrogen purge system serving the compressor seals and compressor crankcases shall vent through two activated charcoal canisters connected in series, except during scheduled maintenance or repair activities. During repair and maintenance (such as charcoal bed change out) VOC emissions shall be minimized to the fullest extent possible. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The nitrogen purge system's used activated charcoal canisters shall be handled and disposed of in sealed containers, preventing VOC emissions to the fullest extent possible. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The nitrogen purge system's activated charcoal canisters shall be replaced to maintain the VOC concentration from the canister vent less than 4,500 ppmv-VOC or periodically as recommended by the manufacturer, whichever occurs first. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Operation shall include three vapor compressors equipped with knock-out vessels and not exceeding 100 hp each, three compressor knock-out drum pumps, and five turbine pumps. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Fugitive VOC emissions from valves, flanges, connectors, pump seals, and other fugitive components associated with this permit unit shall not exceed 67.8 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Maximum VOC emissions from railcar loading/unloading (vapor and liquid losses combined) operation shall not exceed 2.3 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The permittee shall maintain with the permit accurate fugitive component counts and resulting emissions calculated using "California Implementation Guidelines for estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities", Oil and Gas Production Operations Screening Value Ranges Emission Factors Table IV-2c Feb 1999. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The permittee shall comply with all inspection, maintenance, testing, and recordkeeping requirements of Rules 4624 for the organic liquid loading operation. [District Rule 4624] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

11. The loading racks shall be equipped with a vapor return system consisting of vapor and condensate collection systems capable of reducing VOC emissions by at least 95%. [District Rule 2201] Federally Enforceable Through Title V Permit
12. There shall be no more than 120 liquid hose connects/disconnects in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
13. There shall be no more than 60 vapor hose connect/disconnect in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
14. Permittee shall keep accurate records of railcar loadings/unloadings, connects/disconnects, and liquid types. [District Rule 1070] Federally Enforceable Through Title V Permit
15. Records required by this permit shall be retained on site for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
16. The operator shall keep a copy of the APCO-approved Operator Management Plan (OMP) at the facility and make it available to the APCO, ARB and US EPA upon request. By January 30 of each year, the operator shall submit to the APCO for approval, in writing, an annual report indicating any changes to the existing, approved OMP. [District Rule 4455] Federally Enforceable Through Title V Permit
17. In accordance with the approved OMP, the operator shall meet all applicable operating, inspection and re-inspection, maintenance, process pressure relief device (PRD), component identification, recordkeeping and notification requirements of Rule 4455 for all components containing or contacting VOC at the this gas liquids processing facility, except for those components specifically exempted in Sections 4.1 and 4.2. [District Rule 4455] Federally Enforceable Through Title V Permit
18. Except for those components specified in condition 20, a component shall be considered leaking if one of more of the conditions specified in Sections 5.1.4.1 through 5.1.4.4 of the rule exist at the facility . [District Rule 4455] Federally Enforceable Through Title V Permit
19. For valves and connectors, a leak shall be defined as a reading of methane in excess of 100 ppmv above background when measured per EPA Method 21 and Maintenance Program pursuant to District Rule 4455. For pump and compressor seals, a leak shall be defined as a reading of methane in excess of 500 ppmv above background when measure per EPA Method 21 and an Inspection and Maintenance Program pursuant to District Rule 4455. [District Rule 2201] Federally Enforceable Through Title V Permit
20. All records required by this permit shall be retained for a period of at least 5 years and shall be made available to the District, ARB, and USEPA upon request. [District Rules 1070 and 4455] Federally Enforceable Through Title V Permit
21. The organic liquid loading operation shall be bottom loaded. [District Rule 4624] Federally Enforceable Through Title V Permit
22. The VOCs from the organic liquid transfer operation shall be routed to: a vapor collection and control system; or a fixed roof container that meets the control requirements specified in Rule 4623 (Storage of Organic Liquids); or a floating roof container that meets the control requirements in Rule 4623; or a pressure vessel equiped with an APCO-approved vapor recovery system that meets the control requirements specified in Rule 4623; or a closed VOC emission control system. [District Rule 4624] Federally Enforceable Through Title V Permit
23. When utilizing a closed VOC emission control system or utilizing a container that meets the control requirements of Rule 4623 (Storage of Organic Liquids) to meet the emission control requirements of this permit, the transfer operation shall demonstrate compliance by complying with the leak inspection requirements of Rule 4624. [District 4624] Federally Enforceable Through Title V Permit
24. The vapor collection and control system, except when transferring liquefied petroleum gas, shall operate such that the pressure in the delivery tank being loaded does not exceed 18 inches water column pressure and six (6) inches water column vacuum [District Rule 4624] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

25. For this Class 1 organic liquid transfer operation, the emission of VOC from the transfer operation shall not exceed 0.08 pounds per 1,000 gallons of organic liquid transferred. [District 4624] Federally Enforceable Through Title V Permit

26. The maximum liquid spillage/leaks from each hose disconnect shall not exceed 10 milliliters. [District Rule 4624] Federally Enforceable Through Title V Permit

27. Transfer rack shall be maintained and operated in accordance with the manufacturer's specifications, and operated such that there are no leaks or excess organic liquid drainage at disconnections as defined in Rule 4624. [District Rule 4624] Federally Enforceable Through Title V Permit

28. Except for components subject to Rule 4455, a leak is defined as the dripping of VOC-containing liquid at a rate of more than three (3) drops per minute; or for organic liquids other than gasoline, the detection of any gaseous or vapor emissions with a concentration of VOC greater than 1,000 ppmv above a background as methane when measured using a portable hydrocarbon detection instrument in accordance with EPA Method 21. Any liquid or gas coming from a component undergoing repair or replacement, or during sampling of process fluid from equipment into a container is not considered a leak provided such activities are accomplished as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere [District Rule 4624] Federally Enforceable Through Title V Permit

29. Except for components subject to Rule 4455, permittee shall inspect the loading rack for leaks during transfer at least once every calendar quarter using a portable hydrocarbon detection instrument in accordance with EPA Method 21 or alternative method approved in writing by the APCO and EPA. [District Rule 4624] Federally Enforceable Through Title V Permit

30. Except for components subject to Rule 4455, all equipment found leaking shall be repaired or replaced within 72 hours. If the leaking component cannot be repaired or replaced within 72 hours, the component shall be taken out of service until such time the component is repaired or replaced. The repaired or replaced equipment shall be reinspected the first time the equipment is in operation after the repair or replacement. [District Rule 4624] Federally Enforceable Through Title V Permit

31. Except for components subject to Rule 4455, an operator may apply for a written approval from the APCO to change the inspection frequency required by Rule 4624 from quarterly to annually provided no leaks were found during inspections required under provisions of Sections 5.9.1 and 5.9.2 of Rule 4624 during five consecutive quarterly inspections. Upon identification of any leak during an annual inspection the frequency shall revert back to quarterly and the operator shall contact the APCO in writing within 14 days. [District 4624] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-71-14-12

EXPIRATION DATE: 08/31/2016

SECTION: SW35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:
BUTAMER-BUTANE ISOMERIZATION UNIT #2 WITH 105 MMBTU/HR GAS-FIRED HOT OIL HEATER H-202 EQUIPPED WITH CALLIDUS MODEL CUBR-12W LOW-NOX BURNERS AND INTERNAL FGR, WITH NITROGEN PURGE SYSTEM SERVING COMPRESSOR SEALS AND COMPRESSOR CRANKCASES

PERMIT UNIT REQUIREMENTS

1. Operation shall include deisobutanizer tower T-202, stabilizer tower V-503, caustic scrubber tower V-110A, two butamer reactor vessels V-501 A/B, stabilizer receiver vessel V-502, and deisobutanizer overhead accumulator vessel V-203. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Operation shall include seventeen shell & tube heat exchangers, four air-cooled heat exchangers, 350 hp recycle gas compressor C-401, and 20 hp emergency vent drum vapor compressor C-501. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Perchloroethylene shall be received, stored, and transferred using a pressurized and/or enclosed system shared with permit unit #S-71-4. [District Rule 2201] Federally Enforceable Through Title V Permit
4. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of fuel gas combusted in the unit shall be installed, utilized and maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Fuel gas combusted in fired equipment may be comprised of process off-gas (including hydrogen), propane, butane, natural gas, or any combination thereof. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The heating value of the fuel gas (Btu/scf @ the hhv) combusted in fired equipment shall be determined by sample analysis at least annually. Results of sample analysis shall be retained on site and made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Total heat input of fuel gas combusted in units S-71-4, '5, '14 and '15 shall not exceed 1,602,019 MMBtu/yr. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The nitrogen purge system serving the liquid lines shall be a closed loop system and shall not vent to the atmosphere during operation of the system. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The nitrogen purge system serving the compressor seals and compressor crankcases shall vent through two activated charcoal canisters connected in series, except during scheduled maintenance or repair activities. During repair and maintenance (such as charcoal bed change out) VOC emissions shall be minimized to the fullest extent possible. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The nitrogen purge system's used activated charcoal canisters shall be handled and disposed of in sealed containers, preventing VOC emissions to the fullest extent possible. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The nitrogen purge system's activated charcoal canisters shall be replaced to maintain the VOC concentration from the canister vent less than 4,500 ppmv-VOC or periodically as recommended by the manufacturer, whichever occurs first. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. Maximum fugitive VOC emissions from permits #S-71-14 and '-15 shall not exceed 63.2 lb per day. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Permittee shall maintain permit accurate fugitive component counts and resulting emissions calculated using CAPCOA's "California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities," February 1999, Table IV-2c: CAPCOA Oil and Gas Production Screening Value Range Emission Factors. [District Rule 2201] Federally Enforceable Through Title V Permit
14. Emission rates shall not exceed any of the following: PM10: 0.0137 lb/MMBtu; NOx (as NO2): 25 ppmv @ 3% O2; SOx (as SO2): 0.0006 lb MMBtu; VOC: 0.00141 lb/MMBtu; or CO: 50 ppmv @ 3% O2. [District Rule 2201] Federally Enforceable Through Title V Permit
15. Process oil heater stack shall be equipped with sampling facilities for source testing in accordance with the provisions of Rule 1081 (Source Sampling). [District Rule 1081] Federally Enforceable Through Title V Permit
16. The stack concentration of NOx (as NO2), CO, and O2 shall be measured at least on a monthly basis using District approved portable analyzers. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
17. The permittee shall maintain records of the date and time of NOx, CO, and O2 measurements, the measured NO2 and CO concentrations corrected to 3% O2, and the O2 concentration. The records shall also include a description of any corrective action taken to maintain the emissions in the acceptable range. These records shall be retained at the facility for a period of no less than five years and shall be made readily available for District inspection upon request. [District Rules 1070, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
18. If the NOx and/or CO concentrations, as measured by the portable analyzer, exceed the permitted emission limits, the permittee or third party shall notify the District and return the NOx and CO concentrations to the permitted emission limits as soon as possible but no longer than one (1) hour after detection. If the portable analyzer readings continue to exceed the permitted emission limits after (1) hour, the permittee shall conduct a source test within 60 days, of the first exceedance to demonstrate compliance with the permitted emission limits. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
19. District witnessed compliance source testing for NOx, CO, and SOx emission limits shall be conducted at least once every 12 months, except as provided below. [District Rules 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
20. District witnessed source testing to demonstrate compliance with NOx, CO, and SOx emission limits shall be conducted not less than once every 36 months if compliance is demonstrated on two consecutive annual tests. [District Rules 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
21. If permittee fails any compliance demonstration for NOx, CO, or SOx emission limits when testing not less than once every 36 months, compliance with NOx, CO, and SOx emission limits shall be demonstrated not less than once every 12 months. [District Rules 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
22. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
23. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
24. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
25. For the purposes of source testing, the following test methods shall be used: NOx (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, SOx (lb/MMBtu) - EPA Method 19, and stack gas oxygen - EPA Method 3 or 3A or ARB Method 100. [District Rules 1081, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

26. When the LPG supply source for make up fuel to the fuel gas system changes, the stack concentrations of NOx, CO, and O2 shall be measured with a District approved portable analyzer to verify emissions compliance. This is to be done anytime that LPG is being vaporized to supply make up fuel to the fuel gas system. [District Rule 2201, 4301, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit

27. Permittee shall maintain accurate records of perchloroethylene usage, fuel gas heating value and daily, monthly and yearly records of fuel gas use. [District Rules1070 and 2201] Federally Enforceable Through Title V Permit

28. Permittee shall maintain accurate monthly records of the combined fuel gas combusted in units S-71-4, '5, '14 and '15. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

29. The operator shall keep a copy of the APCO-approved Operator Management Plan (OMP) at the facility and make it available to the APCO, ARB and US EPA upon request. By January 30 of each year, the operator shall submit to the APCO for approval, in writing, an annual report indicating any changes to the existing, approved OMP. [District Rule 4455] Federally Enforceable Through Title V Permit

30. In accordance with the approved OMP, the operator shall meet all applicable operating, inspection and re-inspection, maintenance, process pressure relief device (PRD), component identification, recordkeeping and notification requirements of Rule 4455 for all components containing or contacting VOC at the this gas liquids processing facility, except for those components specifically exempted in Sections 4.1 and 4.2. [District Rule 4455] Federally Enforceable Through Title V Permit

31. Except for those components specified in condition 32, a component shall be considered leaking if one of more of the conditions specified in Sections 5.1.4.1 through 5.1.4.4 of the rule exist at the facility . [District Rule 4455] Federally Enforceable Through Title V Permit

32. For valves and connectors, a leak shall be defined as a reading of methane in excess of 100 ppmv above background when measured per EPA Method 21 and Maintenance Program pursuant to District Rule 4455. For pump and compressor seals, a leak shall be defined as a reading of methane in excess of 500 ppmv above background when measure per EPA Method 21 and an Inspection and Maintenance Program pursuant to District Rule 4455. [District Rule 2201] Federally Enforceable Through Title V Permit

33. All records required by this permit shall be retained for a period of at least 5 years and shall be made available to the District, ARB, and USEPA upon request. [District Rules 1070 and 4455] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-71-15-10 **EXPIRATION DATE:** 08/31/2016

SECTION: SW35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:
SAFECAT FEEDSTOCK TREATMENT UNIT WITH 23 MMBTU/HR GAS-FIRED HEATER H-401 EQUIPPED WITH CALLIDUS MODEL CUBR-8P LOW-NOX BURNERS AND INTERNAL FGR

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
2. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of fuel gas combusted in the unit shall be installed, utilized and maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Operation shall include SafeCat feed surge drum V-401, SafeCat reactor vessel V-402, SafeCat product separator vessel V-403, depropanizer receiver boot V-7, sulfur injection drum V-407, and three SafeCat adsorber vessels V-405 A/B/C. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Operation shall include two SulfaTreat adsorber vessels V-102 A/B, SafeCat Feed prefilter vessel F-401, five shell & tube heat exchangers, and air-cooled heat exchanger. [District Rule 2201] Federally Enforceable Through Title V Permit
5. SafeCat feedstock treatment system gas shall be routed only to SafeCat feed stream or SulfaTreat sulfur removal equipment prior to introduction into facility fuel gas system. [District Rule 2201] Federally Enforceable Through Title V Permit
6. No on-site regeneration of SulfaTreat chemical is authorized. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Gas combusted in fired equipment may be comprised of process off-gas (including hydrogen), propane, butane, natural gas, or any combination thereof. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The heating value of the fuel gas (Btu/scf @ the hhv) combusted in fired equipment shall be determined by sample analysis at least annually. Results of sample analysis shall be retained on site and made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Total heat input of fuel gas combusted in units S-71-4, '5, '14 and '15 shall not exceed 1,602,019 MM Btu/yr. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Leaks from valves, connectors, and other components (not including pump and compressor seals) subject to a BACT requirement and subject to the provisions of Rule 4455 shall be defined as a reading of methane on a portable hydrocarbon detection instrument in excess of 100 ppmv above background when measured as close as possible but not greater than one (1) cm from the potential source. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

11. Leaks from pump and compressor seals subject to a BACT requirement and subject to the provisions of Rule 4455 shall be defined as a reading of methane on a portable hydrocarbon detection instrument in excess of 500 ppmv above background when measured as close as possible but not greater than one (1) cm from potential source. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Maximum fugitive VOC emissions from permits #S-71-14 and '-15 shall not exceed 63.2 lb per day. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Permittee shall maintain permit accurate fugitive component counts and resulting emissions calculated using CAPCOA's "California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities," February 1999, Table IV-2c: CAPCOA Oil and Gas Production Screening Value Range Emission Factors. [District Rule 2201] Federally Enforceable Through Title V Permit
14. Emission rates shall not exceed any of the following: PM10: 0.0137 lb/MMBtu; NOx (as NO2): 25 ppmv @ 3% O2; SOx (as SO2): 0.0006 lb MMBtu; VOC: 0.00279 lb/MMBtu; or CO: 50 ppmv @ 3% O2. [District Rule 2201] Federally Enforceable Through Title V Permit
15. SafeCat heater stack shall be equipped with sampling facilities for source testing in accordance with the provisions of Rule 1081 (Source Sampling). [District Rule 1081] Federally Enforceable Through Title V Permit
16. The emission control systems shall be in operation and emissions shall be minimized insofar as technologically feasible during startup and shutdown. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
17. The duration of each startup and shutdown period for the 23 MMBtu/hr gas-fired heater shall not exceed 7.7 hours and 2.0 hours respectively. Emission limits of Rules 4305, 4306 and 4320 are waived during periods of startup and shutdown. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
18. The permittee shall maintain records of the duration of each startup period for the 23 MMBtu/hr gas-fired heater. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
19. The permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every month using a portable emission monitor. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
20. If the NOx and/or CO concentrations corrected to 3% O2, as measured by the portable analyzer, exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
21. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 3% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
22. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
23. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

24. This unit shall be tested for compliance with the NOx, CO, and SOx emissions limits at least once every 12 months. After demonstrating compliance on two consecutive annual source tests, the unit shall be tested not less than once every thirty-six months. [District Rules 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit

25. NOx emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. NOx emissions during the source test shall be calculated as the arithmetic average of three 30-consecutive-minute test runs. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit

26. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. CO emissions during the source test shall be calculated as the arithmetic average of three 30-consecutive-minute test runs. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit

27. SOx emissions for source test purposes shall be determined using EPA Method 19. [District Rule 1081] Federally Enforceable Through Title V Permit

28. Stack gas oxygen for source test purposes shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit

29. If permittee fails any compliance demonstration for NOx, CO, or SOx emission limits when testing not less than once every 36 months, compliance with NOx, CO, and SOx emission limits shall be demonstrated not less than once every 12 months. [District Rules 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit

30. When the LPG supply source for make up fuel to the fuel gas system changes, the stack concentrations of NOx, CO, and O2 shall be measured with a District approved portable analyzer to verify emissions compliance. This is to be done anytime that LPG is being vaporized to supply make up fuel to the fuel gas system. [District Rule 2201, 4301, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit

31. Permittee shall maintain accurate records of perchloroethylene usage, fuel gas heat input, and daily, monthly and yearly records of fuel gas use. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

32. Permittee shall maintain accurate monthly records of the combined heat input of the fuel gas combusted in units S-71-4, '5, '14 and '15. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit

33. The operator shall keep a copy of the APCO-approved Operator Management Plan (OMP) at the facility and make it available to the APCO, ARB and US EPA upon request. By January 30 of each year, the operator shall submit to the APCO for approval, in writing, an annual report indicating any changes to the existing, approved OMP. [District Rule 4455] Federally Enforceable Through Title V Permit

34. In accordance with the approved OMP, the operator shall meet all applicable operating, inspection and re-inspection, maintenance, process pressure relief device (PRD), component identification, recordkeeping and notification requirements of Rule 4455 for all components containing or contacting VOC at the this gas liquids processing facility, except for those components specifically exempted in Sections 4.1 and 4.2. [District Rule 4455] Federally Enforceable Through Title V Permit

35. Except for those components specified in condition 36, a component shall be considered leaking if one of more of the conditions specified in Sections 5.1.4.1 through 5.1.4.4 of the rule exist at the facility . [District Rule 4455] Federally Enforceable Through Title V Permit

36. For valves and connectors, a leak shall be defined as a reading of methane in excess of 100 ppmv above background when measured per EPA Method 21 and Maintenance Program pursuant to District Rule 4455. For pump and compressor seals, a leak shall be defined as a reading of methane in excess of 500 ppmv above background when measured per EPA Method 21 and an Inspection and Maintenance Program pursuant to District Rule 4455. [District Rule 2201] Federally Enforceable Through Title V Permit

37. All records required by this permit shall be retained for a period of at least 5 years and shall be made available to the District, ARB, and USEPA upon request. [District Rules 1070 and 4455] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-71-17-2 **EXPIRATION DATE:** 08/31/2016

SECTION: SW35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:
267 BHP CATERPILLAR MODEL 3306, DIESEL FUELED I.C. ENGINE POWERING AN EMERGENCY FIREWATER PUMP

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. 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
3. The engine shall be equipped with a turbocharger and with an aftercooler or intercooler. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
5. 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
6. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 65 hours per year. [District Rules 2201, 4701, and 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. The permittee shall maintain records of hours of emergency and non-emergency operation. Records shall include the date, the number of hours of operation, the purpose of the operation (e.g., load testing, weekly testing, rolling blackout, general area power outage, etc.) and the type of fuel used. Such records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 4701 and 4702 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
8. Only CARB certified diesel fuel containing not more than 0.05% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
9. Emissions rates from this engine shall not exceed NOx, 4.24 lb/hr; PM10, 0.59 lb/hr; CO, 1.78 lb/hr or VOC, 0.67 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Operation of the engine shall not exceed 23 hours per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12. 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

13. 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

14. The engine shall be in compliance with all emission limitations and operating limitations that apply at all times. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

15. 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

16. The permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d of Subpart ZZZZ. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

17. On and after May 3, 2013, the permittee shall maintain monthly 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 monthly 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

18. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 4702 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-71-18-1 **EXPIRATION DATE:** 08/31/2016

SECTION: SW35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:
14,544 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #1

PERMIT UNIT REQUIREMENTS

1. Tank shall be maintained under working pressure sufficient at all times to prevent organic liquid loss or VOC loss to the atmosphere. [District Rule 4623]
2. The permittee shall not use any components that leak in excess of the applicable leak standards as specified in this permit. Components that have been found leaking in excess of the applicable leak standards of this rule may be used provided such leaking components have been identified with a tag for repair, are repaired, or are awaiting re-inspection after being repaired, within the applicable time period specified in this permit. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
3. For valves, threaded connections, flanges, pipes, pumps, compressors, and other components not specified in this permit; a major gas leak is a detection of > 10,000 ppmv as methane; a minor gas leak is a detection of 1,000 to 10,000 ppmv as methane when the component is in liquid service; a minor gas leak is a detection of 2,000 to 10,000 ppmv as methane when the component is in gas/vapor service. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
4. For pressure relief devices (PRDs); a major gas leak is a detection of > 10,000 ppmv as methane; a minor gas leak is a detection of 200 to 10,000 ppmv as methane when the component is in liquid service; a minor gas leak is a detection of 400 to 10,000 ppmv as methane when the component is in gas/vapor service. [District Rule 4409and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
5. Each hatch shall be closed at all times except during sampling or adding of process material through the hatch, or during attended repair, replacement, or maintenance operations, provided such activities are done as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere. [District Rule 4409] Federally Enforceable Through Title V Permit
6. Leaks detected during quarterly operator inspections shall not be counted towards determination of compliance with the provisions of Rule 4409 provided the leaking components are repaired as soon as practicable but not later than the time frame specified in this permit. Leaks detected during quarterly operator inspections that are not repaired, replaced, or removed from operation as soon as practicable but not later than the time frame specified in this rule shall be counted toward determination of compliance with the provisions of Rule 4409. [District Rule 4409] Federally Enforceable Through Title V Permit
7. Leaking components at this facility detected during annual operator inspections, as required by Rule 4409 for a specific component type, that exceed the leak standards specified in this permit, shall constitute a violation of this rule. This violation is regardless of whether or not the leaking components are repaired, replaced, or removed from operation within the allowable repair time frame specified in this permit. [District Rule 4409] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

8. An open-ended line, or a valve located at the end of the line, that is not sealed with either a blind flange, a plug, a cap, or a second closed valve that is not closed at all times, except during attended operations requiring process fluid flow through the open-ended line is a leak. Attended operations include draining or degassing operations, connection of temporary process equipment, sampling of process streams, emergency venting, and other normal operational needs, provided such operations are done as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
9. A leak from a component is when there is a major liquid leak from the component. A major liquid leak from a component is when a visible mist or a continuous flow of liquid, that is not seal lubricant, leaks from the component. [District Rule 4409] Federally Enforceable Through Title V Permit
10. A leak from a component is when gas emissions greater than 50,000 ppmv, as methane, leaks from the component. [District Rule 4409] Federally Enforceable Through Title V Permit
11. A minor liquid leak from a component is when more than three drops of liquid per minute, that is not seal lubricant and is not a major liquid leak, leaks from the component. [District Rule 4409] Federally Enforceable Through Title V Permit
12. When 200 or fewer valves are inspected, a leak from a valve is when more than one valve has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 valves are inspected, a leak from a valve is when more than 0.5 % (rounded up to the nearest whole number) of the valves have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409] Federally Enforceable Through Title V Permit
13. When 200 or fewer threaded connections are inspected, a leak from a threaded connection is when more than one threaded connection has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 threaded connections are inspected, a leak from a threaded connection is when more than 0.5 % (rounded up to the nearest whole number) of the threaded connections have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409] Federally Enforceable Through Title V Permit
14. When 200 or fewer flanges are inspected, a leak from a flange is when more than one flange has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 flanges are inspected, a leak from a flange is when more than 0.5 % (rounded up to the nearest whole number) of the flanges have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409] Federally Enforceable Through Title V Permit
15. When 200 or fewer pumps are inspected, a leak from a pump is when more than two pumps have a minor liquid leak, a minor gas leak, or a gas leak greater than 10,000 ppmv and less than or equal to 50,000 ppmv. When greater than 200 pumps are inspected, a leak from a pump is when more than 1.0 % (rounded up to the nearest whole number) of the pumps have a minor liquid leak, a minor gas leak, or a gas leak greater than 10,000 ppmv and less than or equal to 50,000 ppmv. [District Rule 4409] Federally Enforceable Through Title V Permit
16. When compressors, PRDs, or other components not specified in this permit are inspected, a leak from these components is when more than one component has a minor liquid leak, a minor gas leak, or a gas leak greater than 10,000 ppmv and less than or equal to 50,000 ppmv. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
17. When pipes at natural gas processing facilities are inspected, a leak from a pipe is when more than two have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
18. For manned facilities all accessible operating pumps, compressors, and PRDs, in service, shall be audio-visually inspected for leaks at least once every 24 hours except when operators do not report to the facility during a 24 hour period. [District Rule 4409] Federally Enforceable Through Title V Permit
19. For unmanned facilities all accessible operating pumps, compressors, and PRDs, in service, shall be audio-visually inspected for leaks at least once per calendar week. [District Rule 4409] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

20. All accessible operating pumps, compressors, and PRDs, in service, that are found to be leaking by audio-visual inspection shall be attempted to be repaired immediately. The leaking component shall then be tested within 24 hours and, if found leaking again, shall be repaired as soon as practicable but not later than the timeframe specified in this permit. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

21. Except for inaccessible components, unsafe-to-monitor components, or pipes, all components, in service, shall be tested for leaks at least once every calendar quarter. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

22. All new, replaced, or repaired fittings, flanges, and threaded connections shall be tested for leaks immediately after being placed into service. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

23. All inaccessible components shall be tested for leaks at least once every 12 months. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

24. All unsafe-to-monitor components shall be tested for leaks during each turnaround. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

25. All pipes shall be visually inspected for leaks at least once every 12 months. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

26. All pipes, in service, that are found to be leaking by visual inspection shall be attempted to be repaired immediately. The leaking pipe shall then be tested within 24 hours and, if found leaking again, shall be repaired as soon as practicable but not later than the timeframe specified in this permit. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

27. The annual pipe inspection required by either the Department of Oil, Gas, and Geothermal Resources (DOGGR) pursuant to California Code of Regulation Title 14, Division 2, Subchapter 2, Section 1774 (Oilfield Facilities and Equipment Maintenance), or by the Spill Prevention Control and Countermeasure Plan (SPCC) pursuant to 40 Code of Federal Regulation Part 112 (Oil Prevention and Response: Non- Transportation-Related Onshore and Offshore Facilities) can be used as the annual pipe inspection required by District Rule 4409. [District Rule 4409] Federally Enforceable Through Title V Permit

28. Except for pumps, compressors, and PRDs, the permittee may apply for written approval from the District to change the inspection frequency of accessible components from quarterly to annually for a specific component type provided the following two qualifying requirements are met. During the previous five consecutive quarterly inspections, for the specific component type, there shall be no more leaks than as allowed by this permit. The permittee also shall not have received a Notice of Violation (NOV) from the District during the previous 12 months for violating any provisions of District Rule 4409 for the specific component type. If these two qualifying requirements have not been met, then the inspection frequency shall revert back to quarterly. The written request shall include pertinent documentation to demonstrate that the operator has successfully met the two qualifying requirements. [District Rule 4409] Federally Enforceable Through Title V Permit

29. The permittee shall notify the District in writing within five calendar days after changing the inspection frequency for a specific component type. The written notification shall include the reason(s) and date of change to a quarterly inspection frequency. [District Rule 4409] Federally Enforceable Through Title V Permit

30. A PRD that releases to the atmosphere shall be inspected by the permittee for leaks as soon as practicable but not later than 24 hours after the time of the release. The permittee shall reinspect the PRD for leaks not earlier than 24 hours after the initial inspection but not later than 15 calendar days after the date of the initial release. If the PRD is found by the permittee to be leaking during either inspection, the PRD leak shall be treated as if the leak was found during the required quarterly operator inspections. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

31. Except for PRDs, a component shall be inspected for leaks not later than 15 calendar days after repairing the leak or replacing the component. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

32. District inspections shall not be counted as an operator inspection required by District Rule 4409. Any attempt by an operator to count such District inspections as part of the operator's mandatory inspections is considered a willful circumvention of the rule and is a violation of this rule. [District Rule 4409] Federally Enforceable Through Title V Permit

33. The operator, upon detection of a leaking component, shall affix to that component a weatherproof, readily visible tag, bearing the date and time when the leak was detected and the date and time of the leak measurement. For gaseous leaks, the tag shall indicate the leak concentration in ppmv. For liquid leaks, the tag shall indicate whether it is a major liquid leak or a minor liquid leak. The tag shall indicate, when applicable, whether the component is an essential component, an unsafe-to-monitor component, or a critical component. The tag shall remain in place until the leaking component is repaired or replaced and reinspected and found to be in compliance with the requirements of this rule. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

34. The operator shall minimize all component leaks immediately, to the extent possible, but not later than one hour after detection of the leak in order to stop or reduce leakage to the atmosphere. If the leak has been minimized but the leak still exceeds the applicable leak standards specified in this permit, the operator shall do one of the following within the timeframes specified within this permit: 1) repair or replace the leaking component; 2) vent the leaking component to a closed vent system; 3) or remove the leaking component from operation. A closed vent system is a District approved system that is not open to the atmosphere. It is composed of hard-piping, ductwork connections and, if necessary, flow inducing devices that transport gas or vapor from a piece or pieces of equipment to a District approved control device that has a overall VOC collection and destruction or removal efficiency of at least 95%, or that transports gases or vapors back to a process system. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

35. The operator shall repair minor gas leaks within seven days. The operator shall repair major gas leaks, which are > 10,000 ppmv but < or equal to 50,000 ppmv, within three days. The operator shall repair major gas leaks, which are > 50,000 ppmv, within two days. The operator shall repair minor liquid leaks within three days. The operator shall repair major liquid leaks within two days. The leak rate measured after leak minimization has been performed shall be the leak rate used to determine the applicable repair period. The start of the repair period shall be the time of the initial leak detection. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

36. For each calendar quarter, the operator may extend the repair period for a total number of leaking components, not to exceed 0.05 % of the number of components inspected, by type, rounded upward to the nearest whole number. The repair period for minor gas leaks can be extended by seven additional days. The repair period for major gas leaks, which are > 10,000 ppmv but < or equal to 50,000 ppmv, can be extended by two additional days. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

37. If a leaking component is an essential component or a critical component and which cannot be shut down immediately for repairs, the operator shall do the following: 1) minimize the leak within one hour after detection of the leak; 2) and if the leak has been minimized, but the leak still exceeds the applicable leak standards of Rule 4409 as specified in this permit, the essential component or critical component shall be repaired or replaced to eliminate the leak during the next process unit turnaround. The repair shall occur no later than one year from the date of the original leak detection. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

38. For any component that has incurred five repair actions for major gas leaks or major liquid leaks, or a combination of major gas leaks and major liquid leaks within a continuous 12-month period, the operator shall do one of the following four options. Options 1a through 1f require written notification to the District, option 2 requires written notification to the District and written District approval, options 3 and 4 do not require written notification to the District: 1a) For compressors replace the existing seal with either a dual mechanical seal, an oil film seal, a gas seal, or a face-type seal; 1b) for pumps replace the pump with a seal-less pump or replace the seal with a dual mechanical seal; 1c) for PRDs replace the PRD and install a rupture disc in the line which precedes the PRD such that the PRD is in series with and follows the rupture disc; 1d) for valves replace the valve with a sealed bellows valve, or for seal rings install graphite or Teflon chevron seal rings in a live-loaded packing gland; 1e) for threaded connections weld the connections or replace threaded connections with flanges; 1f) for sampling connections replace the sampling connection with a closed-loop sampling system; 2) Replace the component with Achieved-in-Practice Best Available Control Technology (BACT) equipment; 3) Vent the component to a District approved closed-vent system; 4) Remove the component from operation. For any component that is accessible, is not unsafe-to-monitor, is not an essential component, or is not a critical component, the operator shall comply with these requirements as soon as practicable but not later than twelve months after the date of detection of the fifth major leak within a continuous 12-month period. For any component that is inaccessible, is unsafe-to-monitor, is essential, or is a critical component, the operator shall comply with these requirements as soon as practicable but not later than the next turnaround or not later than two years after the date of detection of the fifth major leak within a continuous 12-month period, whichever comes first. [District Rule 4409] Federally Enforceable Through Title V Permit

39. All major components and critical components shall be physically identified clearly and visibly for inspection, repair, and recordkeeping purposes. The physical identification shall consist of labels, tags, manufacturer's nameplate identifier, serial number, or model number, or other system approved by the District that enables an operator or the District to locate each individual component. The operator shall replace physical identifications that become missing or unreadable as soon as practicable but not later than 24 hours after discovery. [District Rule 4409] Federally Enforceable Through Title V Permit

40. The operator shall keep a copy of the District approved Operator Management Plan (OMP) at the facility and make it available to the District, ARB, and EPA upon request. [District Rule 4409] Federally Enforceable Through Title V Permit

41. By January 30th of each year the operator shall submit to the District for approval, in writing, an annual report indicating any changes to the existing OMP on file at the District. [District Rule 4409] Federally Enforceable Through Title V Permit

42. The operator shall maintain an inspection log that has been signed and dated by the facility operator responsible for the inspection, certifying the accuracy of the information recorded in the log. The inspection log shall contain, at a minimum, all of the following information: 1) The total number of components inspected, and the total number and percentage of leaking components found by component types; 2) The location, type, name or description of each leaking component and the description of any unit where the leaking component is found; 3) Date of the leak detection and method of the leak detection; 4) For gaseous leaks, record the leak concentration in ppmv, and for liquid leaks record whether the leak is a major liquid leak or a minor liquid leak; 5) The date of repair, replacement, or removal from operation of the leaking component(s); 6) The identification and location of essential components and critical components found leaking that cannot be repaired until the next process unit turnaround or not later than one year after leak detection, whichever comes first; 7) The method(s) used to minimize the leak from essential components and critical components found leaking that cannot be repaired until the next process unit turnaround or not later than one year after leak detection, whichever comes earlier; 8) The date of re-inspection and the leak concentration in ppmv after the component is repaired or is replaced; 9) The inspector's name, business mailing address, and business telephone number. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

43. Records of leaks detected during quarterly or annual operator inspections, and each subsequent repair and re-inspection, shall be submitted to the District, ARB, and EPA upon request. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

44. Records shall be maintained of each calibration of the portable hydrocarbon detection instrument utilized for inspecting components. The records shall include a copy of the current calibration gas certification from the vendor of the calibration gas cylinder, the date of calibration, the concentration of calibration gas, the instrument reading of calibration gas before adjustment, the instrument reading of calibration gas after adjustment, the calibration gas expiration date, and the calibration gas cylinder pressure at the time of calibration. [District Rule 4409] Federally Enforceable Through Title V Permit

45. All measurements of gaseous leak concentrations shall be conducted according to EPA Method 21 using an appropriate portable hydrocarbon detection instrument calibrated with methane. The instrument shall be calibrated in accordance with the procedures specified in EPA Method 21 or the manufacturer's instructions not more than 30 days prior to its use. [District Rule 4409] Federally Enforceable Through Title V Permit

46. The VOC content by weight percent shall be determined using ASTM D-1945 for gases and South Coast Air Quality Management District (SCAQMD) Method 304-91 for liquids. [District Rule 4409] Federally Enforceable Through Title V Permit

47. The percent by volume liquid evaporated at 302 øF (150 øC) shall be determined using ASTM D-86. [District Rule 4409] Federally Enforceable Through Title V Permit

48. The TVP of any organic liquid shall be determined by measuring the Reid Vapor Pressure (RVP) using ASTM D-323, and converting the RVP to TVP at the maximum organic liquid storage temperature. The conversion of RVP to TVP shall be done in accordance with the procedures specified in Appendix A of District Rule 4409. [District Rule 4409] Federally Enforceable Through Title V Permit

49. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM D-287 or ASTM 1298. Sampling for API gravity shall be performed in accordance with ASTM D-4057. [District Rule 4409] Federally Enforceable Through Title V Permit

50. The control efficiency of any VOC control device, measured and calculated as carbon, shall be determined by EPA Method 25, except when the outlet concentration must be below 50 ppm in order to meet the standard, in which case EPA Method 25a may be used. EPA Method 18 may be used in lieu of EPA Method 25 or EPA Method 25a provided the identity and approximate concentrations of the analytes/compounds in the sample gas stream are known before analysis with the gas chromatograph and the gas chromatograph is calibrated for each of those known analyte/compound to ensure that the VOC concentrations are neither under- or over-reported. [District Rule 4409] Federally Enforceable Through Title V Permit

51. Halogenated exempt compounds shall be analyzed by EPA Method 18 or ARB Method 422. [District Rule 4409] Federally Enforceable Through Title V Permit

52. All records required by this permit shall be retained on-site for a minimum of five years and made available for District, ARB, and EPA inspection upon request. [District Rules 1070 and 2520 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-71-19-1 **EXPIRATION DATE:** 08/31/2016

SECTION: SW35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:
14,544 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #2

PERMIT UNIT REQUIREMENTS

1. Tank shall be maintained under working pressure sufficient at all times to prevent organic liquid loss or VOC loss to the atmosphere. [District Rule 4623]
2. The permittee shall not use any components that leak in excess of the applicable leak standards as specified in this permit. Components that have been found leaking in excess of the applicable leak standards of this rule may be used provided such leaking components have been identified with a tag for repair, are repaired, or are awaiting re-inspection after being repaired, within the applicable time period specified in this permit. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
3. For valves, threaded connections, flanges, pipes, pumps, compressors, and other components not specified in this permit; a major gas leak is a detection of > 10,000 ppmv as methane; a minor gas leak is a detection of 1,000 to 10,000 ppmv as methane when the component is in liquid service; a minor gas leak is a detection of 2,000 to 10,000 ppmv as methane when the component is in gas/vapor service. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
4. For pressure relief devices (PRDs); a major gas leak is a detection of > 10,000 ppmv as methane; a minor gas leak is a detection of 200 to 10,000 ppmv as methane when the component is in liquid service; a minor gas leak is a detection of 400 to 10,000 ppmv as methane when the component is in gas/vapor service. [District Rule 4409and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
5. Each hatch shall be closed at all times except during sampling or adding of process material through the hatch, or during attended repair, replacement, or maintenance operations, provided such activities are done as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere. [District Rule 4409] Federally Enforceable Through Title V Permit
6. Leaks detected during quarterly operator inspections shall not be counted towards determination of compliance with the provisions of Rule 4409 provided the leaking components are repaired as soon as practicable but not later than the time frame specified in this permit. Leaks detected during quarterly operator inspections that are not repaired, replaced, or removed from operation as soon as practicable but not later than the time frame specified in this rule shall be counted toward determination of compliance with the provisions of Rule 4409. [District Rule 4409] Federally Enforceable Through Title V Permit
7. Leaking components at this facility detected during annual operator inspections, as required by Rule 4409 for a specific component type, that exceed the leak standards specified in this permit, shall constitute a violation of this rule. This violation is regardless of whether or not the leaking components are repaired, replaced, or removed from operation within the allowable repair time frame specified in this permit. [District Rule 4409] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

8. An open-ended line, or a valve located at the end of the line, that is not sealed with either a blind flange, a plug, a cap, or a second closed valve that is not closed at all times, except during attended operations requiring process fluid flow through the open-ended line is a leak. Attended operations include draining or degassing operations, connection of temporary process equipment, sampling of process streams, emergency venting, and other normal operational needs, provided such operations are done as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
9. A leak from a component is when there is a major liquid leak from the component. A major liquid leak from a component is when a visible mist or a continuous flow of liquid, that is not seal lubricant, leaks from the component. [District Rule 4409] Federally Enforceable Through Title V Permit
10. A leak from a component is when gas emissions greater than 50,000 ppmv, as methane, leaks from the component. [District Rule 4409] Federally Enforceable Through Title V Permit
11. A minor liquid leak from a component is when more than three drops of liquid per minute, that is not seal lubricant and is not a major liquid leak, leaks from the component. [District Rule 4409] Federally Enforceable Through Title V Permit
12. When 200 or fewer valves are inspected, a leak from a valve is when more than one valve has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 valves are inspected, a leak from a valve is when more than 0.5 % (rounded up to the nearest whole number) of the valves have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409] Federally Enforceable Through Title V Permit
13. When 200 or fewer threaded connections are inspected, a leak from a threaded connection is when more than one threaded connection has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 threaded connections are inspected, a leak from a threaded connection is when more than 0.5 % (rounded up to the nearest whole number) of the threaded connections have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409] Federally Enforceable Through Title V Permit
14. When 200 or fewer flanges are inspected, a leak from a flange is when more than one flange has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 flanges are inspected, a leak from a flange is when more than 0.5 % (rounded up to the nearest whole number) of the flanges have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409] Federally Enforceable Through Title V Permit
15. When 200 or fewer pumps are inspected, a leak from a pump is when more than two pumps have a minor liquid leak, a minor gas leak, or a gas leak greater than 10,000 ppmv and less than or equal to 50,000 ppmv. When greater than 200 pumps are inspected, a leak from a pump is when more than 1.0 % (rounded up to the nearest whole number) of the pumps have a minor liquid leak, a minor gas leak, or a gas leak greater than 10,000 ppmv and less than or equal to 50,000 ppmv. [District Rule 4409] Federally Enforceable Through Title V Permit
16. When compressors, PRDs, or other components not specified in this permit are inspected, a leak from these components is when more than one component has a minor liquid leak, a minor gas leak, or a gas leak greater than 10,000 ppmv and less than or equal to 50,000 ppmv. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
17. When pipes at natural gas processing facilities are inspected, a leak from a pipe is when more than two have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
18. For manned facilities all accessible operating pumps, compressors, and PRDs, in service, shall be audio-visually inspected for leaks at least once every 24 hours except when operators do not report to the facility during a 24 hour period. [District Rule 4409] Federally Enforceable Through Title V Permit
19. For unmanned facilities all accessible operating pumps, compressors, and PRDs, in service, shall be audio-visually inspected for leaks at least once per calendar week. [District Rule 4409] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

20. All accessible operating pumps, compressors, and PRDs, in service, that are found to be leaking by audio-visual inspection shall be attempted to be repaired immediately. The leaking component shall then be tested within 24 hours and, if found leaking again, shall be repaired as soon as practicable but not later than the timeframe specified in this permit. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

21. Except for inaccessible components, unsafe-to-monitor components, or pipes, all components, in service, shall be tested for leaks at least once every calendar quarter. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

22. All new, replaced, or repaired fittings, flanges, and threaded connections shall be tested for leaks immediately after being placed into service. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

23. All inaccessible components shall be tested for leaks at least once every 12 months. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

24. All unsafe-to-monitor components shall be tested for leaks during each turnaround. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

25. All pipes shall be visually inspected for leaks at least once every 12 months. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

26. All pipes, in service, that are found to be leaking by visual inspection shall be attempted to be repaired immediately. The leaking pipe shall then be tested within 24 hours and, if found leaking again, shall be repaired as soon as practicable but not later than the timeframe specified in this permit. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

27. The annual pipe inspection required by either the Department of Oil, Gas, and Geothermal Resources (DOGGR) pursuant to California Code of Regulation Title 14, Division 2, Subchapter 2, Section 1774 (Oilfield Facilities and Equipment Maintenance), or by the Spill Prevention Control and Countermeasure Plan (SPCC) pursuant to 40 Code of Federal Regulation Part 112 (Oil Prevention and Response: Non- Transportation-Related Onshore and Offshore Facilities) can be used as the annual pipe inspection required by District Rule 4409. [District Rule 4409] Federally Enforceable Through Title V Permit

28. Except for pumps, compressors, and PRDs, the permittee may apply for written approval from the District to change the inspection frequency of accessible components from quarterly to annually for a specific component type provided the following two qualifying requirements are met. During the previous five consecutive quarterly inspections, for the specific component type, there shall be no more leaks than as allowed by this permit. The permittee also shall not have received a Notice of Violation (NOV) from the District during the previous 12 months for violating any provisions of District Rule 4409 for the specific component type. If these two qualifying requirements have not been met, then the inspection frequency shall revert back to quarterly. The written request shall include pertinent documentation to demonstrate that the operator has successfully met the two qualifying requirements. [District Rule 4409] Federally Enforceable Through Title V Permit

29. The permittee shall notify the District in writing within five calendar days after changing the inspection frequency for a specific component type. The written notification shall include the reason(s) and date of change to a quarterly inspection frequency. [District Rule 4409] Federally Enforceable Through Title V Permit

30. A PRD that releases to the atmosphere shall be inspected by the permittee for leaks as soon as practicable but not later than 24 hours after the time of the release. The permittee shall reinspect the PRD for leaks not earlier than 24 hours after the initial inspection but not later than 15 calendar days after the date of the initial release. If the PRD is found by the permittee to be leaking during either inspection, the PRD leak shall be treated as if the leak was found during the required quarterly operator inspections. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

31. Except for PRDs, a component shall be inspected for leaks not later than 15 calendar days after repairing the leak or replacing the component. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

32. District inspections shall not be counted as an operator inspection required by District Rule 4409. Any attempt by an operator to count such District inspections as part of the operator's mandatory inspections is considered a willful circumvention of the rule and is a violation of this rule. [District Rule 4409] Federally Enforceable Through Title V Permit

33. The operator, upon detection of a leaking component, shall affix to that component a weatherproof, readily visible tag, bearing the date and time when the leak was detected and the date and time of the leak measurement. For gaseous leaks, the tag shall indicate the leak concentration in ppmv. For liquid leaks, the tag shall indicate whether it is a major liquid leak or a minor liquid leak. The tag shall indicate, when applicable, whether the component is an essential component, an unsafe-to-monitor component, or a critical component. The tag shall remain in place until the leaking component is repaired or replaced and reinspected and found to be in compliance with the requirements of this rule. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

34. The operator shall minimize all component leaks immediately, to the extent possible, but not later than one hour after detection of the leak in order to stop or reduce leakage to the atmosphere. If the leak has been minimized but the leak still exceeds the applicable leak standards specified in this permit, the operator shall do one of the following within the timeframes specified within this permit: 1) repair or replace the leaking component; 2) vent the leaking component to a closed vent system; 3) or remove the leaking component from operation. A closed vent system is a District approved system that is not open to the atmosphere. It is composed of hard-piping, ductwork connections and, if necessary, flow inducing devices that transport gas or vapor from a piece or pieces of equipment to a District approved control device that has a overall VOC collection and destruction or removal efficiency of at least 95%, or that transports gases or vapors back to a process system. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

35. The operator shall repair minor gas leaks within seven days. The operator shall repair major gas leaks, which are > 10,000 ppmv but < or equal to 50,000 ppmv, within three days. The operator shall repair major gas leaks, which are > 50,000 ppmv, within two days. The operator shall repair minor liquid leaks within three days. The operator shall repair major liquid leaks within two days. The leak rate measured after leak minimization has been performed shall be the leak rate used to determine the applicable repair period. The start of the repair period shall be the time of the initial leak detection. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

36. For each calendar quarter, the operator may extend the repair period for a total number of leaking components, not to exceed 0.05 % of the number of components inspected, by type, rounded upward to the nearest whole number. The repair period for minor gas leaks can be extended by seven additional days. The repair period for major gas leaks, which are > 10,000 ppmv but < or equal to 50,000 ppmv, can be extended by two additional days. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

37. If a leaking component is an essential component or a critical component and which cannot be shut down immediately for repairs, the operator shall do the following: 1) minimize the leak within one hour after detection of the leak; 2) and if the leak has been minimized, but the leak still exceeds the applicable leak standards of Rule 4409 as specified in this permit, the essential component or critical component shall be repaired or replaced to eliminate the leak during the next process unit turnaround. The repair shall occur no later than one year from the date of the original leak detection. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

38. For any component that has incurred five repair actions for major gas leaks or major liquid leaks, or a combination of major gas leaks and major liquid leaks within a continuous 12-month period, the operator shall do one of the following four options. Options 1a through 1f require written notification to the District, option 2 requires written notification to the District and written District approval, options 3 and 4 do not require written notification to the District: 1a) For compressors replace the existing seal with either a dual mechanical seal, an oil film seal, a gas seal, or a face-type seal; 1b) for pumps replace the pump with a seal-less pump or replace the seal with a dual mechanical seal; 1c) for PRDs replace the PRD and install a rupture disc in the line which precedes the PRD such that the PRD is in series with and follows the rupture disc; 1d) for valves replace the valve with a sealed bellows valve, or for seal rings install graphite or Teflon chevron seal rings in a live-loaded packing gland; 1e) for threaded connections weld the connections or replace threaded connections with flanges; 1f) for sampling connections replace the sampling connection with a closed-loop sampling system; 2) Replace the component with Achieved-in-Practice Best Available Control Technology (BACT) equipment; 3) Vent the component to a District approved closed-vent system; 4) Remove the component from operation. For any component that is accessible, is not unsafe-to-monitor, is not an essential component, or is not a critical component, the operator shall comply with these requirements as soon as practicable but not later than twelve months after the date of detection of the fifth major leak within a continuous 12-month period. For any component that is inaccessible, is unsafe-to-monitor, is essential, or is a critical component, the operator shall comply with these requirements as soon as practicable but not later than the next turnaround or not later than two years after the date of detection of the fifth major leak within a continuous 12-month period, whichever comes first. [District Rule 4409] Federally Enforceable Through Title V Permit

39. All major components and critical components shall be physically identified clearly and visibly for inspection, repair, and recordkeeping purposes. The physical identification shall consist of labels, tags, manufacturer's nameplate identifier, serial number, or model number, or other system approved by the District that enables an operator or the District to locate each individual component. The operator shall replace physical identifications that become missing or unreadable as soon as practicable but not later than 24 hours after discovery. [District Rule 4409] Federally Enforceable Through Title V Permit

40. The operator shall keep a copy of the District approved Operator Management Plan (OMP) at the facility and make it available to the District, ARB, and EPA upon request. [District Rule 4409] Federally Enforceable Through Title V Permit

41. By January 30th of each year the operator shall submit to the District for approval, in writing, an annual report indicating any changes to the existing OMP on file at the District. [District Rule 4409] Federally Enforceable Through Title V Permit

42. The operator shall maintain an inspection log that has been signed and dated by the facility operator responsible for the inspection, certifying the accuracy of the information recorded in the log. The inspection log shall contain, at a minimum, all of the following information: 1) The total number of components inspected, and the total number and percentage of leaking components found by component types; 2) The location, type, name or description of each leaking component and the description of any unit where the leaking component is found; 3) Date of the leak detection and method of the leak detection; 4) For gaseous leaks, record the leak concentration in ppmv, and for liquid leaks record whether the leak is a major liquid leak or a minor liquid leak; 5) The date of repair, replacement, or removal from operation of the leaking component(s); 6) The identification and location of essential components and critical components found leaking that cannot be repaired until the next process unit turnaround or not later than one year after leak detection, whichever comes first; 7) The method(s) used to minimize the leak from essential components and critical components found leaking that cannot be repaired until the next process unit turnaround or not later than one year after leak detection, whichever comes earlier; 8) The date of re-inspection and the leak concentration in ppmv after the component is repaired or is replaced; 9) The inspector's name, business mailing address, and business telephone number. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

43. Records of leaks detected during quarterly or annual operator inspections, and each subsequent repair and re-inspection, shall be submitted to the District, ARB, and EPA upon request. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

44. Records shall be maintained of each calibration of the portable hydrocarbon detection instrument utilized for inspecting components. The records shall include a copy of the current calibration gas certification from the vendor of the calibration gas cylinder, the date of calibration, the concentration of calibration gas, the instrument reading of calibration gas before adjustment, the instrument reading of calibration gas after adjustment, the calibration gas expiration date, and the calibration gas cylinder pressure at the time of calibration. [District Rule 4409] Federally Enforceable Through Title V Permit

45. All measurements of gaseous leak concentrations shall be conducted according to EPA Method 21 using an appropriate portable hydrocarbon detection instrument calibrated with methane. The instrument shall be calibrated in accordance with the procedures specified in EPA Method 21 or the manufacturer's instructions not more than 30 days prior to its use. [District Rule 4409] Federally Enforceable Through Title V Permit

46. The VOC content by weight percent shall be determined using ASTM D-1945 for gases and South Coast Air Quality Management District (SCAQMD) Method 304-91 for liquids. [District Rule 4409] Federally Enforceable Through Title V Permit

47. The percent by volume liquid evaporated at 302 øF (150 øC) shall be determined using ASTM D-86. [District Rule 4409] Federally Enforceable Through Title V Permit

48. The TVP of any organic liquid shall be determined by measuring the Reid Vapor Pressure (RVP) using ASTM D-323, and converting the RVP to TVP at the maximum organic liquid storage temperature. The conversion of RVP to TVP shall be done in accordance with the procedures specified in Appendix A of District Rule 4409. [District Rule 4409] Federally Enforceable Through Title V Permit

49. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM D-287 or ASTM 1298. Sampling for API gravity shall be performed in accordance with ASTM D-4057. [District Rule 4409] Federally Enforceable Through Title V Permit

50. The control efficiency of any VOC control device, measured and calculated as carbon, shall be determined by EPA Method 25, except when the outlet concentration must be below 50 ppm in order to meet the standard, in which case EPA Method 25a may be used. EPA Method 18 may be used in lieu of EPA Method 25 or EPA Method 25a provided the identity and approximate concentrations of the analytes/compounds in the sample gas stream are known before analysis with the gas chromatograph and the gas chromatograph is calibrated for each of those known analyte/compound to ensure that the VOC concentrations are neither under- or over-reported. [District Rule 4409] Federally Enforceable Through Title V Permit

51. Halogenated exempt compounds shall be analyzed by EPA Method 18 or ARB Method 422. [District Rule 4409] Federally Enforceable Through Title V Permit

52. All records required by this permit shall be retained on-site for a minimum of five years and made available for District, ARB, and EPA inspection upon request. [District Rules 1070 and 2520 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-71-20-1 **EXPIRATION DATE:** 08/31/2016

SECTION: SW25 **TOWNSHIP:** 28E **RANGE:** 25E

EQUIPMENT DESCRIPTION:
16,505 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #3

PERMIT UNIT REQUIREMENTS

1. Tank shall be maintained under working pressure sufficient at all times to prevent organic liquid loss or VOC loss to the atmosphere. [District Rule 4623]
2. The permittee shall not use any components that leak in excess of the applicable leak standards as specified in this permit. Components that have been found leaking in excess of the applicable leak standards of this rule may be used provided such leaking components have been identified with a tag for repair, are repaired, or are awaiting re-inspection after being repaired, within the applicable time period specified in this permit. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
3. For valves, threaded connections, flanges, pipes, pumps, compressors, and other components not specified in this permit; a major gas leak is a detection of > 10,000 ppmv as methane; a minor gas leak is a detection of 1,000 to 10,000 ppmv as methane when the component is in liquid service; a minor gas leak is a detection of 2,000 to 10,000 ppmv as methane when the component is in gas/vapor service. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
4. For pressure relief devices (PRDs); a major gas leak is a detection of > 10,000 ppmv as methane; a minor gas leak is a detection of 200 to 10,000 ppmv as methane when the component is in liquid service; a minor gas leak is a detection of 400 to 10,000 ppmv as methane when the component is in gas/vapor service. [District Rule 4409and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
5. Each hatch shall be closed at all times except during sampling or adding of process material through the hatch, or during attended repair, replacement, or maintenance operations, provided such activities are done as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere. [District Rule 4409] Federally Enforceable Through Title V Permit
6. Leaks detected during quarterly operator inspections shall not be counted towards determination of compliance with the provisions of Rule 4409 provided the leaking components are repaired as soon as practicable but not later than the time frame specified in this permit. Leaks detected during quarterly operator inspections that are not repaired, replaced, or removed from operation as soon as practicable but not later than the time frame specified in this rule shall be counted toward determination of compliance with the provisions of Rule 4409. [District Rule 4409] Federally Enforceable Through Title V Permit
7. Leaking components at this facility detected during annual operator inspections, as required by Rule 4409 for a specific component type, that exceed the leak standards specified in this permit, shall constitute a violation of this rule. This violation is regardless of whether or not the leaking components are repaired, replaced, or removed from operation within the allowable repair time frame specified in this permit. [District Rule 4409] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

8. An open-ended line, or a valve located at the end of the line, that is not sealed with either a blind flange, a plug, a cap, or a second closed valve that is not closed at all times, except during attended operations requiring process fluid flow through the open-ended line is a leak. Attended operations include draining or degassing operations, connection of temporary process equipment, sampling of process streams, emergency venting, and other normal operational needs, provided such operations are done as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
9. A leak from a component is when there is a major liquid leak from the component. A major liquid leak from a component is when a visible mist or a continuous flow of liquid, that is not seal lubricant, leaks from the component. [District Rule 4409] Federally Enforceable Through Title V Permit
10. A leak from a component is when gas emissions greater than 50,000 ppmv, as methane, leaks from the component. [District Rule 4409] Federally Enforceable Through Title V Permit
11. A minor liquid leak from a component is when more than three drops of liquid per minute, that is not seal lubricant and is not a major liquid leak, leaks from the component. [District Rule 4409] Federally Enforceable Through Title V Permit
12. When 200 or fewer valves are inspected, a leak from a valve is when more than one valve has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 valves are inspected, a leak from a valve is when more than 0.5 % (rounded up to the nearest whole number) of the valves have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409] Federally Enforceable Through Title V Permit
13. When 200 or fewer threaded connections are inspected, a leak from a threaded connection is when more than one threaded connection has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 threaded connections are inspected, a leak from a threaded connection is when more than 0.5 % (rounded up to the nearest whole number) of the threaded connections have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409] Federally Enforceable Through Title V Permit
14. When 200 or fewer flanges are inspected, a leak from a flange is when more than one flange has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 flanges are inspected, a leak from a flange is when more than 0.5 % (rounded up to the nearest whole number) of the flanges have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409] Federally Enforceable Through Title V Permit
15. When 200 or fewer pumps are inspected, a leak from a pump is when more than two pumps have a minor liquid leak, a minor gas leak, or a gas leak greater than 10,000 ppmv and less than or equal to 50,000 ppmv. When greater than 200 pumps are inspected, a leak from a pump is when more than 1.0 % (rounded up to the nearest whole number) of the pumps have a minor liquid leak, a minor gas leak, or a gas leak greater than 10,000 ppmv and less than or equal to 50,000 ppmv. [District Rule 4409] Federally Enforceable Through Title V Permit
16. When compressors, PRDs, or other components not specified in this permit are inspected, a leak from these components is when more than one component has a minor liquid leak, a minor gas leak, or a gas leak greater than 10,000 ppmv and less than or equal to 50,000 ppmv. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
17. When pipes at natural gas processing facilities are inspected, a leak from a pipe is when more than two have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
18. For manned facilities all accessible operating pumps, compressors, and PRDs, in service, shall be audio-visually inspected for leaks at least once every 24 hours except when operators do not report to the facility during a 24 hour period. [District Rule 4409] Federally Enforceable Through Title V Permit
19. For unmanned facilities all accessible operating pumps, compressors, and PRDs, in service, shall be audio-visually inspected for leaks at least once per calendar week. [District Rule 4409] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

20. All accessible operating pumps, compressors, and PRDs, in service, that are found to be leaking by audio-visual inspection shall be attempted to be repaired immediately. The leaking component shall then be tested within 24 hours and, if found leaking again, shall be repaired as soon as practicable but not later than the timeframe specified in this permit. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

21. Except for inaccessible components, unsafe-to-monitor components, or pipes, all components, in service, shall be tested for leaks at least once every calendar quarter. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

22. All new, replaced, or repaired fittings, flanges, and threaded connections shall be tested for leaks immediately after being placed into service. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

23. All inaccessible components shall be tested for leaks at least once every 12 months. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

24. All unsafe-to-monitor components shall be tested for leaks during each turnaround. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

25. All pipes shall be visually inspected for leaks at least once every 12 months. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

26. All pipes, in service, that are found to be leaking by visual inspection shall be attempted to be repaired immediately. The leaking pipe shall then be tested within 24 hours and, if found leaking again, shall be repaired as soon as practicable but not later than the timeframe specified in this permit. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

27. The annual pipe inspection required by either the Department of Oil, Gas, and Geothermal Resources (DOGGR) pursuant to California Code of Regulation Title 14, Division 2, Subchapter 2, Section 1774 (Oilfield Facilities and Equipment Maintenance), or by the Spill Prevention Control and Countermeasure Plan (SPCC) pursuant to 40 Code of Federal Regulation Part 112 (Oil Prevention and Response: Non- Transportation-Related Onshore and Offshore Facilities) can be used as the annual pipe inspection required by District Rule 4409. [District Rule 4409] Federally Enforceable Through Title V Permit

28. Except for pumps, compressors, and PRDs, the permittee may apply for written approval from the District to change the inspection frequency of accessible components from quarterly to annually for a specific component type provided the following two qualifying requirements are met. During the previous five consecutive quarterly inspections, for the specific component type, there shall be no more leaks than as allowed by this permit. The permittee also shall not have received a Notice of Violation (NOV) from the District during the previous 12 months for violating any provisions of District Rule 4409 for the specific component type. If these two qualifying requirements have not been met, then the inspection frequency shall revert back to quarterly. The written request shall include pertinent documentation to demonstrate that the operator has successfully met the two qualifying requirements. [District Rule 4409] Federally Enforceable Through Title V Permit

29. The permittee shall notify the District in writing within five calendar days after changing the inspection frequency for a specific component type. The written notification shall include the reason(s) and date of change to a quarterly inspection frequency. [District Rule 4409] Federally Enforceable Through Title V Permit

30. A PRD that releases to the atmosphere shall be inspected by the permittee for leaks as soon as practicable but not later than 24 hours after the time of the release. The permittee shall reinspect the PRD for leaks not earlier than 24 hours after the initial inspection but not later than 15 calendar days after the date of the initial release. If the PRD is found by the permittee to be leaking during either inspection, the PRD leak shall be treated as if the leak was found during the required quarterly operator inspections. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

31. Except for PRDs, a component shall be inspected for leaks not later than 15 calendar days after repairing the leak or replacing the component. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

32. District inspections shall not be counted as an operator inspection required by District Rule 4409. Any attempt by an operator to count such District inspections as part of the operator's mandatory inspections is considered a willful circumvention of the rule and is a violation of this rule. [District Rule 4409] Federally Enforceable Through Title V Permit

33. The operator, upon detection of a leaking component, shall affix to that component a weatherproof, readily visible tag, bearing the date and time when the leak was detected and the date and time of the leak measurement. For gaseous leaks, the tag shall indicate the leak concentration in ppmv. For liquid leaks, the tag shall indicate whether it is a major liquid leak or a minor liquid leak. The tag shall indicate, when applicable, whether the component is an essential component, an unsafe-to-monitor component, or a critical component. The tag shall remain in place until the leaking component is repaired or replaced and reinspected and found to be in compliance with the requirements of this rule. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

34. The operator shall minimize all component leaks immediately, to the extent possible, but not later than one hour after detection of the leak in order to stop or reduce leakage to the atmosphere. If the leak has been minimized but the leak still exceeds the applicable leak standards specified in this permit, the operator shall do one of the following within the timeframes specified within this permit: 1) repair or replace the leaking component; 2) vent the leaking component to a closed vent system; 3) or remove the leaking component from operation. A closed vent system is a District approved system that is not open to the atmosphere. It is composed of hard-piping, ductwork connections and, if necessary, flow inducing devices that transport gas or vapor from a piece or pieces of equipment to a District approved control device that has a overall VOC collection and destruction or removal efficiency of at least 95%, or that transports gases or vapors back to a process system. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

35. The operator shall repair minor gas leaks within seven days. The operator shall repair major gas leaks, which are > 10,000 ppmv but < or equal to 50,000 ppmv, within three days. The operator shall repair major gas leaks, which are > 50,000 ppmv, within two days. The operator shall repair minor liquid leaks within three days. The operator shall repair major liquid leaks within two days. The leak rate measured after leak minimization has been performed shall be the leak rate used to determine the applicable repair period. The start of the repair period shall be the time of the initial leak detection. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

36. For each calendar quarter, the operator may extend the repair period for a total number of leaking components, not to exceed 0.05 % of the number of components inspected, by type, rounded upward to the nearest whole number. The repair period for minor gas leaks can be extended by seven additional days. The repair period for major gas leaks, which are > 10,000 ppmv but < or equal to 50,000 ppmv, can be extended by two additional days. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

37. If a leaking component is an essential component or a critical component and which cannot be shut down immediately for repairs, the operator shall do the following: 1) minimize the leak within one hour after detection of the leak; 2) and if the leak has been minimized, but the leak still exceeds the applicable leak standards of Rule 4409 as specified in this permit, the essential component or critical component shall be repaired or replaced to eliminate the leak during the next process unit turnaround. The repair shall occur no later than one year from the date of the original leak detection. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

38. For any component that has incurred five repair actions for major gas leaks or major liquid leaks, or a combination of major gas leaks and major liquid leaks within a continuous 12-month period, the operator shall do one of the following four options. Options 1a through 1f require written notification to the District, option 2 requires written notification to the District and written District approval, options 3 and 4 do not require written notification to the District: 1a) For compressors replace the existing seal with either a dual mechanical seal, an oil film seal, a gas seal, or a face-type seal; 1b) for pumps replace the pump with a seal-less pump or replace the seal with a dual mechanical seal; 1c) for PRDs replace the PRD and install a rupture disc in the line which precedes the PRD such that the PRD is in series with and follows the rupture disc; 1d) for valves replace the valve with a sealed bellows valve, or for seal rings install graphite or Teflon chevron seal rings in a live-loaded packing gland; 1e) for threaded connections weld the connections or replace threaded connections with flanges; 1f) for sampling connections replace the sampling connection with a closed-loop sampling system; 2) Replace the component with Achieved-in-Practice Best Available Control Technology (BACT) equipment; 3) Vent the component to a District approved closed-vent system; 4) Remove the component from operation. For any component that is accessible, is not unsafe-to-monitor, is not an essential component, or is not a critical component, the operator shall comply with these requirements as soon as practicable but not later than twelve months after the date of detection of the fifth major leak within a continuous 12-month period. For any component that is inaccessible, is unsafe-to-monitor, is essential, or is a critical component, the operator shall comply with these requirements as soon as practicable but not later than the next turnaround or not later than two years after the date of detection of the fifth major leak within a continuous 12-month period, whichever comes first. [District Rule 4409] Federally Enforceable Through Title V Permit

39. All major components and critical components shall be physically identified clearly and visibly for inspection, repair, and recordkeeping purposes. The physical identification shall consist of labels, tags, manufacturer's nameplate identifier, serial number, or model number, or other system approved by the District that enables an operator or the District to locate each individual component. The operator shall replace physical identifications that become missing or unreadable as soon as practicable but not later than 24 hours after discovery. [District Rule 4409] Federally Enforceable Through Title V Permit

40. The operator shall keep a copy of the District approved Operator Management Plan (OMP) at the facility and make it available to the District, ARB, and EPA upon request. [District Rule 4409] Federally Enforceable Through Title V Permit

41. By January 30th of each year the operator shall submit to the District for approval, in writing, an annual report indicating any changes to the existing OMP on file at the District. [District Rule 4409] Federally Enforceable Through Title V Permit

42. The operator shall maintain an inspection log that has been signed and dated by the facility operator responsible for the inspection, certifying the accuracy of the information recorded in the log. The inspection log shall contain, at a minimum, all of the following information: 1) The total number of components inspected, and the total number and percentage of leaking components found by component types; 2) The location, type, name or description of each leaking component and the description of any unit where the leaking component is found; 3) Date of the leak detection and method of the leak detection; 4) For gaseous leaks, record the leak concentration in ppmv, and for liquid leaks record whether the leak is a major liquid leak or a minor liquid leak; 5) The date of repair, replacement, or removal from operation of the leaking component(s); 6) The identification and location of essential components and critical components found leaking that cannot be repaired until the next process unit turnaround or not later than one year after leak detection, whichever comes first; 7) The method(s) used to minimize the leak from essential components and critical components found leaking that cannot be repaired until the next process unit turnaround or not later than one year after leak detection, whichever comes earlier; 8) The date of re-inspection and the leak concentration in ppmv after the component is repaired or is replaced; 9) The inspector's name, business mailing address, and business telephone number. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

43. Records of leaks detected during quarterly or annual operator inspections, and each subsequent repair and re-inspection, shall be submitted to the District, ARB, and EPA upon request. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

44. Records shall be maintained of each calibration of the portable hydrocarbon detection instrument utilized for inspecting components. The records shall include a copy of the current calibration gas certification from the vendor of the calibration gas cylinder, the date of calibration, the concentration of calibration gas, the instrument reading of calibration gas before adjustment, the instrument reading of calibration gas after adjustment, the calibration gas expiration date, and the calibration gas cylinder pressure at the time of calibration. [District Rule 4409] Federally Enforceable Through Title V Permit

45. All measurements of gaseous leak concentrations shall be conducted according to EPA Method 21 using an appropriate portable hydrocarbon detection instrument calibrated with methane. The instrument shall be calibrated in accordance with the procedures specified in EPA Method 21 or the manufacturer's instructions not more than 30 days prior to its use. [District Rule 4409] Federally Enforceable Through Title V Permit

46. The VOC content by weight percent shall be determined using ASTM D-1945 for gases and South Coast Air Quality Management District (SCAQMD) Method 304-91 for liquids. [District Rule 4409] Federally Enforceable Through Title V Permit

47. The percent by volume liquid evaporated at 302 øF (150 øC) shall be determined using ASTM D-86. [District Rule 4409] Federally Enforceable Through Title V Permit

48. The TVP of any organic liquid shall be determined by measuring the Reid Vapor Pressure (RVP) using ASTM D-323, and converting the RVP to TVP at the maximum organic liquid storage temperature. The conversion of RVP to TVP shall be done in accordance with the procedures specified in Appendix A of District Rule 4409. [District Rule 4409] Federally Enforceable Through Title V Permit

49. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM D-287 or ASTM 1298. Sampling for API gravity shall be performed in accordance with ASTM D-4057. [District Rule 4409] Federally Enforceable Through Title V Permit

50. The control efficiency of any VOC control device, measured and calculated as carbon, shall be determined by EPA Method 25, except when the outlet concentration must be below 50 ppm in order to meet the standard, in which case EPA Method 25a may be used. EPA Method 18 may be used in lieu of EPA Method 25 or EPA Method 25a provided the identity and approximate concentrations of the analytes/compounds in the sample gas stream are known before analysis with the gas chromatograph and the gas chromatograph is calibrated for each of those known analyte/compound to ensure that the VOC concentrations are neither under- or over-reported. [District Rule 4409] Federally Enforceable Through Title V Permit

51. Halogenated exempt compounds shall be analyzed by EPA Method 18 or ARB Method 422. [District Rule 4409] Federally Enforceable Through Title V Permit

52. All records required by this permit shall be retained on-site for a minimum of five years and made available for District, ARB, and EPA inspection upon request. [District Rules 1070 and 2520 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-71-21-1 **EXPIRATION DATE:** 08/31/2016

SECTION: SW35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:
15,000 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #4

PERMIT UNIT REQUIREMENTS

1. Tank shall be maintained under working pressure sufficient at all times to prevent organic liquid loss or VOC loss to the atmosphere. [District Rule 4623]
2. The permittee shall not use any components that leak in excess of the applicable leak standards as specified in this permit. Components that have been found leaking in excess of the applicable leak standards of this rule may be used provided such leaking components have been identified with a tag for repair, are repaired, or are awaiting re-inspection after being repaired, within the applicable time period specified in this permit. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
3. For valves, threaded connections, flanges, pipes, pumps, compressors, and other components not specified in this permit; a major gas leak is a detection of > 10,000 ppmv as methane; a minor gas leak is a detection of 1,000 to 10,000 ppmv as methane when the component is in liquid service; a minor gas leak is a detection of 2,000 to 10,000 ppmv as methane when the component is in gas/vapor service. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
4. For pressure relief devices (PRDs); a major gas leak is a detection of > 10,000 ppmv as methane; a minor gas leak is a detection of 200 to 10,000 ppmv as methane when the component is in liquid service; a minor gas leak is a detection of 400 to 10,000 ppmv as methane when the component is in gas/vapor service. [District Rule 4409and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
5. Each hatch shall be closed at all times except during sampling or adding of process material through the hatch, or during attended repair, replacement, or maintenance operations, provided such activities are done as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere. [District Rule 4409] Federally Enforceable Through Title V Permit
6. Leaks detected during quarterly operator inspections shall not be counted towards determination of compliance with the provisions of Rule 4409 provided the leaking components are repaired as soon as practicable but not later than the time frame specified in this permit. Leaks detected during quarterly operator inspections that are not repaired, replaced, or removed from operation as soon as practicable but not later than the time frame specified in this rule shall be counted toward determination of compliance with the provisions of Rule 4409. [District Rule 4409] Federally Enforceable Through Title V Permit
7. Leaking components at this facility detected during annual operator inspections, as required by Rule 4409 for a specific component type, that exceed the leak standards specified in this permit, shall constitute a violation of this rule. This violation is regardless of whether or not the leaking components are repaired, replaced, or removed from operation within the allowable repair time frame specified in this permit. [District Rule 4409] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

8. An open-ended line, or a valve located at the end of the line, that is not sealed with either a blind flange, a plug, a cap, or a second closed valve that is not closed at all times, except during attended operations requiring process fluid flow through the open-ended line is a leak. Attended operations include draining or degassing operations, connection of temporary process equipment, sampling of process streams, emergency venting, and other normal operational needs, provided such operations are done as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

9. A leak from a component is when there is a major liquid leak from the component. A major liquid leak from a component is when a visible mist or a continuous flow of liquid, that is not seal lubricant, leaks from the component. [District Rule 4409] Federally Enforceable Through Title V Permit

10. A leak from a component is when gas emissions greater than 50,000 ppmv, as methane, leaks from the component. [District Rule 4409] Federally Enforceable Through Title V Permit

11. A minor liquid leak from a component is when more than three drops of liquid per minute, that is not seal lubricant and is not a major liquid leak, leaks from the component. [District Rule 4409] Federally Enforceable Through Title V Permit

12. When 200 or fewer valves are inspected, a leak from a valve is when more than one valve has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 valves are inspected, a leak from a valve is when more than 0.5 % (rounded up to the nearest whole number) of the valves have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409] Federally Enforceable Through Title V Permit

13. When 200 or fewer threaded connections are inspected, a leak from a threaded connection is when more than one threaded connection has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 threaded connections are inspected, a leak from a threaded connection is when more than 0.5 % (rounded up to the nearest whole number) of the threaded connections have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409] Federally Enforceable Through Title V Permit

14. When 200 or fewer flanges are inspected, a leak from a flange is when more than one flange has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 flanges are inspected, a leak from a flange is when more than 0.5 % (rounded up to the nearest whole number) of the flanges have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409] Federally Enforceable Through Title V Permit

15. When 200 or fewer pumps are inspected, a leak from a pump is when more than two pumps have a minor liquid leak, a minor gas leak, or a gas leak greater than 10,000 ppmv and less than or equal to 50,000 ppmv. When greater than 200 pumps are inspected, a leak from a pump is when more than 1.0 % (rounded up to the nearest whole number) of the pumps have a minor liquid leak, a minor gas leak, or a gas leak greater than 10,000 ppmv and less than or equal to 50,000 ppmv. [District Rule 4409] Federally Enforceable Through Title V Permit

16. When compressors, PRDs, or other components not specified in this permit are inspected, a leak from these components is when more than one component has a minor liquid leak, a minor gas leak, or a gas leak greater than 10,000 ppmv and less than or equal to 50,000 ppmv. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

17. When pipes at natural gas processing facilities are inspected, a leak from a pipe is when more than two have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

18. For manned facilities all accessible operating pumps, compressors, and PRDs, in service, shall be audio-visually inspected for leaks at least once every 24 hours except when operators do not report to the facility during a 24 hour period. [District Rule 4409] Federally Enforceable Through Title V Permit

19. For unmanned facilities all accessible operating pumps, compressors, and PRDs, in service, shall be audio-visually inspected for leaks at least once per calendar week. [District Rule 4409] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

20. All accessible operating pumps, compressors, and PRDs, in service, that are found to be leaking by audio-visual inspection shall be attempted to be repaired immediately. The leaking component shall then be tested within 24 hours and, if found leaking again, shall be repaired as soon as practicable but not later than the timeframe specified in this permit. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

21. Except for inaccessible components, unsafe-to-monitor components, or pipes, all components, in service, shall be tested for leaks at least once every calendar quarter. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

22. All new, replaced, or repaired fittings, flanges, and threaded connections shall be tested for leaks immediately after being placed into service. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

23. All inaccessible components shall be tested for leaks at least once every 12 months. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

24. All unsafe-to-monitor components shall be tested for leaks during each turnaround. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

25. All pipes shall be visually inspected for leaks at least once every 12 months. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

26. All pipes, in service, that are found to be leaking by visual inspection shall be attempted to be repaired immediately. The leaking pipe shall then be tested within 24 hours and, if found leaking again, shall be repaired as soon as practicable but not later than the timeframe specified in this permit. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

27. The annual pipe inspection required by either the Department of Oil, Gas, and Geothermal Resources (DOGGR) pursuant to California Code of Regulation Title 14, Division 2, Subchapter 2, Section 1774 (Oilfield Facilities and Equipment Maintenance), or by the Spill Prevention Control and Countermeasure Plan (SPCC) pursuant to 40 Code of Federal Regulation Part 112 (Oil Prevention and Response: Non- Transportation-Related Onshore and Offshore Facilities) can be used as the annual pipe inspection required by District Rule 4409. [District Rule 4409] Federally Enforceable Through Title V Permit

28. Except for pumps, compressors, and PRDs, the permittee may apply for written approval from the District to change the inspection frequency of accessible components from quarterly to annually for a specific component type provided the following two qualifying requirements are met. During the previous five consecutive quarterly inspections, for the specific component type, there shall be no more leaks than as allowed by this permit. The permittee also shall not have received a Notice of Violation (NOV) from the District during the previous 12 months for violating any provisions of District Rule 4409 for the specific component type. If these two qualifying requirements have not been met, then the inspection frequency shall revert back to quarterly. The written request shall include pertinent documentation to demonstrate that the operator has successfully met the two qualifying requirements. [District Rule 4409] Federally Enforceable Through Title V Permit

29. The permittee shall notify the District in writing within five calendar days after changing the inspection frequency for a specific component type. The written notification shall include the reason(s) and date of change to a quarterly inspection frequency. [District Rule 4409] Federally Enforceable Through Title V Permit

30. A PRD that releases to the atmosphere shall be inspected by the permittee for leaks as soon as practicable but not later than 24 hours after the time of the release. The permittee shall reinspect the PRD for leaks not earlier than 24 hours after the initial inspection but not later than 15 calendar days after the date of the initial release. If the PRD is found by the permittee to be leaking during either inspection, the PRD leak shall be treated as if the leak was found during the required quarterly operator inspections. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

31. Except for PRDs, a component shall be inspected for leaks not later than 15 calendar days after repairing the leak or replacing the component. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

32. District inspections shall not be counted as an operator inspection required by District Rule 4409. Any attempt by an operator to count such District inspections as part of the operator's mandatory inspections is considered a willful circumvention of the rule and is a violation of this rule. [District Rule 4409] Federally Enforceable Through Title V Permit

33. The operator, upon detection of a leaking component, shall affix to that component a weatherproof, readily visible tag, bearing the date and time when the leak was detected and the date and time of the leak measurement. For gaseous leaks, the tag shall indicate the leak concentration in ppmv. For liquid leaks, the tag shall indicate whether it is a major liquid leak or a minor liquid leak. The tag shall indicate, when applicable, whether the component is an essential component, an unsafe-to-monitor component, or a critical component. The tag shall remain in place until the leaking component is repaired or replaced and reinspected and found to be in compliance with the requirements of this rule. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

34. The operator shall minimize all component leaks immediately, to the extent possible, but not later than one hour after detection of the leak in order to stop or reduce leakage to the atmosphere. If the leak has been minimized but the leak still exceeds the applicable leak standards specified in this permit, the operator shall do one of the following within the timeframes specified within this permit: 1) repair or replace the leaking component; 2) vent the leaking component to a closed vent system; 3) or remove the leaking component from operation. A closed vent system is a District approved system that is not open to the atmosphere. It is composed of hard-piping, ductwork connections and, if necessary, flow inducing devices that transport gas or vapor from a piece or pieces of equipment to a District approved control device that has a overall VOC collection and destruction or removal efficiency of at least 95%, or that transports gases or vapors back to a process system. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

35. The operator shall repair minor gas leaks within seven days. The operator shall repair major gas leaks, which are > 10,000 ppmv but < or equal to 50,000 ppmv, within three days. The operator shall repair major gas leaks, which are > 50,000 ppmv, within two days. The operator shall repair minor liquid leaks within three days. The operator shall repair major liquid leaks within two days. The leak rate measured after leak minimization has been performed shall be the leak rate used to determine the applicable repair period. The start of the repair period shall be the time of the initial leak detection. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

36. For each calendar quarter, the operator may extend the repair period for a total number of leaking components, not to exceed 0.05 % of the number of components inspected, by type, rounded upward to the nearest whole number. The repair period for minor gas leaks can be extended by seven additional days. The repair period for major gas leaks, which are > 10,000 ppmv but < or equal to 50,000 ppmv, can be extended by two additional days. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

37. If a leaking component is an essential component or a critical component and which cannot be shut down immediately for repairs, the operator shall do the following: 1) minimize the leak within one hour after detection of the leak; 2) and if the leak has been minimized, but the leak still exceeds the applicable leak standards of Rule 4409 as specified in this permit, the essential component or critical component shall be repaired or replaced to eliminate the leak during the next process unit turnaround. The repair shall occur no later than one year from the date of the original leak detection. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

38. For any component that has incurred five repair actions for major gas leaks or major liquid leaks, or a combination of major gas leaks and major liquid leaks within a continuous 12-month period, the operator shall do one of the following four options. Options 1a through 1f require written notification to the District, option 2 requires written notification to the District and written District approval, options 3 and 4 do not require written notification to the District: 1a) For compressors replace the existing seal with either a dual mechanical seal, an oil film seal, a gas seal, or a face-type seal; 1b) for pumps replace the pump with a seal-less pump or replace the seal with a dual mechanical seal; 1c) for PRDs replace the PRD and install a rupture disc in the line which precedes the PRD such that the PRD is in series with and follows the rupture disc; 1d) for valves replace the valve with a sealed bellows valve, or for seal rings install graphite or Teflon chevron seal rings in a live-loaded packing gland; 1e) for threaded connections weld the connections or replace threaded connections with flanges; 1f) for sampling connections replace the sampling connection with a closed-loop sampling system; 2) Replace the component with Achieved-in-Practice Best Available Control Technology (BACT) equipment; 3) Vent the component to a District approved closed-vent system; 4) Remove the component from operation. For any component that is accessible, is not unsafe-to-monitor, is not an essential component, or is not a critical component, the operator shall comply with these requirements as soon as practicable but not later than twelve months after the date of detection of the fifth major leak within a continuous 12-month period. For any component that is inaccessible, is unsafe-to-monitor, is essential, or is a critical component, the operator shall comply with these requirements as soon as practicable but not later than the next turnaround or not later than two years after the date of detection of the fifth major leak within a continuous 12-month period, whichever comes first. [District Rule 4409] Federally Enforceable Through Title V Permit

39. All major components and critical components shall be physically identified clearly and visibly for inspection, repair, and recordkeeping purposes. The physical identification shall consist of labels, tags, manufacturer's nameplate identifier, serial number, or model number, or other system approved by the District that enables an operator or the District to locate each individual component. The operator shall replace physical identifications that become missing or unreadable as soon as practicable but not later than 24 hours after discovery. [District Rule 4409] Federally Enforceable Through Title V Permit

40. The operator shall keep a copy of the District approved Operator Management Plan (OMP) at the facility and make it available to the District, ARB, and EPA upon request. [District Rule 4409] Federally Enforceable Through Title V Permit

41. By January 30th of each year the operator shall submit to the District for approval, in writing, an annual report indicating any changes to the existing OMP on file at the District. [District Rule 4409] Federally Enforceable Through Title V Permit

42. The operator shall maintain an inspection log that has been signed and dated by the facility operator responsible for the inspection, certifying the accuracy of the information recorded in the log. The inspection log shall contain, at a minimum, all of the following information: 1) The total number of components inspected, and the total number and percentage of leaking components found by component types; 2) The location, type, name or description of each leaking component and the description of any unit where the leaking component is found; 3) Date of the leak detection and method of the leak detection; 4) For gaseous leaks, record the leak concentration in ppmv, and for liquid leaks record whether the leak is a major liquid leak or a minor liquid leak; 5) The date of repair, replacement, or removal from operation of the leaking component(s); 6) The identification and location of essential components and critical components found leaking that cannot be repaired until the next process unit turnaround or not later than one year after leak detection, whichever comes first; 7) The method(s) used to minimize the leak from essential components and critical components found leaking that cannot be repaired until the next process unit turnaround or not later than one year after leak detection, whichever comes earlier; 8) The date of re-inspection and the leak concentration in ppmv after the component is repaired or is replaced; 9) The inspector's name, business mailing address, and business telephone number. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

43. Records of leaks detected during quarterly or annual operator inspections, and each subsequent repair and re-inspection, shall be submitted to the District, ARB, and EPA upon request. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

44. Records shall be maintained of each calibration of the portable hydrocarbon detection instrument utilized for inspecting components. The records shall include a copy of the current calibration gas certification from the vendor of the calibration gas cylinder, the date of calibration, the concentration of calibration gas, the instrument reading of calibration gas before adjustment, the instrument reading of calibration gas after adjustment, the calibration gas expiration date, and the calibration gas cylinder pressure at the time of calibration. [District Rule 4409] Federally Enforceable Through Title V Permit

45. All measurements of gaseous leak concentrations shall be conducted according to EPA Method 21 using an appropriate portable hydrocarbon detection instrument calibrated with methane. The instrument shall be calibrated in accordance with the procedures specified in EPA Method 21 or the manufacturer's instructions not more than 30 days prior to its use. [District Rule 4409] Federally Enforceable Through Title V Permit

46. The VOC content by weight percent shall be determined using ASTM D-1945 for gases and South Coast Air Quality Management District (SCAQMD) Method 304-91 for liquids. [District Rule 4409] Federally Enforceable Through Title V Permit

47. The percent by volume liquid evaporated at 302 øF (150 øC) shall be determined using ASTM D-86. [District Rule 4409] Federally Enforceable Through Title V Permit

48. The TVP of any organic liquid shall be determined by measuring the Reid Vapor Pressure (RVP) using ASTM D-323, and converting the RVP to TVP at the maximum organic liquid storage temperature. The conversion of RVP to TVP shall be done in accordance with the procedures specified in Appendix A of District Rule 4409. [District Rule 4409] Federally Enforceable Through Title V Permit

49. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM D-287 or ASTM 1298. Sampling for API gravity shall be performed in accordance with ASTM D-4057. [District Rule 4409] Federally Enforceable Through Title V Permit

50. The control efficiency of any VOC control device, measured and calculated as carbon, shall be determined by EPA Method 25, except when the outlet concentration must be below 50 ppm in order to meet the standard, in which case EPA Method 25a may be used. EPA Method 18 may be used in lieu of EPA Method 25 or EPA Method 25a provided the identity and approximate concentrations of the analytes/compounds in the sample gas stream are known before analysis with the gas chromatograph and the gas chromatograph is calibrated for each of those known analyte/compound to ensure that the VOC concentrations are neither under- or over-reported. [District Rule 4409] Federally Enforceable Through Title V Permit

51. Halogenated exempt compounds shall be analyzed by EPA Method 18 or ARB Method 422. [District Rule 4409] Federally Enforceable Through Title V Permit

52. All records required by this permit shall be retained on-site for a minimum of five years and made available for District, ARB, and EPA inspection upon request. [District Rules 1070 and 2520 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-71-22-1 **EXPIRATION DATE:** 08/31/2016

SECTION: SW35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:
15,249 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #5

PERMIT UNIT REQUIREMENTS

1. Tank shall be maintained under working pressure sufficient at all times to prevent organic liquid loss or VOC loss to the atmosphere. [District Rule 4623]
2. The permittee shall not use any components that leak in excess of the applicable leak standards as specified in this permit. Components that have been found leaking in excess of the applicable leak standards of this rule may be used provided such leaking components have been identified with a tag for repair, are repaired, or are awaiting re-inspection after being repaired, within the applicable time period specified in this permit. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
3. For valves, threaded connections, flanges, pipes, pumps, compressors, and other components not specified in this permit; a major gas leak is a detection of > 10,000 ppmv as methane; a minor gas leak is a detection of 1,000 to 10,000 ppmv as methane when the component is in liquid service; a minor gas leak is a detection of 2,000 to 10,000 ppmv as methane when the component is in gas/vapor service. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
4. For pressure relief devices (PRDs); a major gas leak is a detection of > 10,000 ppmv as methane; a minor gas leak is a detection of 200 to 10,000 ppmv as methane when the component is in liquid service; a minor gas leak is a detection of 400 to 10,000 ppmv as methane when the component is in gas/vapor service. [District Rule 4409and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
5. Each hatch shall be closed at all times except during sampling or adding of process material through the hatch, or during attended repair, replacement, or maintenance operations, provided such activities are done as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere. [District Rule 4409] Federally Enforceable Through Title V Permit
6. Leaks detected during quarterly operator inspections shall not be counted towards determination of compliance with the provisions of Rule 4409 provided the leaking components are repaired as soon as practicable but not later than the time frame specified in this permit. Leaks detected during quarterly operator inspections that are not repaired, replaced, or removed from operation as soon as practicable but not later than the time frame specified in this rule shall be counted toward determination of compliance with the provisions of Rule 4409. [District Rule 4409] Federally Enforceable Through Title V Permit
7. Leaking components at this facility detected during annual operator inspections, as required by Rule 4409 for a specific component type, that exceed the leak standards specified in this permit, shall constitute a violation of this rule. This violation is regardless of whether or not the leaking components are repaired, replaced, or removed from operation within the allowable repair time frame specified in this permit. [District Rule 4409] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

8. An open-ended line, or a valve located at the end of the line, that is not sealed with either a blind flange, a plug, a cap, or a second closed valve that is not closed at all times, except during attended operations requiring process fluid flow through the open-ended line is a leak. Attended operations include draining or degassing operations, connection of temporary process equipment, sampling of process streams, emergency venting, and other normal operational needs, provided such operations are done as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
9. A leak from a component is when there is a major liquid leak from the component. A major liquid leak from a component is when a visible mist or a continuous flow of liquid, that is not seal lubricant, leaks from the component. [District Rule 4409] Federally Enforceable Through Title V Permit
10. A leak from a component is when gas emissions greater than 50,000 ppmv, as methane, leaks from the component. [District Rule 4409] Federally Enforceable Through Title V Permit
11. A minor liquid leak from a component is when more than three drops of liquid per minute, that is not seal lubricant and is not a major liquid leak, leaks from the component. [District Rule 4409] Federally Enforceable Through Title V Permit
12. When 200 or fewer valves are inspected, a leak from a valve is when more than one valve has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 valves are inspected, a leak from a valve is when more than 0.5 % (rounded up to the nearest whole number) of the valves have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409] Federally Enforceable Through Title V Permit
13. When 200 or fewer threaded connections are inspected, a leak from a threaded connection is when more than one threaded connection has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 threaded connections are inspected, a leak from a threaded connection is when more than 0.5 % (rounded up to the nearest whole number) of the threaded connections have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409] Federally Enforceable Through Title V Permit
14. When 200 or fewer flanges are inspected, a leak from a flange is when more than one flange has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 flanges are inspected, a leak from a flange is when more than 0.5 % (rounded up to the nearest whole number) of the flanges have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409] Federally Enforceable Through Title V Permit
15. When 200 or fewer pumps are inspected, a leak from a pump is when more than two pumps have a minor liquid leak, a minor gas leak, or a gas leak greater than 10,000 ppmv and less than or equal to 50,000 ppmv. When greater than 200 pumps are inspected, a leak from a pump is when more than 1.0 % (rounded up to the nearest whole number) of the pumps have a minor liquid leak, a minor gas leak, or a gas leak greater than 10,000 ppmv and less than or equal to 50,000 ppmv. [District Rule 4409] Federally Enforceable Through Title V Permit
16. When compressors, PRDs, or other components not specified in this permit are inspected, a leak from these components is when more than one component has a minor liquid leak, a minor gas leak, or a gas leak greater than 10,000 ppmv and less than or equal to 50,000 ppmv. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
17. When pipes at natural gas processing facilities are inspected, a leak from a pipe is when more than two have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
18. For manned facilities all accessible operating pumps, compressors, and PRDs, in service, shall be audio-visually inspected for leaks at least once every 24 hours except when operators do not report to the facility during a 24 hour period. [District Rule 4409] Federally Enforceable Through Title V Permit
19. For unmanned facilities all accessible operating pumps, compressors, and PRDs, in service, shall be audio-visually inspected for leaks at least once per calendar week. [District Rule 4409] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

20. All accessible operating pumps, compressors, and PRDs, in service, that are found to be leaking by audio-visual inspection shall be attempted to be repaired immediately. The leaking component shall then be tested within 24 hours and, if found leaking again, shall be repaired as soon as practicable but not later than the timeframe specified in this permit. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
21. Except for inaccessible components, unsafe-to-monitor components, or pipes, all components, in service, shall be tested for leaks at least once every calendar quarter. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
22. All new, replaced, or repaired fittings, flanges, and threaded connections shall be tested for leaks immediately after being placed into service. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
23. All inaccessible components shall be tested for leaks at least once every 12 months. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
24. All unsafe-to-monitor components shall be tested for leaks during each turnaround. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
25. All pipes shall be visually inspected for leaks at least once every 12 months. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
26. All pipes, in service, that are found to be leaking by visual inspection shall be attempted to be repaired immediately. The leaking pipe shall then be tested within 24 hours and, if found leaking again, shall be repaired as soon as practicable but not later than the timeframe specified in this permit. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
27. The annual pipe inspection required by either the Department of Oil, Gas, and Geothermal Resources (DOGGR) pursuant to California Code of Regulation Title 14, Division 2, Subchapter 2, Section 1774 (Oilfield Facilities and Equipment Maintenance), or by the Spill Prevention Control and Countermeasure Plan (SPCC) pursuant to 40 Code of Federal Regulation Part 112 (Oil Prevention and Response: Non- Transportation-Related Onshore and Offshore Facilities) can be used as the annual pipe inspection required by District Rule 4409. [District Rule 4409] Federally Enforceable Through Title V Permit
28. Except for pumps, compressors, and PRDs, the permittee may apply for written approval from the District to change the inspection frequency of accessible components from quarterly to annually for a specific component type provided the following two qualifying requirements are met. During the previous five consecutive quarterly inspections, for the specific component type, there shall be no more leaks than as allowed by this permit. The permittee also shall not have received a Notice of Violation (NOV) from the District during the previous 12 months for violating any provisions of District Rule 4409 for the specific component type. If these two qualifying requirements have not been met, then the inspection frequency shall revert back to quarterly. The written request shall include pertinent documentation to demonstrate that the operator has successfully met the two qualifying requirements. [District Rule 4409] Federally Enforceable Through Title V Permit
29. The permittee shall notify the District in writing within five calendar days after changing the inspection frequency for a specific component type. The written notification shall include the reason(s) and date of change to a quarterly inspection frequency. [District Rule 4409] Federally Enforceable Through Title V Permit
30. A PRD that releases to the atmosphere shall be inspected by the permittee for leaks as soon as practicable but not later than 24 hours after the time of the release. The permittee shall reinspect the PRD for leaks not earlier than 24 hours after the initial inspection but not later than 15 calendar days after the date of the initial release. If the PRD is found by the permittee to be leaking during either inspection, the PRD leak shall be treated as if the leak was found during the required quarterly operator inspections. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
31. Except for PRDs, a component shall be inspected for leaks not later than 15 calendar days after repairing the leak or replacing the component. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

32. District inspections shall not be counted as an operator inspection required by District Rule 4409. Any attempt by an operator to count such District inspections as part of the operator's mandatory inspections is considered a willful circumvention of the rule and is a violation of this rule. [District Rule 4409] Federally Enforceable Through Title V Permit

33. The operator, upon detection of a leaking component, shall affix to that component a weatherproof, readily visible tag, bearing the date and time when the leak was detected and the date and time of the leak measurement. For gaseous leaks, the tag shall indicate the leak concentration in ppmv. For liquid leaks, the tag shall indicate whether it is a major liquid leak or a minor liquid leak. The tag shall indicate, when applicable, whether the component is an essential component, an unsafe-to-monitor component, or a critical component. The tag shall remain in place until the leaking component is repaired or replaced and reinspected and found to be in compliance with the requirements of this rule. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

34. The operator shall minimize all component leaks immediately, to the extent possible, but not later than one hour after detection of the leak in order to stop or reduce leakage to the atmosphere. If the leak has been minimized but the leak still exceeds the applicable leak standards specified in this permit, the operator shall do one of the following within the timeframes specified within this permit: 1) repair or replace the leaking component; 2) vent the leaking component to a closed vent system; 3) or remove the leaking component from operation. A closed vent system is a District approved system that is not open to the atmosphere. It is composed of hard-piping, ductwork connections and, if necessary, flow inducing devices that transport gas or vapor from a piece or pieces of equipment to a District approved control device that has a overall VOC collection and destruction or removal efficiency of at least 95%, or that transports gases or vapors back to a process system. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

35. The operator shall repair minor gas leaks within seven days. The operator shall repair major gas leaks, which are > 10,000 ppmv but < or equal to 50,000 ppmv, within three days. The operator shall repair major gas leaks, which are > 50,000 ppmv, within two days. The operator shall repair minor liquid leaks within three days. The operator shall repair major liquid leaks within two days. The leak rate measured after leak minimization has been performed shall be the leak rate used to determine the applicable repair period. The start of the repair period shall be the time of the initial leak detection. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

36. For each calendar quarter, the operator may extend the repair period for a total number of leaking components, not to exceed 0.05 % of the number of components inspected, by type, rounded upward to the nearest whole number. The repair period for minor gas leaks can be extended by seven additional days. The repair period for major gas leaks, which are > 10,000 ppmv but < or equal to 50,000 ppmv, can be extended by two additional days. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

37. If a leaking component is an essential component or a critical component and which cannot be shut down immediately for repairs, the operator shall do the following: 1) minimize the leak within one hour after detection of the leak; 2) and if the leak has been minimized, but the leak still exceeds the applicable leak standards of Rule 4409 as specified in this permit, the essential component or critical component shall be repaired or replaced to eliminate the leak during the next process unit turnaround. The repair shall occur no later than one year from the date of the original leak detection. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

38. For any component that has incurred five repair actions for major gas leaks or major liquid leaks, or a combination of major gas leaks and major liquid leaks within a continuous 12-month period, the operator shall do one of the following four options. Options 1a through 1f require written notification to the District, option 2 requires written notification to the District and written District approval, options 3 and 4 do not require written notification to the District: 1a) For compressors replace the existing seal with either a dual mechanical seal, an oil film seal, a gas seal, or a face-type seal; 1b) for pumps replace the pump with a seal-less pump or replace the seal with a dual mechanical seal; 1c) for PRDs replace the PRD and install a rupture disc in the line which precedes the PRD such that the PRD is in series with and follows the rupture disc; 1d) for valves replace the valve with a sealed bellows valve, or for seal rings install graphite or Teflon chevron seal rings in a live-loaded packing gland; 1e) for threaded connections weld the connections or replace threaded connections with flanges; 1f) for sampling connections replace the sampling connection with a closed-loop sampling system; 2) Replace the component with Achieved-in-Practice Best Available Control Technology (BACT) equipment; 3) Vent the component to a District approved closed-vent system; 4) Remove the component from operation. For any component that is accessible, is not unsafe-to-monitor, is not an essential component, or is not a critical component, the operator shall comply with these requirements as soon as practicable but not later than twelve months after the date of detection of the fifth major leak within a continuous 12-month period. For any component that is inaccessible, is unsafe-to-monitor, is essential, or is a critical component, the operator shall comply with these requirements as soon as practicable but not later than the next turnaround or not later than two years after the date of detection of the fifth major leak within a continuous 12-month period, whichever comes first. [District Rule 4409] Federally Enforceable Through Title V Permit

39. All major components and critical components shall be physically identified clearly and visibly for inspection, repair, and recordkeeping purposes. The physical identification shall consist of labels, tags, manufacturer's nameplate identifier, serial number, or model number, or other system approved by the District that enables an operator or the District to locate each individual component. The operator shall replace physical identifications that become missing or unreadable as soon as practicable but not later than 24 hours after discovery. [District Rule 4409] Federally Enforceable Through Title V Permit

40. The operator shall keep a copy of the District approved Operator Management Plan (OMP) at the facility and make it available to the District, ARB, and EPA upon request. [District Rule 4409] Federally Enforceable Through Title V Permit

41. By January 30th of each year the operator shall submit to the District for approval, in writing, an annual report indicating any changes to the existing OMP on file at the District. [District Rule 4409] Federally Enforceable Through Title V Permit

42. The operator shall maintain an inspection log that has been signed and dated by the facility operator responsible for the inspection, certifying the accuracy of the information recorded in the log. The inspection log shall contain, at a minimum, all of the following information: 1) The total number of components inspected, and the total number and percentage of leaking components found by component types; 2) The location, type, name or description of each leaking component and the description of any unit where the leaking component is found; 3) Date of the leak detection and method of the leak detection; 4) For gaseous leaks, record the leak concentration in ppmv, and for liquid leaks record whether the leak is a major liquid leak or a minor liquid leak; 5) The date of repair, replacement, or removal from operation of the leaking component(s); 6) The identification and location of essential components and critical components found leaking that cannot be repaired until the next process unit turnaround or not later than one year after leak detection, whichever comes first; 7) The method(s) used to minimize the leak from essential components and critical components found leaking that cannot be repaired until the next process unit turnaround or not later than one year after leak detection, whichever comes earlier; 8) The date of re-inspection and the leak concentration in ppmv after the component is repaired or is replaced; 9) The inspector's name, business mailing address, and business telephone number. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

43. Records of leaks detected during quarterly or annual operator inspections, and each subsequent repair and re-inspection, shall be submitted to the District, ARB, and EPA upon request. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

44. Records shall be maintained of each calibration of the portable hydrocarbon detection instrument utilized for inspecting components. The records shall include a copy of the current calibration gas certification from the vendor of the calibration gas cylinder, the date of calibration, the concentration of calibration gas, the instrument reading of calibration gas before adjustment, the instrument reading of calibration gas after adjustment, the calibration gas expiration date, and the calibration gas cylinder pressure at the time of calibration. [District Rule 4409] Federally Enforceable Through Title V Permit

45. All measurements of gaseous leak concentrations shall be conducted according to EPA Method 21 using an appropriate portable hydrocarbon detection instrument calibrated with methane. The instrument shall be calibrated in accordance with the procedures specified in EPA Method 21 or the manufacturer's instructions not more than 30 days prior to its use. [District Rule 4409] Federally Enforceable Through Title V Permit

46. The VOC content by weight percent shall be determined using ASTM D-1945 for gases and South Coast Air Quality Management District (SCAQMD) Method 304-91 for liquids. [District Rule 4409] Federally Enforceable Through Title V Permit

47. The percent by volume liquid evaporated at 302 øF (150 øC) shall be determined using ASTM D-86. [District Rule 4409] Federally Enforceable Through Title V Permit

48. The TVP of any organic liquid shall be determined by measuring the Reid Vapor Pressure (RVP) using ASTM D-323, and converting the RVP to TVP at the maximum organic liquid storage temperature. The conversion of RVP to TVP shall be done in accordance with the procedures specified in Appendix A of District Rule 4409. [District Rule 4409] Federally Enforceable Through Title V Permit

49. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM D-287 or ASTM 1298. Sampling for API gravity shall be performed in accordance with ASTM D-4057. [District Rule 4409] Federally Enforceable Through Title V Permit

50. The control efficiency of any VOC control device, measured and calculated as carbon, shall be determined by EPA Method 25, except when the outlet concentration must be below 50 ppm in order to meet the standard, in which case EPA Method 25a may be used. EPA Method 18 may be used in lieu of EPA Method 25 or EPA Method 25a provided the identity and approximate concentrations of the analytes/compounds in the sample gas stream are known before analysis with the gas chromatograph and the gas chromatograph is calibrated for each of those known analyte/compound to ensure that the VOC concentrations are neither under- or over-reported. [District Rule 4409] Federally Enforceable Through Title V Permit

51. Halogenated exempt compounds shall be analyzed by EPA Method 18 or ARB Method 422. [District Rule 4409] Federally Enforceable Through Title V Permit

52. All records required by this permit shall be retained on-site for a minimum of five years and made available for District, ARB, and EPA inspection upon request. [District Rules 1070 and 2520 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-71-23-1 **EXPIRATION DATE:** 08/31/2016

SECTION: SW35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:
15,187 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #6

PERMIT UNIT REQUIREMENTS

1. Tank shall be maintained under working pressure sufficient at all times to prevent organic liquid loss or VOC loss to the atmosphere. [District Rule 4623]
2. The permittee shall not use any components that leak in excess of the applicable leak standards as specified in this permit. Components that have been found leaking in excess of the applicable leak standards of this rule may be used provided such leaking components have been identified with a tag for repair, are repaired, or are awaiting re-inspection after being repaired, within the applicable time period specified in this permit. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
3. For valves, threaded connections, flanges, pipes, pumps, compressors, and other components not specified in this permit; a major gas leak is a detection of > 10,000 ppmv as methane; a minor gas leak is a detection of 1,000 to 10,000 ppmv as methane when the component is in liquid service; a minor gas leak is a detection of 2,000 to 10,000 ppmv as methane when the component is in gas/vapor service. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
4. For pressure relief devices (PRDs); a major gas leak is a detection of > 10,000 ppmv as methane; a minor gas leak is a detection of 200 to 10,000 ppmv as methane when the component is in liquid service; a minor gas leak is a detection of 400 to 10,000 ppmv as methane when the component is in gas/vapor service. [District Rule 4409and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
5. Each hatch shall be closed at all times except during sampling or adding of process material through the hatch, or during attended repair, replacement, or maintenance operations, provided such activities are done as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere. [District Rule 4409] Federally Enforceable Through Title V Permit
6. Leaks detected during quarterly operator inspections shall not be counted towards determination of compliance with the provisions of Rule 4409 provided the leaking components are repaired as soon as practicable but not later than the time frame specified in this permit. Leaks detected during quarterly operator inspections that are not repaired, replaced, or removed from operation as soon as practicable but not later than the time frame specified in this rule shall be counted toward determination of compliance with the provisions of Rule 4409. [District Rule 4409] Federally Enforceable Through Title V Permit
7. Leaking components at this facility detected during annual operator inspections, as required by Rule 4409 for a specific component type, that exceed the leak standards specified in this permit, shall constitute a violation of this rule. This violation is regardless of whether or not the leaking components are repaired, replaced, or removed from operation within the allowable repair time frame specified in this permit. [District Rule 4409] Federally Enforceable Through Title V Permit

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8. An open-ended line, or a valve located at the end of the line, that is not sealed with either a blind flange, a plug, a cap, or a second closed valve that is not closed at all times, except during attended operations requiring process fluid flow through the open-ended line is a leak. Attended operations include draining or degassing operations, connection of temporary process equipment, sampling of process streams, emergency venting, and other normal operational needs, provided such operations are done as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
9. A leak from a component is when there is a major liquid leak from the component. A major liquid leak from a component is when a visible mist or a continuous flow of liquid, that is not seal lubricant, leaks from the component. [District Rule 4409] Federally Enforceable Through Title V Permit
10. A leak from a component is when gas emissions greater than 50,000 ppmv, as methane, leaks from the component. [District Rule 4409] Federally Enforceable Through Title V Permit
11. A minor liquid leak from a component is when more than three drops of liquid per minute, that is not seal lubricant and is not a major liquid leak, leaks from the component. [District Rule 4409] Federally Enforceable Through Title V Permit
12. When 200 or fewer valves are inspected, a leak from a valve is when more than one valve has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 valves are inspected, a leak from a valve is when more than 0.5 % (rounded up to the nearest whole number) of the valves have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409] Federally Enforceable Through Title V Permit
13. When 200 or fewer threaded connections are inspected, a leak from a threaded connection is when more than one threaded connection has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 threaded connections are inspected, a leak from a threaded connection is when more than 0.5 % (rounded up to the nearest whole number) of the threaded connections have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409] Federally Enforceable Through Title V Permit
14. When 200 or fewer flanges are inspected, a leak from a flange is when more than one flange has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 flanges are inspected, a leak from a flange is when more than 0.5 % (rounded up to the nearest whole number) of the flanges have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409] Federally Enforceable Through Title V Permit
15. When 200 or fewer pumps are inspected, a leak from a pump is when more than two pumps have a minor liquid leak, a minor gas leak, or a gas leak greater than 10,000 ppmv and less than or equal to 50,000 ppmv. When greater than 200 pumps are inspected, a leak from a pump is when more than 1.0 % (rounded up to the nearest whole number) of the pumps have a minor liquid leak, a minor gas leak, or a gas leak greater than 10,000 ppmv and less than or equal to 50,000 ppmv. [District Rule 4409] Federally Enforceable Through Title V Permit
16. When compressors, PRDs, or other components not specified in this permit are inspected, a leak from these components is when more than one component has a minor liquid leak, a minor gas leak, or a gas leak greater than 10,000 ppmv and less than or equal to 50,000 ppmv. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
17. When pipes at natural gas processing facilities are inspected, a leak from a pipe is when more than two have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
18. For manned facilities all accessible operating pumps, compressors, and PRDs, in service, shall be audio-visually inspected for leaks at least once every 24 hours except when operators do not report to the facility during a 24 hour period. [District Rule 4409] Federally Enforceable Through Title V Permit
19. For unmanned facilities all accessible operating pumps, compressors, and PRDs, in service, shall be audio-visually inspected for leaks at least once per calendar week. [District Rule 4409] Federally Enforceable Through Title V Permit

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20. All accessible operating pumps, compressors, and PRDs, in service, that are found to be leaking by audio-visual inspection shall be attempted to be repaired immediately. The leaking component shall then be tested within 24 hours and, if found leaking again, shall be repaired as soon as practicable but not later than the timeframe specified in this permit. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
21. Except for inaccessible components, unsafe-to-monitor components, or pipes, all components, in service, shall be tested for leaks at least once every calendar quarter. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
22. All new, replaced, or repaired fittings, flanges, and threaded connections shall be tested for leaks immediately after being placed into service. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
23. All inaccessible components shall be tested for leaks at least once every 12 months. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
24. All unsafe-to-monitor components shall be tested for leaks during each turnaround. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
25. All pipes shall be visually inspected for leaks at least once every 12 months. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
26. All pipes, in service, that are found to be leaking by visual inspection shall be attempted to be repaired immediately. The leaking pipe shall then be tested within 24 hours and, if found leaking again, shall be repaired as soon as practicable but not later than the timeframe specified in this permit. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
27. The annual pipe inspection required by either the Department of Oil, Gas, and Geothermal Resources (DOGGR) pursuant to California Code of Regulation Title 14, Division 2, Subchapter 2, Section 1774 (Oilfield Facilities and Equipment Maintenance), or by the Spill Prevention Control and Countermeasure Plan (SPCC) pursuant to 40 Code of Federal Regulation Part 112 (Oil Prevention and Response: Non- Transportation-Related Onshore and Offshore Facilities) can be used as the annual pipe inspection required by District Rule 4409. [District Rule 4409] Federally Enforceable Through Title V Permit
28. Except for pumps, compressors, and PRDs, the permittee may apply for written approval from the District to change the inspection frequency of accessible components from quarterly to annually for a specific component type provided the following two qualifying requirements are met. During the previous five consecutive quarterly inspections, for the specific component type, there shall be no more leaks than as allowed by this permit. The permittee also shall not have received a Notice of Violation (NOV) from the District during the previous 12 months for violating any provisions of District Rule 4409 for the specific component type. If these two qualifying requirements have not been met, then the inspection frequency shall revert back to quarterly. The written request shall include pertinent documentation to demonstrate that the operator has successfully met the two qualifying requirements. [District Rule 4409] Federally Enforceable Through Title V Permit
29. The permittee shall notify the District in writing within five calendar days after changing the inspection frequency for a specific component type. The written notification shall include the reason(s) and date of change to a quarterly inspection frequency. [District Rule 4409] Federally Enforceable Through Title V Permit
30. A PRD that releases to the atmosphere shall be inspected by the permittee for leaks as soon as practicable but not later than 24 hours after the time of the release. The permittee shall reinspect the PRD for leaks not earlier than 24 hours after the initial inspection but not later than 15 calendar days after the date of the initial release. If the PRD is found by the permittee to be leaking during either inspection, the PRD leak shall be treated as if the leak was found during the required quarterly operator inspections. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
31. Except for PRDs, a component shall be inspected for leaks not later than 15 calendar days after repairing the leak or replacing the component. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

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32. District inspections shall not be counted as an operator inspection required by District Rule 4409. Any attempt by an operator to count such District inspections as part of the operator's mandatory inspections is considered a willful circumvention of the rule and is a violation of this rule. [District Rule 4409] Federally Enforceable Through Title V Permit

33. The operator, upon detection of a leaking component, shall affix to that component a weatherproof, readily visible tag, bearing the date and time when the leak was detected and the date and time of the leak measurement. For gaseous leaks, the tag shall indicate the leak concentration in ppmv. For liquid leaks, the tag shall indicate whether it is a major liquid leak or a minor liquid leak. The tag shall indicate, when applicable, whether the component is an essential component, an unsafe-to-monitor component, or a critical component. The tag shall remain in place until the leaking component is repaired or replaced and reinspected and found to be in compliance with the requirements of this rule. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

34. The operator shall minimize all component leaks immediately, to the extent possible, but not later than one hour after detection of the leak in order to stop or reduce leakage to the atmosphere. If the leak has been minimized but the leak still exceeds the applicable leak standards specified in this permit, the operator shall do one of the following within the timeframes specified within this permit: 1) repair or replace the leaking component; 2) vent the leaking component to a closed vent system; 3) or remove the leaking component from operation. A closed vent system is a District approved system that is not open to the atmosphere. It is composed of hard-piping, ductwork connections and, if necessary, flow inducing devices that transport gas or vapor from a piece or pieces of equipment to a District approved control device that has a overall VOC collection and destruction or removal efficiency of at least 95%, or that transports gases or vapors back to a process system. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

35. The operator shall repair minor gas leaks within seven days. The operator shall repair major gas leaks, which are > 10,000 ppmv but < or equal to 50,000 ppmv, within three days. The operator shall repair major gas leaks, which are > 50,000 ppmv, within two days. The operator shall repair minor liquid leaks within three days. The operator shall repair major liquid leaks within two days. The leak rate measured after leak minimization has been performed shall be the leak rate used to determine the applicable repair period. The start of the repair period shall be the time of the initial leak detection. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

36. For each calendar quarter, the operator may extend the repair period for a total number of leaking components, not to exceed 0.05 % of the number of components inspected, by type, rounded upward to the nearest whole number. The repair period for minor gas leaks can be extended by seven additional days. The repair period for major gas leaks, which are > 10,000 ppmv but < or equal to 50,000 ppmv, can be extended by two additional days. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

37. If a leaking component is an essential component or a critical component and which cannot be shut down immediately for repairs, the operator shall do the following: 1) minimize the leak within one hour after detection of the leak; 2) and if the leak has been minimized, but the leak still exceeds the applicable leak standards of Rule 4409 as specified in this permit, the essential component or critical component shall be repaired or replaced to eliminate the leak during the next process unit turnaround. The repair shall occur no later than one year from the date of the original leak detection. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

38. For any component that has incurred five repair actions for major gas leaks or major liquid leaks, or a combination of major gas leaks and major liquid leaks within a continuous 12-month period, the operator shall do one of the following four options. Options 1a through 1f require written notification to the District, option 2 requires written notification to the District and written District approval, options 3 and 4 do not require written notification to the District: 1a) For compressors replace the existing seal with either a dual mechanical seal, an oil film seal, a gas seal, or a face-type seal; 1b) for pumps replace the pump with a seal-less pump or replace the seal with a dual mechanical seal; 1c) for PRDs replace the PRD and install a rupture disc in the line which precedes the PRD such that the PRD is in series with and follows the rupture disc; 1d) for valves replace the valve with a sealed bellows valve, or for seal rings install graphite or Teflon chevron seal rings in a live-loaded packing gland; 1e) for threaded connections weld the connections or replace threaded connections with flanges; 1f) for sampling connections replace the sampling connection with a closed-loop sampling system; 2) Replace the component with Achieved-in-Practice Best Available Control Technology (BACT) equipment; 3) Vent the component to a District approved closed-vent system; 4) Remove the component from operation. For any component that is accessible, is not unsafe-to-monitor, is not an essential component, or is not a critical component, the operator shall comply with these requirements as soon as practicable but not later than twelve months after the date of detection of the fifth major leak within a continuous 12-month period. For any component that is inaccessible, is unsafe-to-monitor, is essential, or is a critical component, the operator shall comply with these requirements as soon as practicable but not later than the next turnaround or not later than two years after the date of detection of the fifth major leak within a continuous 12-month period, whichever comes first. [District Rule 4409] Federally Enforceable Through Title V Permit

39. All major components and critical components shall be physically identified clearly and visibly for inspection, repair, and recordkeeping purposes. The physical identification shall consist of labels, tags, manufacturer's nameplate identifier, serial number, or model number, or other system approved by the District that enables an operator or the District to locate each individual component. The operator shall replace physical identifications that become missing or unreadable as soon as practicable but not later than 24 hours after discovery. [District Rule 4409] Federally Enforceable Through Title V Permit

40. The operator shall keep a copy of the District approved Operator Management Plan (OMP) at the facility and make it available to the District, ARB, and EPA upon request. [District Rule 4409] Federally Enforceable Through Title V Permit

41. By January 30th of each year the operator shall submit to the District for approval, in writing, an annual report indicating any changes to the existing OMP on file at the District. [District Rule 4409] Federally Enforceable Through Title V Permit

42. The operator shall maintain an inspection log that has been signed and dated by the facility operator responsible for the inspection, certifying the accuracy of the information recorded in the log. The inspection log shall contain, at a minimum, all of the following information: 1) The total number of components inspected, and the total number and percentage of leaking components found by component types; 2) The location, type, name or description of each leaking component and the description of any unit where the leaking component is found; 3) Date of the leak detection and method of the leak detection; 4) For gaseous leaks, record the leak concentration in ppmv, and for liquid leaks record whether the leak is a major liquid leak or a minor liquid leak; 5) The date of repair, replacement, or removal from operation of the leaking component(s); 6) The identification and location of essential components and critical components found leaking that cannot be repaired until the next process unit turnaround or not later than one year after leak detection, whichever comes first; 7) The method(s) used to minimize the leak from essential components and critical components found leaking that cannot be repaired until the next process unit turnaround or not later than one year after leak detection, whichever comes earlier; 8) The date of re-inspection and the leak concentration in ppmv after the component is repaired or is replaced; 9) The inspector's name, business mailing address, and business telephone number. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

43. Records of leaks detected during quarterly or annual operator inspections, and each subsequent repair and re-inspection, shall be submitted to the District, ARB, and EPA upon request. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

44. Records shall be maintained of each calibration of the portable hydrocarbon detection instrument utilized for inspecting components. The records shall include a copy of the current calibration gas certification from the vendor of the calibration gas cylinder, the date of calibration, the concentration of calibration gas, the instrument reading of calibration gas before adjustment, the instrument reading of calibration gas after adjustment, the calibration gas expiration date, and the calibration gas cylinder pressure at the time of calibration. [District Rule 4409] Federally Enforceable Through Title V Permit

45. All measurements of gaseous leak concentrations shall be conducted according to EPA Method 21 using an appropriate portable hydrocarbon detection instrument calibrated with methane. The instrument shall be calibrated in accordance with the procedures specified in EPA Method 21 or the manufacturer's instructions not more than 30 days prior to its use. [District Rule 4409] Federally Enforceable Through Title V Permit

46. The VOC content by weight percent shall be determined using ASTM D-1945 for gases and South Coast Air Quality Management District (SCAQMD) Method 304-91 for liquids. [District Rule 4409] Federally Enforceable Through Title V Permit

47. The percent by volume liquid evaporated at 302 øF (150 øC) shall be determined using ASTM D-86. [District Rule 4409] Federally Enforceable Through Title V Permit

48. The TVP of any organic liquid shall be determined by measuring the Reid Vapor Pressure (RVP) using ASTM D-323, and converting the RVP to TVP at the maximum organic liquid storage temperature. The conversion of RVP to TVP shall be done in accordance with the procedures specified in Appendix A of District Rule 4409. [District Rule 4409] Federally Enforceable Through Title V Permit

49. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM D-287 or ASTM 1298. Sampling for API gravity shall be performed in accordance with ASTM D-4057. [District Rule 4409] Federally Enforceable Through Title V Permit

50. The control efficiency of any VOC control device, measured and calculated as carbon, shall be determined by EPA Method 25, except when the outlet concentration must be below 50 ppm in order to meet the standard, in which case EPA Method 25a may be used. EPA Method 18 may be used in lieu of EPA Method 25 or EPA Method 25a provided the identity and approximate concentrations of the analytes/compounds in the sample gas stream are known before analysis with the gas chromatograph and the gas chromatograph is calibrated for each of those known analyte/compound to ensure that the VOC concentrations are neither under- or over-reported. [District Rule 4409] Federally Enforceable Through Title V Permit

51. Halogenated exempt compounds shall be analyzed by EPA Method 18 or ARB Method 422. [District Rule 4409] Federally Enforceable Through Title V Permit

52. All records required by this permit shall be retained on-site for a minimum of five years and made available for District, ARB, and EPA inspection upon request. [District Rules 1070 and 2520 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-71-24-1 **EXPIRATION DATE:** 08/31/2016

SECTION: SW35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:
98,913 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #64

PERMIT UNIT REQUIREMENTS

1. Tank shall be maintained under working pressure sufficient at all times to prevent organic liquid loss or VOC loss to the atmosphere. [District Rule 4623]
2. The permittee shall not use any components that leak in excess of the applicable leak standards as specified in this permit. Components that have been found leaking in excess of the applicable leak standards of this rule may be used provided such leaking components have been identified with a tag for repair, are repaired, or are awaiting re-inspection after being repaired, within the applicable time period specified in this permit. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
3. For valves, threaded connections, flanges, pipes, pumps, compressors, and other components not specified in this permit; a major gas leak is a detection of > 10,000 ppmv as methane; a minor gas leak is a detection of 1,000 to 10,000 ppmv as methane when the component is in liquid service; a minor gas leak is a detection of 2,000 to 10,000 ppmv as methane when the component is in gas/vapor service. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
4. For pressure relief devices (PRDs); a major gas leak is a detection of > 10,000 ppmv as methane; a minor gas leak is a detection of 200 to 10,000 ppmv as methane when the component is in liquid service; a minor gas leak is a detection of 400 to 10,000 ppmv as methane when the component is in gas/vapor service. [District Rule 4409and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
5. Each hatch shall be closed at all times except during sampling or adding of process material through the hatch, or during attended repair, replacement, or maintenance operations, provided such activities are done as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere. [District Rule 4409] Federally Enforceable Through Title V Permit
6. Leaks detected during quarterly operator inspections shall not be counted towards determination of compliance with the provisions of Rule 4409 provided the leaking components are repaired as soon as practicable but not later than the time frame specified in this permit. Leaks detected during quarterly operator inspections that are not repaired, replaced, or removed from operation as soon as practicable but not later than the time frame specified in this rule shall be counted toward determination of compliance with the provisions of Rule 4409. [District Rule 4409] Federally Enforceable Through Title V Permit
7. Leaking components at this facility detected during annual operator inspections, as required by Rule 4409 for a specific component type, that exceed the leak standards specified in this permit, shall constitute a violation of this rule. This violation is regardless of whether or not the leaking components are repaired, replaced, or removed from operation within the allowable repair time frame specified in this permit. [District Rule 4409] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

8. An open-ended line, or a valve located at the end of the line, that is not sealed with either a blind flange, a plug, a cap, or a second closed valve that is not closed at all times, except during attended operations requiring process fluid flow through the open-ended line is a leak. Attended operations include draining or degassing operations, connection of temporary process equipment, sampling of process streams, emergency venting, and other normal operational needs, provided such operations are done as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
9. A leak from a component is when there is a major liquid leak from the component. A major liquid leak from a component is when a visible mist or a continuous flow of liquid, that is not seal lubricant, leaks from the component. [District Rule 4409] Federally Enforceable Through Title V Permit
10. A leak from a component is when gas emissions greater than 50,000 ppmv, as methane, leaks from the component. [District Rule 4409] Federally Enforceable Through Title V Permit
11. A minor liquid leak from a component is when more than three drops of liquid per minute, that is not seal lubricant and is not a major liquid leak, leaks from the component. [District Rule 4409] Federally Enforceable Through Title V Permit
12. When 200 or fewer valves are inspected, a leak from a valve is when more than one valve has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 valves are inspected, a leak from a valve is when more than 0.5 % (rounded up to the nearest whole number) of the valves have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409] Federally Enforceable Through Title V Permit
13. When 200 or fewer threaded connections are inspected, a leak from a threaded connection is when more than one threaded connection has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 threaded connections are inspected, a leak from a threaded connection is when more than 0.5 % (rounded up to the nearest whole number) of the threaded connections have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409] Federally Enforceable Through Title V Permit
14. When 200 or fewer flanges are inspected, a leak from a flange is when more than one flange has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 flanges are inspected, a leak from a flange is when more than 0.5 % (rounded up to the nearest whole number) of the flanges have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409] Federally Enforceable Through Title V Permit
15. When 200 or fewer pumps are inspected, a leak from a pump is when more than two pumps have a minor liquid leak, a minor gas leak, or a gas leak greater than 10,000 ppmv and less than or equal to 50,000 ppmv. When greater than 200 pumps are inspected, a leak from a pump is when more than 1.0 % (rounded up to the nearest whole number) of the pumps have a minor liquid leak, a minor gas leak, or a gas leak greater than 10,000 ppmv and less than or equal to 50,000 ppmv. [District Rule 4409] Federally Enforceable Through Title V Permit
16. When compressors, PRDs, or other components not specified in this permit are inspected, a leak from these components is when more than one component has a minor liquid leak, a minor gas leak, or a gas leak greater than 10,000 ppmv and less than or equal to 50,000 ppmv. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
17. When pipes at natural gas processing facilities are inspected, a leak from a pipe is when more than two have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
18. For manned facilities all accessible operating pumps, compressors, and PRDs, in service, shall be audio-visually inspected for leaks at least once every 24 hours except when operators do not report to the facility during a 24 hour period. [District Rule 4409] Federally Enforceable Through Title V Permit
19. For unmanned facilities all accessible operating pumps, compressors, and PRDs, in service, shall be audio-visually inspected for leaks at least once per calendar week. [District Rule 4409] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

20. All accessible operating pumps, compressors, and PRDs, in service, that are found to be leaking by audio-visual inspection shall be attempted to be repaired immediately. The leaking component shall then be tested within 24 hours and, if found leaking again, shall be repaired as soon as practicable but not later than the timeframe specified in this permit. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
21. Except for inaccessible components, unsafe-to-monitor components, or pipes, all components, in service, shall be tested for leaks at least once every calendar quarter. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
22. All new, replaced, or repaired fittings, flanges, and threaded connections shall be tested for leaks immediately after being placed into service. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
23. All inaccessible components shall be tested for leaks at least once every 12 months. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
24. All unsafe-to-monitor components shall be tested for leaks during each turnaround. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
25. All pipes shall be visually inspected for leaks at least once every 12 months. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
26. All pipes, in service, that are found to be leaking by visual inspection shall be attempted to be repaired immediately. The leaking pipe shall then be tested within 24 hours and, if found leaking again, shall be repaired as soon as practicable but not later than the timeframe specified in this permit. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
27. The annual pipe inspection required by either the Department of Oil, Gas, and Geothermal Resources (DOGGR) pursuant to California Code of Regulation Title 14, Division 2, Subchapter 2, Section 1774 (Oilfield Facilities and Equipment Maintenance), or by the Spill Prevention Control and Countermeasure Plan (SPCC) pursuant to 40 Code of Federal Regulation Part 112 (Oil Prevention and Response: Non- Transportation-Related Onshore and Offshore Facilities) can be used as the annual pipe inspection required by District Rule 4409. [District Rule 4409] Federally Enforceable Through Title V Permit
28. Except for pumps, compressors, and PRDs, the permittee may apply for written approval from the District to change the inspection frequency of accessible components from quarterly to annually for a specific component type provided the following two qualifying requirements are met. During the previous five consecutive quarterly inspections, for the specific component type, there shall be no more leaks than as allowed by this permit. The permittee also shall not have received a Notice of Violation (NOV) from the District during the previous 12 months for violating any provisions of District Rule 4409 for the specific component type. If these two qualifying requirements have not been met, then the inspection frequency shall revert back to quarterly. The written request shall include pertinent documentation to demonstrate that the operator has successfully met the two qualifying requirements. [District Rule 4409] Federally Enforceable Through Title V Permit
29. The permittee shall notify the District in writing within five calendar days after changing the inspection frequency for a specific component type. The written notification shall include the reason(s) and date of change to a quarterly inspection frequency. [District Rule 4409] Federally Enforceable Through Title V Permit
30. A PRD that releases to the atmosphere shall be inspected by the permittee for leaks as soon as practicable but not later than 24 hours after the time of the release. The permittee shall reinspect the PRD for leaks not earlier than 24 hours after the initial inspection but not later than 15 calendar days after the date of the initial release. If the PRD is found by the permittee to be leaking during either inspection, the PRD leak shall be treated as if the leak was found during the required quarterly operator inspections. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
31. Except for PRDs, a component shall be inspected for leaks not later than 15 calendar days after repairing the leak or replacing the component. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

32. District inspections shall not be counted as an operator inspection required by District Rule 4409. Any attempt by an operator to count such District inspections as part of the operator's mandatory inspections is considered a willful circumvention of the rule and is a violation of this rule. [District Rule 4409] Federally Enforceable Through Title V Permit

33. The operator, upon detection of a leaking component, shall affix to that component a weatherproof, readily visible tag, bearing the date and time when the leak was detected and the date and time of the leak measurement. For gaseous leaks, the tag shall indicate the leak concentration in ppmv. For liquid leaks, the tag shall indicate whether it is a major liquid leak or a minor liquid leak. The tag shall indicate, when applicable, whether the component is an essential component, an unsafe-to-monitor component, or a critical component. The tag shall remain in place until the leaking component is repaired or replaced and reinspected and found to be in compliance with the requirements of this rule. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

34. The operator shall minimize all component leaks immediately, to the extent possible, but not later than one hour after detection of the leak in order to stop or reduce leakage to the atmosphere. If the leak has been minimized but the leak still exceeds the applicable leak standards specified in this permit, the operator shall do one of the following within the timeframes specified within this permit: 1) repair or replace the leaking component; 2) vent the leaking component to a closed vent system; 3) or remove the leaking component from operation. A closed vent system is a District approved system that is not open to the atmosphere. It is composed of hard-piping, ductwork connections and, if necessary, flow inducing devices that transport gas or vapor from a piece or pieces of equipment to a District approved control device that has a overall VOC collection and destruction or removal efficiency of at least 95%, or that transports gases or vapors back to a process system. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

35. The operator shall repair minor gas leaks within seven days. The operator shall repair major gas leaks, which are > 10,000 ppmv but < or equal to 50,000 ppmv, within three days. The operator shall repair major gas leaks, which are > 50,000 ppmv, within two days. The operator shall repair minor liquid leaks within three days. The operator shall repair major liquid leaks within two days. The leak rate measured after leak minimization has been performed shall be the leak rate used to determine the applicable repair period. The start of the repair period shall be the time of the initial leak detection. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

36. For each calendar quarter, the operator may extend the repair period for a total number of leaking components, not to exceed 0.05 % of the number of components inspected, by type, rounded upward to the nearest whole number. The repair period for minor gas leaks can be extended by seven additional days. The repair period for major gas leaks, which are > 10,000 ppmv but < or equal to 50,000 ppmv, can be extended by two additional days. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

37. If a leaking component is an essential component or a critical component and which cannot be shut down immediately for repairs, the operator shall do the following: 1) minimize the leak within one hour after detection of the leak; 2) and if the leak has been minimized, but the leak still exceeds the applicable leak standards of Rule 4409 as specified in this permit, the essential component or critical component shall be repaired or replaced to eliminate the leak during the next process unit turnaround. The repair shall occur no later than one year from the date of the original leak detection. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

38. For any component that has incurred five repair actions for major gas leaks or major liquid leaks, or a combination of major gas leaks and major liquid leaks within a continuous 12-month period, the operator shall do one of the following four options. Options 1a through 1f require written notification to the District, option 2 requires written notification to the District and written District approval, options 3 and 4 do not require written notification to the District: 1a) For compressors replace the existing seal with either a dual mechanical seal, an oil film seal, a gas seal, or a face-type seal; 1b) for pumps replace the pump with a seal-less pump or replace the seal with a dual mechanical seal; 1c) for PRDs replace the PRD and install a rupture disc in the line which precedes the PRD such that the PRD is in series with and follows the rupture disc; 1d) for valves replace the valve with a sealed bellows valve, or for seal rings install graphite or Teflon chevron seal rings in a live-loaded packing gland; 1e) for threaded connections weld the connections or replace threaded connections with flanges; 1f) for sampling connections replace the sampling connection with a closed-loop sampling system; 2) Replace the component with Achieved-in-Practice Best Available Control Technology (BACT) equipment; 3) Vent the component to a District approved closed-vent system; 4) Remove the component from operation. For any component that is accessible, is not unsafe-to-monitor, is not an essential component, or is not a critical component, the operator shall comply with these requirements as soon as practicable but not later than twelve months after the date of detection of the fifth major leak within a continuous 12-month period. For any component that is inaccessible, is unsafe-to-monitor, is essential, or is a critical component, the operator shall comply with these requirements as soon as practicable but not later than the next turnaround or not later than two years after the date of detection of the fifth major leak within a continuous 12-month period, whichever comes first. [District Rule 4409] Federally Enforceable Through Title V Permit

39. All major components and critical components shall be physically identified clearly and visibly for inspection, repair, and recordkeeping purposes. The physical identification shall consist of labels, tags, manufacturer's nameplate identifier, serial number, or model number, or other system approved by the District that enables an operator or the District to locate each individual component. The operator shall replace physical identifications that become missing or unreadable as soon as practicable but not later than 24 hours after discovery. [District Rule 4409] Federally Enforceable Through Title V Permit

40. The operator shall keep a copy of the District approved Operator Management Plan (OMP) at the facility and make it available to the District, ARB, and EPA upon request. [District Rule 4409] Federally Enforceable Through Title V Permit

41. By January 30th of each year the operator shall submit to the District for approval, in writing, an annual report indicating any changes to the existing OMP on file at the District. [District Rule 4409] Federally Enforceable Through Title V Permit

42. The operator shall maintain an inspection log that has been signed and dated by the facility operator responsible for the inspection, certifying the accuracy of the information recorded in the log. The inspection log shall contain, at a minimum, all of the following information: 1) The total number of components inspected, and the total number and percentage of leaking components found by component types; 2) The location, type, name or description of each leaking component and the description of any unit where the leaking component is found; 3) Date of the leak detection and method of the leak detection; 4) For gaseous leaks, record the leak concentration in ppmv, and for liquid leaks record whether the leak is a major liquid leak or a minor liquid leak; 5) The date of repair, replacement, or removal from operation of the leaking component(s); 6) The identification and location of essential components and critical components found leaking that cannot be repaired until the next process unit turnaround or not later than one year after leak detection, whichever comes first; 7) The method(s) used to minimize the leak from essential components and critical components found leaking that cannot be repaired until the next process unit turnaround or not later than one year after leak detection, whichever comes earlier; 8) The date of re-inspection and the leak concentration in ppmv after the component is repaired or is replaced; 9) The inspector's name, business mailing address, and business telephone number. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

43. Records of leaks detected during quarterly or annual operator inspections, and each subsequent repair and re-inspection, shall be submitted to the District, ARB, and EPA upon request. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

44. Records shall be maintained of each calibration of the portable hydrocarbon detection instrument utilized for inspecting components. The records shall include a copy of the current calibration gas certification from the vendor of the calibration gas cylinder, the date of calibration, the concentration of calibration gas, the instrument reading of calibration gas before adjustment, the instrument reading of calibration gas after adjustment, the calibration gas expiration date, and the calibration gas cylinder pressure at the time of calibration. [District Rule 4409] Federally Enforceable Through Title V Permit

45. All measurements of gaseous leak concentrations shall be conducted according to EPA Method 21 using an appropriate portable hydrocarbon detection instrument calibrated with methane. The instrument shall be calibrated in accordance with the procedures specified in EPA Method 21 or the manufacturer's instructions not more than 30 days prior to its use. [District Rule 4409] Federally Enforceable Through Title V Permit

46. The VOC content by weight percent shall be determined using ASTM D-1945 for gases and South Coast Air Quality Management District (SCAQMD) Method 304-91 for liquids. [District Rule 4409] Federally Enforceable Through Title V Permit

47. The percent by volume liquid evaporated at 302 øF (150 øC) shall be determined using ASTM D-86. [District Rule 4409] Federally Enforceable Through Title V Permit

48. The TVP of any organic liquid shall be determined by measuring the Reid Vapor Pressure (RVP) using ASTM D-323, and converting the RVP to TVP at the maximum organic liquid storage temperature. The conversion of RVP to TVP shall be done in accordance with the procedures specified in Appendix A of District Rule 4409. [District Rule 4409] Federally Enforceable Through Title V Permit

49. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM D-287 or ASTM 1298. Sampling for API gravity shall be performed in accordance with ASTM D-4057. [District Rule 4409] Federally Enforceable Through Title V Permit

50. The control efficiency of any VOC control device, measured and calculated as carbon, shall be determined by EPA Method 25, except when the outlet concentration must be below 50 ppm in order to meet the standard, in which case EPA Method 25a may be used. EPA Method 18 may be used in lieu of EPA Method 25 or EPA Method 25a provided the identity and approximate concentrations of the analytes/compounds in the sample gas stream are known before analysis with the gas chromatograph and the gas chromatograph is calibrated for each of those known analyte/compound to ensure that the VOC concentrations are neither under- or over-reported. [District Rule 4409] Federally Enforceable Through Title V Permit

51. Halogenated exempt compounds shall be analyzed by EPA Method 18 or ARB Method 422. [District Rule 4409] Federally Enforceable Through Title V Permit

52. All records required by this permit shall be retained on-site for a minimum of five years and made available for District, ARB, and EPA inspection upon request. [District Rules 1070 and 2520 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-71-25-1 **EXPIRATION DATE:** 08/31/2016

SECTION: SW35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:
98,913 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #65

PERMIT UNIT REQUIREMENTS

1. Tank shall be maintained under working pressure sufficient at all times to prevent organic liquid loss or VOC loss to the atmosphere. [District Rule 4623]
2. The permittee shall not use any components that leak in excess of the applicable leak standards as specified in this permit. Components that have been found leaking in excess of the applicable leak standards of this rule may be used provided such leaking components have been identified with a tag for repair, are repaired, or are awaiting re-inspection after being repaired, within the applicable time period specified in this permit. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
3. For valves, threaded connections, flanges, pipes, pumps, compressors, and other components not specified in this permit; a major gas leak is a detection of > 10,000 ppmv as methane; a minor gas leak is a detection of 1,000 to 10,000 ppmv as methane when the component is in liquid service; a minor gas leak is a detection of 2,000 to 10,000 ppmv as methane when the component is in gas/vapor service. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
4. For pressure relief devices (PRDs); a major gas leak is a detection of > 10,000 ppmv as methane; a minor gas leak is a detection of 200 to 10,000 ppmv as methane when the component is in liquid service; a minor gas leak is a detection of 400 to 10,000 ppmv as methane when the component is in gas/vapor service. [District Rule 4409and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
5. Each hatch shall be closed at all times except during sampling or adding of process material through the hatch, or during attended repair, replacement, or maintenance operations, provided such activities are done as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere. [District Rule 4409] Federally Enforceable Through Title V Permit
6. Leaks detected during quarterly operator inspections shall not be counted towards determination of compliance with the provisions of Rule 4409 provided the leaking components are repaired as soon as practicable but not later than the time frame specified in this permit. Leaks detected during quarterly operator inspections that are not repaired, replaced, or removed from operation as soon as practicable but not later than the time frame specified in this rule shall be counted toward determination of compliance with the provisions of Rule 4409. [District Rule 4409] Federally Enforceable Through Title V Permit
7. Leaking components at this facility detected during annual operator inspections, as required by Rule 4409 for a specific component type, that exceed the leak standards specified in this permit, shall constitute a violation of this rule. This violation is regardless of whether or not the leaking components are repaired, replaced, or removed from operation within the allowable repair time frame specified in this permit. [District Rule 4409] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

8. An open-ended line, or a valve located at the end of the line, that is not sealed with either a blind flange, a plug, a cap, or a second closed valve that is not closed at all times, except during attended operations requiring process fluid flow through the open-ended line is a leak. Attended operations include draining or degassing operations, connection of temporary process equipment, sampling of process streams, emergency venting, and other normal operational needs, provided such operations are done as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

9. A leak from a component is when there is a major liquid leak from the component. A major liquid leak from a component is when a visible mist or a continuous flow of liquid, that is not seal lubricant, leaks from the component. [District Rule 4409] Federally Enforceable Through Title V Permit

10. A leak from a component is when gas emissions greater than 50,000 ppmv, as methane, leaks from the component. [District Rule 4409] Federally Enforceable Through Title V Permit

11. A minor liquid leak from a component is when more than three drops of liquid per minute, that is not seal lubricant and is not a major liquid leak, leaks from the component. [District Rule 4409] Federally Enforceable Through Title V Permit

12. When 200 or fewer valves are inspected, a leak from a valve is when more than one valve has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 valves are inspected, a leak from a valve is when more than 0.5 % (rounded up to the nearest whole number) of the valves have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409] Federally Enforceable Through Title V Permit

13. When 200 or fewer threaded connections are inspected, a leak from a threaded connection is when more than one threaded connection has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 threaded connections are inspected, a leak from a threaded connection is when more than 0.5 % (rounded up to the nearest whole number) of the threaded connections have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409] Federally Enforceable Through Title V Permit

14. When 200 or fewer flanges are inspected, a leak from a flange is when more than one flange has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 flanges are inspected, a leak from a flange is when more than 0.5 % (rounded up to the nearest whole number) of the flanges have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409] Federally Enforceable Through Title V Permit

15. When 200 or fewer pumps are inspected, a leak from a pump is when more than two pumps have a minor liquid leak, a minor gas leak, or a gas leak greater than 10,000 ppmv and less than or equal to 50,000 ppmv. When greater than 200 pumps are inspected, a leak from a pump is when more than 1.0 % (rounded up to the nearest whole number) of the pumps have a minor liquid leak, a minor gas leak, or a gas leak greater than 10,000 ppmv and less than or equal to 50,000 ppmv. [District Rule 4409] Federally Enforceable Through Title V Permit

16. When compressors, PRDs, or other components not specified in this permit are inspected, a leak from these components is when more than one component has a minor liquid leak, a minor gas leak, or a gas leak greater than 10,000 ppmv and less than or equal to 50,000 ppmv. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

17. When pipes at natural gas processing facilities are inspected, a leak from a pipe is when more than two have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

18. For manned facilities all accessible operating pumps, compressors, and PRDs, in service, shall be audio-visually inspected for leaks at least once every 24 hours except when operators do not report to the facility during a 24 hour period. [District Rule 4409] Federally Enforceable Through Title V Permit

19. For unmanned facilities all accessible operating pumps, compressors, and PRDs, in service, shall be audio-visually inspected for leaks at least once per calendar week. [District Rule 4409] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

20. All accessible operating pumps, compressors, and PRDs, in service, that are found to be leaking by audio-visual inspection shall be attempted to be repaired immediately. The leaking component shall then be tested within 24 hours and, if found leaking again, shall be repaired as soon as practicable but not later than the timeframe specified in this permit. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
21. Except for inaccessible components, unsafe-to-monitor components, or pipes, all components, in service, shall be tested for leaks at least once every calendar quarter. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
22. All new, replaced, or repaired fittings, flanges, and threaded connections shall be tested for leaks immediately after being placed into service. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
23. All inaccessible components shall be tested for leaks at least once every 12 months. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
24. All unsafe-to-monitor components shall be tested for leaks during each turnaround. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
25. All pipes shall be visually inspected for leaks at least once every 12 months. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
26. All pipes, in service, that are found to be leaking by visual inspection shall be attempted to be repaired immediately. The leaking pipe shall then be tested within 24 hours and, if found leaking again, shall be repaired as soon as practicable but not later than the timeframe specified in this permit. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
27. The annual pipe inspection required by either the Department of Oil, Gas, and Geothermal Resources (DOGGR) pursuant to California Code of Regulation Title 14, Division 2, Subchapter 2, Section 1774 (Oilfield Facilities and Equipment Maintenance), or by the Spill Prevention Control and Countermeasure Plan (SPCC) pursuant to 40 Code of Federal Regulation Part 112 (Oil Prevention and Response: Non- Transportation-Related Onshore and Offshore Facilities) can be used as the annual pipe inspection required by District Rule 4409. [District Rule 4409] Federally Enforceable Through Title V Permit
28. Except for pumps, compressors, and PRDs, the permittee may apply for written approval from the District to change the inspection frequency of accessible components from quarterly to annually for a specific component type provided the following two qualifying requirements are met. During the previous five consecutive quarterly inspections, for the specific component type, there shall be no more leaks than as allowed by this permit. The permittee also shall not have received a Notice of Violation (NOV) from the District during the previous 12 months for violating any provisions of District Rule 4409 for the specific component type. If these two qualifying requirements have not been met, then the inspection frequency shall revert back to quarterly. The written request shall include pertinent documentation to demonstrate that the operator has successfully met the two qualifying requirements. [District Rule 4409] Federally Enforceable Through Title V Permit
29. The permittee shall notify the District in writing within five calendar days after changing the inspection frequency for a specific component type. The written notification shall include the reason(s) and date of change to a quarterly inspection frequency. [District Rule 4409] Federally Enforceable Through Title V Permit
30. A PRD that releases to the atmosphere shall be inspected by the permittee for leaks as soon as practicable but not later than 24 hours after the time of the release. The permittee shall reinspect the PRD for leaks not earlier than 24 hours after the initial inspection but not later than 15 calendar days after the date of the initial release. If the PRD is found by the permittee to be leaking during either inspection, the PRD leak shall be treated as if the leak was found during the required quarterly operator inspections. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
31. Except for PRDs, a component shall be inspected for leaks not later than 15 calendar days after repairing the leak or replacing the component. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

32. District inspections shall not be counted as an operator inspection required by District Rule 4409. Any attempt by an operator to count such District inspections as part of the operator's mandatory inspections is considered a willful circumvention of the rule and is a violation of this rule. [District Rule 4409] Federally Enforceable Through Title V Permit

33. The operator, upon detection of a leaking component, shall affix to that component a weatherproof, readily visible tag, bearing the date and time when the leak was detected and the date and time of the leak measurement. For gaseous leaks, the tag shall indicate the leak concentration in ppmv. For liquid leaks, the tag shall indicate whether it is a major liquid leak or a minor liquid leak. The tag shall indicate, when applicable, whether the component is an essential component, an unsafe-to-monitor component, or a critical component. The tag shall remain in place until the leaking component is repaired or replaced and reinspected and found to be in compliance with the requirements of this rule. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

34. The operator shall minimize all component leaks immediately, to the extent possible, but not later than one hour after detection of the leak in order to stop or reduce leakage to the atmosphere. If the leak has been minimized but the leak still exceeds the applicable leak standards specified in this permit, the operator shall do one of the following within the timeframes specified within this permit: 1) repair or replace the leaking component; 2) vent the leaking component to a closed vent system; 3) or remove the leaking component from operation. A closed vent system is a District approved system that is not open to the atmosphere. It is composed of hard-piping, ductwork connections and, if necessary, flow inducing devices that transport gas or vapor from a piece or pieces of equipment to a District approved control device that has a overall VOC collection and destruction or removal efficiency of at least 95%, or that transports gases or vapors back to a process system. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

35. The operator shall repair minor gas leaks within seven days. The operator shall repair major gas leaks, which are > 10,000 ppmv but < or equal to 50,000 ppmv, within three days. The operator shall repair major gas leaks, which are > 50,000 ppmv, within two days. The operator shall repair minor liquid leaks within three days. The operator shall repair major liquid leaks within two days. The leak rate measured after leak minimization has been performed shall be the leak rate used to determine the applicable repair period. The start of the repair period shall be the time of the initial leak detection. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

36. For each calendar quarter, the operator may extend the repair period for a total number of leaking components, not to exceed 0.05 % of the number of components inspected, by type, rounded upward to the nearest whole number. The repair period for minor gas leaks can be extended by seven additional days. The repair period for major gas leaks, which are > 10,000 ppmv but < or equal to 50,000 ppmv, can be extended by two additional days. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

37. If a leaking component is an essential component or a critical component and which cannot be shut down immediately for repairs, the operator shall do the following: 1) minimize the leak within one hour after detection of the leak; 2) and if the leak has been minimized, but the leak still exceeds the applicable leak standards of Rule 4409 as specified in this permit, the essential component or critical component shall be repaired or replaced to eliminate the leak during the next process unit turnaround. The repair shall occur no later than one year from the date of the original leak detection. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

38. For any component that has incurred five repair actions for major gas leaks or major liquid leaks, or a combination of major gas leaks and major liquid leaks within a continuous 12-month period, the operator shall do one of the following four options. Options 1a through 1f require written notification to the District, option 2 requires written notification to the District and written District approval, options 3 and 4 do not require written notification to the District: 1a) For compressors replace the existing seal with either a dual mechanical seal, an oil film seal, a gas seal, or a face-type seal; 1b) for pumps replace the pump with a seal-less pump or replace the seal with a dual mechanical seal; 1c) for PRDs replace the PRD and install a rupture disc in the line which precedes the PRD such that the PRD is in series with and follows the rupture disc; 1d) for valves replace the valve with a sealed bellows valve, or for seal rings install graphite or Teflon chevron seal rings in a live-loaded packing gland; 1e) for threaded connections weld the connections or replace threaded connections with flanges; 1f) for sampling connections replace the sampling connection with a closed-loop sampling system; 2) Replace the component with Achieved-in-Practice Best Available Control Technology (BACT) equipment; 3) Vent the component to a District approved closed-vent system; 4) Remove the component from operation. For any component that is accessible, is not unsafe-to-monitor, is not an essential component, or is not a critical component, the operator shall comply with these requirements as soon as practicable but not later than twelve months after the date of detection of the fifth major leak within a continuous 12-month period. For any component that is inaccessible, is unsafe-to-monitor, is essential, or is a critical component, the operator shall comply with these requirements as soon as practicable but not later than the next turnaround or not later than two years after the date of detection of the fifth major leak within a continuous 12-month period, whichever comes first. [District Rule 4409] Federally Enforceable Through Title V Permit

39. All major components and critical components shall be physically identified clearly and visibly for inspection, repair, and recordkeeping purposes. The physical identification shall consist of labels, tags, manufacturer's nameplate identifier, serial number, or model number, or other system approved by the District that enables an operator or the District to locate each individual component. The operator shall replace physical identifications that become missing or unreadable as soon as practicable but not later than 24 hours after discovery. [District Rule 4409] Federally Enforceable Through Title V Permit

40. The operator shall keep a copy of the District approved Operator Management Plan (OMP) at the facility and make it available to the District, ARB, and EPA upon request. [District Rule 4409] Federally Enforceable Through Title V Permit

41. By January 30th of each year the operator shall submit to the District for approval, in writing, an annual report indicating any changes to the existing OMP on file at the District. [District Rule 4409] Federally Enforceable Through Title V Permit

42. The operator shall maintain an inspection log that has been signed and dated by the facility operator responsible for the inspection, certifying the accuracy of the information recorded in the log. The inspection log shall contain, at a minimum, all of the following information: 1) The total number of components inspected, and the total number and percentage of leaking components found by component types; 2) The location, type, name or description of each leaking component and the description of any unit where the leaking component is found; 3) Date of the leak detection and method of the leak detection; 4) For gaseous leaks, record the leak concentration in ppmv, and for liquid leaks record whether the leak is a major liquid leak or a minor liquid leak; 5) The date of repair, replacement, or removal from operation of the leaking component(s); 6) The identification and location of essential components and critical components found leaking that cannot be repaired until the next process unit turnaround or not later than one year after leak detection, whichever comes first; 7) The method(s) used to minimize the leak from essential components and critical components found leaking that cannot be repaired until the next process unit turnaround or not later than one year after leak detection, whichever comes earlier; 8) The date of re-inspection and the leak concentration in ppmv after the component is repaired or is replaced; 9) The inspector's name, business mailing address, and business telephone number. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

43. Records of leaks detected during quarterly or annual operator inspections, and each subsequent repair and re-inspection, shall be submitted to the District, ARB, and EPA upon request. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

44. Records shall be maintained of each calibration of the portable hydrocarbon detection instrument utilized for inspecting components. The records shall include a copy of the current calibration gas certification from the vendor of the calibration gas cylinder, the date of calibration, the concentration of calibration gas, the instrument reading of calibration gas before adjustment, the instrument reading of calibration gas after adjustment, the calibration gas expiration date, and the calibration gas cylinder pressure at the time of calibration. [District Rule 4409] Federally Enforceable Through Title V Permit

45. All measurements of gaseous leak concentrations shall be conducted according to EPA Method 21 using an appropriate portable hydrocarbon detection instrument calibrated with methane. The instrument shall be calibrated in accordance with the procedures specified in EPA Method 21 or the manufacturer's instructions not more than 30 days prior to its use. [District Rule 4409] Federally Enforceable Through Title V Permit

46. The VOC content by weight percent shall be determined using ASTM D-1945 for gases and South Coast Air Quality Management District (SCAQMD) Method 304-91 for liquids. [District Rule 4409] Federally Enforceable Through Title V Permit

47. The percent by volume liquid evaporated at 302 øF (150 øC) shall be determined using ASTM D-86. [District Rule 4409] Federally Enforceable Through Title V Permit

48. The TVP of any organic liquid shall be determined by measuring the Reid Vapor Pressure (RVP) using ASTM D-323, and converting the RVP to TVP at the maximum organic liquid storage temperature. The conversion of RVP to TVP shall be done in accordance with the procedures specified in Appendix A of District Rule 4409. [District Rule 4409] Federally Enforceable Through Title V Permit

49. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM D-287 or ASTM 1298. Sampling for API gravity shall be performed in accordance with ASTM D-4057. [District Rule 4409] Federally Enforceable Through Title V Permit

50. The control efficiency of any VOC control device, measured and calculated as carbon, shall be determined by EPA Method 25, except when the outlet concentration must be below 50 ppm in order to meet the standard, in which case EPA Method 25a may be used. EPA Method 18 may be used in lieu of EPA Method 25 or EPA Method 25a provided the identity and approximate concentrations of the analytes/compounds in the sample gas stream are known before analysis with the gas chromatograph and the gas chromatograph is calibrated for each of those known analyte/compound to ensure that the VOC concentrations are neither under- or over-reported. [District Rule 4409] Federally Enforceable Through Title V Permit

51. Halogenated exempt compounds shall be analyzed by EPA Method 18 or ARB Method 422. [District Rule 4409] Federally Enforceable Through Title V Permit

52. All records required by this permit shall be retained on-site for a minimum of five years and made available for District, ARB, and EPA inspection upon request. [District Rules 1070 and 2520 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-71-26-1 **EXPIRATION DATE:** 08/31/2016

SECTION: SW35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:
98,913 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #66

PERMIT UNIT REQUIREMENTS

1. Tank shall be maintained under working pressure sufficient at all times to prevent organic liquid loss or VOC loss to the atmosphere. [District Rule 4623]
2. The permittee shall not use any components that leak in excess of the applicable leak standards as specified in this permit. Components that have been found leaking in excess of the applicable leak standards of this rule may be used provided such leaking components have been identified with a tag for repair, are repaired, or are awaiting re-inspection after being repaired, within the applicable time period specified in this permit. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
3. For valves, threaded connections, flanges, pipes, pumps, compressors, and other components not specified in this permit; a major gas leak is a detection of > 10,000 ppmv as methane; a minor gas leak is a detection of 1,000 to 10,000 ppmv as methane when the component is in liquid service; a minor gas leak is a detection of 2,000 to 10,000 ppmv as methane when the component is in gas/vapor service. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
4. For pressure relief devices (PRDs); a major gas leak is a detection of > 10,000 ppmv as methane; a minor gas leak is a detection of 200 to 10,000 ppmv as methane when the component is in liquid service; a minor gas leak is a detection of 400 to 10,000 ppmv as methane when the component is in gas/vapor service. [District Rule 4409and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
5. Each hatch shall be closed at all times except during sampling or adding of process material through the hatch, or during attended repair, replacement, or maintenance operations, provided such activities are done as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere. [District Rule 4409] Federally Enforceable Through Title V Permit
6. Leaks detected during quarterly operator inspections shall not be counted towards determination of compliance with the provisions of Rule 4409 provided the leaking components are repaired as soon as practicable but not later than the time frame specified in this permit. Leaks detected during quarterly operator inspections that are not repaired, replaced, or removed from operation as soon as practicable but not later than the time frame specified in this rule shall be counted toward determination of compliance with the provisions of Rule 4409. [District Rule 4409] Federally Enforceable Through Title V Permit
7. Leaking components at this facility detected during annual operator inspections, as required by Rule 4409 for a specific component type, that exceed the leak standards specified in this permit, shall constitute a violation of this rule. This violation is regardless of whether or not the leaking components are repaired, replaced, or removed from operation within the allowable repair time frame specified in this permit. [District Rule 4409] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

8. An open-ended line, or a valve located at the end of the line, that is not sealed with either a blind flange, a plug, a cap, or a second closed valve that is not closed at all times, except during attended operations requiring process fluid flow through the open-ended line is a leak. Attended operations include draining or degassing operations, connection of temporary process equipment, sampling of process streams, emergency venting, and other normal operational needs, provided such operations are done as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
9. A leak from a component is when there is a major liquid leak from the component. A major liquid leak from a component is when a visible mist or a continuous flow of liquid, that is not seal lubricant, leaks from the component. [District Rule 4409] Federally Enforceable Through Title V Permit
10. A leak from a component is when gas emissions greater than 50,000 ppmv, as methane, leaks from the component. [District Rule 4409] Federally Enforceable Through Title V Permit
11. A minor liquid leak from a component is when more than three drops of liquid per minute, that is not seal lubricant and is not a major liquid leak, leaks from the component. [District Rule 4409] Federally Enforceable Through Title V Permit
12. When 200 or fewer valves are inspected, a leak from a valve is when more than one valve has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 valves are inspected, a leak from a valve is when more than 0.5 % (rounded up to the nearest whole number) of the valves have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409] Federally Enforceable Through Title V Permit
13. When 200 or fewer threaded connections are inspected, a leak from a threaded connection is when more than one threaded connection has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 threaded connections are inspected, a leak from a threaded connection is when more than 0.5 % (rounded up to the nearest whole number) of the threaded connections have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409] Federally Enforceable Through Title V Permit
14. When 200 or fewer flanges are inspected, a leak from a flange is when more than one flange has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 flanges are inspected, a leak from a flange is when more than 0.5 % (rounded up to the nearest whole number) of the flanges have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409] Federally Enforceable Through Title V Permit
15. When 200 or fewer pumps are inspected, a leak from a pump is when more than two pumps have a minor liquid leak, a minor gas leak, or a gas leak greater than 10,000 ppmv and less than or equal to 50,000 ppmv. When greater than 200 pumps are inspected, a leak from a pump is when more than 1.0 % (rounded up to the nearest whole number) of the pumps have a minor liquid leak, a minor gas leak, or a gas leak greater than 10,000 ppmv and less than or equal to 50,000 ppmv. [District Rule 4409] Federally Enforceable Through Title V Permit
16. When compressors, PRDs, or other components not specified in this permit are inspected, a leak from these components is when more than one component has a minor liquid leak, a minor gas leak, or a gas leak greater than 10,000 ppmv and less than or equal to 50,000 ppmv. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
17. When pipes at natural gas processing facilities are inspected, a leak from a pipe is when more than two have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
18. For manned facilities all accessible operating pumps, compressors, and PRDs, in service, shall be audio-visually inspected for leaks at least once every 24 hours except when operators do not report to the facility during a 24 hour period. [District Rule 4409] Federally Enforceable Through Title V Permit
19. For unmanned facilities all accessible operating pumps, compressors, and PRDs, in service, shall be audio-visually inspected for leaks at least once per calendar week. [District Rule 4409] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

20. All accessible operating pumps, compressors, and PRDs, in service, that are found to be leaking by audio-visual inspection shall be attempted to be repaired immediately. The leaking component shall then be tested within 24 hours and, if found leaking again, shall be repaired as soon as practicable but not later than the timeframe specified in this permit. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

21. Except for inaccessible components, unsafe-to-monitor components, or pipes, all components, in service, shall be tested for leaks at least once every calendar quarter. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

22. All new, replaced, or repaired fittings, flanges, and threaded connections shall be tested for leaks immediately after being placed into service. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

23. All inaccessible components shall be tested for leaks at least once every 12 months. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

24. All unsafe-to-monitor components shall be tested for leaks during each turnaround. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

25. All pipes shall be visually inspected for leaks at least once every 12 months. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

26. All pipes, in service, that are found to be leaking by visual inspection shall be attempted to be repaired immediately. The leaking pipe shall then be tested within 24 hours and, if found leaking again, shall be repaired as soon as practicable but not later than the timeframe specified in this permit. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

27. The annual pipe inspection required by either the Department of Oil, Gas, and Geothermal Resources (DOGGR) pursuant to California Code of Regulation Title 14, Division 2, Subchapter 2, Section 1774 (Oilfield Facilities and Equipment Maintenance), or by the Spill Prevention Control and Countermeasure Plan (SPCC) pursuant to 40 Code of Federal Regulation Part 112 (Oil Prevention and Response: Non- Transportation-Related Onshore and Offshore Facilities) can be used as the annual pipe inspection required by District Rule 4409. [District Rule 4409] Federally Enforceable Through Title V Permit

28. Except for pumps, compressors, and PRDs, the permittee may apply for written approval from the District to change the inspection frequency of accessible components from quarterly to annually for a specific component type provided the following two qualifying requirements are met. During the previous five consecutive quarterly inspections, for the specific component type, there shall be no more leaks than as allowed by this permit. The permittee also shall not have received a Notice of Violation (NOV) from the District during the previous 12 months for violating any provisions of District Rule 4409 for the specific component type. If these two qualifying requirements have not been met, then the inspection frequency shall revert back to quarterly. The written request shall include pertinent documentation to demonstrate that the operator has successfully met the two qualifying requirements. [District Rule 4409] Federally Enforceable Through Title V Permit

29. The permittee shall notify the District in writing within five calendar days after changing the inspection frequency for a specific component type. The written notification shall include the reason(s) and date of change to a quarterly inspection frequency. [District Rule 4409] Federally Enforceable Through Title V Permit

30. A PRD that releases to the atmosphere shall be inspected by the permittee for leaks as soon as practicable but not later than 24 hours after the time of the release. The permittee shall reinspect the PRD for leaks not earlier than 24 hours after the initial inspection but not later than 15 calendar days after the date of the initial release. If the PRD is found by the permittee to be leaking during either inspection, the PRD leak shall be treated as if the leak was found during the required quarterly operator inspections. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

31. Except for PRDs, a component shall be inspected for leaks not later than 15 calendar days after repairing the leak or replacing the component. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

32. District inspections shall not be counted as an operator inspection required by District Rule 4409. Any attempt by an operator to count such District inspections as part of the operator's mandatory inspections is considered a willful circumvention of the rule and is a violation of this rule. [District Rule 4409] Federally Enforceable Through Title V Permit

33. The operator, upon detection of a leaking component, shall affix to that component a weatherproof, readily visible tag, bearing the date and time when the leak was detected and the date and time of the leak measurement. For gaseous leaks, the tag shall indicate the leak concentration in ppmv. For liquid leaks, the tag shall indicate whether it is a major liquid leak or a minor liquid leak. The tag shall indicate, when applicable, whether the component is an essential component, an unsafe-to-monitor component, or a critical component. The tag shall remain in place until the leaking component is repaired or replaced and reinspected and found to be in compliance with the requirements of this rule. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

34. The operator shall minimize all component leaks immediately, to the extent possible, but not later than one hour after detection of the leak in order to stop or reduce leakage to the atmosphere. If the leak has been minimized but the leak still exceeds the applicable leak standards specified in this permit, the operator shall do one of the following within the timeframes specified within this permit: 1) repair or replace the leaking component; 2) vent the leaking component to a closed vent system; 3) or remove the leaking component from operation. A closed vent system is a District approved system that is not open to the atmosphere. It is composed of hard-piping, ductwork connections and, if necessary, flow inducing devices that transport gas or vapor from a piece or pieces of equipment to a District approved control device that has a overall VOC collection and destruction or removal efficiency of at least 95%, or that transports gases or vapors back to a process system. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

35. The operator shall repair minor gas leaks within seven days. The operator shall repair major gas leaks, which are > 10,000 ppmv but < or equal to 50,000 ppmv, within three days. The operator shall repair major gas leaks, which are > 50,000 ppmv, within two days. The operator shall repair minor liquid leaks within three days. The operator shall repair major liquid leaks within two days. The leak rate measured after leak minimization has been performed shall be the leak rate used to determine the applicable repair period. The start of the repair period shall be the time of the initial leak detection. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

36. For each calendar quarter, the operator may extend the repair period for a total number of leaking components, not to exceed 0.05 % of the number of components inspected, by type, rounded upward to the nearest whole number. The repair period for minor gas leaks can be extended by seven additional days. The repair period for major gas leaks, which are > 10,000 ppmv but < or equal to 50,000 ppmv, can be extended by two additional days. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

37. If a leaking component is an essential component or a critical component and which cannot be shut down immediately for repairs, the operator shall do the following: 1) minimize the leak within one hour after detection of the leak; 2) and if the leak has been minimized, but the leak still exceeds the applicable leak standards of Rule 4409 as specified in this permit, the essential component or critical component shall be repaired or replaced to eliminate the leak during the next process unit turnaround. The repair shall occur no later than one year from the date of the original leak detection. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

38. For any component that has incurred five repair actions for major gas leaks or major liquid leaks, or a combination of major gas leaks and major liquid leaks within a continuous 12-month period, the operator shall do one of the following four options. Options 1a through 1f require written notification to the District, option 2 requires written notification to the District and written District approval, options 3 and 4 do not require written notification to the District: 1a) For compressors replace the existing seal with either a dual mechanical seal, an oil film seal, a gas seal, or a face-type seal; 1b) for pumps replace the pump with a seal-less pump or replace the seal with a dual mechanical seal; 1c) for PRDs replace the PRD and install a rupture disc in the line which precedes the PRD such that the PRD is in series with and follows the rupture disc; 1d) for valves replace the valve with a sealed bellows valve, or for seal rings install graphite or Teflon chevron seal rings in a live-loaded packing gland; 1e) for threaded connections weld the connections or replace threaded connections with flanges; 1f) for sampling connections replace the sampling connection with a closed-loop sampling system; 2) Replace the component with Achieved-in-Practice Best Available Control Technology (BACT) equipment; 3) Vent the component to a District approved closed-vent system; 4) Remove the component from operation. For any component that is accessible, is not unsafe-to-monitor, is not an essential component, or is not a critical component, the operator shall comply with these requirements as soon as practicable but not later than twelve months after the date of detection of the fifth major leak within a continuous 12-month period. For any component that is inaccessible, is unsafe-to-monitor, is essential, or is a critical component, the operator shall comply with these requirements as soon as practicable but not later than the next turnaround or not later than two years after the date of detection of the fifth major leak within a continuous 12-month period, whichever comes first. [District Rule 4409] Federally Enforceable Through Title V Permit

39. All major components and critical components shall be physically identified clearly and visibly for inspection, repair, and recordkeeping purposes. The physical identification shall consist of labels, tags, manufacturer's nameplate identifier, serial number, or model number, or other system approved by the District that enables an operator or the District to locate each individual component. The operator shall replace physical identifications that become missing or unreadable as soon as practicable but not later than 24 hours after discovery. [District Rule 4409] Federally Enforceable Through Title V Permit

40. The operator shall keep a copy of the District approved Operator Management Plan (OMP) at the facility and make it available to the District, ARB, and EPA upon request. [District Rule 4409] Federally Enforceable Through Title V Permit

41. By January 30th of each year the operator shall submit to the District for approval, in writing, an annual report indicating any changes to the existing OMP on file at the District. [District Rule 4409] Federally Enforceable Through Title V Permit

42. The operator shall maintain an inspection log that has been signed and dated by the facility operator responsible for the inspection, certifying the accuracy of the information recorded in the log. The inspection log shall contain, at a minimum, all of the following information: 1) The total number of components inspected, and the total number and percentage of leaking components found by component types; 2) The location, type, name or description of each leaking component and the description of any unit where the leaking component is found; 3) Date of the leak detection and method of the leak detection; 4) For gaseous leaks, record the leak concentration in ppmv, and for liquid leaks record whether the leak is a major liquid leak or a minor liquid leak; 5) The date of repair, replacement, or removal from operation of the leaking component(s); 6) The identification and location of essential components and critical components found leaking that cannot be repaired until the next process unit turnaround or not later than one year after leak detection, whichever comes first; 7) The method(s) used to minimize the leak from essential components and critical components found leaking that cannot be repaired until the next process unit turnaround or not later than one year after leak detection, whichever comes earlier; 8) The date of re-inspection and the leak concentration in ppmv after the component is repaired or is replaced; 9) The inspector's name, business mailing address, and business telephone number. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

43. Records of leaks detected during quarterly or annual operator inspections, and each subsequent repair and re-inspection, shall be submitted to the District, ARB, and EPA upon request. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

44. Records shall be maintained of each calibration of the portable hydrocarbon detection instrument utilized for inspecting components. The records shall include a copy of the current calibration gas certification from the vendor of the calibration gas cylinder, the date of calibration, the concentration of calibration gas, the instrument reading of calibration gas before adjustment, the instrument reading of calibration gas after adjustment, the calibration gas expiration date, and the calibration gas cylinder pressure at the time of calibration. [District Rule 4409] Federally Enforceable Through Title V Permit

45. All measurements of gaseous leak concentrations shall be conducted according to EPA Method 21 using an appropriate portable hydrocarbon detection instrument calibrated with methane. The instrument shall be calibrated in accordance with the procedures specified in EPA Method 21 or the manufacturer's instructions not more than 30 days prior to its use. [District Rule 4409] Federally Enforceable Through Title V Permit

46. The VOC content by weight percent shall be determined using ASTM D-1945 for gases and South Coast Air Quality Management District (SCAQMD) Method 304-91 for liquids. [District Rule 4409] Federally Enforceable Through Title V Permit

47. The percent by volume liquid evaporated at 302 øF (150 øC) shall be determined using ASTM D-86. [District Rule 4409] Federally Enforceable Through Title V Permit

48. The TVP of any organic liquid shall be determined by measuring the Reid Vapor Pressure (RVP) using ASTM D-323, and converting the RVP to TVP at the maximum organic liquid storage temperature. The conversion of RVP to TVP shall be done in accordance with the procedures specified in Appendix A of District Rule 4409. [District Rule 4409] Federally Enforceable Through Title V Permit

49. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM D-287 or ASTM 1298. Sampling for API gravity shall be performed in accordance with ASTM D-4057. [District Rule 4409] Federally Enforceable Through Title V Permit

50. The control efficiency of any VOC control device, measured and calculated as carbon, shall be determined by EPA Method 25, except when the outlet concentration must be below 50 ppm in order to meet the standard, in which case EPA Method 25a may be used. EPA Method 18 may be used in lieu of EPA Method 25 or EPA Method 25a provided the identity and approximate concentrations of the analytes/compounds in the sample gas stream are known before analysis with the gas chromatograph and the gas chromatograph is calibrated for each of those known analyte/compound to ensure that the VOC concentrations are neither under- or over-reported. [District Rule 4409] Federally Enforceable Through Title V Permit

51. Halogenated exempt compounds shall be analyzed by EPA Method 18 or ARB Method 422. [District Rule 4409] Federally Enforceable Through Title V Permit

52. All records required by this permit shall be retained on-site for a minimum of five years and made available for District, ARB, and EPA inspection upon request. [District Rules 1070 and 2520 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-71-27-1

EXPIRATION DATE: 08/31/2016

EQUIPMENT DESCRIPTION:
108,047 GALLON NATURAL GASOLINE/LPG STORAGE TANK

PERMIT UNIT REQUIREMENTS

1. Tank shall be maintained under working pressure sufficient at all times to prevent organic liquid loss or VOC loss to the atmosphere (required to be considered exempt from Rule 4623). [District Rule 4623] Federally Enforceable Through Title V Permit
2. Equipment shall be maintained gas and liquid leak free as defined in Rule 4409. [District Rule 4409] Federally Enforceable Through Title V Permit
3. Fugitive emission components shall be monitored and maintained pursuant to Rule 4409. [District Rule 4409] Federally Enforceable Through Title V Permit
4. Volatile organic compound (VOC) emission rate shall not exceed 0.07 lbs/day. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Permittee shall maintain permit accurate fugitive component counts and resulting emissions calculated using CAPCOA's "California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities," Table IV-2c (Feb 1999), Screening Value Range emission factors. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Gas compressor seals and pump seals shall have no vapor leaks in excess of 10,000 ppmv above background when measured with a portable hydrocarbon detection instrument calibrated with methane in accordance with EPA Method 21. Gas compressor seals and pump seals shall have no leak of VOC in excess of 3 drops per minute. [District Rules 2201 and 4409] Federally Enforceable Through Title V Permit
7. Fugitive piping components shall be have no vapor leaks in excess of 10,000 ppmv above background when measured with a portable hydrocarbon detection instrument calibrated with methane in accordance with EPA Method 21. Fugitive components shall have no leak of VOC in excess of 3 drops per minute. [District Rules 2201 and 4409] Federally Enforceable Through Title V Permit
8. The permittee shall not use any components that leak in excess of the applicable leak standards as specified in this permit. Components that have been found leaking in excess of the applicable leak standards of this rule may be used provided such leaking components have been identified with a tag for repair, are repaired, or are awaiting re-inspection after being repaired, within the applicable time period specified in this permit. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
9. For valves, threaded connections, flanges, pipes, pumps, compressors, and other components not specified in this permit; a major gas leak is a detection of > 10,000 ppmv as methane; a minor gas leak is a detection of 1,000 to 10,000 ppmv as methane when the component is in liquid service; a minor gas leak is a detection of 2,000 to 10,000 ppmv as methane when the component is in gas/vapor service. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

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

10. For pressure relief devices (PRDs); a major gas leak is a detection of > 10,000 ppmv as methane; a minor gas leak is a detection of 200 to 10,000 ppmv as methane when the component is in liquid service; a minor gas leak is a detection of 400 to 10,000 ppmv as methane when the component is in gas/vapor service. [District Rule 4409and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
11. Each hatch shall be closed at all times except during sampling or adding of process material through the hatch, or during attended repair, replacement, or maintenance operations, provided such activities are done as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere. [District Rule 4409] Federally Enforceable Through Title V Permit
12. Leaks detected during quarterly operator inspections shall not be counted towards determination of compliance with the provisions of Rule 4409 provided the leaking components are repaired as soon as practicable but not later than the time frame specified in this permit. Leaks detected during quarterly operator inspections that are not repaired, replaced, or removed from operation as soon as practicable but not later than the time frame specified in this rule shall be counted toward determination of compliance with the provisions of Rule 4409. [District Rule 4409] Federally Enforceable Through Title V Permit
13. Leaking components at this facility detected during annual operator inspections, as required by Rule 4409 for a specific component type, that exceed the leak standards specified in this permit, shall constitute a violation of this rule. This violation is regardless of whether or not the leaking components are repaired, replaced, or removed from operation within the allowable repair time frame specified in this permit. [District Rule 4409] Federally Enforceable Through Title V Permit
14. An open-ended line, or a valve located at the end of the line, that is not sealed with either a blind flange, a plug, a cap, or a second closed valve that is not closed at all times, except during attended operations requiring process fluid flow through the open-ended line is a leak. Attended operations include draining or degassing operations, connection of temporary process equipment, sampling of process streams, emergency venting, and other normal operational needs, provided such operations are done as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
15. A leak from a component is when there is a major liquid leak from the component. A major liquid leak from a component is when a visible mist or a continuous flow of liquid, that is not seal lubricant, leaks from the component. [District Rule 4409] Federally Enforceable Through Title V Permit
16. A leak from a component is when gas emissions greater than 50,000 ppmv, as methane, leaks from the component. [District Rule 4409] Federally Enforceable Through Title V Permit
17. A minor liquid leak from a component is when more than three drops of liquid per minute, that is not seal lubricant and is not a major liquid leak, leaks from the component. [District Rule 4409] Federally Enforceable Through Title V Permit
18. When 200 or fewer valves are inspected, a leak from a valve is when more than one valve has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 valves are inspected, a leak from a valve is when more than 0.5 % (rounded up to the nearest whole number) of the valves have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409] Federally Enforceable Through Title V Permit
19. When 200 or fewer threaded connections are inspected, a leak from a threaded connection is when more than one threaded connection has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 threaded connections are inspected, a leak from a threaded connection is when more than 0.5 % (rounded up to the nearest whole number) of the threaded connections have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409] Federally Enforceable Through Title V Permit
20. When 200 or fewer flanges are inspected, a leak from a flange is when more than one flange has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 flanges are inspected, a leak from a flange is when more than 0.5 % (rounded up to the nearest whole number) of the flanges have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

21. When 200 or fewer pumps are inspected, a leak from a pump is when more than two pumps have a minor liquid leak, a minor gas leak, or a gas leak greater than 10,000 ppmv and less than or equal to 50,000 ppmv. When greater than 200 pumps are inspected, a leak from a pump is when more than 1.0 % (rounded up to the nearest whole number) of the pumps have a minor liquid leak, a minor gas leak, or a gas leak greater than 10,000 ppmv and less than or equal to 50,000 ppmv. [District Rule 4409] Federally Enforceable Through Title V Permit
22. When compressors, PRDs, or other components not specified in this permit are inspected, a leak from these components is when more than one component has a minor liquid leak, a minor gas leak, or a gas leak greater than 10,000 ppmv and less than or equal to 50,000 ppmv. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
23. When pipes at natural gas processing facilities are inspected, a leak from a pipe is when more than two have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
24. For manned facilities all accessible operating pumps, compressors, and PRDs, in service, shall be audio-visually inspected for leaks at least once every 24 hours except when operators do not report to the facility during a 24 hour period. [District Rule 4409] Federally Enforceable Through Title V Permit
25. For unmanned facilities all accessible operating pumps, compressors, and PRDs, in service, shall be audio-visually inspected for leaks at least once per calendar week. [District Rule 4409] Federally Enforceable Through Title V Permit
26. All accessible operating pumps, compressors, and PRDs, in service, that are found to be leaking by audio-visual inspection shall be attempted to be repaired immediately. The leaking component shall then be tested within 24 hours and, if found leaking again, shall be repaired as soon as practicable but not later than the timeframe specified in this permit. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
27. Except for inaccessible components, unsafe-to-monitor components, or pipes, all components, in service, shall be tested for leaks at least once every calendar quarter. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
28. All new, replaced, or repaired fittings, flanges, and threaded connections shall be tested for leaks immediately after being placed into service. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
29. All inaccessible components shall be tested for leaks at least once every 12 months. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
30. All unsafe-to-monitor components shall be tested for leaks during each turnaround. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
31. All pipes shall be visually inspected for leaks at least once every 12 months. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
32. All pipes, in service, that are found to be leaking by visual inspection shall be attempted to be repaired immediately. The leaking pipe shall then be tested within 24 hours and, if found leaking again, shall be repaired as soon as practicable but not later than the timeframe specified in this permit. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
33. The annual pipe inspection required by either the Department of Oil, Gas, and Geothermal Resources (DOGGR) pursuant to California Code of Regulation Title 14, Division 2, Subchapter 2, Section 1774 (Oilfield Facilities and Equipment Maintenance), or by the Spill Prevention Control and Countermeasure Plan (SPCC) pursuant to 40 Code of Federal Regulation Part 112 (Oil Prevention and Response: Non- Transportation-Related Onshore and Offshore Facilities) can be used as the annual pipe inspection required by District Rule 4409. [District Rule 4409] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

34. Except for pumps, compressors, and PRDs, the permittee may apply for written approval from the District to change the inspection frequency of accessible components from quarterly to annually for a specific component type provided the following two qualifying requirements are met. During the previous five consecutive quarterly inspections, for the specific component type, there shall be no more leaks than as allowed by this permit. The permittee also shall not have received a Notice of Violation (NOV) from the District during the previous 12 months for violating any provisions of District Rule 4409 for the specific component type. If these two qualifying requirements have not been met, then the inspection frequency shall revert back to quarterly. The written request shall include pertinent documentation to demonstrate that the operator has successfully met the two qualifying requirements. [District Rule 4409] Federally Enforceable Through Title V Permit

35. The permittee shall notify the District in writing within five calendar days after changing the inspection frequency for a specific component type. The written notification shall include the reason(s) and date of change to a quarterly inspection frequency. [District Rule 4409] Federally Enforceable Through Title V Permit

36. A PRD that releases to the atmosphere shall be inspected by the permittee for leaks as soon as practicable but not later than 24 hours after the time of the release. The permittee shall reinspect the PRD for leaks not earlier than 24 hours after the initial inspection but not later than 15 calendar days after the date of the initial release. If the PRD is found by the permittee to be leaking during either inspection, the PRD leak shall be treated as if the leak was found during the required quarterly operator inspections. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

37. Except for PRDs, a component shall be inspected for leaks not later than 15 calendar days after repairing the leak or replacing the component. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

38. District inspections shall not be counted as an operator inspection required by District Rule 4409. Any attempt by an operator to count such District inspections as part of the operator's mandatory inspections is considered a willful circumvention of the rule and is a violation of this rule. [District Rule 4409] Federally Enforceable Through Title V Permit

39. The operator, upon detection of a leaking component, shall affix to that component a weatherproof, readily visible tag, bearing the date and time when the leak was detected and the date and time of the leak measurement. For gaseous leaks, the tag shall indicate the leak concentration in ppmv. For liquid leaks, the tag shall indicate whether it is a major liquid leak or a minor liquid leak. The tag shall indicate, when applicable, whether the component is an essential component, an unsafe-to-monitor component, or a critical component. The tag shall remain in place until the leaking component is repaired or replaced and reinspected and found to be in compliance with the requirements of this rule. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

40. The operator shall minimize all component leaks immediately, to the extent possible, but not later than one hour after detection of the leak in order to stop or reduce leakage to the atmosphere. If the leak has been minimized but the leak still exceeds the applicable leak standards specified in this permit, the operator shall do one of the following within the timeframes specified within this permit: 1) repair or replace the leaking component; 2) vent the leaking component to a closed vent system; 3) or remove the leaking component from operation. A closed vent system is a District approved system that is not open to the atmosphere. It is composed of hard-piping, ductwork connections and, if necessary, flow inducing devices that transport gas or vapor from a piece or pieces of equipment to a District approved control device that has a overall VOC collection and destruction or removal efficiency of at least 95%, or that transports gases or vapors back to a process system. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

41. The operator shall repair minor gas leaks within seven days. The operator shall repair major gas leaks, which are > 10,000 ppmv but < or equal to 50,000 ppmv, within three days. The operator shall repair major gas leaks, which are > 50,000 ppmv, within two days. The operator shall repair minor liquid leaks within three days. The operator shall repair major liquid leaks within two days. The leak rate measured after leak minimization has been performed shall be the leak rate used to determine the applicable repair period. The start of the repair period shall be the time of the initial leak detection. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

42. For each calendar quarter, the operator may extend the repair period for a total number of leaking components, not to exceed 0.05 % of the number of components inspected, by type, rounded upward to the nearest whole number. The repair period for minor gas leaks can be extended by seven additional days. The repair period for major gas leaks, which are > 10,000 ppmv but < or equal to 50,000 ppmv, can be extended by two additional days. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

43. If a leaking component is an essential component or a critical component and which cannot be shut down immediately for repairs, the operator shall do the following: 1) minimize the leak within one hour after detection of the leak; 2) and if the leak has been minimized, but the leak still exceeds the applicable leak standards of Rule 4409 as specified in this permit, the essential component or critical component shall be repaired or replaced to eliminate the leak during the next process unit turnaround. The repair shall occur no later than one year from the date of the original leak detection. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

44. For any component that has incurred five repair actions for major gas leaks or major liquid leaks, or a combination of major gas leaks and major liquid leaks within a continuous 12-month period, the operator shall do one of the following four options. Options 1a through 1f require written notification to the District, option 2 requires written notification to the District and written District approval, options 3 and 4 do not require written notification to the District: 1a) For compressors replace the existing seal with either a dual mechanical seal, an oil film seal, a gas seal, or a face-type seal; 1b) for pumps replace the pump with a seal-less pump or replace the seal with a dual mechanical seal; 1c) for PRDs replace the PRD and install a rupture disc in the line which precedes the PRD such that the PRD is in series with and follows the rupture disc; 1d) for valves replace the valve with a sealed bellows valve, or for seal rings install graphite or Teflon chevron seal rings in a live-loaded packing gland; 1e) for threaded connections weld the connections or replace threaded connections with flanges; 1f) for sampling connections replace the sampling connection with a closed-loop sampling system; 2) Replace the component with Achieved-in-Practice Best Available Control Technology (BACT) equipment; 3) Vent the component to a District approved closed-vent system; 4) Remove the component from operation. For any component that is accessible, is not unsafe-to-monitor, is not an essential component, or is not a critical component, the operator shall comply with these requirements as soon as practicable but not later than twelve months after the date of detection of the fifth major leak within a continuous 12-month period. For any component that is inaccessible, is unsafe-to-monitor, is essential, or is a critical component, the operator shall comply with these requirements as soon as practicable but not later than the next turnaround or not later than two years after the date of detection of the fifth major leak within a continuous 12-month period, whichever comes first. [District Rule 4409] Federally Enforceable Through Title V Permit

45. All major components and critical components shall be physically identified clearly and visibly for inspection, repair, and recordkeeping purposes. The physical identification shall consist of labels, tags, manufacturer's nameplate identifier, serial number, or model number, or other system approved by the District that enables an operator or the District to locate each individual component. The operator shall replace physical identifications that become missing or unreadable as soon as practicable but not later than 24 hours after discovery. [District Rule 4409] Federally Enforceable Through Title V Permit

46. The operator shall keep a copy of the District approved Operator Management Plan (OMP) at the facility and make it available to the District, ARB, and EPA upon request. [District Rule 4409] Federally Enforceable Through Title V Permit

47. By January 30th of each year the operator shall submit to the District for approval, in writing, an annual report indicating any changes to the existing OMP on file at the District. [District Rule 4409] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

48. The operator shall maintain an inspection log that has been signed and dated by the facility operator responsible for the inspection, certifying the accuracy of the information recorded in the log. The inspection log shall contain, at a minimum, all of the following information: 1) The total number of components inspected, and the total number and percentage of leaking components found by component types; 2) The location, type, name or description of each leaking component and the description of any unit where the leaking component is found; 3) Date of the leak detection and method of the leak detection; 4) For gaseous leaks, record the leak concentration in ppmv, and for liquid leaks record whether the leak is a major liquid leak or a minor liquid leak; 5) The date of repair, replacement, or removal from operation of the leaking component(s); 6) The identification and location of essential components and critical components found leaking that cannot be repaired until the next process unit turnaround or not later than one year after leak detection, whichever comes first; 7) The method(s) used to minimize the leak from essential components and critical components found leaking that cannot be repaired until the next process unit turnaround or not later than one year after leak detection, whichever comes earlier; 8) The date of re-inspection and the leak concentration in ppmv after the component is repaired or is replaced; 9) The inspector's name, business mailing address, and business telephone number. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

49. Records of leaks detected during quarterly or annual operator inspections, and each subsequent repair and re-inspection, shall be submitted to the District, ARB, and EPA upon request. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

50. Records shall be maintained of each calibration of the portable hydrocarbon detection instrument utilized for inspecting components. The records shall include a copy of the current calibration gas certification from the vendor of the calibration gas cylinder, the date of calibration, the concentration of calibration gas, the instrument reading of calibration gas before adjustment, the instrument reading of calibration gas after adjustment, the calibration gas expiration date, and the calibration gas cylinder pressure at the time of calibration. [District Rule 4409] Federally Enforceable Through Title V Permit

51. All measurements of gaseous leak concentrations shall be conducted according to EPA Method 21 using an appropriate portable hydrocarbon detection instrument calibrated with methane. The instrument shall be calibrated in accordance with the procedures specified in EPA Method 21 or the manufacturer's instructions not more than 30 days prior to its use. [District Rule 4409] Federally Enforceable Through Title V Permit

52. The VOC content by weight percent shall be determined using ASTM D-1945 for gases and South Coast Air Quality Management District (SCAQMD) Method 304-91 for liquids. [District Rule 4409] Federally Enforceable Through Title V Permit

53. The percent by volume liquid evaporated at 302 øF (150 øC) shall be determined using ASTM D-86. [District Rule 4409] Federally Enforceable Through Title V Permit

54. The TVP of any organic liquid shall be determined by measuring the Reid Vapor Pressure (RVP) using ASTM D-323, and converting the RVP to TVP at the maximum organic liquid storage temperature. The conversion of RVP to TVP shall be done in accordance with the procedures specified in Appendix A of District Rule 4409. [District Rule 4409] Federally Enforceable Through Title V Permit

55. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM D-287 or ASTM 1298. Sampling for API gravity shall be performed in accordance with ASTM D-4057. [District Rule 4409] Federally Enforceable Through Title V Permit

56. The control efficiency of any VOC control device, measured and calculated as carbon, shall be determined by EPA Method 25, except when the outlet concentration must be below 50 ppm in order to meet the standard, in which case EPA Method 25a may be used. EPA Method 18 may be used in lieu of EPA Method 25 or EPA Method 25a provided the identity and approximate concentrations of the analytes/compounds in the sample gas stream are known before analysis with the gas chromatograph and the gas chromatograph is calibrated for each of those known analyte/compound to ensure that the VOC concentrations are neither under- or over-reported. [District Rule 4409] Federally Enforceable Through Title V Permit

57. Halogenated exempt compounds shall be analyzed by EPA Method 18 or ARB Method 422. [District Rule 4409] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

58. All records required by this permit shall be retained on-site for a minimum of five years and made available for District, ARB, and EPA inspection upon request. [District Rules 1070 and 2520 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-71-28-1

EXPIRATION DATE: 08/31/2016

EQUIPMENT DESCRIPTION:
108,047 GALLON NATURAL GASOLINE/LPG STORAGE TANK

PERMIT UNIT REQUIREMENTS

1. Tank shall be maintained under working pressure sufficient at all times to prevent organic liquid loss or VOC loss to the atmosphere (required to be considered exempt from Rule 4623). [District Rule 4623]
2. Equipment shall be maintained gas and liquid leak free as defined in Rule 4409. [District Rule 4409] Federally Enforceable Through Title V Permit
3. Fugitive emission components shall be monitored and maintained pursuant to Rule 4409. [District Rule 4409] Federally Enforceable Through Title V Permit
4. Volatile organic compound (VOC) emission rate shall not exceed 0.07 lbs/day. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Permittee shall maintain permit accurate fugitive component counts and resulting emissions calculated using CAPCOA's "California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities," Table IV-2c (Feb 1999), Screening Value Range emission factors. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Gas compressor seals and pump seals shall have no vapor leaks in excess of 10,000 ppmv above background when measured with a portable hydrocarbon detection instrument calibrated with methane in accordance with EPA Method 21. Gas compressor seals and pump seals shall have no leak of VOC in excess of 3 drops per minute. [District Rules 2201 and 4409] Federally Enforceable Through Title V Permit
7. Fugitive piping components shall be have no vapor leaks in excess of 10,000 ppmv above background when measured with a portable hydrocarbon detection instrument calibrated with methane in accordance with EPA Method 21. Fugitive components shall have no leak of VOC in excess of 3 drops per minute. [District Rules 2201 and 4409] Federally Enforceable Through Title V Permit
8. The permittee shall not use any components that leak in excess of the applicable leak standards as specified in this permit. Components that have been found leaking in excess of the applicable leak standards of this rule may be used provided such leaking components have been identified with a tag for repair, are repaired, or are awaiting re-inspection after being repaired, within the applicable time period specified in this permit. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
9. For valves, threaded connections, flanges, pipes, pumps, compressors, and other components not specified in this permit; a major gas leak is a detection of > 10,000 ppmv as methane; a minor gas leak is a detection of 1,000 to 10,000 ppmv as methane when the component is in liquid service; a minor gas leak is a detection of 2,000 to 10,000 ppmv as methane when the component is in gas/vapor service. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
10. For pressure relief devices (PRDs); a major gas leak is a detection of > 10,000 ppmv as methane; a minor gas leak is a detection of 200 to 10,000 ppmv as methane when the component is in liquid service; a minor gas leak is a detection of 400 to 10,000 ppmv as methane when the component is in gas/vapor service. [District Rule 4409and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

11. Each hatch shall be closed at all times except during sampling or adding of process material through the hatch, or during attended repair, replacement, or maintenance operations, provided such activities are done as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere. [District Rule 4409] Federally Enforceable Through Title V Permit

12. Leaks detected during quarterly operator inspections shall not be counted towards determination of compliance with the provisions of Rule 4409 provided the leaking components are repaired as soon as practicable but not later than the time frame specified in this permit. Leaks detected during quarterly operator inspections that are not repaired, replaced, or removed from operation as soon as practicable but not later than the time frame specified in this rule shall be counted toward determination of compliance with the provisions of Rule 4409. [District Rule 4409] Federally Enforceable Through Title V Permit

13. Leaking components at this facility detected during annual operator inspections, as required by Rule 4409 for a specific component type, that exceed the leak standards specified in this permit, shall constitute a violation of this rule. This violation is regardless of whether or not the leaking components are repaired, replaced, or removed from operation within the allowable repair time frame specified in this permit. [District Rule 4409] Federally Enforceable Through Title V Permit

14. An open-ended line, or a valve located at the end of the line, that is not sealed with either a blind flange, a plug, a cap, or a second closed valve that is not closed at all times, except during attended operations requiring process fluid flow through the open-ended line is a leak. Attended operations include draining or degassing operations, connection of temporary process equipment, sampling of process streams, emergency venting, and other normal operational needs, provided such operations are done as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

15. A leak from a component is when there is a major liquid leak from the component. A major liquid leak from a component is when a visible mist or a continuous flow of liquid, that is not seal lubricant, leaks from the component. [District Rule 4409] Federally Enforceable Through Title V Permit

16. A leak from a component is when gas emissions greater than 50,000 ppmv, as methane, leaks from the component. [District Rule 4409] Federally Enforceable Through Title V Permit

17. A minor liquid leak from a component is when more than three drops of liquid per minute, that is not seal lubricant and is not a major liquid leak, leaks from the component. [District Rule 4409] Federally Enforceable Through Title V Permit

18. When 200 or fewer valves are inspected, a leak from a valve is when more than one valve has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 valves are inspected, a leak from a valve is when more than 0.5 % (rounded up to the nearest whole number) of the valves have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409] Federally Enforceable Through Title V Permit

19. When 200 or fewer threaded connections are inspected, a leak from a threaded connection is when more than one threaded connection has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 threaded connections are inspected, a leak from a threaded connection is when more than 0.5 % (rounded up to the nearest whole number) of the threaded connections have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409] Federally Enforceable Through Title V Permit

20. When 200 or fewer flanges are inspected, a leak from a flange is when more than one flange has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 flanges are inspected, a leak from a flange is when more than 0.5 % (rounded up to the nearest whole number) of the flanges have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

21. When 200 or fewer pumps are inspected, a leak from a pump is when more than two pumps have a minor liquid leak, a minor gas leak, or a gas leak greater than 10,000 ppmv and less than or equal to 50,000 ppmv. When greater than 200 pumps are inspected, a leak from a pump is when more than 1.0 % (rounded up to the nearest whole number) of the pumps have a minor liquid leak, a minor gas leak, or a gas leak greater than 10,000 ppmv and less than or equal to 50,000 ppmv. [District Rule 4409] Federally Enforceable Through Title V Permit
22. When compressors, PRDs, or other components not specified in this permit are inspected, a leak from these components is when more than one component has a minor liquid leak, a minor gas leak, or a gas leak greater than 10,000 ppmv and less than or equal to 50,000 ppmv. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
23. When pipes at natural gas processing facilities are inspected, a leak from a pipe is when more than two have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
24. For manned facilities all accessible operating pumps, compressors, and PRDs, in service, shall be audio-visually inspected for leaks at least once every 24 hours except when operators do not report to the facility during a 24 hour period. [District Rule 4409] Federally Enforceable Through Title V Permit
25. For unmanned facilities all accessible operating pumps, compressors, and PRDs, in service, shall be audio-visually inspected for leaks at least once per calendar week. [District Rule 4409] Federally Enforceable Through Title V Permit
26. All accessible operating pumps, compressors, and PRDs, in service, that are found to be leaking by audio-visual inspection shall be attempted to be repaired immediately. The leaking component shall then be tested within 24 hours and, if found leaking again, shall be repaired as soon as practicable but not later than the timeframe specified in this permit. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
27. Except for inaccessible components, unsafe-to-monitor components, or pipes, all components, in service, shall be tested for leaks at least once every calendar quarter. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
28. All new, replaced, or repaired fittings, flanges, and threaded connections shall be tested for leaks immediately after being placed into service. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
29. All inaccessible components shall be tested for leaks at least once every 12 months. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
30. All unsafe-to-monitor components shall be tested for leaks during each turnaround. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
31. All pipes shall be visually inspected for leaks at least once every 12 months. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
32. All pipes, in service, that are found to be leaking by visual inspection shall be attempted to be repaired immediately. The leaking pipe shall then be tested within 24 hours and, if found leaking again, shall be repaired as soon as practicable but not later than the timeframe specified in this permit. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit
33. The annual pipe inspection required by either the Department of Oil, Gas, and Geothermal Resources (DOGGR) pursuant to California Code of Regulation Title 14, Division 2, Subchapter 2, Section 1774 (Oilfield Facilities and Equipment Maintenance), or by the Spill Prevention Control and Countermeasure Plan (SPCC) pursuant to 40 Code of Federal Regulation Part 112 (Oil Prevention and Response: Non- Transportation-Related Onshore and Offshore Facilities) can be used as the annual pipe inspection required by District Rule 4409. [District Rule 4409] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

34. Except for pumps, compressors, and PRDs, the permittee may apply for written approval from the District to change the inspection frequency of accessible components from quarterly to annually for a specific component type provided the following two qualifying requirements are met. During the previous five consecutive quarterly inspections, for the specific component type, there shall be no more leaks than as allowed by this permit. The permittee also shall not have received a Notice of Violation (NOV) from the District during the previous 12 months for violating any provisions of District Rule 4409 for the specific component type. If these two qualifying requirements have not been met, then the inspection frequency shall revert back to quarterly. The written request shall include pertinent documentation to demonstrate that the operator has successfully met the two qualifying requirements. [District Rule 4409] Federally Enforceable Through Title V Permit

35. The permittee shall notify the District in writing within five calendar days after changing the inspection frequency for a specific component type. The written notification shall include the reason(s) and date of change to a quarterly inspection frequency. [District Rule 4409] Federally Enforceable Through Title V Permit

36. A PRD that releases to the atmosphere shall be inspected by the permittee for leaks as soon as practicable but not later than 24 hours after the time of the release. The permittee shall reinspect the PRD for leaks not earlier than 24 hours after the initial inspection but not later than 15 calendar days after the date of the initial release. If the PRD is found by the permittee to be leaking during either inspection, the PRD leak shall be treated as if the leak was found during the required quarterly operator inspections. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

37. Except for PRDs, a component shall be inspected for leaks not later than 15 calendar days after repairing the leak or replacing the component. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

38. District inspections shall not be counted as an operator inspection required by District Rule 4409. Any attempt by an operator to count such District inspections as part of the operator's mandatory inspections is considered a willful circumvention of the rule and is a violation of this rule. [District Rule 4409] Federally Enforceable Through Title V Permit

39. The operator, upon detection of a leaking component, shall affix to that component a weatherproof, readily visible tag, bearing the date and time when the leak was detected and the date and time of the leak measurement. For gaseous leaks, the tag shall indicate the leak concentration in ppmv. For liquid leaks, the tag shall indicate whether it is a major liquid leak or a minor liquid leak. The tag shall indicate, when applicable, whether the component is an essential component, an unsafe-to-monitor component, or a critical component. The tag shall remain in place until the leaking component is repaired or replaced and reinspected and found to be in compliance with the requirements of this rule. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

40. The operator shall minimize all component leaks immediately, to the extent possible, but not later than one hour after detection of the leak in order to stop or reduce leakage to the atmosphere. If the leak has been minimized but the leak still exceeds the applicable leak standards specified in this permit, the operator shall do one of the following within the timeframes specified within this permit: 1) repair or replace the leaking component; 2) vent the leaking component to a closed vent system; 3) or remove the leaking component from operation. A closed vent system is a District approved system that is not open to the atmosphere. It is composed of hard-piping, ductwork connections and, if necessary, flow inducing devices that transport gas or vapor from a piece or pieces of equipment to a District approved control device that has a overall VOC collection and destruction or removal efficiency of at least 95%, or that transports gases or vapors back to a process system. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

41. The operator shall repair minor gas leaks within seven days. The operator shall repair major gas leaks, which are > 10,000 ppmv but < or equal to 50,000 ppmv, within three days. The operator shall repair major gas leaks, which are > 50,000 ppmv, within two days. The operator shall repair minor liquid leaks within three days. The operator shall repair major liquid leaks within two days. The leak rate measured after leak minimization has been performed shall be the leak rate used to determine the applicable repair period. The start of the repair period shall be the time of the initial leak detection. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

42. For each calendar quarter, the operator may extend the repair period for a total number of leaking components, not to exceed 0.05 % of the number of components inspected, by type, rounded upward to the nearest whole number. The repair period for minor gas leaks can be extended by seven additional days. The repair period for major gas leaks, which are > 10,000 ppmv but < or equal to 50,000 ppmv, can be extended by two additional days. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

43. If a leaking component is an essential component or a critical component and which cannot be shut down immediately for repairs, the operator shall do the following: 1) minimize the leak within one hour after detection of the leak; 2) and if the leak has been minimized, but the leak still exceeds the applicable leak standards of Rule 4409 as specified in this permit, the essential component or critical component shall be repaired or replaced to eliminate the leak during the next process unit turnaround. The repair shall occur no later than one year from the date of the original leak detection. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

44. For any component that has incurred five repair actions for major gas leaks or major liquid leaks, or a combination of major gas leaks and major liquid leaks within a continuous 12-month period, the operator shall do one of the following four options. Options 1a through 1f require written notification to the District, option 2 requires written notification to the District and written District approval, options 3 and 4 do not require written notification to the District: 1a) For compressors replace the existing seal with either a dual mechanical seal, an oil film seal, a gas seal, or a face-type seal; 1b) for pumps replace the pump with a seal-less pump or replace the seal with a dual mechanical seal; 1c) for PRDs replace the PRD and install a rupture disc in the line which precedes the PRD such that the PRD is in series with and follows the rupture disc; 1d) for valves replace the valve with a sealed bellows valve, or for seal rings install graphite or Teflon chevron seal rings in a live-loaded packing gland; 1e) for threaded connections weld the connections or replace threaded connections with flanges; 1f) for sampling connections replace the sampling connection with a closed-loop sampling system; 2) Replace the component with Achieved-in-Practice Best Available Control Technology (BACT) equipment; 3) Vent the component to a District approved closed-vent system; 4) Remove the component from operation. For any component that is accessible, is not unsafe-to-monitor, is not an essential component, or is not a critical component, the operator shall comply with these requirements as soon as practicable but not later than twelve months after the date of detection of the fifth major leak within a continuous 12-month period. For any component that is inaccessible, is unsafe-to-monitor, is essential, or is a critical component, the operator shall comply with these requirements as soon as practicable but not later than the next turnaround or not later than two years after the date of detection of the fifth major leak within a continuous 12-month period, whichever comes first. [District Rule 4409] Federally Enforceable Through Title V Permit

45. All major components and critical components shall be physically identified clearly and visibly for inspection, repair, and recordkeeping purposes. The physical identification shall consist of labels, tags, manufacturer's nameplate identifier, serial number, or model number, or other system approved by the District that enables an operator or the District to locate each individual component. The operator shall replace physical identifications that become missing or unreadable as soon as practicable but not later than 24 hours after discovery. [District Rule 4409] Federally Enforceable Through Title V Permit

46. The operator shall keep a copy of the District approved Operator Management Plan (OMP) at the facility and make it available to the District, ARB, and EPA upon request. [District Rule 4409] Federally Enforceable Through Title V Permit

47. By January 30th of each year the operator shall submit to the District for approval, in writing, an annual report indicating any changes to the existing OMP on file at the District. [District Rule 4409] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

48. The operator shall maintain an inspection log that has been signed and dated by the facility operator responsible for the inspection, certifying the accuracy of the information recorded in the log. The inspection log shall contain, at a minimum, all of the following information: 1) The total number of components inspected, and the total number and percentage of leaking components found by component types; 2) The location, type, name or description of each leaking component and the description of any unit where the leaking component is found; 3) Date of the leak detection and method of the leak detection; 4) For gaseous leaks, record the leak concentration in ppmv, and for liquid leaks record whether the leak is a major liquid leak or a minor liquid leak; 5) The date of repair, replacement, or removal from operation of the leaking component(s); 6) The identification and location of essential components and critical components found leaking that cannot be repaired until the next process unit turnaround or not later than one year after leak detection, whichever comes first; 7) The method(s) used to minimize the leak from essential components and critical components found leaking that cannot be repaired until the next process unit turnaround or not later than one year after leak detection, whichever comes earlier; 8) The date of re-inspection and the leak concentration in ppmv after the component is repaired or is replaced; 9) The inspector's name, business mailing address, and business telephone number. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

49. Records of leaks detected during quarterly or annual operator inspections, and each subsequent repair and re-inspection, shall be submitted to the District, ARB, and EPA upon request. [District Rule 4409 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

50. Records shall be maintained of each calibration of the portable hydrocarbon detection instrument utilized for inspecting components. The records shall include a copy of the current calibration gas certification from the vendor of the calibration gas cylinder, the date of calibration, the concentration of calibration gas, the instrument reading of calibration gas before adjustment, the instrument reading of calibration gas after adjustment, the calibration gas expiration date, and the calibration gas cylinder pressure at the time of calibration. [District Rule 4409] Federally Enforceable Through Title V Permit

51. All measurements of gaseous leak concentrations shall be conducted according to EPA Method 21 using an appropriate portable hydrocarbon detection instrument calibrated with methane. The instrument shall be calibrated in accordance with the procedures specified in EPA Method 21 or the manufacturer's instructions not more than 30 days prior to its use. [District Rule 4409] Federally Enforceable Through Title V Permit

52. The VOC content by weight percent shall be determined using ASTM D-1945 for gases and South Coast Air Quality Management District (SCAQMD) Method 304-91 for liquids. [District Rule 4409] Federally Enforceable Through Title V Permit

53. The percent by volume liquid evaporated at 302 øF (150 øC) shall be determined using ASTM D-86. [District Rule 4409] Federally Enforceable Through Title V Permit

54. The TVP of any organic liquid shall be determined by measuring the Reid Vapor Pressure (RVP) using ASTM D-323, and converting the RVP to TVP at the maximum organic liquid storage temperature. The conversion of RVP to TVP shall be done in accordance with the procedures specified in Appendix A of District Rule 4409. [District Rule 4409] Federally Enforceable Through Title V Permit

55. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM D-287 or ASTM 1298. Sampling for API gravity shall be performed in accordance with ASTM D-4057. [District Rule 4409] Federally Enforceable Through Title V Permit

56. The control efficiency of any VOC control device, measured and calculated as carbon, shall be determined by EPA Method 25, except when the outlet concentration must be below 50 ppm in order to meet the standard, in which case EPA Method 25a may be used. EPA Method 18 may be used in lieu of EPA Method 25 or EPA Method 25a provided the identity and approximate concentrations of the analytes/compounds in the sample gas stream are known before analysis with the gas chromatograph and the gas chromatograph is calibrated for each of those known analyte/compound to ensure that the VOC concentrations are neither under- or over-reported. [District Rule 4409] Federally Enforceable Through Title V Permit

57. Halogenated exempt compounds shall be analyzed by EPA Method 18 or ARB Method 422. [District Rule 4409] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

58. All records required by this permit shall be retained on-site for a minimum of five years and made available for District, ARB, and EPA inspection upon request. [District Rules 1070 and 2520 and 40 CFR 60 KKK] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-71-29-1 **EXPIRATION DATE:** 08/31/2016

EQUIPMENT DESCRIPTION:
DISTILLATION OPERATION INCLUDING MIXED USE DEISOBUTANIZER/DEBUTANIZER COLUMN, UNFIRED REBOILER, AND VARIOUS EXCHANGERS, PUMPS, AND APPURTENANCES

PERMIT UNIT REQUIREMENTS

1. All VOC sampling connections, open-ended valves, and lines shall be equipped with two closed valves or be sealed with blind flanges, caps, or threaded plugs except during actual use. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Process heat shall only be supplied by hot oil heating systems listed on S-71-4, '5 or '14. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Only heat transfer fluid manufactured and marketed for such use shall be used in a closed loop as heat transfer medium. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Fugitive VOC emission rate shall not exceed 9.4 pounds per day. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Permittee shall maintain permit accurate fugitive component counts and resulting emissions calculated using CAPCOA's "California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities," February 1999, Table IV-2c: CAPCOA Oil and Gas Production Screening Value Range Emission Factors. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The operator shall keep a copy of the APCO-approved Operator Management Plan (OMP) at the facility and make it available to the APCO, ARB and US EPA upon request. By January 30 of each year, the operator shall submit to the APCO for approval, in writing, an annual report indicating any changes to the existing, approved OMP. [District Rule 4455] Federally Enforceable Through Title V Permit
7. In accordance with the approved OMP, the operator shall meet all applicable operating, inspection and re-inspection, maintenance, process pressure relief device (PRD), component identification, recordkeeping and notification requirements of Rule 4455 for all components containing or contacting VOC at the this gas liquids processing facility, except for those components specifically exempted in Sections 4.1 and 4.2. [District Rule 4455] Federally Enforceable Through Title V Permit
8. Except for those components specified in the below condition, a component shall be considered leaking if one of more of the conditions specified in Sections 5.1.4.1 through 5.1.4.4 of the rule exist at the facility . [District Rule 4455] Federally Enforceable Through Title V Permit
9. For valves and connectors, a leak shall be defined as a reading of methane in excess of 100 ppmv above background when measured per EPA Method 21 and Maintenance Program pursuant to District Rule 4455. For pump and compressor seals, a leak shall be defined as a reading of methane in excess of 500 ppmv above background when measure per EPA Method 21 and an Inspection and Maintenance Program pursuant to District Rule 4455. [District Rule 2201] Federally Enforceable Through Title V Permit
10. All records required by this permit shall be retained for a period of at least 5 years and shall be made available to the District, ARB, and USEPA upon request. [District Rules 1070, 2201 and 4455] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-71-30-1

EXPIRATION DATE: 08/31/2016

EQUIPMENT DESCRIPTION:
21,000 GPM MECHANICAL DRAFT COOLING TOWER WITH HIGH EFFICIENCY CELLULAR TYPE DRIFT ELIMINATOR, FOUR (4) 450 HP CIRCULATION PUMPS, AND TDS CONTROL SYSTEM

PERMIT UNIT REQUIREMENTS

1. No hexavalent chromium containing compounds shall be added to cooling tower circulating water. [District Rule 4102 and 40 CFR 63 Q] Federally Enforceable Through Title V Permit
2. Cooling tower drift shall not exceed 0.001%. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Control system shall maintain total dissolved solids (TDS) in cooling tower water less than 5.0 g/l. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Recirculating water flow rate shall not exceed 21,000 gallons per minute. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Compliance with recirculating water rate limit shall be demonstrated by engineering calculations using manufacturer's pump data, cooling water system pressure, and pump discharge pressure as applicable. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Compliance with the TDS limit will be demonstrated by cooling water sample analysis by independent laboratory within 60 days of initial operation, and by monthly analysis by cooling tower chemical vendor or internal laboratory. [District Rule 1081]
7. Records of cooling tower water TDS and manufacturer's pump data, cooling water system pressure, pump discharge pressure, etc. and resulting engineering calculations of cooling tower water flow rate shall be kept at the facility and made readily available for District inspection upon request for 5 years. [District Rule 2201] Federally Enforceable Through Title V Permit

Attachment A

Detailed Facility Printout

Detailed Facility Report

For Facility=71

Sorted by Facility Name and Permit Number

PLAINS LPG SERVICES, L.P.
7TH STANDARD & BEECH
SHAFTER, CA 93263

FAC # S 71 TYPE: TitleV EXPIRE ON: 08/31/2016
STATUS: A TOXIC ID: 50139 AREA: 5 /
TELEPHONE: 6615895377 INSP. DATE: 07/13

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
S-71-1-7	MISCELLANEOUS	3020-06	1	105.00	105.00	A	LPG/NGL DISTILLATION OPERATION INCLUDING ONE DE-PROPANIZER/DE-BUTANIZER, ONE DE-PROPANIZER/STRIPPER, UNFIRED DE-ISOBUTANIZER REBOILER/LPG VAPORIZER, ONE DE-ISOBUTANIZER, AND ONE DE-BUTANIZER
S-71-2-9	MISCELLANEOUS	3020-06	1	105.00	105.00	A	NATURAL GASOLINE AND LPG LOADING AND UNLOADING OPERATION WITH VAPOR CONTROL, TWO NATURAL GASOLINE AND LPG LOADING/UNLOADING RACKS, TWO LPG LOADING/UNLOADING RACKS, THREE 20,850 GALLON PRESSURIZED STORAGE TANKS, TWO 25 BHP COMPRESSORS, PIPING TO PRESSURIZED (PERMIT EXEMPT) LPG TANKS, AND NITROGEN PURGE SYSTEM FOR LIQUID LINES, COMPRESSOR SEALS, AND COMPRESSOR CRANKCASES
S-71-3-10	MISCELLANEOUS	3020-06	1	105.00	105.00	A	LPG TRUCK LOADING/UNLOADING RACKS #4 & #5 INCLUDING TWO 25 BHP COMPRESSORS, FOUR 2" LIQUID UNLOADING HOSES, FOUR 1" VAPOR RECOVERY HOSES, PIPING TO PERMIT EXEMPT LPG TANKAGE, AND NITROGEN PURGE SYSTEM SERVING LIQUID LINES AND COMPRESSOR SEALS AND CRANKCASES
S-71-4-13	80 MMBTU/HR	3020-02 H	1	1,030.00	1,030.00	A	BUTAMER-BUTANE ISOMERIZATION UNIT INCLUDING TWO BUTANE FEED DRYERS V-102A/B, HYDROGEN MAKE-UP DRYER V-106, TWO REGENERANT DRYERS V-107A/B, ONE 80 MMBTU/HR GAS-FIRED PROCESS OIL HEATER H-201 WITH SIX MODEL CUBR-10W LOW-NOX BURNERS AND FUEL PIPING SHARED WITH PERMIT #S-71-1
S-71-5-8	10,280 KBTU/HR	3020-02 G	1	815.00	815.00	A	10.28 MMBTU/HR HYDROGEN PLANT INCLUDING ONE STEAM METHANE REFORMER FURNACE #H-301 EQUIPPED WITH CALLIDUS, MODEL LE-CSG-8W-PSA, LOW-NOX BURNER, AND TWO HYDRODESULFURIZER REACTORS (R-301 A/B)
S-71-6-5	MISCELLANEOUS	3020-06	1	105.00	105.00	A	LPG TRUCK LOADING/UNLOADING RACKS #6 & #7 INCLUDING TEN LOADING/CHARGE PUMPS NOT TO EXCEED 30 BHP EACH, SIX LIQUID UNLOADING HOSES, SIX VAPOR RECOVERY HOSES, NITROGEN PURGE SYSTEM FOR LIQUID LINES, AND PIPING TO/FROM PERMIT EXEMPT LPG TANKAGE
S-71-7-2	320 BHP IC ENGINE	3020-10 C	1	240.00	240.00	A	320 BHP DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP
S-71-8-2	55 BHP IC ENGINE	3020-10 A	1	80.00	80.00	A	55 BHP NATURAL GAS-FIRED EMERGENCY STANDBY IC ENGINE POWERING A DRINKING WATER SYSTEM
S-71-9-0	55 BHP	3020-10 A	1	80.00	80.00	D	55 BHP NATURAL GAS FIRED I. C. ENGINE FOR EMERGENCY COOLING WATER PUMP - DELETED PER CHANGE ORDER, 8/3/98, MRL
S-71-10-3	208 BHP IC ENGINE	3020-10 C	1	240.00	240.00	A	208 BHP DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP

Detailed Facility Report

For Facility=71
Sorted by Facility Name and Permit Number

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
S-71-12-6	MISCELLANEOUS	3020-06	1	105.00	105.00	A	RAILCAR LPG/NATURAL GASOLINE LOADING/UNLOADING OPERATION WITH FIFTEEN LPG/NATURAL GASOLINE LOADING/UNLOADING STATIONS INCLUDING: ELEVATED RACK SYSTEM UTILIZING HARD PIPING AND SWIVEL JOINTS; AND NITROGEN PURGE SYSTEM SERVING LIQUID LINES, COMPRESSOR SEALS, AND COMPRESSOR CRANKCASES
S-71-14-10	105 MMBTU/HR	3020-02 H	1	1,030.00	1,030.00	A	BUTAMER-BUTANE ISOMERIZATION UNIT #2 WITH 105 MMBTU/HR GAS-FIRED HOT OIL HEATER H-202 EQUIPPED WITH CALLIDUS MODEL CUBR-12W LOW-NOX BURNERS AND INTERNAL FGR, WITH NITROGEN PURGE SYSTEM SERVING COMPRESSOR SEALS AND COMPRESSOR CRANKCASES
S-71-15-8	23 MMBTU/HR	3020-02 H	1	1,030.00	1,030.00	A	SAFECAT FEEDSTOCK TREATMENT UNIT WITH 23 MMBTU/HR GAS-FIRED HEATER H-401 EQUIPPED WITH CALLIDUS MODEL CUBR-8P LOW-NOX BURNERS AND INTERNAL FGR
S-71-17-1	267 BHP IC ENGINE	3020-10 C	1	240.00	240.00	A	267 BHP CATERPILLAR MODEL 3306 DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP
S-71-18-0	14,544 GALLONS	3020-05 B	1	93.00	93.00	A	14,544 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #1
S-71-19-0	14,544 GALLONS	3020-05 B	1	93.00	93.00	A	14,544 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #2
S-71-20-0	16,505 GALLONS	3020-05 B	1	93.00	93.00	A	16,505 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #3
S-71-21-0	15,000 GALLONS	3020-05 B	1	93.00	93.00	A	15,000 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #4
S-71-22-0	15,249 GALLONS	3020-05 B	1	93.00	93.00	A	15,249 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #5
S-71-23-0	15,187 GALLONS	3020-05 B	1	93.00	93.00	A	15,187 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #6
S-71-24-0	98,913 GALLONS	3020-05 D	1	185.00	185.00	A	98,913 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #64
S-71-25-0	98,913 GALLONS	3020-05 D	1	185.00	185.00	A	98,913 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #65
S-71-26-0	98,913 GALLONS	3020-05 D	1	185.00	185.00	A	98,913 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #66
S-71-27-0	108,047 GALLONS	3020-05 E	1	246.00	246.00	A	108,047 GALLON NATURAL GASOLINE/LPG STORAGE TANK
S-71-28-0	108,047 GALLONS	3020-05 E	1	246.00	246.00	A	108,047 GALLON NATURAL GASOLINE/LPG STORAGE TANK
S-71-29-0	40 BHP	3020-01 B	1	117.00	117.00	A	DISTILLATION OPERATION INCLUDING MIXED USE DEISOBUTANIZER/DEBUTANIZER COLUMN, UNFIRED REBOILER, AND VARIOUS EXCHANGERS, PUMPS, AND APPURTENANCES

Detailed Facility Report

For Facility=71
Sorted by Facility Name and Permit Number

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
S-71-30-0	1,800 BHP	3020-01 H	1	1,030.00	1,030.00	A	21,000 GPM MECHANICAL DRAFT COOLING TOWER WITH HIGH EFFICIENCY CELLULAR TYPE DRIFT ELIMINATOR, FOUR 450 BHP CIRCULATION PUMPS, AND TDS CONTROL SYSTEM

Number of Facilities Reported: 1

Attachment B

SJVUAPCD Previous Permits

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

Permit to Operate

FACILITY: S-71 **EXPIRATION DATE:** 08/31/2016

LEGAL OWNER OR OPERATOR: PLAINS LPG SERVICES, L.P.
MAILING ADDRESS: 19430 BEECH AVE
SHAFTER, CA 93263

FACILITY LOCATION: 7TH STANDARD & BEECH
SHAFTER, CA 93263

FACILITY DESCRIPTION: NATURAL GAS PRODUCTION

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

Aug 29 2012 8:20AM – KLEVANND

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-71-1-7 **EXPIRATION DATE:** 08/31/2016

SECTION: 35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:
LPG/NGL DISTILLATION OPERATION INCLUDING ONE DE-PROPANIZER/DE-BUTANIZER, ONE DE-PROPANIZER/STRIPPER, UNFIRED DE-ISOBUTANIZER REBOILER/LPG VAPORIZER, ONE DE-ISOBUTANIZER, AND ONE DE-BUTANIZER

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
3. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
4. Process heat shall be supplied by hot oil system (Permit #'s S-71-4 and '-14) or hydrogen plant steam methane/LPG reformer furnace (Permit #S-71-5). [District Rule 2201]
5. Heat exchangers using cooling water shall be maintained leak-free as defined in Rule 4451 and Rule 4452. [District Rules 4451 & 4452]
6. Steam for steam driven pumps shall be supplied from steam methane/LPG reformer furnace waste heat boiler (Permit No. S-71-5) only. [District Rule 2201]
7. Permittee shall comply with all applicable inspection, maintenance, testing, and recordkeeping requirements of Rules 4451 and 4452. [District Rules 4451 & 4452]
8. Fugitive VOC emissions from permit unit shall not exceed 59.0 lb per day. [District Rule 2201]
9. Permittee shall maintain permit accurate fugitive component counts and resulting emissions calculated using CAPCOA's "California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities," Table IV-2c (Feb 1999), Screening Value Range emission factors. [District Rule 2201]
10. Gas compressor seals and pump seals shall have no vapor leaks in excess of 10,000 ppmv above background when measured with a portable hydrocarbon detection instrument calibrated with methane in accordance with EPA Method 21. Gas compressor seals and pump seals shall have no leak of VOC in excess of 3 drops per minute. [District Rule 2201]
11. Except for 1.3% of the valves, 0.5% of the connectors, and 0.5% of the flanges, fugitive piping components as defined in CAPCOA's "California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities" shall have no vapor leaks in excess of 10,000 ppmv above background when measured with a portable hydrocarbon detection instrument calibrated with methane in accordance with EPA Method 21. Fugitive components shall have no leaks of VOC in excess of 3 drops per minute. [District Rule 2201]
12. Condition 10 applies to the following equipment : V-1 fractionating tower, V-1 feed piping, V-1 bottoms piping, V-1 overhead piping, P-5A/B, P12A/B, five heat exchangers, V-20, V-4 fractionating tower, V-4 feed piping, V-4 piping to storage, six heat exchangers, pumps P-4A/B, inlet piping to E-9 LPG fuel gas vaporizer and outlet piping from E-9 LPG fuel gas vaporizer to off-gas system. [District Rule 2201]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13. Any valve, flange, or connector with a vapor leak greater than 100 ppmv above background or any compressor seal or pump seal with a vapor leak greater than 500 ppmv above background (when measured with a portable hydrocarbon detection instrument calibrated with methane in accordance with EPA Method 21) shall be repaired in a manner consistent with the procedures specified in Rule 4451 or Rule 4452. [District Rules 2201, 4451, and 4452]

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-71-2-9 **EXPIRATION DATE:** 08/31/2016

SECTION: SW35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:
NATURAL GASOLINE AND LPG LOADING AND UNLOADING OPERATION WITH VAPOR CONTROL, TWO NATURAL GASOLINE AND LPG LOADING/UNLOADING RACKS, TWO LPG LOADING/UNLOADING RACKS, THREE 20,850 GALLON PRESSURIZED STORAGE TANKS, TWO 25 BHP COMPRESSORS, PIPING TO PRESSURIZED (PERMIT EXEMPT) LPG TANKS, AND NITROGEN PURGE SYSTEM FOR LIQUID LINES, COMPRESSOR SEALS, AND COMPRESSOR CRANKCASES

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
3. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
4. The loading racks shall be equipped with a vapor loss prevention system consisting of vapor and condensate collection systems capable of reducing VOC emissions by at least 95%. [District Rule 4624]
5. Permittee shall comply with all applicable inspection, maintenance, testing, and recordkeeping requirements of Rules 4624 for organic liquid loading operations. [District Rules 4624]
6. Nitrogen purge system shall be a closed loop system and shall not vent to the atmosphere during operation of the system. [District Rule 2201]
7. After completion of truck loading/unloading, liquid lines shall be purged with nitrogen prior to disconnection. [District Rule 4624]
8. The nitrogen purge system serving the compressor seals and compressor crankcases shall vent through two activated charcoal canisters connected in series, except during scheduled maintenance or repair activities. During repair and maintenance (such as charcoal bed change out) VOC emissions shall be minimized to the fullest extent possible. [District Rule 2201]
9. The nitrogen purge system's used activated charcoal canisters shall be handled and disposed of in sealed containers, preventing VOC emissions to the fullest extent possible. [District Rule 2201]
10. The nitrogen purge system's activated charcoal canisters shall be replaced to maintain the VOC concentration from the canister vent less than 4,500 ppmv-VOC or periodically as recommended by the manufacturer, whichever occurs first. [District Rule 2201]
11. Fugitive VOC emission rate shall not exceed 32.2 pounds per day. [District Rule 2201]
12. Maximum VOC emissions from truck loading/unloading liquid hose connects/disconnects shall not exceed 3.5 lb/day. [District Rule 2201]
13. Maximum VOC emissions from truck loading/unloading vapor hose connects/disconnects shall not exceed 0.3 lb/day. [District Rule 2201]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

14. Permittee shall maintain permit accurate fugitive component counts and resulting emissions calculated using CAPCOA's "California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities," February 1999, Table IV-2c: CAPCOA Oil and Gas Production Screening Value Range Emission Factors. [District Rule 2201]
15. There shall be no more than 192 liquid hose connects/disconnects in any one day. [District Rule 2201]
16. There shall be no more than 192 vapor hose connects/disconnects in any one day. [District Rule 2201]
17. The operator shall keep a copy of the APCO-approved Operator Management Plan (OMP) at the facility and make it available to the APCO, ARB and US EPA upon request. By January 30 of each year, the operator shall submit to the APCO for approval, in writing, an annual report indicating any changes to the existing, approved OMP. [District Rule 4455]
18. In accordance with the approved OMP, the operator shall meet all applicable operating, inspection and re-inspection, maintenance, process pressure relief device (PRD), component identification, recordkeeping and notification requirements of Rule 4455 for all components containing or contacting VOC at the this gas liquids processing facility, except for those components specifically exempted in Sections 4.1 and 4.2. [District Rule 4455]
19. Except for those components specified in condition 18, a component shall be considered leaking if one of more of the conditions specified in Sections 5.1.4.1 through 5.1.4.4 of the rule exist at the facility . [District Rule 4455, 5.1.4]
20. For valves and connectors, a leak shall be defined as a reading of methane in excess of 100 ppmv above background when measured per EPA Method 21 and Maintenance Program pursuant to District Rule 4455. For pump and compressor seals, a leak shall be defined as a reading of methane in excess of 500 ppmv above background when measure per EPA Method 21 and an Inspection and Maintenance Program pursuant to District Rule 4455. [District Rule 2201]
21. Permittee shall maintain accurate daily records of the number of truck loading/unloading vapor hose connects/disconnects and truck loading/unloading liquid hose connects/disconnects. [District Rule 1070]
22. All records required by this permit shall be retained for a period of at least 5 years and shall be made available to the District, ARB, and USEPA upon request. [District Rules 1070 and 4455]

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-71-3-10 **EXPIRATION DATE:** 08/31/2016

SECTION: 35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:
LPG TRUCK LOADING/UNLOADING RACKS #4 & #5 INCLUDING TWO 25 BHP COMPRESSORS, FOUR 2" LIQUID UNLOADING HOSES, FOUR 1" VAPOR RECOVERY HOSES, PIPING TO PERMIT EXEMPT LPG TANKAGE, AND NITROGEN PURGE SYSTEM SERVING LIQUID LINES AND COMPRESSOR SEALS AND CRANKCASES

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
3. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
4. After completion of truck unloading, liquid lines shall be purged with nitrogen prior to disconnection. [District Rule 4624]
5. The permittee shall comply with all inspection, maintenance, testing, and recordkeeping requirements of Rule 4624 for the organic liquid loading operation. [District Rule 4624]
6. The nitrogen purge system serving the liquid lines shall be a closed loop system and shall not vent to the atmosphere during operation of the system. [District Rule 2201]
7. The nitrogen purge system serving the compressor seals and compressor crankcases shall vent through two activated charcoal canisters connected in series, except during scheduled maintenance or repair activities. During repair and maintenance (such as charcoal bed change out) VOC emissions shall be minimized to the fullest extent possible. [District Rule 2201]
8. The nitrogen purge system's used activated charcoal canisters shall be handled and disposed of in sealed containers, preventing VOC emissions to the fullest extent possible. [District Rule 2201]
9. The nitrogen purge system's activated charcoal canisters shall be replaced to maintain the VOC concentration from the canister vent less than 4,500 ppmv-VOC or periodically as recommended by the manufacturer, whichever occurs first. [District Rule 2201]
10. Fugitive VOC emission rate shall not exceed 17.6 lb per day. [District Rule 2201]
11. Permittee shall maintain permit accurate fugitive component counts and resulting emissions calculated using CAPCOA's "California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities," Table IV-2c (Feb 1999), Screening Value Range emission factors. [District Rule 2201]
12. The operator shall keep a copy of the APCO-approved Operator Management Plan (OMP) at the facility and make it available to the APCO, ARB and US EPA upon request. By January 30 of each year, the operator shall submit to the APCO for approval, in writing, an annual report indicating any changes to the existing, approved OMP. [District Rule 4455]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13. In accordance with the approved OMP, the operator shall meet all applicable operating, inspection and re-inspection, maintenance, process pressure relief device (PRD), component identification, recordkeeping and notification requirements of Rule 4455 for all components containing or contacting VOC at the this gas liquids processing facility, except for those components specifically exempted in Sections 4.1 and 4.2. [District Rule 4455]
14. Condition 13 applies to the following equipment: V-1/V-4 bottoms rundown to east tank farm unloading operation and V-1 bottoms rundown to east tank farm storage and center row unloading operation. [District Rule 2201]
15. Any valve, flange, or connector with a vapor leak greater than 100 ppmv above background or any compressor seal or pump seal with a vapor leak greater than 500 ppmv above background (when measured with a portable hydrocarbon detection instrument calibrated with methane in accordance with EPA Method 21) shall be repaired in a manner consistent with the procedures specified in Rule 4455. [District Rules 2201 and 4455]
16. The loading and vapor collection equipment shall be maintained and operated such that there are no leaks or no excess organic liquid drainage (as defined in Rule 4624) at disconnections. [District Rule 4624]
17. All records required by this permit shall be retained for a period of at least 5 years and shall be made available to the District, ARB, and USEPA upon request. [District Rules 1070 and 4455]

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-71-4-13 **EXPIRATION DATE:** 08/31/2016

SECTION: 35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:
BUTAMER-BUTANE ISOMERIZATION UNIT INCLUDING TWO BUTANE FEED DRYERS V-102A/B, HYDROGEN MAKE-UP DRYER V-106, TWO REGENERANT DRYERS V-107A/B, ONE 80 MMBTU/HR GAS-FIRED PROCESS OIL HEATER H-201 WITH SIX MODEL CUBR-10W LOW-NOX BURNERS AND FUEL PIPING SHARED WITH PERMIT #S-71-1

PERMIT UNIT REQUIREMENTS

1. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
2. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
3. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of fuel gas combusted in the unit shall be installed, utilized and maintained. [District Rule 2201]
4. Operation shall include feed surge drum V-103, one product separator V-104, two reactors R-101A/B, stabilizer receiver V-109, and one perchloroethylene storage/injection vessel V-105. [District Rules 2201 & 4102]
5. Operation shall include one spent caustic de-gas drum V-112, one stabilizer column V-108, and one net gas scrubber V-110. [District Rule 2201]
6. Operation shall include one de-isobutanizer tower T-201, one de-isobutanizer overhead accumulator V-201, one 125 HP recycle gas compressor C-101, and one hydrogen make-up knock-out drum V-115. [District Rule 2201]
7. Operation shall include hot oil circulation piping, exchangers, and miscellaneous vessels. [District Rule 2201]
8. Hot oil drum shall be equipped with a pressure relief valve set at a minimum 100 psig and no greater than maximum pressure rating recommended by ASME or other recognized authority. [District Rule 2201]
9. All VOC sampling connections, open-ended valves, and lines shall be equipped with two closed valves or be sealed with blind flanges, caps, or threaded plugs except during actual use. [District Rule 2201]
10. Perchloroethylene storage vessel shall be blanketed with inert gas. [District Rule 4102]
11. Perchloroethylene storage vessel shall be equipped with a pressure relief valve set at a minimum pressure of 50 psig. [District Rule 4102]
12. Hot oil drum shall be fuel gas blanketed with vent to fuel gas system. [District Rule 2201]
13. Fuel gas combusted in fired equipment may be comprised of process off-gas (including hydrogen), propane, butane, natural gas, or any combination thereof. [District Rule 2201]
14. The heating value of the fuel gas (Btu/scf @ hhv) combusted in fired equipment shall be determined by sample analysis at least annually. Results of sample analysis shall be retained on site and made available for District inspection upon request. [District Rule 2201]
15. Total heat input of fuel gas combusted in units S-71-4, '5, '14 and '15 shall not exceed 1,602,019 MM Btu/yr. [District Rule 2201]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

16. Perchloroethylene receiving line shall be blown dry to storage vessel using an inert gas upon completion of transfer. [District Rule 4102]
17. Only heat transfer fluid manufactured and marketed for such use shall be used in a closed loop as heat transfer medium. [District Rule 2201]
18. All excess gas shall be incinerated in process heater firebox or existing boiler. [District Rule 2201]
19. Fugitive VOC emission rate shall not exceed 46.5 pounds per day. [District Rule 2201]
20. Permittee shall maintain permit accurate fugitive component counts and resulting emissions calculated using CAPCOA's "California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities," February 1999, Table IV-2c: CAPCOA Oil and Gas Production Screening Value Range Emission Factors. [District Rule 2201]
21. Emission rates shall not exceed any of the following: PM10: 0.005 lb/MMBtu; NOx (as NO2): 25 ppmv @ 3% O2; VOC: 0.00275 lb/MMBtu; SOx (as SO2): 0.0005 lb/MMBtu; or CO: 50 ppmv @ 3% O2. [District Rule 2201]
22. Hot oil heater stack shall be equipped with sampling facilities for source testing in accordance with the provisions of Rule 1081 (Source Sampling). [District Rule 2201]
23. The operator shall keep a copy of the APCO-approved Operator Management Plan (OMP) at the facility and make it available to the APCO, ARB and US EPA upon request. By January 30 of each year, the operator shall submit to the APCO for approval, in writing, an annual report indicating any changes to the existing, approved OMP. [District Rule 4455]
24. In accordance with the approved OMP, the operator shall meet all applicable operating, inspection and re-inspection, maintenance, process pressure relief device (PRD), component identification, recordkeeping and notification requirements of Rule 4455 for all components containing or contacting VOC at the this gas liquids processing facility, except for those components specifically exempted in Sections 4.1 and 4.2. [District Rule 4455]
25. Except for those components specified in condition 24, a component shall be considered leaking if one of more of the conditions specified in Sections 5.1.4.1 through 5.1.4.4 of the rule exist at the facility. [District Rule 4455, 5.1.4]
26. For valves and connectors, a leak shall be defined as a reading of methane in excess of 100 ppmv above background when measured per EPA Method 21. For pump and compressor seals, a leak shall be defined as a reading of methane in excess of 500 ppmv above background when measure per EPA Method 21. [District Rule 2201]
27. The emission control systems shall be in operation and emissions shall be minimized insofar as technologically feasible during startup and shutdown. [District Rules 4305 & 4306]
28. The duration of each startup and shutdown period for the 80 MMBtu/hr gas-fired process oil heater shall not exceed 5.5 hours and 2.0 hours respectively. Emission limits of Rules 4305 and 4306 are waived during periods of startup and shutdown. [District Rules 4305 & 4306]
29. The permittee shall maintain records of the duration of each startup period for the 80 MMBtu/hr gas-fired process oil heater. [District Rules 4305 & 4306]
30. The permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every month using a portable emission monitor. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month. [District Rules 4305 and 4306]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

31. If the NOx and/or CO concentrations corrected to 3% O2, as measured by the portable analyzer, exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rule 4305 and 4306]
32. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 3% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4305 and 4306]
33. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081]
34. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081]
35. This unit shall be tested for compliance with the NOx, CO, and SOx emissions limits at least once every 12 months. After demonstrating compliance on two consecutive annual source tests, the unit shall be tested not less than once every thirty-six months. [District Rules 2201, 4305 and 4306]
36. NOx emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. NOx emissions during the source test shall be calculated as the arithmetic average of three 30-consecutive-minute test runs. [District Rules 4305 and 4306]
37. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. CO emissions during the source test shall be calculated as the arithmetic average of three 30-consecutive-minute test runs. [District Rules 4305 and 4306]
38. SOx emissions for source test purposes shall be determined using EPA Method 19. [District Rule 1081]
39. Stack gas oxygen for source test purposes shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305 and 4306]
40. If permittee fails any compliance demonstration for NOx, CO, or SOx emission limits when testing not less than once every 36 months, compliance with NOx, CO, and SOx emission limits shall be demonstrated not less than once every 12 months. [District Rules 2201, 4305 and 4306]
41. Permittee shall maintain accurate records of perchloroethylene usage, fuel gas heating value, and daily, monthly and annual records of fuel gas use. [District Rules 1070 and 2201]
42. Permittee shall maintain accurate monthly records of the combined heat input of the fuel gas combusted in units S-71-4, '5, '14 and '15. [Districts Rule 1070 and 2201]
43. When the LPG supply source for make up fuel to the fuel gas system changes, the stack concentrations of NOx, CO, and O2 shall be measured with a District approved portable analyzer to verify emissions compliance. This is to be done anytime that LPG is being vaporized to supply make up fuel to the fuel gas system. [District Rule 2201, 4301, 4305 and 4306]
44. All records required by this permit shall be retained for a period of at least 5 years and shall be made available to the District, ARB, and USEPA upon request. [District Rules 1070 and 4455]

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PERMIT UNIT: S-71-5-8 **EXPIRATION DATE:** 08/31/2016

SECTION: 35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:
10.28 MMBTU/HR HYDROGEN PLANT INCLUDING ONE STEAM METHANE REFORMER FURNACE #H-301 EQUIPPED WITH CALLIDUS, MODEL LE-CSG-8W-PSA, LOW-NOX BURNER, AND TWO HYDRODESULFURIZER REACTORS (R-301 A/B)

PERMIT UNIT REQUIREMENTS

1. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
2. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
3. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of fuel gas combusted in the unit shall be installed, utilized and maintained. [District Rule 2201]
4. Operation shall include one steam drum V-301, two 5 HP boiler feed pumps, two 3 HP hydrocarbon feed pumps, one high temp. shift conversion reactor R-302, one deaerator vessel V-303, and one condensate separator V-304. [District Rule 2201]
5. Operation shall include four pressure swing absorption purification vessels V-305A/B/C/D, two 40 HP and one 100 HP hydrogen product compressors, one PSA off gas fuel surge drum V-306, and reformer piping to steam distribution. [District Rule 2201]
6. Gas-fired emission rates shall not exceed any of the following: PM10: 0.0137 lb/MMBtu; SOx (as SO2): 0.0006 lb MMBtu; or VOC: 0.00278 lb/MMBtu. [District Rule 2201]
7. Emissions shall not exceed any of the following: 0.036 lb NOx/MMBtu (or 30 ppmv @ 3% O2), 400 ppmv CO @ 3% O2. [District Rules 4305 and 4306]
8. Steam methane reformer stack shall be equipped with sampling facilities for source testing in accordance with the provisions of Rule 1081 (Source Sampling). [District Rule 1081]
9. Waste gas shall only be ducted to and incinerated in methane reformer fire box only. [District Rule 2201]
10. All VOC sampling connections, open-ended valves, and lines shall be equipped with two closed valves or be sealed with blind flanges, caps or threaded plugs except during actual use. [District Rule 2201]
11. Process heat shall be supplied by steam methane reformer furnace only. [District Rule 2201]
12. Process heat from the steam methane reformer furnace may be used in the LPG/NGL distillation operation (Permit #S-71-1). [District Rule 2201]
13. Steam methane reformer furnace shall be gas-fired only. [District Rule 2201]
14. The emission control systems shall be in operation and emissions shall be minimized insofar as technologically feasible during startup and shutdown. [District Rules 4305 & 4306]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

15. Fuel gas combusted in fired equipment may be comprised of process off-gas (including hydrogen), propane, butane, natural gas, or any combination thereof. [District Rule 2201]
16. The heating value of the fuel gas (Btu/scf @ the hhv) combusted in fired equipment shall be determined by sample analysis at least annually. Results of sample analysis shall be retained on site and made available for District inspection upon request. [District Rule 2201]
17. Total heat input of fuel gas combusted in units S-71-4, '5, '14 and '15 shall not exceed 1,602,019 MM Btu/yr. [District Rule 2201]
18. Permittee shall maintain accurate records of the fuel gas heating value and daily, monthly and annual records of fuel gas use. [District Rules 1070 and 2201]
19. Permittee shall maintain accurate monthly records of the combined heat input of the fuel gas combusted in units S-71-4, '5, '14 and '15. [District Rules 1070 and 2201]
20. The duration of each startup and shutdown period for the 10.28 MMBtu/hr hydrogen plant shall not exceed 12.0 hours and 2.0 hours respectively. Emission limits of Rules 4305 and 4306 are waived during periods of startup and shutdown. [District Rules 4305 & 4306]
21. The permittee shall maintain records of the duration of each startup period for the 10.28 MMBtu/hr hydrogen plant. [District Rules 4305 & 4306]
22. The permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every month using a portable emission monitor. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month. [District Rules 4305 and 4306]
23. If the NOx and/or CO concentrations corrected to 3% O2, as measured by the portable analyzer, exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rules 4305 and 4306]
24. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 3% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4305 and 4306]
25. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081]
26. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081]
27. This unit shall be tested for compliance with the NOx, CO, and SOx emissions limits at least once every 12 months. After demonstrating compliance on two consecutive annual source tests, the unit shall be tested not less than once every thirty-six months. [District Rules 2201, 4305 and 4306]
28. NOx emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. NOx emissions during the source test shall be calculated as the arithmetic average of three 30-consecutive-minute test runs. [District Rules 4305 and 4306]
29. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. CO emissions during the source test shall be calculated as the arithmetic average of three 30-consecutive-minute test runs. [District Rules 4305 and 4306]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

30. SOx emissions for source test purposes shall be determined using EPA Method 19. [District Rule 1081]
31. Stack gas oxygen for source test purposes shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305 and 4306]
32. If permittee fails any compliance demonstration for NOx, CO, or SOx emission limits when testing not less than once every 36 months, compliance with NOx, CO, and SOx emission limits shall be demonstrated not less than once every 12 months. [District Rules 2201, 4305 and 4306]
33. All records shall be retained for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070]
34. Pursuant to Rule 4320, beginning in 2010 the operator shall pay an annual emission fee to the District for NOx emissions from this unit for the previous calendar year. Payments are due by July 1 of each year. Payments shall continue annually until either the unit is permanently removed from service in the District or the operator demonstrates compliance with the applicable NOx emission limit listed in Rule 4320. [District Rule 4320]
35. Permittee shall maintain records of annual heat input (MMBtu) for this unit on a calendar year basis. Such records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070 and Rule 4320]
36. On and after July 1, 2012, the permittee shall submit an analysis showing the fuel's sulfur content at least once every year. Valid purchase contracts, supplier certifications, tariff sheets, or transportation contacts may be used to satisfy this requirement, provided they establish the fuel parameters mentioned above. [District Rule 4320]

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PERMIT UNIT: S-71-6-5 **EXPIRATION DATE:** 08/31/2016

SECTION: 35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:
LPG TRUCK LOADING/UNLOADING RACKS #6 & #7 INCLUDING TEN LOADING/CHARGE PUMPS NOT TO EXCEED 30 BHP EACH, SIX LIQUID UNLOADING HOSES, SIX VAPOR RECOVERY HOSES, NITROGEN PURGE SYSTEM FOR LIQUID LINES, AND PIPING TO/FROM PERMIT EXEMPT LPG TANKAGE

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
3. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
4. LPG shall only be loaded into trucks dedicated to LPG service. [District NSR Rule]
5. Vapor return hose shall be connected to LPG tank vapor space whenever butane is being loaded. [District NSR Rule]
6. There shall be no more than two liquid hose connects/disconnects per truck load. [District NSR Rule]
7. After completion of truck unloading, liquid lines shall be purged with nitrogen prior to disconnection. [District Rule 4624]
8. The loading and vapor collection equipment shall be maintained and operated such that there are no leaks or no excess organic liquid drainage (as defined in Rule 4624) at disconnections. [District Rule 4624]
9. Volatile organic compound (VOC) emission rate shall not exceed 18.3 lb/day. [District NSR Rule]
10. Permittee shall maintain permit accurate fugitive component counts and resulting emissions calculated using CAPCOA's "California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities," Table IV-2c (Feb 1999), Screening Value Range emission factors. [District Rule 2201]
11. The operator shall keep a copy of the APCO-approved Operator Management Plan (OMP) at the facility and make it available to the APCO, ARB and US EPA upon request. By January 30 of each year, the operator shall submit to the APCO for approval, in writing, an annual report indicating any changes to the existing, approved OMP. [District Rule 4455]
12. In accordance with the approved OMP, the operator shall meet all applicable operating, inspection and re-inspection, maintenance, process pressure relief device (PRD), component identification, recordkeeping and notification requirements of Rule 4455 for all components containing or contacting VOC at the this gas liquids processing facility, except for those components specifically exempted in Sections 4.1 and 4.2. [District Rule 4455]
13. Except for those components specified in condition 12, a component shall be considered leaking if one of more of the conditions specified in Sections 5.1.4.1 through 5.1.4.4 of the rule exist at the facility . [District Rule 4455, 5.1.4]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

14. For valves and connectors, a leak shall be defined as a reading of methane in excess of 100 ppmv above background when measured per EPA Method 21 and Maintenance Program pursuant to District Rule 4455. For pump and compressor seals, a leak shall be defined as a reading of methane in excess of 500 ppmv above background when measure per EPA Method 21 and an Inspection and Maintenance Program pursuant to District Rule 4455. [District Rule 2201]
15. All records required by this permit shall be retained for a period of at least 5 years and shall be made available to the District, ARB, and USEPA upon request. [District Rules 1070 and 4455]

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PERMIT UNIT: S-71-7-2 **EXPIRATION DATE:** 08/31/2016

SECTION: 35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:
320 BHP DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
3. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
4. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
5. 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]
6. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115, and 40 CFR 60 Subpart IIII]
7. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801, 17 CCR 93115, 40 CFR Part 60 Subpart IIII]
8. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR 60 Subpart IIII]
9. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 65 hours per year. [District Rules 2201, 4702 and 17 CCR 93115]
10. Particulate matter (PM-10) emission rate shall not exceed 0.36 lb/hr. [District Rule 2201]
11. Sulfur compound emission rate shall not exceed 0.32 lb/hr as SO2 and 0.00 lb/hr as SO4. [District Rule 2201]
12. Nitrogen oxide emission rate shall not exceed 4.94 lb/hr. [District Rule 2201]
13. Volatile organic compound (VOC) emission rate shall not exceed 0.40 lb/hr. [District Rule 2201]
14. Carbon monoxide (CO) emission rate shall not exceed 1.06 lb/hr. [District Rule 2201]
15. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

16. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115]
17. 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]

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PERMIT UNIT: S-71-8-2 **EXPIRATION DATE:** 08/31/2016

SECTION: 35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:
55 BHP NATURAL GAS-FIRED EMERGENCY STANDBY IC ENGINE POWERING A DRINKING WATER SYSTEM

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
3. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
4. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
5. 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]
6. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115, and 40 CFR 60 Subpart IIII]
7. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR 60 Subpart IIII]
8. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year. [District Rule 4702]
9. 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]
10. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702]
11. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702]
12. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702 and 17 CCR 93115]

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PERMIT UNIT: S-71-10-3 **EXPIRATION DATE:** 08/31/2016

SECTION: 35 **TOWNSHIP:** 28S **RANGE:** 25W

EQUIPMENT DESCRIPTION:
208 BHP DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
3. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
4. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
5. 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]
6. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115, and 40 CFR 60 Subpart IIII]
7. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801, 17 CCR 93115, 40 CFR Part 60 Subpart IIII]
8. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR 60 Subpart IIII]
9. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 65 hours per year. [District Rules 2201, 4701, and 4702 and 17 CCR 93115]
10. Injection timing shall be retarded to 4 degrees BTDC. [District Rule 2201]
11. Sulfur compound emission rate shall not exceed 0.06 lb/hr as SO2 and 0.09 lb/hr as SO4. [District Rule 2201]
12. Nitrogen oxide emission rate shall not exceed 3.33 lb/hr as NO2. [District Rule 2201]
13. Volatile organic compound (VOC) emission rate shall not exceed 0.27 lb/hr. [District Rule 2201]
14. Carbon monoxide (CO) emission rate shall not exceed 0.72 lb/hr. [District Rule 2201]
15. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

16. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115]
17. 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]

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-71-12-6 **EXPIRATION DATE:** 08/31/2016

SECTION: 35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:
RAILCAR LPG/NATURAL GASOLINE LOADING/UNLOADING OPERATION WITH FIFTEEN LPG/NATURAL GASOLINE LOADING/UNLOADING STATIONS INCLUDING: ELEVATED RACK SYSTEM UTILIZING HARD PIPING AND SWIVEL JOINTS; AND NITROGEN PURGE SYSTEM SERVING LIQUID LINES, COMPRESSOR SEALS, AND COMPRESSOR CRANKCASES

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
3. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
4. Operation shall include 15 railcar loading/unloading stations each equipped with two (2) liquid lines and one (1) vapor return line for a total of 45 loading arms with 225 swivel joints. [District Rule 2201]
5. The nitrogen purge system serving the liquid lines shall be a closed loop system and shall not vent to the atmosphere during operation of the system. [District Rule 2201]
6. The nitrogen purge system serving the compressor seals and compressor crankcases shall vent through two activated charcoal canisters connected in series, except during scheduled maintenance or repair activities. During repair and maintenance (such as charcoal bed change out) VOC emissions shall be minimized to the fullest extent possible. [District Rule 2201]
7. The nitrogen purge system's used activated charcoal canisters shall be handled and disposed of in sealed containers, preventing VOC emissions to the fullest extent possible. [District Rule 2201]
8. The nitrogen purge system's activated charcoal canisters shall be replaced to maintain the VOC concentration from the canister vent less than 4,500 ppmv-VOC or periodically as recommended by the manufacturer, whichever occurs first. [District Rule 2201]
9. Operation shall include three vapor compressors equipped with knock-out vessels and not exceeding 100 hp each, three compressor knock-out drum pumps, and five turbine pumps. [District Rule 2201]
10. Fugitive VOC emissions from valves, flanges, connectors, pump seals, and other fugitive components associated with this permit unit shall not exceed 67.8 lb/day. [District Rule 2201]
11. Maximum VOC emissions from railcar loading/unloading (vapor and liquid losses combined) operation shall not exceed 2.3 lb/day. [District Rule 2201]
12. The permittee shall maintain with the permit accurate fugitive component counts and resulting emissions calculated using "California Implementation Guidelines for estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities", Oil and Gas Production Operations Screening Value Ranges Emission Factors Table IV-2c Feb 1999. [District Rule 2201]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13. The permittee shall comply with all inspection, maintenance, testing, and recordkeeping requirements of Rules 4624 for the organic liquid loading operation. [District Rule 4624]
14. The loading racks shall be equipped with a vapor return system consisting of vapor and condensate collection systems capable of reducing VOC emissions by at least 95%. [District Rule 2201]
15. There shall be no more than 120 liquid hose connects/disconnects in any one day. [District Rule 2201]
16. There shall be no more than 60 vapor hose connect/disconnect in any one day. [District Rule 2201]
17. Permittee shall keep accurate records of railcar loadings/unloadings, connects/disconnects, and liquid types. [District Rule 1070]
18. Records required by this permit shall be retained on site for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 1070]
19. The operator shall keep a copy of the APCO-approved Operator Management Plan (OMP) at the facility and make it available to the APCO, ARB and US EPA upon request. By January 30 of each year, the operator shall submit to the APCO for approval, in writing, an annual report indicating any changes to the existing, approved OMP. [District Rule 4455]
20. In accordance with the approved OMP, the operator shall meet all applicable operating, inspection and re-inspection, maintenance, process pressure relief device (PRD), component identification, recordkeeping and notification requirements of Rule 4455 for all components containing or contacting VOC at the this gas liquids processing facility, except for those components specifically exempted in Sections 4.1 and 4.2. [District Rule 4455]
21. Except for those components specified in condition 20, a component shall be considered leaking if one of more of the conditions specified in Sections 5.1.4.1 through 5.1.4.4 of the rule exist at the facility . [District Rule 4455, 5.1.4]
22. For valves and connectors, a leak shall be defined as a reading of methane in excess of 100 ppmv above background when measured per EPA Method 21 and Maintenance Program pursuant to District Rule 4455. For pump and compressor seals, a leak shall be defined as a reading of methane in excess of 500 ppmv above background when measure per EPA Method 21 and an Inspection and Maintenance Program pursuant to District Rule 4455. [District Rule 2201]
23. All records required by this permit shall be retained for a period of at least 5 years and shall be made available to the District, ARB, and USEPA upon request. [District Rules 1070 and 4455]

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-71-14-10 **EXPIRATION DATE:** 08/31/2016

SECTION: SW35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:
BUTAMER-BUTANE ISOMERIZATION UNIT #2 WITH 105 MMBTU/HR GAS-FIRED HOT OIL HEATER H-202 EQUIPPED WITH CALLIDUS MODEL CUBR-12W LOW-NOX BURNERS AND INTERNAL FGR, WITH NITROGEN PURGE SYSTEM SERVING COMPRESSOR SEALS AND COMPRESSOR CRANKCASES

PERMIT UNIT REQUIREMENTS

1. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
2. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
3. Operation shall include deisobutanizer tower T-202, stabilizer tower V-503, caustic scrubber tower V-110A, two butamer reactor vessels V-501 A/B, stabilizer receiver vessel V-502, and deisobutanizer overhead accumulator vessel V-203. [District Rule 2201]
4. Operation shall include seventeen shell & tube heat exchangers, four air-cooled heat exchangers, 350 hp recycle gas compressor C-401, and 20 hp emergency vent drum vapor compressor C-501. [District Rule 2201]
5. Perchloroethylene shall be received, stored, and transferred using a pressurized and/or enclosed system shared with permit unit #S-71-4. [District Rule 2201]
6. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of fuel gas combusted in the unit shall be installed, utilized and maintained. [District Rule 2201]
7. Fuel gas combusted in fired equipment may be comprised of process off-gas (including hydrogen), propane, butane, natural gas, or any combination thereof. [District Rule 2201]
8. The heating value of the fuel gas (Btu/scf @ the hhv) combusted in fired equipment shall be determined by sample analysis at least annually. Results of sample analysis shall be retained on site and made available for District inspection upon request. [District Rule 2201]
9. Total heat input of fuel gas combusted in units S-71-4, '5, '14 and '15 shall not exceed 1,602,019 MMBtu/yr. [District Rule 2201]
10. The nitrogen purge system serving the liquid lines shall be a closed loop system and shall not vent to the atmosphere during operation of the system. [District Rule 2201]
11. The nitrogen purge system serving the compressor seals and compressor crankcases shall vent through two activated charcoal canisters connected in series, except during scheduled maintenance or repair activities. During repair and maintenance (such as charcoal bed change out) VOC emissions shall be minimized to the fullest extent possible. [District Rule 2201]
12. The nitrogen purge system's used activated charcoal canisters shall be handled and disposed of in sealed containers, preventing VOC emissions to the fullest extent possible. [District Rule 2201]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13. The nitrogen purge system's activated charcoal canisters shall be replaced to maintain the VOC concentration from the canister vent less than 4,500 ppmv-VOC or periodically as recommended by the manufacturer, whichever occurs first. [District Rule 2201]
14. Maximum fugitive VOC emissions from permits #S-71-14 and '-15 shall not exceed 63.2 lb per day. [District Rule 2201]
15. Permittee shall maintain permit accurate fugitive component counts and resulting emissions calculated using CAPCOA's "California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities," February 1999, Table IV-2c: CAPCOA Oil and Gas Production Screening Value Range Emission Factors. [District Rule 2201]
16. Emission rates shall not exceed any of the following: PM10: 0.0137 lb/MMBtu; NOx (as NO2): 25 ppmv @ 3% O2; SOx (as SO2): 0.0006 lb MMBtu; VOC: 0.00141 lb/MMBtu; or CO: 50 ppmv @ 3% O2. [District Rule 2201]
17. Process oil heater stack shall be equipped with sampling facilities for source testing in accordance with the provisions of Rule 1081 (Source Sampling). [District Rule 1081]
18. The emission control systems shall be in operation and emissions shall be minimized insofar as technologically feasible during startup and shutdown. [District Rules 4305 & 4306]
19. The duration of each startup and shutdown period for the 105 MMBtu/hr gas-fired hot oil heater shall not exceed 5.5 hours and 2.0 hours respectively. Emission limits of Rules 4305 and 4306 are waived during periods of startup and shutdown. [District Rules 4305 & 4306]
20. The permittee shall maintain records of the duration of each startup period for the 105 MMBtu/hr gas-fired hot oil heater. [District Rules 4305 & 4306]
21. The stack concentration of NOx (as NO2), CO, and O2 shall be measured at least on a monthly basis using District approved portable analyzers. [District Rules 4305 and 4306]
22. The permittee shall maintain records of the date and time of NOx, CO, and O2 measurements, the measured NO2 and CO concentrations corrected to 3% O2, and the O2 concentration. The records shall also include a description of any corrective action taken to maintain the emissions in the acceptable range. These records shall be retained at the facility for a period of no less than five years and shall be made readily available for District inspection upon request. [District Rules 1070, 4305 and 4306]
23. If the NOx and/or CO concentrations, as measured by the portable analyzer, exceed the permitted emission limits, the permittee or third party shall notify the District and return the NOx and CO concentrations to the permitted emission limits as soon as possible but no longer than one (1) hour after detection. If the portable analyzer readings continue to exceed the permitted emission limits after (1) hour, the permittee shall conduct a source test within 60 days, of the first exceedance to demonstrate compliance with the permitted emission limits. [District Rules 4305 and 4306]
24. District witnessed compliance source testing for NOx, CO, and SOx emission limits shall be conducted at least once every 12 months, except as provided below. [District Rules 2201, 4305 and 4306]
25. District witnessed source testing to demonstrate compliance with NOx, CO, and SOx emission limits shall be conducted not less than once every 36 months if compliance is demonstrated on two consecutive annual tests. [District Rules 2201, 4305 and 4306]
26. If permittee fails any compliance demonstration for NOx, CO, or SOx emission limits when testing not less than once every 36 months, compliance with NOx, CO, and SOx emission limits shall be demonstrated not less than once every 12 months. [District Rules 2201, 4305 and 4306]
27. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081]
28. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081]
29. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

30. For the purposes of source testing, the following test methods shall be used: NOx (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, SOx (lb/MMBtu) - EPA Method 19, and stack gas oxygen - EPA Method 3 or 3A or ARB Method 100. [District Rules 1081, 4305 and 4306]

31. When the LPG supply source for make up fuel to the fuel gas system changes, the stack concentrations of NOx, CO, and O2 shall be measured with a District approved portable analyzer to verify emissions compliance. This is to be done anytime that LPG is being vaporized to supply make up fuel to the fuel gas system. [District Rule 2201, 4301, 4305 and 4306]

32. Permittee shall maintain accurate records of perchloroethylene usage, fuel gas heating value and daily, monthly and yearly records of fuel gas use. [District Rules1070 and 2201]

33. Permittee shall maintain accurate monthly records of the combined fuel gas combusted in units S-71-4, '5, '14 and '15. [District Rules 1070 and 2201]

34. The operator shall keep a copy of the APCO-approved Operator Management Plan (OMP) at the facility and make it available to the APCO, ARB and US EPA upon request. By January 30 of each year, the operator shall submit to the APCO for approval, in writing, an annual report indicating any changes to the existing, approved OMP. [District Rule 4455]

35. In accordance with the approved OMP, the operator shall meet all applicable operating, inspection and re-inspection, maintenance, process pressure relief device (PRD), component identification, recordkeeping and notification requirements of Rule 4455 for all components containing or contacting VOC at the this gas liquids processing facility, except for those components specifically exempted in Sections 4.1 and 4.2. [District Rule 4455]

36. Except for those components specified in condition 32, a component shall be considered leaking if one of more of the conditions specified in Sections 5.1.4.1 through 5.1.4.4 of the rule exist at the facility . [District Rule 4455, 5.1.4]

37. For valves and connectors, a leak shall be defined as a reading of methane in excess of 100 ppmv above background when measured per EPA Method 21 and Maintenance Program pursuant to District Rule 4455. For pump and compressor seals, a leak shall be defined as a reading of methane in excess of 500 ppmv above background when measure per EPA Method 21 and an Inspection and Maintenance Program pursuant to District Rule 4455. [District Rule 2201]

38. All records required by this permit shall be retained for a period of at least 5 years and shall be made available to the District, ARB, and USEPA upon request. [District Rules 1070 and 4455]

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PERMIT UNIT: S-71-15-8 **EXPIRATION DATE:** 08/31/2016

SECTION: SW35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:
SAFECAT FEEDSTOCK TREATMENT UNIT WITH 23 MMBTU/HR GAS-FIRED HEATER H-401 EQUIPPED WITH CALLIDUS MODEL CUBR-8P LOW-NOX BURNERS AND INTERNAL FGR

PERMIT UNIT REQUIREMENTS

1. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
2. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
3. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
4. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of fuel gas combusted in the unit shall be installed, utilized and maintained. [District Rule 2201]
5. Operation shall include SafeCat feed surge drum V-401, SafeCat reactor vessel V-402, SafeCat product separator vessel V-403, depropanizer receiver boot V-7, sulfur injection drum V-407, and three SafeCat adsorber vessels V-405 A/B/C. [District Rule 2201]
6. Operation shall include two SulfaTreat adsorber vessels V-102 A/B, SafeCat Feed prefilter vessel F-401, five shell & tube heat exchangers, and air-cooled heat exchanger. [District Rule 2201]
7. SafeCat feedstock treatment system gas shall be routed only to SafeCat feed stream or SulfaTreat sulfur removal equipment prior to introduction into facility fuel gas system. [District Rule 2201]
8. No on-site regeneration of SulfaTreat chemical is authorized. [District Rule 2201]
9. Gas combusted in fired equipment may be comprised of process off-gas (including hydrogen), propane, butane, natural gas, or any combination thereof. [District Rule 2201]
10. The heating value of the fuel gas (Btu/scf @ the hhv) combusted in fired equipment shall be determined by sample analysis at least annually. Results of sample analysis shall be retained on site and made available for District inspection upon request. [District Rule 2201]
11. Total heat input of fuel gas combusted in units S-71-4, '5, '14 and '15 shall not exceed 1,602,019 MM Btu/yr. [District Rule 2201]
12. Leaks from valves, connectors, and other components (not including pump and compressor seals) subject to a BACT requirement and subject to the provisions of Rule 4455 shall be defined as a reading of methane on a portable hydrocarbon detection instrument in excess of 100 ppmv above background when measured as close as possible but not greater than one (1) cm from the potential source. [District Rule 2201]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13. Leaks from pump and compressor seals subject to a BACT requirement and subject to the provisions of Rule 4455 shall be defined as a reading of methane on a portable hydrocarbon detection instrument in excess of 500 ppmv above background when measured as close as possible but not greater than one (1) cm from potential source. [District Rule 2201]
14. Maximum fugitive VOC emissions from permits #S-71-14 and '-15 shall not exceed 63.2 lb per day. [District Rule 2201]
15. Permittee shall maintain permit accurate fugitive component counts and resulting emissions calculated using CAPCOA's "California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities," February 1999, Table IV-2c: CAPCOA Oil and Gas Production Screening Value Range Emission Factors. [District Rule 2201]
16. Emission rates shall not exceed any of the following: PM10: 0.0137 lb/MMBtu; NOx (as NO2): 25 ppmv @ 3% O2; SOx (as SO2): 0.0006 lb MMBtu; VOC: 0.00279 lb/MMBtu; or CO: 50 ppmv @ 3% O2. [District Rule 2201]
17. SafeCat heater stack shall be equipped with sampling facilities for source testing in accordance with the provisions of Rule 1081 (Source Sampling). [District Rule 1081]
18. The emission control systems shall be in operation and emissions shall be minimized insofar as technologically feasible during startup and shutdown. [District Rules 4305 & 4306]
19. The duration of each startup and shutdown period for the 23 MMBtu/hr gas-fired heater shall not exceed 7.7 hours and 2.0 hours respectively. Emission limits of Rules 4305 and 4306 are waived during periods of startup and shutdown. [District Rules 4305 & 4306]
20. The permittee shall maintain records of the duration of each startup period for the 23 MMBtu/hr gas-fired heater. [District Rules 4305 & 4306]
21. The permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every month using a portable emission monitor. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month. [District Rules 4305 and 4306]
22. If the NOx and/or CO concentrations corrected to 3% O2, as measured by the portable analyzer, exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rules 4305 and 4306]
23. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 3% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4305 and 4306]
24. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081]
25. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081]
26. This unit shall be tested for compliance with the NOx, CO, and SOx emissions limits at least once every 12 months. After demonstrating compliance on two consecutive annual source tests, the unit shall be tested not less than once every thirty-six months. [District Rules 2201, 4305 and 4306]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

27. NOx emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. NOx emissions during the source test shall be calculated as the arithmetic average of three 30-consecutive-minute test runs. [District Rules 4305 and 4306]
28. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. CO emissions during the source test shall be calculated as the arithmetic average of three 30-consecutive-minute test runs. [District Rules 4305 and 4306]
29. SOx emissions for source test purposes shall be determined using EPA Method 19. [District Rule 1081]
30. Stack gas oxygen for source test purposes shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305 and 4306]
31. If permittee fails any compliance demonstration for NOx, CO, or SOx emission limits when testing not less than once every 36 months, compliance with NOx, CO, and SOx emission limits shall be demonstrated not less than once every 12 months. [District Rules 2201, 4305 and 4306]
32. When the LPG supply source for make up fuel to the fuel gas system changes, the stack concentrations of NOx, CO, and O2 shall be measured with a District approved portable analyzer to verify emissions compliance. This is to be done anytime that LPG is being vaporized to supply make up fuel to the fuel gas system. [District Rule 2201, 4301, 4305 and 4306]
33. Permittee shall maintain accurate records of perchloroethylene usage, fuel gas heat input, and daily, monthly and yearly records of fuel gas use. [District Rules 1070 and 2201]
34. Permittee shall maintain accurate monthly records of the combined heat input of the fuel gas combusted in units S-71-4, '5, '14 and '15. [District Rules 1070 and 2201]
35. The operator shall keep a copy of the APCO-approved Operator Management Plan (OMP) at the facility and make it available to the APCO, ARB and US EPA upon request. By January 30 of each year, the operator shall submit to the APCO for approval, in writing, an annual report indicating any changes to the existing, approved OMP. [District Rule 4455]
36. In accordance with the approved OMP, the operator shall meet all applicable operating, inspection and re-inspection, maintenance, process pressure relief device (PRD), component identification, recordkeeping and notification requirements of Rule 4455 for all components containing or contacting VOC at the this gas liquids processing facility, except for those components specifically exempted in Sections 4.1 and 4.2. [District Rule 4455]
37. Except for those components specified in condition 36, a component shall be considered leaking if one of more of the conditions specified in Sections 5.1.4.1 through 5.1.4.4 of the rule exist at the facility . [District Rule 4455, 5.1.4]
38. For valves and connectors, a leak shall be defined as a reading of methane in excess of 100 ppmv above background when measured per EPA Method 21 and Maintenance Program pursuant to District Rule 4455. For pump and compressor seals, a leak shall be defined as a reading of methane in excess of 500 ppmv above background when measured per EPA Method 21 and an Inspection and Maintenance Program pursuant to District Rule 4455. [District Rule 2201]
39. All records required by this permit shall be retained for a period of at least 5 years and shall be made available to the District, ARB, and USEPA upon request. [District Rules 1070 and 4455]

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PERMIT UNIT: S-71-17-1 **EXPIRATION DATE:** 08/31/2016

SECTION: SW35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:
267 BHP CATERPILLAR MODEL 3306 DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
3. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
4. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
5. 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]
6. The engine shall be equipped with a turbocharger and with an aftercooler or intercooler. [District NSR Rule]
7. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115, and 40 CFR 60 Subpart IIII]
8. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801, 17 CCR 93115, 40 CFR Part 60 Subpart IIII]
9. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR 60 Subpart IIII]
10. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 65 hours per year. [District Rules 2201, 4701, and 4702 and 17 CCR 93115]
11. Emissions rates from this engine shall not exceed NOx, 4.24 lb/hr; PM10, 0.59 lb/hr; CO, 1.78 lb/hr or VOC, 0.67 lb/hr. [District Rule 2201]
12. Operation of the engine shall not exceed 23 hours per day. [District Rule 2201]
13. 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]
14. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

15. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702 and 17 CCR 93115]

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PERMIT UNIT: S-71-18-0 **EXPIRATION DATE:** 08/31/2016

SECTION: SW35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:
14,544 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #1

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
3. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
4. Tank shall be maintained under working pressure sufficient at all times to prevent organic liquid loss or VOC loss to the atmosphere. [District Rule 4623]
5. Equipment shall be maintained gas tight and liquid leak free as defined in Rule 4451. [District Rule 4451]
6. Fugitive emission components shall be monitored and maintained pursuant to Rule 4451. [District Rule 4451]
7. All records shall be retained for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070]

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PERMIT UNIT: S-71-19-0 **EXPIRATION DATE:** 08/31/2016

SECTION: SW35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:
14,544 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #2

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
3. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
4. Tank shall be maintained under working pressure sufficient at all times to prevent organic liquid loss or VOC loss to the atmosphere. [District Rule 4623]
5. Equipment shall be maintained gas tight and liquid leak free as defined in Rule 4451. [District Rule 4451]
6. Fugitive emission components shall be monitored and maintained pursuant to Rule 4451. [District Rule 4451]
7. All records shall be retained for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070]

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PERMIT UNIT: S-71-20-0 **EXPIRATION DATE:** 08/31/2016

SECTION: SW25 **TOWNSHIP:** 28E **RANGE:** 25E

EQUIPMENT DESCRIPTION:
16,505 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #3

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
3. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
4. Tank shall be maintained under working pressure sufficient at all times to prevent organic liquid loss or VOC loss to the atmosphere. [District Rule 4623]
5. Equipment shall be maintained gas tight and liquid leak free as defined in Rule 4451. [District Rule 4451]
6. Fugitive emission components shall be monitored and maintained pursuant to Rule 4451. [District Rule 4451]
7. All records shall be retained for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070]

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-71-21-0 **EXPIRATION DATE:** 08/31/2016

SECTION: SW35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:
15,000 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #4

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
3. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
4. Tank shall be maintained under working pressure sufficient at all times to prevent organic liquid loss or VOC loss to the atmosphere. [District Rule 4623]
5. Equipment shall be maintained gas tight and liquid leak free as defined in Rule 4451. [District Rule 4451]
6. Fugitive emission components shall be monitored and maintained pursuant to Rule 4451. [District Rule 4451]
7. All records shall be retained for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070]

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-71-22-0 **EXPIRATION DATE:** 08/31/2016

SECTION: SW35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:
15,249 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #5

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
3. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
4. Tank shall be maintained under working pressure sufficient at all times to prevent organic liquid loss or VOC loss to the atmosphere. [District Rule 4623]
5. Equipment shall be maintained gas tight and liquid leak free as defined in Rule 4451. [District Rule 4451]
6. Fugitive emission components shall be monitored and maintained pursuant to Rule 4451. [District Rule 4451]
7. All records shall be retained for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070]

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-71-23-0 **EXPIRATION DATE:** 08/31/2016

SECTION: SW35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:
15,187 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #6

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
3. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
4. Tank shall be maintained under working pressure sufficient at all times to prevent organic liquid loss or VOC loss to the atmosphere. [District Rule 4623]
5. Equipment shall be maintained gas tight and liquid leak free as defined in Rule 4451. [District Rule 4451]
6. Fugitive emission components shall be monitored and maintained pursuant to Rule 4451. [District Rule 4451]
7. All records shall be retained for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070]

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-71-24-0 **EXPIRATION DATE:** 08/31/2016

SECTION: SW35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:
98,913 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #64

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
3. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
4. Tank shall be maintained under working pressure sufficient at all times to prevent organic liquid loss or VOC loss to the atmosphere. [District Rule 4623]
5. Equipment shall be maintained gas tight and liquid leak free as defined in Rule 4451. [District Rule 4451]
6. Fugitive emission components shall be monitored and maintained pursuant to Rule 4451. [District Rule 4451]
7. All records shall be retained for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070]

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-71-25-0 **EXPIRATION DATE:** 08/31/2016

SECTION: SW35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:
98,913 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #65

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
3. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
4. Tank shall be maintained under working pressure sufficient at all times to prevent organic liquid loss or VOC loss to the atmosphere. [District Rule 4623]
5. Equipment shall be maintained gas tight and liquid leak free as defined in Rule 4451. [District Rule 4451]
6. Fugitive emission components shall be monitored and maintained pursuant to Rule 4451. [District Rule 4451]
7. All records shall be retained for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070]

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-71-26-0 **EXPIRATION DATE:** 08/31/2016

SECTION: SW35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:
98,913 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #66

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
3. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
4. Tank shall be maintained under working pressure sufficient at all times to prevent organic liquid loss or VOC loss to the atmosphere. [District Rule 4623]
5. Equipment shall be maintained gas tight and liquid leak free as defined in Rule 4451. [District Rule 4451]
6. Fugitive emission components shall be monitored and maintained pursuant to Rule 4451. [District Rule 4451]
7. All records shall be retained for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070]

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-71-27-0 **EXPIRATION DATE:** 08/31/2016

EQUIPMENT DESCRIPTION:
108,047 GALLON NATURAL GASOLINE/LPG STORAGE TANK

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
3. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
4. Tank shall be maintained under working pressure sufficient at all times to prevent organic liquid loss or VOC loss to the atmosphere (required to be considered exempt from Rule 4623). [District Rule 4623]
5. Equipment shall be maintained gas tight and liquid leak free as defined in Rule 4451. [District Rule 4451]
6. Fugitive emission components shall be monitored and maintained pursuant to Rule 4451. [District Rule 4451]
7. Volatile organic compound (VOC) emission rate shall not exceed 0.07 lbs/day. [District Rule 2201]
8. Permittee shall maintain permit accurate fugitive component counts and resulting emissions calculated using CAPCOA's "California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities," Table IV-2c (Feb 1999), Screening Value Range emission factors. [District Rule 2201]
9. Gas compressor seals and pump seals shall have no vapor leaks in excess of 10,000 ppmv above background when measured with a portable hydrocarbon detection instrument calibrated with methane in accordance with EPA Method 21. Gas compressor seals and pump seals shall have no leak of VOC in excess of 3 drops per minute. [District Rules 2201 and 4452]
10. Fugitive piping components shall be have no vapor leaks in excess of 10,000 ppmv above background when measured with a portable hydrocarbon detection instrument calibrated with methane in accordance with EPA Method 21. Fugitive components shall have no leak of VOC in excess of 3 drops per minute. [District Rules 2201 and 4451]

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-71-28-0 **EXPIRATION DATE:** 08/31/2016

EQUIPMENT DESCRIPTION:
108,047 GALLON NATURAL GASOLINE/LPG STORAGE TANK

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
3. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
4. Tank shall be maintained under working pressure sufficient at all times to prevent organic liquid loss or VOC loss to the atmosphere (required to be considered exempt from Rule 4623). [District Rule 4623]
5. Equipment shall be maintained gas tight and liquid leak free as defined in Rule 4451. [District Rule 4451]
6. Fugitive emission components shall be monitored and maintained pursuant to Rule 4451. [District Rule 4451]
7. Volatile organic compound (VOC) emission rate shall not exceed 0.07 lbs/day. [District Rule 2201]
8. Permittee shall maintain permit accurate fugitive component counts and resulting emissions calculated using CAPCOA's "California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities," Table IV-2c (Feb 1999), Screening Value Range emission factors. [District Rule 2201]
9. Gas compressor seals and pump seals shall have no vapor leaks in excess of 10,000 ppmv above background when measured with a portable hydrocarbon detection instrument calibrated with methane in accordance with EPA Method 21. Gas compressor seals and pump seals shall have no leak of VOC in excess of 3 drops per minute. [District Rules 2201 and 4452]
10. Fugitive piping components shall be have no vapor leaks in excess of 10,000 ppmv above background when measured with a portable hydrocarbon detection instrument calibrated with methane in accordance with EPA Method 21. Fugitive components shall have no leak of VOC in excess of 3 drops per minute. [District Rules 2201 and 4451]

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-71-29-0 **EXPIRATION DATE:** 08/31/2016

EQUIPMENT DESCRIPTION:
DISTILLATION OPERATION INCLUDING MIXED USE DEISOBUTANIZER/DEBUTANIZER COLUMN, UNFIRED REBOILER, AND VARIOUS EXCHANGERS, PUMPS, AND APPURTENANCES

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
3. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
4. All VOC sampling connections, open-ended valves, and lines shall be equipped with two closed valves or be sealed with blind flanges, caps, or threaded plugs except during actual use. [District Rule 2201]
5. Process heat shall only be supplied by hot oil heating systems listed on S-71-4, '5 or '14. [District Rule 2201]
6. Only heat transfer fluid manufactured and marketed for such use shall be used in a closed loop as heat transfer medium. [District Rule 2201]
7. Fugitive VOC emission rate shall not exceed 9.4 pounds per day. [District Rule 2201]
8. Permittee shall maintain permit accurate fugitive component counts and resulting emissions calculated using CAPCOA's "California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities," February 1999, Table IV-2c: CAPCOA Oil and Gas Production Screening Value Range Emission Factors. [District Rule 2201]
9. The operator shall keep a copy of the APCO-approved Operator Management Plan (OMP) at the facility and make it available to the APCO, ARB and US EPA upon request. By January 30 of each year, the operator shall submit to the APCO for approval, in writing, an annual report indicating any changes to the existing, approved OMP. [District Rule 4455]
10. In accordance with the approved OMP, the operator shall meet all applicable operating, inspection and re-inspection, maintenance, process pressure relief device (PRD), component identification, recordkeeping and notification requirements of Rule 4455 for all components containing or contacting VOC at the this gas liquids processing facility, except for those components specifically exempted in Sections 4.1 and 4.2. [District Rule 4455]
11. Except for those components specified in the below condition, a component shall be considered leaking if one of more of the conditions specified in Sections 5.1.4.1 through 5.1.4.4 of the rule exist at the facility . [District Rule 4455, 5.1.4]
12. For valves and connectors, a leak shall be defined as a reading of methane in excess of 100 ppmv above background when measured per EPA Method 21 and Maintenance Program pursuant to District Rule 4455. For pump and compressor seals, a leak shall be defined as a reading of methane in excess of 500 ppmv above background when measure per EPA Method 21 and an Inspection and Maintenance Program pursuant to District Rule 4455. [District Rule 2201]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13. All records required by this permit shall be retained for a period of at least 5 years and shall be made available to the District, ARB, and USEPA upon request. [District Rules 1070, 2201 and 4455]

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-71-30-0 **EXPIRATION DATE:** 08/31/2016

EQUIPMENT DESCRIPTION:
21,000 GPM MECHANICAL DRAFT COOLING TOWER WITH HIGH EFFICIENCY CELLULAR TYPE DRIFT ELIMINATOR, FOUR 450 BHP CIRCULATION PUMPS, AND TDS CONTROL SYSTEM

PERMIT UNIT REQUIREMENTS

1. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
2. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
3. No hexavalent chromium containing compounds shall be added to cooling tower circulating water. [District Rule 4102]
4. Cooling tower drift shall not exceed 0.001%. [District Rule 2201]
5. Control system shall maintain total dissolved solids (TDS) in cooling tower water less than 5.0 g/l. [District Rule 2201]
6. Recirculating water flow rate shall not exceed 21,000 gallons per minute. [District Rule 2201]
7. Compliance with recirculating water rate limit shall be demonstrated by engineering calculations using manufacturer's pump data, cooling water system pressure, and pump discharge pressure as applicable. [District Rule 2201]
8. Compliance with the TDS limit will be demonstrated by cooling water sample analysis by independent laboratory within 60 days of initial operation, and by monthly analysis by cooling tower chemical vendor or internal laboratory. [District Rule 1081]
9. Records of cooling tower water TDS and manufacturer's pump data, cooling water system pressure, pump discharge pressure, etc. and resulting engineering calculations of cooling tower water flow rate shall be kept at the facility and made readily available for District inspection upon request for 5 years. [District Rule 2201]