



AUG 04 2011

Mr. John Grubber
Chevron USA Inc
PO Box 1392
Bakersfield, CA 93302

**Re: Notice of Preliminary Decision - ATC / Certificate of Conformity
Facility # S-1128
Project # S-1110599**

Dear Mr. Grubber:

Enclosed for your review and comment is the District's analysis of an application for Authorities to Construct for Chevron USA Inc in western Kern county, CA. Chevron has requested to increase the throughput of four baker tanks.

After addressing all comments made during the 30-day public notice and the 45-day EPA comment periods, the Authorities to Construct will be issued to the facility with Certificates of Conformity. Prior to operating with modifications authorized by the Authorities to Construct, the facility must submit an application to modify the Title V permit as an administrative amendment, in accordance with District Rule 2520, Section 11.5.

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

If you have any questions, please contact Mr. Leonard Scandura, Permit Services Manager, at (661) 392-5500.

Thank you for your cooperation in this matter.

Sincerely,

David Warner
Director of Permit Services

Enclosures

DW: ST/cm

Seyed Sadredin
Executive Director/Air Pollution Control Officer

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

Central Region (Main Office)
1990 E. Gettysburg Avenue
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Southern Region
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AUG 04 2011

Gerardo C. Rios, Chief
Permits Office
Air Division
U.S. EPA - Region IX
75 Hawthorne St.
San Francisco, CA 94105

Re: Notice of Preliminary Decision - ATC / Certificate of Conformity
Facility # S-1128
Project # S-1110599

Dear Mr. Rios:

Enclosed for your review is the District's engineering evaluation of an application for Authorities to Construct for Chevron USA Inc in western Kern county, CA, which has been issued a Title V permit. Chevron USA Inc is requesting that Certificates of Conformity, with the procedural requirements of 40 CFR Part 70, be issued with this project. Chevron has requested to increase the throughput of four baker tanks.

Enclosed is the engineering evaluation of this application, along with the current Title V permit, and proposed Authorities to Construct # S-1128-974-2, '975-2, '976-2, and '977-2 with Certificates of Conformity. After demonstrating compliance with the Authority to Construct, the conditions will be incorporated into the facility's Title V permit through an administrative amendment.

Please submit your written comments on this project within the 45-day comment period that begins on the date you receive this letter. If you have any questions, please contact Mr. Leonard Scandura, Permit Services Manager, at (661) 392-5500.

Thank you for your cooperation in this matter.

Sincerely,



David Warner
Director of Permit Services

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AUG 04 2011

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

Re: **Notice of Preliminary Decision - ATC / Certificate of Conformity**
Facility # S-1128
Project # S-1110599

Dear Mr. Tollstrup:

Enclosed for your review and comment is the District's analysis of an application for Authorities to Construct for Chevron USA Inc in western Kern county, CA. Chevron has requested to increase the throughput of four baker tanks.

The public notice will be published approximately three days from the date of this letter. Please submit your written comments within the 30-day public 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, please contact Mr. Leonard Scandura, Permit Services Manager, at (661) 392-5500.

Thank you for your cooperation in this matter.

Sincerely,



David Warner
Director of Permit Services

Enclosures

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**NOTICE OF PRELIMINARY DECISION
FOR THE ISSUANCE OF AUTHORITY TO CONSTRUCT AND
THE PROPOSED MINOR MODIFICATION OF FEDERALLY
MANDATED OPERATING PERMIT**

NOTICE IS HEREBY GIVEN that the San Joaquin Valley Air Pollution Control District solicits public comment on the proposed issuance of Authority To Construct to Chevron USA Inc for its heavy oil facility in western Kern county, California. Chevron has requested to increase the throughput of four baker tanks.

The analysis of the regulatory basis for these proposed actions, Project #S-1110599, is available for public inspection at http://www.valleyair.org/notices/public_notices_idx.htm and the District office at the address below. 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, CA 93726-0244.**

California Code of Regulations, Title 14, Division 6, Chapter 3, Sections 15000-15387: CEQA Guidelines

III. Project Location

The equipment will be authorized to operate at various unspecified locations within CUSA's Heavy Oil Western stationary source. However, Chevron has requested the District to evaluate the tanks at the following site locations as specified by the listed latitude and longitude coordinates:

<u>Location</u>	<u>(latitude, longitude)</u>
1Y Gage Setting 17 -----	(35.35312, -119.66393)
31X Oil Cleaning Plant -----	(35.35543, -119.65096),
the McKittrick Diatomite GS -----	(35.30953, -119.6431)
the McKittrick Station L -----	(35.31352, -119.65715),
1Y Gage Setting 5 -----	(35.355, -119.66833),
1Y Gage Setting 3 -----	(35.3373, -119.6628),
1Y South Steam Plant -----	(35.33833, -119.6683):

The equipment will not be located within 1,000 feet of the outer boundary of a K-12 school. Therefore, the public notification requirement of California Health and Safety Code 42301.6 is not applicable to this project.

IV. Process Description

The proposed baker tanks will typically be used for spill/overflow protection and the handling of fluids from "housekeeping" drains and pressure drains when maintenance and/or construction activities at a given location are expected to take longer than six months.

V. Equipment Listing

Pre-Project Equipment Description:

- S-1128-974-1: UP TO 500 BBL FIXED ROOF CRUDE OIL DRAIN TANK WITH PV VALVE, AUTHORIZED TO OPERATE AT VARIOUS UNSPECIFIED LOCATIONS WITHIN THE HEAVY OIL WESTERN STATIONARY SOURCE (CAN BE OWNED BY PERMITTEE OR RENTED ON AN AS-NEEDED BASIS)
- S-1128-975-1: UP TO 500 BBL FIXED ROOF CRUDE OIL DRAIN TANK WITH PV VALVE, AUTHORIZED TO OPERATE AT VARIOUS UNSPECIFIED LOCATIONS WITHIN THE HEAVY OIL WESTERN STATIONARY SOURCE (CAN BE OWNED BY PERMITTEE OR RENTED ON AN AS-NEEDED BASIS)
- S-1128-976-1: UP TO 500 BBL FIXED ROOF CRUDE OIL DRAIN TANK WITH PV VALVE, AUTHORIZED TO OPERATE AT VARIOUS UNSPECIFIED

LOCATIONS WITHIN THE HEAVY OIL WESTERN STATIONARY SOURCE
(CAN BE OWNED BY PERMITTEE OR RENTED ON AN AS-NEEDED
BASIS)

S-1128-977-1: UP TO 500 BBL FIXED ROOF CRUDE OIL DRAIN TANK WITH
PV VALVE, AUTHORIZED TO OPERATE AT VARIOUS UNSPECIFIED
LOCATIONS WITHIN THE HEAVY OIL WESTERN STATIONARY SOURCE
(CAN BE OWNED BY PERMITTEE OR RENTED ON AN AS-NEEDED
BASIS)

Proposed Modification:

- Increase the daily throughput for all tanks from 750 bbl/day to 3,000 bbls/day.
- Increase tanks S-1128-974 and '-975 annual throughput to 293,825 bbls/year.
- Create a Specific Limiting Condition (SLC) at 1Y Gage Setting 17 for the tanks in this project.
- Create a SLC at seven specific locations for the tanks in this project
- Create a SLC at various unspecified locations for the tanks in this project

Post Project Equipment Description:

S-1128-974-2: UP TO 500 BBL FIXED ROOF CRUDE OIL DRAIN TANK WITH
PV VALVE, AUTHORIZED TO OPERATE AT VARIOUS UNSPECIFIED
LOCATIONS WITHIN THE HEAVY OIL WESTERN STATIONARY SOURCE
(CAN BE OWNED BY PERMITTEE OR RENTED ON AN AS-NEEDED
BASIS)

S-1128-975-2: UP TO 500 BBL FIXED ROOF CRUDE OIL DRAIN TANK WITH
PV VALVE, AUTHORIZED TO OPERATE AT VARIOUS UNSPECIFIED
LOCATIONS WITHIN THE HEAVY OIL WESTERN STATIONARY SOURCE
(CAN BE OWNED BY PERMITTEE OR RENTED ON AN AS-NEEDED
BASIS)

S-1128-976-2: UP TO 500 BBL FIXED ROOF CRUDE OIL DRAIN TANK WITH
PV VALVE, AUTHORIZED TO OPERATE AT VARIOUS UNSPECIFIED
LOCATIONS WITHIN THE HEAVY OIL WESTERN STATIONARY SOURCE
(CAN BE OWNED BY PERMITTEE OR RENTED ON AN AS-NEEDED
BASIS)

S-1128-977-2: UP TO 500 BBL FIXED ROOF CRUDE OIL DRAIN TANK WITH
PV VALVE, AUTHORIZED TO OPERATE AT VARIOUS UNSPECIFIED
LOCATIONS WITHIN THE HEAVY OIL WESTERN STATIONARY SOURCE
(CAN BE OWNED BY PERMITTEE OR RENTED ON AN AS-NEEDED
BASIS)

VI. Emission Control Technology Evaluation

The baker tanks are equipped with a pressure-vacuum (PV) relief vent valve set to within 10% of the maximum allowable working pressure of the tank. The PV-valve will reduce VOC wind induced emissions from the tank vent.

VII. General Calculations

A. Assumptions

All permit units:

- Each tank will operate 24 hours per day, 7 days per week, and 52 weeks per year.
- The tanks emit only volatile organic compounds (VOCs)
- Although the tanks are rectangular-shaped Baker tanks, for emission calculation purposes, they are assumed to be an equivalent circular dimensions/volume
- The tank paint conditions are poor and the shade is medium (Applicant)
- TVP of oil = 0.49 psia (Applicant)
- Tank temperature, 195° F (Applicant)
- VOCs molecular weight, 100 lb/lb.mol (Applicant)

Pre- Project (tanks S-1128-974-1, '975-1, '976-1, and '977-1):

- Daily throughput 750 bbl (existing permit)
- Annual throughput 91,250 bbl (existing permit)

Post Project at various unspecified locations (tanks S-1128-974-2 and '975-2):

- Daily throughput 3,000 bbl per tank (Applicant)
- Tanks S-1128-974 and '-975 annual throughput 293,825 bbls per tank (Applicant)

Post Project at various unspecified locations (tanks S-1128-976-2 and '977-2):

- Daily throughput 3,000 bbl per tank (Applicant)
- No change to annual throughput -- 91,250 bbl per tank (existing permit)

Total Post Project at Unspecified Locations (tanks S-1128-974-2, '-975-2, 976-2 and '977-2):

- Maximum annual combined throughput of all tanks: 462,350 BBLs/year

Post Project Shared Limiting Condition at the 1Y Gage Setting 17 (tanks S-1128-974-2, '-975-2, 976-2 and '977-2):

- Daily combined throughput of 12,000 bbl (Applicant)

- Limited combined annual throughput of 540,100 BBL/Year

Post project at the following specified locations: the 31X Oil Cleaning Plant (35.35543, -119.65096), the McKittrick Diatomite GS (35.30953, -119.6431) the McKittrick Station L (35.31352, -119.65715), 1Y GS 5 (35.355, -119.66833), 1Y GS 3 (35.3373, -119.6628), or the 1Y South Steam Plant (35.33833, -119.6683):

- Limited daily combined throughput from allowed emissions of 12,000 BBL/day
- Limited annual combined throughput of 770,150 BBL/Year

B. Emission Factors

Both the daily and annual PE's for each permit unit are based on the results from the District's Microsoft Excel spreadsheets for Tank Emissions - Fixed Roof Crude Oil less than 26° API located in Appendixes C and D. The tank spreadsheet was developed using the equations for fixed-roof tanks from EPA AP-42, Chapter 7.1.

C. Calculations

1. Pre-Project Potential to Emit (PE1)

Tanks S-1128-974-1, '975-1, '976-1, and '977-1:

Pre-project emission calculations are shown in Appendix C and are summarized below.

Permit Unit	VOC - Daily PE1 (lb/day)	VOC - Annual PE1 (lb/Year)
S-1128-974-1	37.6	4770
S-1128-975-1	37.6	4770
S-1128-976-1	37.6	4770
S-1128-977-1	37.6	4770
Total	150.4	19,080

2. Post Project Potential to Emit (PE2)

Post project emission calculations are shown in Appendix D and are summarized below.

Individual Tank emissions:

Permit Unit	VOC - Daily PE2 (lb/day)	VOC - Annual PE2 (lb/Year)
S-1128-974-2	147.8	14,696
S-1128-975-2	147.8	14,696
S-1128-976-2	147.8	4770
S-1128-977-2	147.8	4770

SLC at 1Y Gage Setting:

Location	Permit Unit	VOC - Daily PE2 (lb/day)	VOC - Annual SLC PE2 (lb/Year)
1Y Gage Setting	S-1128-974-2, -975-2, -976-2, and -977-2	--	27,660

SLC at the 31X Oil Cleaning Plant (35.35543, -119.65096), the McKittrick Diatomite GS (35.30953, -119.6431) the McKittrick Station L (35.31352, -119.65715), 1Y GS 5 (35.355, -119.66833), 1Y GS 3 (35.3373, -119.6628), and the 1Y South Steam Plant (35.33833, -119.6683):

Location	Permit Unit	VOC - Daily PE2 (lb/day)	VOC - Annual PE2 (lb/Year)
Various Specified	S-1128-974-2, -975-2, -976-2, and -977-2	591	38,932

SLC for unspecified locations:

Location	Permit Unit	VOC - Daily PE2 (lb/day)	VOC - Annual PE2 (lb/Year)
Unspecified on Permit	S-1128-974-2, -975-2, -976-2, and -977-2	591	23,850

3. Pre-Project Stationary Source Potential to Emit (SSPE1)

Pursuant to Section 4.9 of District Rule 2201, the Pre-Project Stationary Source Potential to Emit (SSPE1) is the Potential to Emit (PE) from all units with valid Authorities to Construct (ATC) or Permits to Operate (PTO) at the Stationary Source and the quantity of emission reduction credits (ERC) which have been banked since September 19, 1991 for Actual Emissions Reductions that have occurred at the source, and which have not been used on-site.

Facility emissions are already above the Offset and Major Source Thresholds for all pollutants; therefore, SSPE1 calculations are not necessary.

4. Post Project Stationary Source Potential to Emit (SSPE2)

Pursuant to Section 4.10 of District Rule 2201, the Post Project Stationary Source Potential to Emit (SSPE2) is the Potential to Emit (PE) from all units with valid Authorities to Construct (ATC) or Permits to Operate (PTO) at the Stationary Source

and the quantity of emission reduction credits (ERC) which have been banked since September 19, 1991 for Actual Emissions Reductions that have occurred at the source, and which have not been used on-site.

Facility emissions are already above the Offset and Major Source Thresholds for all pollutants; therefore, SSPE2 calculations are not necessary.

5. Major Source Determination

Pursuant to Section 3.24 of District Rule 2201, a Major Source is a stationary source with post-project emissions or a Post Project Stationary Source Potential to Emit (SSPE2), equal to or exceeding one or more of the following threshold values. However, Section 3.24.2 states, "for the purposes of determining major source status, the SSPE2 shall not include the quantity of emission reduction credits (ERC) which have been banked since September 19, 1991 for Actual Emissions Reductions that have occurred at the source, and which have not been used on-site."

This source is an existing Major Source for VOC emissions and will remain a Major Source for VOC. No change in other pollutants are proposed or expected as a result of this project.

6. Baseline Emissions (BE)

The BE calculation (in lbs/year) is performed pollutant-by-pollutant for each unit within the project, to calculate the QNEC and if applicable, to determine the amount of offsets required.

Pursuant to Section 3.7 of District Rule 2201, BE = Pre-project Potential to Emit for:

- Any unit located at a non-Major Source,
- Any Highly-Utilized Emissions Unit, located at a Major Source,
- Any Fully-Offset Emissions Unit, located at a Major Source, or
- Any Clean Emissions Unit, located at a Major Source.

otherwise,

BE = Historic Actual Emissions (HAE), calculated pursuant to Section 3.22 of District Rule 2201.

Tanks S-1128-974-2, '975-2, '976-2, and '977-2:

Pursuant to Rule 2201, Section 3.12, a Clean Emissions Unit is defined as an emissions unit that is "equipped with an emissions control technology with a minimum control efficiency of at least 95% or is equipped with emission control technology that meets the requirements for achieved-in-practice BACT as accepted by the APCO during the five years immediately prior to the submission of the complete application.

These emissions units are equipped with a PV-vent set to within 10% of the maximum allowable pressure, which meets the requirements for achieved-in-practice BACT.

Therefore, Baseline Emissions (BE) are equal to the Pre-Project Potential to Emit (PE1).

7. SB 288 Major Modification

SB 288 Major Modification is defined in 40 CFR Part 51.165 as "*any physical change in or change in the method of operation of a major stationary source that would result in a significant net emissions increase of any pollutant subject to regulation under the Act.*"

As discussed in Section VII.C.5 above, the facility is an existing Major Source for NOx, SOx, PM10, CO, and VOC; however, the project by itself would need to be a significant increase in order to trigger a Major Modification. The emissions unit(s) within this project do not have a total potential to emit which is greater than Major Modification thresholds (see table below). Therefore, the project cannot be a significant increase and the project does not constitute a SB 288 Major Modification.

SB 288 Major Modification Thresholds (Existing Major Source)			
Pollutant	Project PE (lb/year)	Threshold (lb/year)	SB 288 Major Modification Calculation Required?
VOC	38,932	50,000	No

8. Federal Major Modification

District Rule 2201, Section 3.17 states that Federal Major Modifications are the same as "Major Modification" as defined in 40 CFR 51.165 and part D of Title I of the CAA. SB 288 Major Modifications are not Federal Major Modifications if they meet the criteria of the "Less-Than-Significant Emissions Increase" exclusion.

A Less-Than-Significant Emissions Increase exclusion is for an emissions increase for the project, or a Net Emissions Increase for the project (as defined in 40 CFR 51.165 (a)(2)(ii)(B) through (D), and (F)), that is not significant for a given regulated NSR pollutant, and therefore is not a Federal Major Modification for that pollutant.

- To determine the post-project projected actual emissions from existing units, the provisions of 40 CFR 51.165 (a)(1)(xxviii) shall be used.
- To determine the pre-project baseline actual emissions, the provisions of 40 CFR 51.165 (a)(1)(xxxv)(A) through (D) shall be used.
- If the project is determined not to be a Federal Major Modification pursuant to the provisions of 40 CFR 51.165 (a)(2)(ii)(B), but there is a reasonable possibility that the project may result in a significant emissions increase, the owner or operator shall comply with all of the provisions of 40 CFR 51.165 (a)(6) and (a)(7).
- Emissions increases calculated pursuant to this section are significant if they exceed the significance thresholds specified in the table below.

Pollutant	Threshold (lb/year)
VOC	0
NOx	0
PM10	30,000
SOx	80,000

Chevron concedes that the "Less-Than-Significant Emissions Increase" threshold for VOCs is exceeded in this project. Therefore, calculations are not required and the project is a Federal Major Modification.

9. Quarterly Net Emissions Change (QNEC)

The QNEC is calculated solely to establish emissions that are used to complete the District's PAS emissions profile screen. Detailed QNEC calculations are included in Appendix B.

VIII. Compliance

Rule 2201 New and Modified Stationary Source Review Rule

A. Best Available Control Technology (BACT)

1. BACT Applicability

BACT requirements are triggered on a pollutant-by-pollutant basis and on an emissions unit-by-emissions unit basis. Unless exempted pursuant to Section 4.2, BACT shall be required for the following actions*:

- a. Any new emissions unit with a potential to emit exceeding two pounds per day,
- b. The relocation from one Stationary Source to another of an existing emissions unit with a potential to emit exceeding two pounds per day,
- c. Modifications to an existing emissions unit with a valid Permit to Operate resulting in an AIPE exceeding two pounds per day, and/or
- d. Any new or modified emissions unit, in a stationary source project, which results in an SB288 Major Modification or a Federal Major Modification, as defined by the rule.

*Except for CO emissions from a new or modified emissions unit at a Stationary Source with an SSPE2 of less than 200,000 pounds per year of CO.

a. New emissions units – PE > 2 lb/day

As discussed in Section I above, there are no new emissions units associated with this project; therefore BACT for new units with PE > 2 lb/day purposes is not triggered.

b. Relocation of emissions units – PE > 2 lb/day

As discussed in Section I above, there are no emissions units being relocated from one stationary source to another; therefore BACT is not triggered.

c. Modification of emissions units – AIPE > 2 lb/day

$$\text{AIPE} = \text{PE2} - \text{HAPE}$$

Where,

AIPE = Adjusted Increase in Permitted Emissions, (lb/day)

PE2 = Post-Project Potential to Emit, (lb/day)

HAPE = Historically Adjusted Potential to Emit, (lb/day)

$$\text{HAPE} = \text{PE1} \times (\text{EF2}/\text{EF1})$$

Where,

PE1 = The emissions unit's Potential to Emit prior to modification or relocation, (lb/day)

EF2 = The emissions unit's permitted emission factor for the pollutant after modification or relocation. If EF2 is greater than EF1 then EF2/EF1 shall be set to 1

EF1 = The emissions unit's permitted emission factor for the pollutant before the modification or relocation

$$\text{AIPE} = \text{PE2} - (\text{PE1} * (\text{EF2} / \text{EF1}))$$

For all units in this project EF1 =EF2

AIPE (lb/day)			
Permit Unit	PE2	PE1	AIPE
S-1128-974-2	147.8	37.6	110.5
S-1128-975-2	147.8	37.6	110.5
S-1128-976-2	147.8	37.6	110.5
S-1128-977-2	147.8	37.6	110.5

As demonstrated above, the AIPE for the tanks being modified (S-1128-974, '-975, '-976, and '-977) is greater than 2.0 lb/day for VOC emissions; therefore BACT is triggered for these units.

d. SB 288/Federal Major Modification

As discussed in Section VII.C.8 above, this project constitute a Federal Major Modification for VOC emissions; therefore, BACT is triggered for VOC for all emissions units in the project for which there is an emission increase.

2. BACT Guideline

Per District Policy APR 1305, Section IX, "A top-down BACT analysis shall be performed as a part of the Application Review for each application subject to the BACT requirements pursuant to the District's NSR Rule for source categories or classes covered in the BACT Clearinghouse, relevant information under each of the following steps may be simply cited from the Clearinghouse without further analysis."

BACT Guideline 7.3.1, applies to Petroleum and Petrochemical Production – Fixed Roof Organic Liquid Storage or Processing Tank, < 5,000 bbl tank capacity (see Appendix E)

3. Top-Down BACT Analysis

Per Permit Services Policies and Procedures for BACT, a Top-Down BACT analysis shall be performed as a part of the application review for each application subject to the BACT requirements pursuant to the District's NSR Rule.

Pursuant to the attached Top-Down BACT Analysis (see Appendix F), BACT has been satisfied with the following:

PV relief valve on the tank vent set to within 10% of maximum allowable pressure. The technologically feasible option of waste gas incinerated in [steam generator, heater treater, or other fired equipment] and inspection and maintenance program at 99% control is not cost effective; the proposed equipment satisfies the BACT requirement. (See BACT Guideline 7.3.1)

B. Offsets

1. Offset Applicability

Pursuant to Section 4.5.3, offset requirements shall be triggered on a pollutant by pollutant basis and shall be required if the Post Project Stationary Source Potential to Emit (SSPE2) equals to or exceeds the offset threshold levels in Table 4-1 of Rule 2201.

The following table compares the post-project facility-wide annual emissions in order to determine if offsets will be required for this project.

Offset Determination (lb/year)					
	NO _x	SO _x	PM ₁₀	CO	VOC
Post Project SSPE (SSPE2)	na	na	na	na	>20,000
Offset Threshold	20,000	54,750	29,200	200,000	20,000
Offsets triggered?	No	No	No	No	Yes

2. Quantity of Offsets Required

As seen above, the facility is an existing Major Source for VOC and the SSPE2 is greater than the offset thresholds; therefore offset calculations will be required for this project.

Per Sections 4.7.1 and 4.7.3, the quantity of offsets in pounds per year for VOC is calculated as follows for sources with an SSPE1 greater than the offset threshold levels before implementing the project being evaluated.

Offsets Required (lb/year) = $(\Sigma[PE2 - BE] + ICCE) \times DOR$, for all new or modified emissions units in the project,

Where,

PE2 = Post Project Potential to Emit, (lb/year)

BE = Baseline Emissions, (lb/year)

ICCE = Increase in Cargo Carrier Emissions, (lb/year)

DOR = Distance Offset Ratio, determined pursuant to Section 4.8

BE = Pre-project Potential to Emit for:

- Any unit located at a non-Major Source,
- Any Highly-Utilized Emissions Unit, located at a Major Source,
- Any Fully-Offset Emissions Unit, located at a Major Source, or
- Any Clean Emissions Unit, Located at a Major Source.

otherwise,

BE = Historic Actual Emissions (HAE)

As calculated in Section VII.C.6 above, the emission units are Clean Emissions Units; therefore, Baseline Emissions (BE) are equal zero or PE1.

The PE1's (4770 lb-VOC/yr) for each tank are the same and there are no increases in cargo carrier emissions; therefore offsets can be determined as follows:

Offsets Required (lb/year) = $([PE2 - BE] + ICCE) \times DOR$

BE (VOC) = 4770 lb/year

ICCE = 0 lb/year

Assuming an offset ratio of 1.5:1, the amount of VOC ERCs that need to be withdrawn is:

Offsets Required (lb/Year)				
Permit Unit	PE2	PE1	DOR ¹	Offsets Required
S-1128-974-2	14,696	4770	1.5	14,889
S-1128-975-2	14,696	4770	1.5	14,889
S-1128-976-2	4770	4770	1.5	0
S-1128-977-2	4770	4770	1.5	0
Total				29,778

¹ CUSA has proposed to offset the increase in emissions with ERC S-2887-1. ERC S-2887-1 was issued for the installation of a casing collection system at Chevron's Heavy oil Central stationary source greater than 15 miles from the proposed project. Additionally, this project is a Federal Major Modification; therefore, the offset ratio is 1.5 to 1.

Calculating the appropriate quarterly emissions to be offset is as follows:

$$(14,899 \text{ lb/year}) / (4 \text{ qtr/year}) = 3725 \text{ lb/qtr}$$

	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter
S-1128-974-2	3722	3722	3722	3722
S-1128-975-2	3722	3722	3722	3722
S-1128-976-2	0	0	0	0
S-1128-977-2	0	0	0	0
Total	7444	7444	7444	7444

The applicant has stated that the facility plans to use ERC certificate S-2887-1 to offset the increases in VOC emissions associated with this project. The above certificate has available quarterly VOC credits as follows:

	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter
ERC #S-2887-1	113,431	114,707	116,073	116,094

As seen above, the facility has sufficient credits to fully offset the quarterly VOC emissions increases associated with this project.

Proposed Rule 2201 (offset) Conditions (tanks S-1128-974-2, and '975-2):

- Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 3725 lb, 2nd quarter - 3725 lb, 3rd quarter - 3725 lb, and fourth quarter - 3725 lb. Offsets shall be provided at the applicable offset ratio specified in Table 4-2 of Rule 2201 (as amended 9/21/06). [District Rule 2201]

- ERC Certificate Number S-2887-1 (or a certificate split from this certificate) shall be used to supply the required offsets; unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]

C. Public Notification

1. Applicability

Public noticing is required for:

- a. New Major Sources, Federal Major Modifications, and SB288 Major Modifications,
- b. Any new emissions unit with a Potential to Emit greater than 100 pounds during any one day for any one pollutant,
- c. Any project which results in the offset thresholds being surpassed, and/or
- d. Any project with an SSIPE of greater than 20,000 lb/year for any pollutant.

a. New Major Sources, Federal Major Modifications, and SB288 Major Modifications

New Major Sources are new facilities, which are also Major Sources. Since this is not a new facility, public noticing is not required for this project for New Major Source purposes.

As demonstrated in section VII.C.7 is not a SB 288 Modification; therefore, public noticing for SB 288 Major Modification purposes is not required.

As demonstrated in section VII.C.8, this project is Federal Major Modification; therefore, public noticing for Federal Major Modification purposes is required.

b. PE > 100 lb/day

Applications which include a new emissions unit with a Potential to Emit greater than 100 pounds during any one day for any pollutant will trigger public noticing requirements. There are no new emissions units associated with this project; therefore public noticing is not required for this project for Potential to Emit Purposes.

c. Offset Threshold

The following table compares the SSPE1 with the SSPE2 in order to determine if any offset thresholds have been surpassed with this project.

Offset Threshold				
Pollutant	SSPE1 (lb/year)	SSPE2 (lb/year)	Offset Threshold	Public Notice Required?
NO _x	> 20,000	> 20,000	20,000 lb/year	No
SO _x	> 54,750	> 54,750	54,750 lb/year	No
PM ₁₀	> 29,200	> 29,200	29,200 lb/year	No
CO	> 200,000	> 200,000	200,000 lb/year	No
VOC	> 20,000	> 20,000	20,000 lb/year	No

As detailed above, there were no thresholds surpassed with this project; therefore public noticing is not required for offset purposes.

d. SSIPE > 20,000 lb/year

Public notification is required for any permitting action that results in a Stationary Source Increase in Permitted Emissions (SSIPE) of more than 20,000 lb/year of any affected pollutant. According to District policy, the SSIPE is calculated as the Post Project Stationary Source Potential to Emit (SSPE2) minus the Pre-Project Stationary Source Potential to Emit (SSPE1), i.e. SSIPE = SSPE2 – SSPE1. The values for SSPE2 and SSPE1 are calculated according to Rule 2201, Sections 4.9 and 4.10, respectively. The SSIPE is compared to the SSIPE Public Notice thresholds in the following table:

Stationary Source Increase in Permitted Emissions [SSIPE] – Public Notice					
Pollutant	SSPE2 (lb/year)	SSPE1 (lb/year)	SSIPE (lb/year)	SSIPE Public Notice Threshold	Public Notice Required?
NO _x	0	0	0	20,000 lb/year	No
SO _x	0	0	0	20,000 lb/year	No
PM ₁₀	0	0	0	20,000 lb/year	No
CO	0	0	0	20,000 lb/year	No
VOC	38,932	19,080	19,825	20,000 lb/year	No

As demonstrated above, the SSIPE for VOC was not greater than 20,000 lb/year; therefore, public noticing for SSIPE purposes is not required.

2. Public Notice Action

As discussed above, public noticing is required for this project for Federal Major Modification purposes. Therefore, public notice documents will be submitted to the California Air Resources Board (CARB) and a public notice will be published in a local newspaper of general circulation prior to the issuance of the ATC for this equipment.

D. Daily Emission Limits (DELs)

Daily Emissions Limitations (DELs) and other enforceable conditions are required by Section 3.15 to restrict a unit's maximum daily emissions, to a level at or below the

emissions associated with the maximum design capacity. Per Sections 3.15.1 and 3.15.2, the DEL must be contained in the latest ATC and contained in or enforced by the latest PTO and enforceable, in a practicable manner, on a daily basis. DELs are also required to enforce the applicability of BACT.

Proposed Rule 2201 (DEL) Conditions:

Listed on tanks S-1128-974-3 and '975-3:

- This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 2201] N
- Tank liquid throughput shall not exceed 3,000 barrels per day. [District Rule 2201] N
- Tank liquid throughput shall not exceed 293,825 barrels per year. [District Rule 2201] N

Listed on tanks S-1128-976-3 and '977-3:

- This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 2201] N
- Tank liquid throughput shall not exceed 3,000 barrels per day. [District Rule 2201] N
- Tank liquid throughput shall not exceed 91,250 barrels per year. [District Rule 2201] N

Listed on all tanks in this project:

- The total combined liquid throughput of tanks S-1128-974, '-975, '-976, and '-977 shall not exceed 462,350 BBLs/year, the nearest business receptor must be at least 500 meters away, and the nearest residential receptor must be at least 670 meters away when located at any location not specifically listed on this permit [District Rule 2201 and 4102] Y
- The total combined liquid throughput of tanks S-1128-974, '-975, '-976, and '-977 shall not exceed 540,100 barrels per year at the 1Y Gauge Setting 17 (35.35312, -119.66393). [District Rule 2201 and 4102] Y
- The total combined liquid throughput of tanks S-1128-974, '-975, '-976, and '-977 shall not exceed a 770,150 barrels per year at the following locations combined: 31X Oil Cleaning Plant (35.35543, -119.65096), the McKittrick Diatomite GS (35.30953, -119.6431) the McKittrick Station L (35.31352, -119.65715), 1Y GS 5 (35.355, -119.66833), 1Y GS 3 (35.3373, -119.6628), and the 1Y South Steam Plant (35.33833, -119.6683). [District Rule 2201 and 4102] Y

E. Compliance Assurance

1. Source Testing

Pursuant to District Policy APR 1705, source testing is not required to demonstrate compliance with Rule 2201.

2. Monitoring

No monitoring is required to demonstrate compliance with Rule 2201.

3. Recordkeeping

- Permittee shall maintain records of start and completion dates/times of tank cleaning activities, and methods of cleaning used.
- The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, API gravity and throughput. [District Rules 2201 and 4623] N
- The permittee shall keep accurate combined records of each organic liquid stored in baker tanks S-1128-974, '-975, '-976, and '-978, including the storage temperatures, TVPs, API gravities, throughputs, and physical locations. [District Rules 2201] N
- All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623] N

4. Reporting

No reporting is required to demonstrate compliance with Rule 2201.

F. Ambient Air Quality Analysis

Section 4.14.1 of this Rule requires that an ambient air quality analysis (AAQA) be conducted for the purpose of determining whether a new or modified Stationary Source will cause or make worse a violation of an air quality standard. However, since VOCs are the only criteria pollutant associated with the project and VOCs are not evaluated in an AAQA, no further review was performed for the Ambient Air Quality Analysis.

G. Compliance Certification

Section 4.15.2 of this Rule requires the owner of a new Major Source or a source undergoing a Federal Major Modification to demonstrate to the satisfaction of the District that all other Major Sources owned by such person and operating in California are in compliance or are on a schedule for compliance with all applicable emission limitations and standards. This project constitute a Federal Major Modification, therefore, this requirement

is applicable. Included in **Appendix H** is CUSA Corporation's statewide compliance certification.

H. Alternate Sitting Analysis

The current project occurs at an existing facility. The applicant proposes to increase the throughput of four existing portable fixed roof storage tanks (S-1128-974-2, '975-2, '976-2, and '977-2).

Since the project will provide oil storage and processing at the locations CUSA currently operates, the existing site will result in the least possible impact from the project. Alternative sites would involve the relocation and/or construction of various support structures on a much greater scale, and would therefore result in a much greater impact.

Rule 2520 Federally Mandated Operating Permits

This facility is subject to this Rule, and has received their Title V Operating Permit. The proposed modification is a Minor Modification to the Title V Permit pursuant to Section 3.20 of this rule:

In accordance with Rule 2520, 3.20, these modifications:

1. Do not violate requirements of any applicable federally enforceable local or federal requirement;
2. Do not relax monitoring, reporting, or recordkeeping requirements in the permit and are not significant changes in existing monitoring permit terms or conditions;
3. Do not require or change a case-by-case determination of an emission limitation or other standard, or a source-specific determination for temporary sources of ambient impacts, or a visibility or increment analysis;
4. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include:
 - a. A federally enforceable emission cap assumed to avoid classification as a modification under any provisions of Title I of the Federal Clean Air Act; and
 - b. An alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Federal Clean Air Act; and
5. Are not Title I modifications as defined in District Rule 2520 or modifications as defined in section 111 or 112 of the Federal Clean Air Act; and
6. Do not seek to consolidate overlapping applicable requirements.

As discussed above, the facility has applied for a Certificate of Conformity (COC); therefore, the facility must apply to modify their Title V permit with an administrative amendment, prior to operating with the proposed modifications. Continued compliance with this rule is expected. The facility may construct/operate under the ATC upon submittal of the Title V administrative amendment/minor modification application.

Rule 4101 Visible Emissions

Rule 4101 states that 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.

As long as the equipment is properly maintained and operated, compliance with visible emissions limits is expected under normal operating conditions.

Rule 4102 Nuisance

Section 4.0 prohibits discharge of air contaminants which could cause injury, detriment, nuisance or annoyance to the public. Public nuisance conditions are not expected as a result of these operations, provided the equipment is well maintained. Therefore, compliance with this rule is expected.

Section 4.0 prohibits discharge of air contaminants which could cause injury, detriment, nuisance or annoyance to the public. Public nuisance conditions are not expected as a result of these operations, provided the equipment is well maintained. Therefore, compliance with this rule is expected.

California Health & Safety Code 41700 (Health Risk Assessment)

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

An HRA is not required for a project with a total facility prioritization score of less than one. According to the Technical Services Memo for this project (**Appendix G**), the total facility prioritization score including this project was greater than one. Therefore, a health risk assessment was required to determine the short-term acute and long-term chronic exposure from this project.

The cancer risk for this project is shown below:

Categories	Receptor Specific Risk for Baker Tanks (units 974, 975, 976, 977, 982, 983, 984, 985)	Non-Receptor Specific Risk for Facilities 1128, 1129, and 1141	Total risk at a specific receptor	Facility Totals (S-1128, S-1129, S-1141, and S-1549)
Prioritization Score	1.5	>1	NA	>1.0
Acute Hazard Index	0.34	0.64	0.37	1.0 ²
Chronic Hazard Index	0.01	0.11	0.01	0.12
Maximum Individual Cancer Risk (10⁻⁶)	2.4 ¹	7.2	2.8	10.0 ²
T-BACT Required?	No			
Special Permit Conditions?	No			

¹The cancer risk is a worker adjusted value. The per unit cancer score is less than 1.0 E-6 so T-BACT is not required.

²The Cancer Risk is at 10.0 E-6, the maximum permissible risk, and the Acute Hazard Index is at 1.0, the maximum risk. No further projects will be allowed without consideration of all facilities involved.

Discussion of T-BACT

BACT for toxic emission control (T-BACT) is required if the cancer risk exceeds one in one million. As demonstrated above, T-BACT is not required for this project because the HRA indicates that the risk is not above the District's thresholds for triggering T-BACT requirements; therefore, compliance with the District's Risk Management Policy is expected.

Proposed Permit Conditions

To ensure that human health risks will not exceed District allowable levels; the following permit conditions must be included for:

Units 974, 975, 976, 977

The increase in emissions from the Baker Tanks at 1Y Gauge Setting 17 (35.35312, -119.66393) shall not exceed 8,580 Lbs VOC/yr

The total increase in emissions for units 974-977 shall not exceed: 18.36 lbs/hr at locations

Latitude	Longitude	Location Description
35.35543	-119.65096	31X Oil Cleaning Plant
35.30953	-119.6431	McKittrick Diatomite GS
35.31352	-119.65715	McKittrick Station L
35.33833	-119.6683	NA

The total increase in emissions for units 974-977 shall not exceed: 19,852 lbs/yr at locations

Latitude	Longitude	Location Description
35.35543	-119.65096	31X Oil Cleaning Plant
35.35312	-119.66393	1Y Gauge 17
35.30953	-119.6431	McKittrick Diatomite GS
35.31352	-119.65715	McKittrick Station L
35.33833	-119.6683	NA

The total increase in emissions for units 974-977 at other various locations shall not exceed 18.36 Lbs VOC/hr and 4,770 Lbs VOC/yr and the nearest Business receptor must be at least 500 meter away, the nearest residential receptor must be at least 670 meters away.

The following conditions will be placed on the permits to make the above conditions enforceable in terms of maximum throughput:

Listed on all tanks in this project:

- The total combined liquid throughput of tanks S-1128-974, '-975, '-976, and '-977 shall not exceed 462,350 BBLs/year, the nearest business receptor must be at least 500 meters away, and the nearest residential receptor must be at least 670 meters away when located at any location not specifically listed on this permit [District Rule 2201 and 4102] Y
- The total combined liquid throughput of tanks S-1128-974, '-975, '-976, and '-977 shall not exceed 540,100 barrels per year at the 1Y Gauge Setting 17 (35.35312, -119.66393). [District Rule 2201 and 4102] Y
- The total combined liquid throughput of tanks S-1128-974, '-975, '-976, and '-977 shall not exceed a 770,150 barrels per year at the following locations combined: 31X Oil Cleaning Plant (35.35543, -119.65096), the McKittrick Diatomite GS (35.30953, -119.6431) the McKittrick Station L (35.31352, -119.65715), 1Y GS 5 (35.355, -119.66833), 1Y GS 3 (35.3373, -119.6628), and the 1Y South Steam Plant (35.33833, -119.6683). [District Rule 2201 and 4102] Y

Rule 4623, Storage of Organic Liquids

This rule applies to any tank with a capacity of 1,100 gallons or greater in which any organic liquid is placed, held, or stored.

According to Section 4.4, tanks exclusively receiving and or storing organic liquids with a TVP less than 0.5 psia are exempt from this rule except for complying with Sections 6.2, 6.3.6, 6.4 and 7.2. Therefore, the following conditions shall be placed on the ATC:

- {2480} This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623] N
- {2588} Permittee shall conduct True Vapor Pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or

whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rules 2201 and 4623]

Compliance with the requirements of this rule is expected.

California Health & Safety Code 42301.6 (School Notice)

The District has verified that this site is not located within 1,000 feet of a school. Therefore, pursuant to California Health and Safety Code 42301.6, a school notice is not required.

California Environmental Quality Act (CEQA)

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

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

The District performed an Engineering Evaluation (this document) for the proposed project and determined that the activity consists of issuing a permit for a piece of transportable equipment to be used at various locations within the District. The District makes the following findings regarding this activity: 1) Issuance of the permit does not have a significant environmental impact. 2) Assessment of potential environmental effects resulting from the use of the transportable equipment on a development project is the responsibility of the Lead Agency approving the specific project, and will be determined on a project specific basis. The District has determined that no additional findings are required.

IX. Recommendation

Compliance with all applicable rules and regulations is expected. Issue Authorities to Construct S-1128-974-2, '975-2, '976-2, and '977-2 subject to the permit conditions on the attached draft Authority to Construct in Appendix I.

X. Billing Information

Annual Permit Fees			
Permit Number	Fee Schedule	Fee Description	Annual Fee
S-1128-974-2	3020-05-C	21,000 gallons	\$135
S-1128-975-2	3020-05-C	21,000 gallons	\$135
S-1128-976-2	3020-05-C	21,000 gallons	\$135
S-1128-977-2	3020-05-C	21,000 gallons	\$135

Appendices:

- A: Current PTOs
- B: Quarterly Net Emissions Change
- C: Pre-Project Emissions Calculations
- D: Post Project Emissions Calculations
- E: BACT Guideline 7.3.1
- F: BACT Analysis
- G: Health Risk Analysis
- H: Statewide Compliance Certification
- I: Draft ATCs

APPENDIX A
Current PTOs

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1128-974-1

EXPIRATION DATE: 02/28/2006

EQUIPMENT DESCRIPTION:

UP TO 500 BBL FIXED ROOF CRUDE OIL TANK WITH PV VALVE AUTHORIZED TO OPERATE AT VARIOUS UNSPECIFIED LOCATIONS WITHIN THE HEAVY OIL WESTERN STATIONARY SOURCE (CAN BE OWNED BY PERMITTEE OR RENTED ON AN AS-NEEDED BASIS)

PERMIT UNIT REQUIREMENTS

1. This tank is authorized to operate at CUSA's heavy oil western stationary source (HOWSS) which includes facilities S-1128, S-1129 and S-1141. [District Rule 2201] Federally Enforceable Through Title V Permit
2. The equipment shall not be located within 1,000 feet of the outer boundary of any K-12 school. [CH&SC 42301.6]
3. Permittee shall notify the District Compliance Division of each location at which the operation is located in excess of 24 hours. Such notification shall be made no later than 48 hours after starting operation at the location. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The tank shall be equipped with a fixed roof with no holes or openings. [District Rule 2201] Federally Enforceable Through Title V Permit
5. This tank shall be equipped with a pressure-vacuum (PV) relief valve set to within 10% of the maximum allowable working pressure of the tank, permanently labeled with the operating pressure settings and properly maintained in good operating order in accordance with the manufacturer's instructions. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
6. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
7. Permittee shall conduct True Vapor Pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
8. As used in this permit, the term "source or type" shall mean liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids stored in this unit to determine which are from common source. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
9. For crude oil with an API gravity of 26 degrees or less, the TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623, 6.4.4] Federally Enforceable Through Title V Permit
10. For other organic liquids, the true vapor pressure (TVP) shall be measured using Reid vapor pressure ASTM Method D323, and converting the RVP to TVP at the tank's maximum organic liquid storage temperature. The conversion of RVP to TVP shall be done in accordance of the oil and gas section of "California Air Resources Boards (ARB) Technical Guidance Document to the Criteria and Guidelines Regulations for AB 2588", dated August 1989. As an alternative to using ASTM D 323, the TVP of crude oil with an API gravity range of greater than 26 degrees up to 30 degrees may be determined by using other equivalent test methods approved by APCO, ARB and EPA. [District Rule 4623, 6.4.3] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

11. Tank liquid throughput shall not exceed 750 barrels per day and 91,250 barrels per year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. This permit authorizes tank cleaning that is not the result of breakdowns or poor maintenance as a routine maintenance activity. [District Rule 2020] Federally Enforceable Through Title V Permit
13. Permittee shall notify the APCO in writing at least three (3) days prior to performing the first interior tank cleaning activity at a particular location; no notification is required for subsequent cleaning activities at that location. Written notification shall include the following: 1) the Permit to Operate number and physical location of the tank, 2) the date and time that tank cleaning activities will begin, and 3) the method to be used to clean the tank, including any solvents to be used. [District Rule 2080] Federally Enforceable Through Title V Permit
14. This tank shall not be required to de-gas before commencing cleaning activities. All other applicable requirements shall be complied with before, during, and after tank cleaning activities. [District Rule 2080] Federally Enforceable Through Title V Permit
15. While performing tank cleaning activities, operators may only use the following cleaning agents: diesel, solvents with an initial boiling point of greater than 302 degrees F, solvents with a vapor pressure of less than 0.5 psia, or solvents with 50 grams of VOC per liter or less. [District Rule 2080] Federally Enforceable Through Title V Permit
16. Steam cleaning shall only be allowed at locations where wastewater treatment facilities are limited, or during the months of December through March. [District Rule 2080] Federally Enforceable Through Title V Permit
17. Permittee shall maintain records of dates of start and completion dates/times of vessel cleaning activities, and methods of cleaning used. [District Rule 2520] Federally Enforceable Through Title V Permit
18. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, API gravity and throughput. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
19. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rules 2520 and 4623] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1128-975-1

EXPIRATION DATE: 02/28/2006

EQUIPMENT DESCRIPTION:

UP TO 500 BBL FIXED ROOF CRUDE OIL TANK WITH PV VALVE AUTHORIZED TO OPERATE AT VARIOUS UNSPECIFIED LOCATIONS WITHIN THE HEAVY OIL WESTERN STATIONARY SOURCE (CAN BE OWNED BY PERMITTEE OR RENTED ON AN AS-NEEDED BASIS)

PERMIT UNIT REQUIREMENTS

1. This tank is authorized to operate at CUSA's heavy oil western stationary source (HOWSS) which includes facilities S-1128, S-1129 and S-1141. [District Rule 2201] Federally Enforceable Through Title V Permit
2. The equipment shall not be located within 1,000 feet of the outer boundary of any K-12 school. [CH&SC 42301.6]
3. Permittee shall notify the District Compliance Division of each location at which the operation is located in excess of 24 hours. Such notification shall be made no later than 48 hours after starting operation at the location. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The tank shall be equipped with a fixed roof with no holes or openings. [District Rule 2201] Federally Enforceable Through Title V Permit
5. This tank shall be equipped with a pressure-vacuum (PV) relief valve set to within 10% of the maximum allowable working pressure of the tank, permanently labeled with the operating pressure settings and properly maintained in good operating order in accordance with the manufacturer's instructions. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
6. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
7. Permittee shall conduct True Vapor Pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
8. As used in this permit, the term "source or type" shall mean liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids stored in this unit to determine which are from common source. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
9. For crude oil with an API gravity of 26 degrees or less, the TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623, 6.4.4] Federally Enforceable Through Title V Permit
10. For other organic liquids, the true vapor pressure (TVP) shall be measured using Reid vapor pressure ASTM Method D323, and converting the RVP to TVP at the tank's maximum organic liquid storage temperature. The conversion of RVP to TVP shall be done in accordance of the oil and gas section of "California Air Resources Boards (ARB) Technical Guidance Document to the Criteria and Guidelines Regulations for AB 2588", dated August 1989. As an alternative to using ASTM D 323, the TVP of crude oil with an API gravity range of greater than 26 degrees up to 30 degrees may be determined by using other equivalent test methods approved by APCO, ARB and EPA. [District Rule 4623, 6.4.3] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

11. Tank liquid throughput shall not exceed 750 barrels per day and 91,250 barrels per year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. This permit authorizes tank cleaning that is not the result of breakdowns or poor maintenance as a routine maintenance activity. [District Rule 2020] Federally Enforceable Through Title V Permit
13. Permittee shall notify the APCO in writing at least three (3) days prior to performing the first interior tank cleaning activity at a particular location; no notification is required for subsequent cleaning activities at that location. Written notification shall include the following: 1) the Permit to Operate number and physical location of the tank, 2) the date and time that tank cleaning activities will begin, and 3) the method to be used to clean the tank, including any solvents to be used. [District Rule 2080] Federally Enforceable Through Title V Permit
14. This tank shall not be required to de-gas before commencing cleaning activities. All other applicable requirements shall be complied with before, during, and after tank cleaning activities. [District Rule 2080] Federally Enforceable Through Title V Permit
15. While performing tank cleaning activities, operators may only use the following cleaning agents: diesel, solvents with an initial boiling point of greater than 302 degrees F, solvents with a vapor pressure of less than 0.5 psia, or solvents with 50 grams of VOC per liter or less. [District Rule 2080] Federally Enforceable Through Title V Permit
16. Steam cleaning shall only be allowed at locations where wastewater treatment facilities are limited, or during the months of December through March. [District Rule 2080] Federally Enforceable Through Title V Permit
17. Permittee shall maintain records of dates of start and completion dates/times of vessel cleaning activities, and methods of cleaning used. [District Rule 2520] Federally Enforceable Through Title V Permit
18. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, API gravity and throughput. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
19. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rules 2520 and 4623] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1128-976-1

EXPIRATION DATE: 02/28/2006

EQUIPMENT DESCRIPTION:

UP TO 500 BBL FIXED ROOF CRUDE OIL TANK WITH PV VALVE AUTHORIZED TO OPERATE AT VARIOUS UNSPECIFIED LOCATIONS WITHIN THE HEAVY OIL WESTERN STATIONARY SOURCE (CAN BE OWNED BY PERMITTEE OR RENTED ON AN AS-NEEDED BASIS)

PERMIT UNIT REQUIREMENTS

1. This tank is authorized to operate at CUSA's heavy oil western stationary source (HOWSS) which includes facilities S-1128, S-1129 and S-1141. [District Rule 2201] Federally Enforceable Through Title V Permit
2. The equipment shall not be located within 1,000 feet of the outer boundary of any K-12 school. [CH&SC 42301.6]
3. Permittee shall notify the District Compliance Division of each location at which the operation is located in excess of 24 hours. Such notification shall be made no later than 48 hours after starting operation at the location. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The tank shall be equipped with a fixed roof with no holes or openings. [District Rule 2201] Federally Enforceable Through Title V Permit
5. This tank shall be equipped with a pressure-vacuum (PV) relief valve set to within 10% of the maximum allowable working pressure of the tank, permanently labeled with the operating pressure settings and properly maintained in good operating order in accordance with the manufacturer's instructions. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
6. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
7. Permittee shall conduct True Vapor Pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
8. As used in this permit, the term "source or type" shall mean liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids stored in this unit to determine which are from common source. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
9. For crude oil with an API gravity of 26 degrees or less, the TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623, 6.4.4] Federally Enforceable Through Title V Permit
10. For other organic liquids, the true vapor pressure (TVP) shall be measured using Reid vapor pressure ASTM Method D323, and converting the RVP to TVP at the tank's maximum organic liquid storage temperature. The conversion of RVP to TVP shall be done in accordance of the oil and gas section of "California Air Resources Boards (ARB) Technical Guidance Document to the Criteria and Guidelines Regulations for AB 2588", dated August 1989. As an alternative to using ASTM D 323, the TVP of crude oil with an API gravity range of greater than 26 degrees up to 30 degrees may be determined by using other equivalent test methods approved by APCO, ARB and EPA. [District Rule 4623, 6.4.3] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

11. Tank liquid throughput shall not exceed 750 barrels per day and 91,250 barrels per year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. This permit authorizes tank cleaning that is not the result of breakdowns or poor maintenance as a routine maintenance activity. [District Rule 2020] Federally Enforceable Through Title V Permit
13. Permittee shall notify the APCO in writing at least three (3) days prior to performing the first interior tank cleaning activity at a particular location; no notification is required for subsequent cleaning activities at that location. Written notification shall include the following: 1) the Permit to Operate number and physical location of the tank, 2) the date and time that tank cleaning activities will begin, and 3) the method to be used to clean the tank, including any solvents to be used. [District Rule 2080] Federally Enforceable Through Title V Permit
14. This tank shall not be required to de-gas before commencing cleaning activities. All other applicable requirements shall be complied with before, during, and after tank cleaning activities. [District Rule 2080] Federally Enforceable Through Title V Permit
15. While performing tank cleaning activities, operators may only use the following cleaning agents: diesel, solvents with an initial boiling point of greater than 302 degrees F, solvents with a vapor pressure of less than 0.5 psia, or solvents with 50 grams of VOC per liter or less. [District Rule 2080] Federally Enforceable Through Title V Permit
16. Steam cleaning shall only be allowed at locations where wastewater treatment facilities are limited, or during the months of December through March. [District Rule 2080] Federally Enforceable Through Title V Permit
17. Permittee shall maintain records of dates of start and completion dates/times of vessel cleaning activities, and methods of cleaning used. [District Rule 2520] Federally Enforceable Through Title V Permit
18. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, API gravity and throughput. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
19. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rules 2520 and 4623] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1128-977-1

EXPIRATION DATE: 02/28/2006

EQUIPMENT DESCRIPTION:

UP TO 500 BBL FIXED ROOF CRUDE OIL TANK WITH PV VALVE AUTHORIZED TO OPERATE AT VARIOUS UNSPECIFIED LOCATIONS WITHIN THE HEAVY OIL WESTERN STATIONARY SOURCE (CAN BE OWNED BY PERMITTEE OR RENTED ON AN AS-NEEDED BASIS)

PERMIT UNIT REQUIREMENTS

1. This tank is authorized to operate at CUSA's heavy oil western stationary source (HOWSS) which includes facilities S-1128, S-1129 and S-1141. [District Rule 2201] Federally Enforceable Through Title V Permit
2. The equipment shall not be located within 1,000 feet of the outer boundary of any K-12 school. [CH&SC 42301.6]
3. Permittee shall notify the District Compliance Division of each location at which the operation is located in excess of 24 hours. Such notification shall be made no later than 48 hours after starting operation at the location. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The tank shall be equipped with a fixed roof with no holes or openings. [District Rule 2201] Federally Enforceable Through Title V Permit
5. This tank shall be equipped with a pressure-vacuum (PV) relief valve set to within 10% of the maximum allowable working pressure of the tank, permanently labeled with the operating pressure settings and properly maintained in good operating order in accordance with the manufacturer's instructions. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
6. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
7. Permittee shall conduct True Vapor Pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
8. As used in this permit, the term "source or type" shall mean liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids stored in this unit to determine which are from common source. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
9. For crude oil with an API gravity of 26 degrees or less, the TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623, 6.4.4] Federally Enforceable Through Title V Permit
10. For other organic liquids, the true vapor pressure (TVP) shall be measured using Reid vapor pressure ASTM Method D323, and converting the RVP to TVP at the tank's maximum organic liquid storage temperature. The conversion of RVP to TVP shall be done in accordance of the oil and gas section of "California Air Resources Boards (ARB) Technical Guidance Document to the Criteria and Guidelines Regulations for AB 2588", dated August 1989. As an alternative to using ASTM D 323, the TVP of crude oil with an API gravity range of greater than 26 degrees up to 30 degrees may be determined by using other equivalent test methods approved by APCO, ARB and EPA. [District Rule 4623, 6.4.3] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

11. Tank liquid throughput shall not exceed 750 barrels per day and 91,250 barrels per year. [District Rule 2201] Federally Enforceable Through Title V Permit
12. This permit authorizes tank cleaning that is not the result of breakdowns or poor maintenance as a routine maintenance activity. [District Rule 2020] Federally Enforceable Through Title V Permit
13. Permittee shall notify the APCO in writing at least three (3) days prior to performing the first interior tank cleaning activity at a particular location; no notification is required for subsequent cleaning activities at that location. Written notification shall include the following: 1) the Permit to Operate number and physical location of the tank, 2) the date and time that tank cleaning activities will begin, and 3) the method to be used to clean the tank, including any solvents to be used. [District Rule 2080] Federally Enforceable Through Title V Permit
14. This tank shall not be required to de-gas before commencing cleaning activities. All other applicable requirements shall be complied with before, during, and after tank cleaning activities. [District Rule 2080] Federally Enforceable Through Title V Permit
15. While performing tank cleaning activities, operators may only use the following cleaning agents: diesel, solvents with an initial boiling point of greater than 302 degrees F, solvents with a vapor pressure of less than 0.5 psia, or solvents with 50 grams of VOC per liter or less. [District Rule 2080] Federally Enforceable Through Title V Permit
16. Steam cleaning shall only be allowed at locations where wastewater treatment facilities are limited, or during the months of December through March. [District Rule 2080] Federally Enforceable Through Title V Permit
17. Permittee shall maintain records of dates of start and completion dates/times of vessel cleaning activities, and methods of cleaning used. [District Rule 2520] Federally Enforceable Through Title V Permit
18. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, API gravity and throughput. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
19. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rules 2520 and 4623] Federally Enforceable Through Title V Permit

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

APPENDIX B
Quarterly Net Emissions Change (QNEC)

Quarterly Net Emissions Change (QNEC)

The Quarterly Net Emissions Change is used to complete the emission profile screen for the District's PAS database. The QNEC shall be calculated as follows:

QNEC = PE2 - PE1, where:

QNEC = Quarterly Net Emissions Change for each emissions unit, lb/qtr.

PE2 = Post Project Potential to Emit for each emissions unit, lb/qtr.

PE1 = Pre-Project Potential to Emit for each emissions unit, lb/qtr.

Quarterly NEC [QNEC]					
Permit Unit	Annual PE2 (lb/yr)	Annual PE1 (lb/yr)	Quarterly PE2 (lb/qtr)	Quarterly PE1 (lb/qtr)	QNEC (lb/qtr)
S-1128-974-2	14,696	4770	3674	1193	2481
S-1128-975-2	14,696	4770	3674	1193	2481
S-1128-976-2	4770	4770	1193	1193	0
S-1128-977-2	4770	4770	1193	1193	0

APPENDIX C

Pre-Project Emissions Calculations

Pre Project all Tanks

Tank Input Data	
permit number (S-xxxx-xx-xx)	Pre-Project
facility tank I.D.	--
nearest city {1: Bakersfield, 2: Fresno, 3: Stockton}	1
tank ROC vapor pressure (psia)	0.49
liquid bulk storage temperature, Tb (°F)	195
is this a constant-level tank? {yes, no}	no
will flashing losses occur in this tank (only if first-line tank)? {yes, no}	no
breather vent pressure setting range (psi)	1
diameter of tank (feet)	18
capacity of tank (bbl)	500
conical or dome roof? {c, d}	c
shell height of tank (feet)	11
average liquid height (feet)	5.5
are the roof and shell the same color? {yes,no}	yes
For roof:	
color {1:Spec Al, 2:Diff Al, 3:Light, 4:Med, 5:Red, 6:White}	4
condition {1: Good, 2: Poor}	1
-----This row only used if shell is different color from roof-----	3
-----This row only used if shell is different color from roof-----	1

Liquid Input Data	A	B
maximum daily fluid throughput (bbl)		750
maximum annual fluid throughput (bbl)	91,250	91,250
-----This row only used if flashing losses occur in this tank-----		100
-----This row only used if flashing losses occur in this tank-----		36,500
molecular weight, Mw (lb/lb-mol)		100

Calculated Values	A	B
daily maximum ambient temperature, T _{ax} (°F)		77.65
daily minimum ambient temperature, T _{an} (°F)		53.15
daily total solar insulation factor, I (Btu/ft ² -day)		1648.9
atmospheric pressure, P _a (psia)		14.47
water vapor pressure at daily maximum liquid surface temperature (T _{lx}), P _{vx} (psia)	152.2	3.9495
water vapor pressure at daily minimum liquid surface temperature (T _{ln}), P _{vn} (psia)	141.4	3.0118
water vapor pressure at average liquid surface temperature (T _{la}), P _{va} (psia)	146.8	3.4592
roof outage, H _{ro} (feet)		0.1875
vapor space volume, V _v (cubic feet)		1447.29
paint factor, alpha		0.68
vapor density, W _v (lb/cubic foot)		0.0075
daily vapor temperature range, delta T _v (degrees Rankine)		49.04
vapor space expansion factor, K _e		0.0751

APPENDIX D
Post-Project Emissions Calculations

Maximum Individual Post Project emissions "-974

& '-975

Tank Input Data	
permit number (S-xxxx-xx-xx)	974-3 & 975-3
facility tank I.D.	--
nearest city {1: Bakersfield, 2: Fresno, 3: Stockton}	1
tank ROC vapor pressure (psia)	0.49
liquid bulk storage temperature, Tb (°F)	195
is this a constant-level tank? {yes, no}	no
will flashing losses occur in this tank (only if first-line tank)? {yes, no}	no
breather vent pressure setting range (psi)	1
diameter of tank (feet)	18
capacity of tank (bbl)	500
conical or dome roof? {c, d}	c
shell height of tank (feet)	11
average liquid height (feet)	5.5
are the roof and shell the same color? {yes,no}	yes
For roof:	
color {1:Spec Al, 2:Diff Al, 3:Light, 4:Med, 5:Red, 6:White}	4
condition {1: Good, 2: Poor}	1
-----This row only used if shell is different color from roof-----	3
-----This row only used if shell is different color from roof-----	1

Liquid Input Data	A	B
maximum daily fluid throughput (bbl)		3,000
maximum annual fluid throughput (bbl)	293,825	293,825
-----This row only used if flashing losses occur in this tank-----		100
-----This row only used if flashing losses occur in this tank-----		36,500
molecular weight, Mw (lb/lb-mol)		100

Calculated Values	A	B
daily maximum ambient temperature, T _{ax} (°F)		77.65
daily minimum ambient temperature, T _{an} (°F)		53.15
daily total solar insulation factor, I (Btu/ft ² -day)		1648.9
atmospheric pressure, P _a (psia)		14.47
water vapor pressure at daily maximum liquid surface temperature (T _{lx}), P _{vx} (psia)	152.2	3.9495
water vapor pressure at daily minimum liquid surface temperature (T _{ln}), P _{vn} (psia)	141.4	3.0118
water vapor pressure at average liquid surface temperature (T _{la}), P _{va} (psia)	146.8	3.4592
roof outage, H _{ro} (feet)		0.1875
vapor space volume, V _v (cubic feet)		1447.29
paint factor, alpha		0.68
vapor density, W _v (lb/cubic foot)		0.0075
daily vapor temperature range, delta T _v (degrees Rankine)		49.04
vapor space expansion factor, K _e		0.0751

Results	lb/year	lb/day
Standing Storage Loss	299	0.82
Working Loss	14,397	147.00
Flashing Loss	N/A	N/A
Total Uncontrolled Tank VOC Emissions	14,696	147.8

Summary Table	
Permit Number	4-3 & 975-3
Facility Tank I.D.	--
Tank capacity (bbl)	500
Tank diameter (ft)	18
Tank shell height (ft)	11
Conical or Dome Roof	Conical
Maximum Daily Fluid Throughput (bbl/day)	3,000
Maximum Annual Fluid Throughput (bbl/year)	293,825
Maximum Daily Oil Throughput (bbl/day)	N/A
Maximum Annual Oil Throughput (bbl/year)	N/A
Total Uncontrolled Daily Tank VOC Emissions (lb/day)	147.8
Total Uncontrolled Annual Tank VOC Emissions (lb/year)	14,696

Maximum Individual Post Project Emissions -976

& '-977

Tank Input Data	
permit number (S-xxxx-xx-xx)	976-3 & 977-3
facility tank I.D.	--
nearest city {1: Bakersfield; 2: Fresno; 3: Stockton}	1
tank ROC vapor pressure (psia)	0.49
liquid bulk storage temperature, Tb (°F)	195
is this a constant-level tank? {yes, no}	no
will flashing losses occur in this tank (only if first-line tank)? {yes, no}	no
breather vent pressure setting range (psi)	1
diameter of tank (feet)	18
capacity of tank (bbl)	500
conical or dome roof? {c, d}	c
shell height of tank (feet)	11
average liquid height (feet)	5.5
are the roof and shell the same color? {yes,no}	yes
For roof:	
color {1:Spec Al, 2:Diff Al, 3:Light, 4:Med, 5:Red, 6:White}	4
condition {1: Good, 2: Poor}	1
-----This row only used if shell is different color from roof-----	3
-----This row only used if shell is different color from roof-----	1

Liquid Input Data	A	B
maximum daily fluid throughput (bbl)		3,000
maximum annual fluid throughput (bbl)	91,250	91,250
-----This row only used if flashing losses occur in this tank-----		100
-----This row only used if flashing losses occur in this tank-----		36,500
molecular weight, Mw (lb/lb-mol)		100

Calculated Values	A	B
daily maximum ambient temperature, T _{ax} (°F)		77.65
daily minimum ambient temperature, T _{an} (°F)		53.15
daily total solar insolation factor, I (Btu/ft ² -day)		1648.9
atmospheric pressure, P _a (psia)		14.47
water vapor pressure at daily maximum liquid surface temperature (T _{lx}), P _{vx} (psia)	152.2	3.9495
water vapor pressure at daily minimum liquid surface temperature (T _{ln}), P _{vn} (psia)	141.4	3.0118
water vapor pressure at average liquid surface temperature (T _{la}), P _{va} (psia)	146.8	3.4592
roof outage, H _{ro} (feet)		0.1875
vapor space volume, V _v (cubic feet)		1447.29
paint factor, alpha		0.68
vapor density, W _v (lb/cubic foot)		0.0075
daily vapor temperature range, delta T _v (degrees Rankine)		49.04
vapor space expansion factor, K _e		0.0751

Results	lb/year	lb/day
Standing Storage Loss	299	0.82
Working Loss	4,471	147.00
Flashing Loss	N/A	N/A
Total Uncontrolled Tank VOC Emissions	4,770	147.8

Summary Table	
Permit Number	6-3 & 977-3
Facility Tank I.D.	--
Tank capacity (bbl)	500
Tank diameter (ft)	18
Tank shell height (ft)	11
Conical or Dome Roof	Conical
Maximum Daily Fluid Throughput (bbl/day)	3,000
Maximum Annual Fluid Throughput (bbl/year)	91,250
Maximum Daily Oil Throughput (bbl/day)	N/A
Maximum Annual Oil Throughput (bbl/year)	N/A
Total Uncontrolled Daily Tank VOC Emissions (lb/day)	147.8
Total Uncontrolled Annual Tank VOC Emissions (lb/year)	4,770

Tank Input Data		Post-Project 1Y
permit number (S-xxxx-xx-xx)		--
facility tank I.D.		1
nearest city {1: Bakersfield, 2: Fresno, 3: Stockton}		1
tank ROC vapor pressure (psia)		0.49
liquid bulk storage temperature, Tb (°F)		195
is this a constant-level tank? {yes, no}		no
will flashing losses occur in this tank (only if first-line tank)? {yes, no}		no
breather vent pressure setting range (psi)		1
diameter of tank (feet)		18
capacity of tank (bbl)		500
conical or dome roof? {c, d}		c
shell height of tank (feet)		11
average liquid height (feet)		5.5
are the roof and shell the same color? {yes,no}		yes
For roof:		
color {1:Spec Al, 2:Diff Al, 3:Light, 4:Med, 5:Red, 6:White}		4
condition {1: Good, 2: Poor}		1
-----This row only used if shell is different color from roof-----		3
-----This row only used if shell is different color from roof-----		1

Fluid Input Data	A	B
maximum daily fluid throughput (bbl)		3,000
maximum annual fluid throughput (bbl)	266,350	266,350
-----This row only used if flashing losses occur in this tank-----		100
-----This row only used if flashing losses occur in this tank-----		36,500
molecular weight, Mw (lb/lb-mol)		100

Calculated Values	A	B
daily maximum ambient temperature, T _{ax} (°F)		77.65
daily minimum ambient temperature, T _{an} (°F)		53.15
daily total solar insolation factor, I (Btu/ft ² -day)		1648.9
atmospheric pressure, P _a (psia)		14.47
water vapor pressure at daily maximum liquid surface temperature (T _{lx}), P _{vx} (psia)	152.2	3.9495
water vapor pressure at daily minimum liquid surface temperature (T _{ln}), P _{vn} (psia)	141.4	3.0118
water vapor pressure at average liquid surface temperature (T _{la}), P _{va} (psia)	146.8	3.4592
roof outage, H _{ro} (feet)		0.1875
vapor space volume, V _v (cubic feet)		1447.29
paint factor, alpha		0.68
vapor density, W _v (lb/cubic foot)		0.0075
daily vapor temperature range, delta T _v (degrees Rankine)		49.04
vapor space expansion factor, K _e		0.0751

Results	lb/year	lb/day
Standing Storage Loss	299	0.82
Working Loss	13,051	147.00
Flashing Loss	N/A	N/A

Total Uncontrolled Tank VOC Emissions	13,350	147.8
--	---------------	--------------

Summary Table	
Permit Number	-Project 1Y
Facility Tank I.D.	--
Tank capacity (bbl)	500
Tank diameter (ft)	18
Tank shell height (ft)	11
Conical or Dome Roof	Conical
Maximum Daily Fluid Throughput (bbl/day)	3,000
Maximum Annual Fluid Throughput (bbl/year)	266,350
Maximum Daily Oil Throughput (bbl/day)	N/A
Maximum Annual Oil Throughput (bbl/year)	N/A
Total Uncontrolled Daily Tank VOC Emissions (lb/day)	147.8
Total Uncontrolled Annual Tank VOC Emissions (lb/year)	13,350

Tank Input Data		Specified Locations
permit number (S-xxxx-xx-xx)		
facility tank I.D.		--
nearest city {1: Bakersfield, 2: Fresno, 3: Stockton}		1
tank ROC vapor pressure (psia)		0.49
liquid bulk storage temperature, Tb (°F)		195
is this a constant-level tank? {yes, no}		no
will flashing losses occur in this tank (only if first-line tank)? {yes, no}		no
breather vent pressure setting range (psi)		1
diameter of tank (feet)		18
capacity of tank (bbl)		50
conical or dome roof? {c, d}		c
shell height of tank (feet)		11
average liquid height (feet)		5.5
are the roof and shell the same color? {yes,no}		yes
For roof:		
color {1:Spec Al, 2:Diff Al, 3:Light, 4:Med, 5:Red, 6:White}		4
condition {1: Good, 2: Poor}		1
-----This row only used if shell is different color from roof-----		3
-----This row only used if shell is different color from roof-----		1

Liquid Input Data	A	B
maximum daily fluid throughput (bbl)		12,000
maximum annual fluid throughput (bbl)	496,400	496,400
-----This row only used if flashing losses occur in this tank-----		100
-----This row only used if flashing losses occur in this tank-----		36,500
molecular weight, Mw (lb/lb-mol)		100

Calculated Values	A	B
daily maximum ambient temperature, T _{ax} (°F)		77.65
daily minimum ambient temperature, T _{an} (°F)		53.15
daily total solar insolation factor, I (Btu/ft ² -day)		1648.9
atmospheric pressure, P _a (psia)		14.47
water vapor pressure at daily maximum liquid surface temperature (T _{lx}), P _{vx} (psia)	152.2	3.9495
water vapor pressure at daily minimum liquid surface temperature (T _{ln}), P _{vn} (psia)	141.4	3.0118
water vapor pressure at average liquid surface temperature (T _{la}), P _{va} (psia)	146.8	3.4592
roof outage, H _{ro} (feet)		0.1875
vapor space volume, V _v (cubic feet)		1447.29
paint factor, alpha		0.68
vapor density, W _v (lb/cubic foot)		0.0075
daily vapor temperature range, delta T _v (degrees Rankine)		49.04
vapor space expansion factor, K _e		0.0751

Results	lb/year	lb/day
Standing Storage Loss	299	0.82
Working Loss	24,324	588.00
Flashing Loss	N/A	N/A

Total Uncontrolled Tank VOC Emissions	24,622	588.8
--	---------------	--------------

Summary Table	
Permit Number	Locations
Facility Tank I.D.	--
Tank capacity (bbl)	50
Tank diameter (ft)	18
Tank shell height (ft)	11
Conical or Dome Roof	Conical
Maximum Daily Fluid Throughput (bbl/day)	12,000
Maximum Annual Fluid Throughput (bbl/year)	496,400
Maximum Daily Oil Throughput (bbl/day)	N/A
Maximum Annual Oil Throughput (bbl/year)	N/A
Total Uncontrolled Daily Tank VOC Emissions (lb/day)	588.8
Total Uncontrolled Annual Tank VOC Emissions (lb/year)	24,622

APPENDIX E
BACT Guideline 7.3.1

San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 7.3.1*

Last Update: 10/1/2002

**Petroleum and Petrochemical Production - Fixed Roof Organic
Liquid Storage or Processing Tank, < 5,000 bbl Tank capacity ****

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
VOC	PV-vent set to within 10% of maximum allowable pressure	99% control (Waste gas incinerated in steam generator, heater treater, or other fired equipment and inspection and maintenance program; transfer of noncondensable vapors to gas pipeline; reinjection to formation (if appropriate wells are available); or equal).	

** Converted from Determinations 7.1.11 (10/01/02).

BACT is the most stringent control technique for the emissions unit and class of source. Control techniques that are not achieved in practice or contained in a state implementation plan must be cost effective as well as feasible. Economic analysis to demonstrate cost effectiveness is required for all determinations that are not achieved in practice or contained in an EPA approved State Implementation Plan.

***This is a Summary Page for this Class of Source - Permit Specific BACT Determinations on Next Page(s)**

APPENDIX F BACT Analysis

Top Down BACT Analysis

VOC emissions may occur when produced fluids from crude oil production equipment enter oil storage tanks.

Step 1 - Identify All Possible Control Technologies

BACT Guideline 7.3.1 lists the controls that are considered potentially applicable to fixed-roof organic liquid storage or processing tank <5,000 bbl tank capacity. The VOC control measures are summarized below.

Technologically feasible:

99% control (waste gas incinerated in steam generator, heater treater, or other fired equipment and inspection and maintenance program; transfer of uncondensed vapors to gas pipeline or reinjection to formation (if appropriate wells are available).

Achieved in Practice:

PV relief valve set to within 10% of maximum allowable pressure.

Step 2 - Eliminate Technologically Infeasible Options

All of the above identified control options are technologically feasible.

Step 3 - Rank Remaining Control Technologies by Control Effectiveness

1. 99% control (waste gas incinerated in steam generator, heater treater, or other fired equipment and inspection and maintenance program; transfer of uncondensed vapors to gas pipeline or reinjection to formation (if appropriate wells are available).
2. PV relief valve set to within 10% of maximum allowable pressure.

Step 4 - Cost Effectiveness Analysis

The applicant obtained a capital cost (see cost breakdown in Appendix F for a vapor control system to address the technologically feasible control option of \$984,750.

The annualized capital cost is

$AP = (P) \left\{ \frac{i(1+i)^n}{(1+i)^n - 1} \right\}$, where
AP = Equivalent Annual Capital Cost of Control Equip.
P = Present value of the control equipment, including installation cost. \$51,000
i = interest rate (use 10% per policy)
n = equipment life (assume 10 years per policy)

$$AP = (P) \left\{ \frac{(0.1)(1+0.1)^{10}}{(1+0.1)^{10} - 1} \right\}$$

$$AP = (P) \times (0.16274) = (\$984,750)(0.1627) = \$160,218.83/\text{year}$$

For calculation of the amount of VOCs removed from each tank (emissions unit) with the vapor control system, 100% control is assumed. The VOCs removed annually are

$$\text{Tons/yr} = 14,696 \text{ lb/yr} / 2000 \text{ lb/ton} = 7.35 \text{ tons/yr}$$

$$\begin{aligned} \text{Annualized cost} &= \$160,218.83/\text{yr} / 7.35 \text{ tons/yr} \\ &= \$21,798/\text{ton} \end{aligned}$$

This exceeds the cost effectiveness threshold for VOCs of \$17,500/ton. Therefore the vapor control system is not cost effective.

Step 5 - Select BACT

PV relief valve set to within 10% of maximum allowable pressure of the tank.

APPENDIX G

Health Risk Analysis

San Joaquin Valley Air Pollution Control District Risk Management Review

To: Steve Davidson, AQE – Permit Services
 From: Trevor Joy, AQS – Technical Services
 Date: May 9, 2011
 Facility Name: Chevron USA
 Location: Chevron's HOW SS
 Application #(s): S-1128-974-2, 975-2, 976-2, 977-2
 Project #: 1110599

A. RMR SUMMARY

Categories	Receptor Specific Risk for Baker Tanks (units 974, 975, 976, 977)	Non-Receptor Specific Risk for Facilities 1128, 1129, and 1141	Total risk at a specific receptor	Facility Totals (S-1128, S-1129, S-1141, and S-1549)
Prioritization Score	0.5	>1	NA	>1.0
Acute Hazard Index	0.08	0.64	0.26	0.90 ²
Chronic Hazard Index	0.002	0.11	0.01	0.12
Maximum Individual Cancer Risk (10⁻⁶)	2.2 ¹	6.7	2.5	9.3 ²
T-BACT Required?	No			
Special Permit Conditions?	Yes			

¹The cancer risk is a worker adjusted value. The per unit cancer score is less than 1.0 E-6 so T-BACT is not required.

²The Cancer Risk is near the maximum risk and the Acute Hazard Index is near the maximum risk. No further projects will be allowed without consideration of all facilities involved.

³Risks for S-1128-949-0, S-1128-951-0, S-1128-76-23, S-1129-548-0 were modified (reduced), and the ATC for unit 972 and the associated risks were deleted. Modification details have been noted in HEARTS.

Proposed Permit Conditions

To ensure that human health risks will not exceed District allowable levels; the following permit conditions must be included for:

Units 974, 975, 976, 977

The increase in emissions from the Baker Tanks at 1Y Gauge Setting 17 (35.35312, -119.66393) shall not exceed 8,580 Lbs VOC/yr

The total increase in emissions for units 974-977 shall not exceed: 18.36 lbs/hr at locations

Latitude	Longitude	Location Description
35.35543	-119.65096	31X Oil Cleaning Plant
35.30953	-119.6431	McKittrick Diatomite GS
35.31352	-119.65715	McKittrick Station L
35.33833	-119.6683	NA

The total increase in emissions for units 974-977 shall not exceed: 19,852 lbs/yr at locations

Latitude	Longitude	Location Description
35.35543	-119.65096	31X Oil Cleaning Plant
35.35312	-119.66393	1Y Gauge 17
35.30953	-119.6431	McKittrick Diatomite GS
35.31352	-119.65715	McKittrick Station L
35.33833	-119.6683	NA

The total increase in emissions for units 974-977 at other various locations shall not exceed 18.36 Lbs VOC/hr and 4,770 Lbs VOC/yr and the nearest Business receptor must be at least 500 meter away, the nearest residential receptor must be at least 670 meters away.

B. RMR REPORT

I. Project Description

Technical Services received a request on March 7, 2011 to perform a Risk Management Review for a proposed: increase in the daily throughput on 4 baker tanks; on May 2, 2011 a revised request with new emissions and emission parameters was submitted.

II. Analysis

Technical Services performed a prioritization using the District's HEARTs database. Emissions were calculated using "Oilfield Equipment Fugitives Heavy Crude Oil" emission factors. In accordance with the District's Risk Management Policy for Permitting New and Modified Sources (APR 1905, March 2, 2001), risks from the proposed unit's toxic emissions were prioritized using the procedure in the 1990 CAPCOA Facility Prioritization Guidelines and incorporated in the District's HEARTs database. The prioritization score for the facility was greater than 1.0 (see RMR Summary Table). Therefore, a refined analysis was required and performed. AERMOD was used, with the parameters outlined below and concatenated meteorological data for Missouri Triangle 2004 to 2008 to determine the maximum dispersion factor at the nearest residential and business receptors. These dispersion factors were input into the HARP model to calculate the chronic and acute hazard indices and the carcinogenic risk for the project. AERMAP was used to import area specific terrain. For this project, specific source locations and receptors were incorporated

into AERMOD. The worse case scenario, all emissions from the baker tanks being used at the same source at the same time, was modeled. Note that special conditions limiting VOCs at specific locations were applied.

The following parameters were used for the review:

Analysis Parameter All Units at specific locations (location noted in Proposed Permit Conditions)			
VOC emission (lbs/hr)*	18.36	Source Type	Area
VOC emissions (lbs/yr)*	19,852	Residence Receptor (m)	670
Area Source Length (m)	13.1	Business Receptor (m)	500
Area Source Width (m)	2.6	Release Height (m)	3.2

* The emission from the Baker Tanks at 1Y Gauge Setting 17 (35.35312, -119.66393) shall not exceed 8,580 Lbs VOC/yr. The emission at other various locations shall not exceed 18.36 Lbs VOC/hr and 4,770 Lbs VOC/yr.

An AAQA for the project was requested. Since VOCs are the only criteria pollutant associated with the project and VOCs are not evaluated in an AAQA, no further review was performed.

III. Conclusion

The acute and chronic hazard indices were below 1.0; and the cancer risk is less than or equal to 10.0 in a million. **In accordance with the District's Risk Management Policy, the project is approved without Toxic Best Available Control Technology (T-BACT).**

To ensure that human health risks will not exceed District allowable levels; the permit conditions listed on page 1 of this report must be included for this proposed unit.

These conclusions are based on the data provided by the applicant and the project engineer. Therefore, this analysis is valid only as long as the proposed data and parameters do not change.

APPENDIX H
Statewide Compliance Certification



Bruce A. Johnson
Vice President and General
Manager

San Joaquin Valley BU
Chevron North America
Exploration and Production
P.O. Box 1392
Bakersfield, CA 93302

August 25, 2010

Mr. Leonard Scandura
Regional Manager, Permit Services
San Joaquin Valley APCD
34946 Flyover Court
Bakersfield, CA 93308

RE: Statewide Compliance Certification for Pending Permit Applications

Dear Mr. Scandura:

As required under SJVAPCD District Rule 2201 § 4.15.2, and Section 173 (a) (3) of the Clean Air Act, 42 U.S.C. Section 7503, Chevron U.S.A. Inc. hereby submits this letter of certification regarding statewide compliance for pending permit applications.

Based on reasonable inquiry and to the best of my knowledge and belief, the major stationary sources, as defined in the jurisdiction where the facilities are located, that are owned or operated by Chevron U.S.A. Inc. in the state of California, as listed below, are subject to emission limitations, and are in compliance, or on a schedule for compliance with all applicable emission limitations and standards under the Clean Air Act:

- El Segundo Refinery
- Richmond Refinery
- Banta Marketing Terminal
- Huntington Beach Marketing Terminal
- Montebello Marketing Terminal
- Sacramento Marketing Terminal
- Van Nuys Marketing Terminal
- San Joaquin Valley Business Unit:
 - Cross Valley Carneras Gas Compressor Facility (Kern County)
 - Fresno County Heavy Oil Source (Coalinga)
 - Fresno County Natural Gas Source (Coalinga)
 - Kern County Central Heavy Oil Source (Kern River)
 - Kern County Western Heavy Oil Source (Midway Sunset and Cymric)
 - Kern County Western Light Oil Source (Midway Sunset, Cymric, and Lost Hills)
 - Kern County Western Gas Source (Cymric and Lost Hills)
 - San Ardo (Monterey County)

- **Chevron Global Power (Joint Venture Facility):**
 - **Coalinga Cogeneration Company in Fresno County**
 - **Kern River Cogeneration Company in Kern County**
 - **Mid-Set Cogeneration Company in Kern County**
 - **Salinas River Cogeneration Company in Monterey County**
 - **Sargent Canyon Cogeneration Company in Monterey County**
 - **Sunrise Power Company LLC in Kern County**
 - **Sycamore Cogeneration Company in Kern County**

Please contact Martin Lundy at (661) 654-7142 if you have any questions. Thank you.

Sincerely,



Bruce A. Johnson

APPENDIX I
Draft ATCs

San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

ISSUANCE DATE: DRAFT
DRAFT

PERMIT NO: S-1128-974-2

LEGAL OWNER OR OPERATOR: CHEVRON USA INC
MAILING ADDRESS: P O BOX 1392
BAKERSFIELD, CA 93302

LOCATION: HEAVY OIL WESTERN STATIONARY SOURCE
KERN COUNTY

EQUIPMENT DESCRIPTION:

MODIFICATION OF UP TO 500 BBL FIXED ROOF CRUDE OIL TANK WITH PV VALVE AUTHORIZED TO OPERATE AT VARIOUS UNSPECIFIED LOCATIONS WITHIN THE HEAVY OIL WESTERN STATIONARY SOURCE (CAN BE OWNED BY PERMITTEE OR RENTED ON AN AS-NEEDED BASIS): INCREASE THROUGHPUT TO 3,000 BBL/DAY AND 293,825 BBL/YEAR.

CONDITIONS

1. This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. This tank is authorized to operate at CUSA's heavy oil western stationary source (HOWSS) which includes facilities S-1128, S-1129 and S-1141. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The equipment shall not be located within 1,000 feet of the outer boundary of any K-12 school. [CH&SC 42301.6]
5. Permittee shall notify the District Compliance Division of each location at which the operation is located in excess of 24 hours. Such notification shall be made no later than 48 hours after starting operation at the location. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The tank shall be equipped with a fixed roof with no holes or openings. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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

Seyed Sadredin, Executive Director APCO

DAVID WARNER, Director of Permit Services
S-1128-974-2: Jul 28 2011 8:44AM - DAVIDSDS : Joint Inspection NOT Required

7. This tank shall be equipped with a pressure-vacuum (PV) relief valve set to within 10% of the maximum allowable working pressure of the tank, permanently labeled with the operating pressure settings and properly maintained in good operating order in accordance with the manufacturer's instructions. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
8. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
9. Tank liquid throughput shall not exceed 3,000 barrels per day. [District Rule 2201 and 4102] Federally Enforceable Through Title V Permit
10. Tank liquid throughput shall not exceed 293,825 barrels per year. [District Rule 2201 and 4102] Federally Enforceable Through Title V Permit
11. The total combined liquid throughput of tanks S-1128-974, '-975, '-976, and '-977 shall not exceed 462,350 BBLs/year, the nearest business receptor must be at least 500 meters away, and the nearest residential receptor must be at least 670 meters away when located at any location not specifically listed on this permit [District Rule 2201 and 4102] Federally Enforceable Through Title V Permit
12. The total combined liquid throughput of tanks S-1128-974, '-975, '-976, and '-977 shall not exceed 540,100 barrels per year at the 1Y Gauge Setting 17 (35.35312, -119.66393). [District Rule 2201 and 4102] Federally Enforceable Through Title V Permit
13. The total combined liquid throughput of tanks S-1128-974, '-975, '-976, and '-977 shall not exceed a 770,150 barrels per year at the following locations combined: 31X Oil Cleaning Plant (35.35543, -119.65096), the McKittrick Diatomite GS (35.30953, -119.6431) the McKittrick Station L (35.31352, -119.65715), 1Y GS 5 (35.355, -119.66833), 1Y GS 3 (35.3373, -119.6628), and the 1Y South Steam Plant (35.33833, -119.6683). [District Rule 2201 and 4102] Federally Enforceable Through Title V Permit
14. Permittee shall conduct True Vapor Pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
15. As used in this permit, the term "source or type" shall mean liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids stored in this unit to determine which are from common source. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
16. For crude oil with an API gravity of 26 degrees or less, the TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623, 6.4.4] Federally Enforceable Through Title V Permit
17. For other organic liquids, the true vapor pressure (TVP) shall be measured using Reid vapor pressure ASTM Method D323, and converting the RVP to TVP at the tank's maximum organic liquid storage temperature. The conversion of RVP to TVP shall be done in accordance of the oil and gas section of "California Air Resources Boards (ARB) Technical Guidance Document to the Criteria and Guidelines Regulations for AB 2588", dated August 1989. As an alternative to using ASTM D 323, the TVP of crude oil with an API gravity range of greater than 26 degrees up to 30 degrees may be determined by using other equivalent test methods approved by APCO, ARB and EPA. [District Rule 4623, 6.4.3] Federally Enforceable Through Title V Permit
18. This permit authorizes tank cleaning that is not the result of breakdowns or poor maintenance as a routine maintenance activity. [District Rule 2020] Federally Enforceable Through Title V Permit
19. Permittee shall notify the APCO in writing at least three (3) days prior to performing the first interior tank cleaning activity at a particular location; no notification is required for subsequent cleaning activities at that location. Written notification shall include the following: 1) the Permit to Operate number and physical location of the tank, 2) the date and time that tank cleaning activities will begin, and 3) the method to be used to clean the tank, including any solvents to be used. [District Rule 2080] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. This tank shall not be required to de-gas before commencing cleaning activities. All other applicable requirements shall be complied with before, during, and after tank cleaning activities. [District Rule 2080] Federally Enforceable Through Title V Permit
21. While performing tank cleaning activities, operators may only use the following cleaning agents: diesel, solvents with an initial boiling point of greater than 302 degrees F, solvents with a vapor pressure of less than 0.5 psia, or solvents with 50 grams of VOC per liter or less. [District Rule 2080] Federally Enforceable Through Title V Permit
22. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 2481 lb, 2nd quarter - 2481 lb, 3rd quarter - 2481 lb, and fourth quarter - 2481 lb. The amount of emission reduction credits required to be surrendered for this approval, including the amount required for the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 12/18/08), is: 1st quarter - 3722 lb, 2nd quarter - 3722 lb, 3rd quarter - 3722 lb, and fourth quarter - 3722 lb. [District Rule 2201] Federally Enforceable Through Title V Permit
23. ERC Certificate Number S-2887-1 (or a certificate split from this certificate) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit
24. Steam cleaning shall only be allowed at locations where wastewater treatment facilities are limited, or during the months of December through March. [District Rule 2080] Federally Enforceable Through Title V Permit
25. Permittee shall maintain records of dates of start and completion dates/times of tank cleaning activities, and methods of cleaning used. [District Rule 2520] Federally Enforceable Through Title V Permit
26. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, API gravity and throughput. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
27. The permittee shall keep accurate combined records of each organic liquid stored in tanks S-1128-974, '-975, '-976, and '-978, including the storage temperatures, TVPs, API gravities, throughputs, and physical locations. [District Rule 2201] Federally Enforceable Through Title V Permit
28. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rules 2520 and 4623] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

ISSUANCE DATE: DRAFT
DRAFT

PERMIT NO: S-1128-975-2

LEGAL OWNER OR OPERATOR: CHEVRON USA INC
MAILING ADDRESS: P O BOX 1392
BAKERSFIELD, CA 93302

LOCATION: HEAVY OIL WESTERN STATIONARY SOURCE
KERN COUNTY

EQUIPMENT DESCRIPTION:
MODIFICATION OF UP TO 500 BBL FIXED ROOF CRUDE OIL TANK WITH PV VALVE AUTHORIZED TO OPERATE AT VARIOUS UNSPECIFIED LOCATIONS WITHIN THE HEAVY OIL WESTERN STATIONARY SOURCE (CAN BE OWNED BY PERMITTEE OR RENTED ON AN AS-NEEDED BASIS): INCREASE THROUGHPUT TO 3,000 BBL/DAY AND 293,825 BBL/YEAR.

CONDITIONS

1. This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. This tank is authorized to operate at CUSA's heavy oil western stationary source (HOWSS) which includes facilities S-1128, S-1129 and S-1141. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The equipment shall not be located within 1,000 feet of the outer boundary of any K-12 school. [CH&SC 42301.6]
5. Permittee shall notify the District Compliance Division of each location at which the operation is located in excess of 24 hours. Such notification shall be made no later than 48 hours after starting operation at the location. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The tank shall be equipped with a fixed roof with no holes or openings. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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

Seyed Sadredin, Executive Director, APCO

DRAFT

DAVID WARNER, Director of Permit Services
S-1128-975-2: Jul 28 2011 8:44AM - DAVIDSDS : Joint Inspection NOT Required

7. This tank shall be equipped with a pressure-vacuum (PV) relief valve set to within 10% of the maximum allowable working pressure of the tank, permanently labeled with the operating pressure settings and properly maintained in good operating order in accordance with the manufacturer's instructions. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
8. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
9. Tank liquid throughput shall not exceed 3,000 barrels per day. [District Rule 2201 and 4102] Federally Enforceable Through Title V Permit
10. Tank liquid throughput shall not exceed 293,825 barrels per year. [District Rule 2201 and 4102] Federally Enforceable Through Title V Permit
11. The total combined liquid throughput of tanks S-1128-974, '-975, '-976, and '-977 shall not exceed 462,350 BBLs/year, the nearest business receptor must be at least 500 meters away, and the nearest residential receptor must be at least 670 meters away when located at any location not specifically listed on this permit [District Rule 2201 and 4102] Federally Enforceable Through Title V Permit
12. The total combined liquid throughput of tanks S-1128-974, '-975, '-976, and '-977 shall not exceed 540,100 barrels per year at the 1Y Gauge Setting 17 (35.35312, -119.66393). [District Rule 2201 and 4102] Federally Enforceable Through Title V Permit
13. The total combined liquid throughput of tanks S-1128-974, '-975, '-976, and '-977 shall not exceed a 770,150 barrels per year at the following locations combined: 31X Oil Cleaning Plant (35.35543, -119.65096), the McKittrick Diatomite GS (35.30953, -119.6431) the McKittrick Station L (35.31352, -119.65715), 1Y GS 5 (35.355, -119.66833), 1Y GS 3 (35.3373, -119.6628), and the 1Y South Steam Plant (35.33833, -119.6683). [District Rule 2201 and 4102] Federally Enforceable Through Title V Permit
14. Permittee shall conduct True Vapor Pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
15. As used in this permit, the term "source or type" shall mean liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids stored in this unit to determine which are from common source. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
16. For crude oil with an API gravity of 26 degrees or less, the TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623, 6.4.4] Federally Enforceable Through Title V Permit
17. For other organic liquids, the true vapor pressure (TVP) shall be measured using Reid vapor pressure ASTM Method D323, and converting the RVP to TVP at the tank's maximum organic liquid storage temperature. The conversion of RVP to TVP shall be done in accordance of the oil and gas section of "California Air Resources Boards (ARB) Technical Guidance Document to the Criteria and Guidelines Regulations for AB 2588", dated August 1989. As an alternative to using ASTM D 323, the TVP of crude oil with an API gravity range of greater than 26 degrees up to 30 degrees may be determined by using other equivalent test methods approved by APCO, ARB and EPA. [District Rule 4623, 6.4.3] Federally Enforceable Through Title V Permit
18. This permit authorizes tank cleaning that is not the result of breakdowns or poor maintenance as a routine maintenance activity. [District Rule 2020] Federally Enforceable Through Title V Permit
19. Permittee shall notify the APCO in writing at least three (3) days prior to performing the first interior tank cleaning activity at a particular location; no notification is required for subsequent cleaning activities at that location. Written notification shall include the following: 1) the Permit to Operate number and physical location of the tank, 2) the date and time that tank cleaning activities will begin, and 3) the method to be used to clean the tank, including any solvents to be used. [District Rule 2080] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. This tank shall not be required to de-gas before commencing cleaning activities. All other applicable requirements shall be complied with before, during, and after tank cleaning activities. [District Rule 2080] Federally Enforceable Through Title V Permit
21. While performing tank cleaning activities, operators may only use the following cleaning agents: diesel, solvents with an initial boiling point of greater than 302 degrees F, solvents with a vapor pressure of less than 0.5 psia, or solvents with 50 grams of VOC per liter or less. [District Rule 2080] Federally Enforceable Through Title V Permit
22. Steam cleaning shall only be allowed at locations where wastewater treatment facilities are limited, or during the months of December through March. [District Rule 2080] Federally Enforceable Through Title V Permit
23. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 2481 lb, 2nd quarter - 2481 lb, 3rd quarter - 2481 lb, and fourth quarter - 2481 lb. The amount of emission reduction credits required to be surrendered for this approval, including the amount required for the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 12/18/08), is: 1st quarter - 3722 lb, 2nd quarter - 3722 lb, 3rd quarter - 3722 lb, and fourth quarter - 3722 lb. [District Rule 2201] Federally Enforceable Through Title V Permit
24. ERC Certificate Number S-2887-1 (or a certificate split from this certificate) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit
25. Permittee shall maintain records of dates of start and completion dates/times of tank cleaning activities, and methods of cleaning used. [District Rule 2520] Federally Enforceable Through Title V Permit
26. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, API gravity and throughput. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
27. The permittee shall keep accurate combined records of each organic liquid stored in baker tanks S-1128-974, '-975, '-976, and '-978, including the storage temperatures, TVPs, API gravities, throughputs, and physical locations. [District Rule 2201] Federally Enforceable Through Title V Permit
28. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rules 2520 and 4623] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

ISSUANCE DATE: DRAFT

PERMIT NO: S-1128-976-2

LEGAL OWNER OR OPERATOR: CHEVRON USA INC
MAILING ADDRESS: P O BOX 1392
BAKERSFIELD, CA 93302

LOCATION: HEAVY OIL WESTERN STATIONARY SOURCE
KERN COUNTY

EQUIPMENT DESCRIPTION:

MODIFICATION OF UP TO 500 BBL FIXED ROOF CRUDE OIL TANK WITH PV VALVE AUTHORIZED TO OPERATE AT VARIOUS UNSPECIFIED LOCATIONS WITHIN THE HEAVY OIL WESTERN STATIONARY SOURCE (CAN BE OWNED BY PERMITTEE OR RENTED ON AN AS-NEEDED BASIS): INCREASE DAILY THROUGHPUT TO 3,000 BBL/DAY

CONDITIONS

1. This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. This tank is authorized to operate at CUSA's heavy oil western stationary source (HOWSS) which includes facilities S-1128, S-1129 and S-1141. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The equipment shall not be located within 1,000 feet of the outer boundary of any K-12 school. [CH&SC 42301.6]
5. Permittee shall notify the District Compliance Division of each location at which the operation is located in excess of 24 hours. Such notification shall be made no later than 48 hours after starting operation at the location. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The tank shall be equipped with a fixed roof with no holes or openings. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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

Seyed Sadredin, Executive Director, APCO

DAVID WARNER, Director of Permit Services
S-1128-976-2: Jul 28 2011 9:44AM - DAVIDSOS : Joint Inspection NOT Required

7. This tank shall be equipped with a pressure-vacuum (PV) relief valve set to within 10% of the maximum allowable working pressure of the tank, permanently labeled with the operating pressure settings and properly maintained in good operating order in accordance with the manufacturer's instructions. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
8. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
9. Tank liquid throughput shall not exceed 3,000 barrels per day. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Tank liquid throughput shall not exceed 91,250 barrels per year. [District Rule] Federally Enforceable Through Title V Permit
11. The total combined liquid throughput of tanks S-1128-974, '-975, '-976, and '-977 shall not exceed 462,350 BBLs/year, the nearest business receptor must be at least 500 meters away, and the nearest residential receptor must be at least 670 meters away when located at any location not specifically listed on this permit [District Rule 2201 and 4102] Federally Enforceable Through Title V Permit
12. The total combined liquid throughput of tanks S-1128-974, '-975, '-976, and '-977 shall not exceed 540,100 barrels per year at the 1Y Gauge Setting 17 (35.35312, -119.66393). [District Rule 2201 and 4102] Federally Enforceable Through Title V Permit
13. The total combined liquid throughput of tanks S-1128-974, '-975, '-976, and '-977 shall not exceed a 770,150 barrels per year at the following locations combined: 31X Oil Cleaning Plant (35.35543, -119.65096), the McKittrick Diatomite GS (35.30953, -119.6431) the McKittrick Station L (35.31352, -119.65715), 1Y GS 5 (35.355, -119.66833), 1Y GS 3 (35.3373, -119.6628), and the 1Y South Steam Plant (35.33833, -119.6683). [District Rule 2201 and 4102] Federally Enforceable Through Title V Permit
14. Permittee shall conduct True Vapor Pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
15. As used in this permit, the term "source or type" shall mean liquids with similar characteristics. The operator shall maintain records of API gravity of petroleum liquids stored in this unit to determine which are from common source. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
16. For crude oil with an API gravity of 26 degrees or less, the TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623, 6.4.4] Federally Enforceable Through Title V Permit
17. For other organic liquids, the true vapor pressure (TVP) shall be measured using Reid vapor pressure ASTM Method D323, and converting the RVP to TVP at the tank's maximum organic liquid storage temperature. The conversion of RVP to TVP shall be done in accordance of the oil and gas section of "California Air Resources Boards (ARB) Technical Guidance Document to the Criteria and Guidelines Regulations for AB 2588", dated August 1989. As an alternative to using ASTM D 323, the TVP of crude oil with an API gravity range of greater than 26 degrees up to 30 degrees may be determined by using other equivalent test methods approved by APCO, ARB and EPA. [District Rule 4623, 6.4.3] Federally Enforceable Through Title V Permit
18. This permit authorizes tank cleaning that is not the result of breakdowns or poor maintenance as a routine maintenance activity. [District Rule 2020] Federally Enforceable Through Title V Permit
19. Permittee shall notify the APCO in writing at least three (3) days prior to performing the first interior tank cleaning activity at a particular location; no notification is required for subsequent cleaning activities at that location. Written notification shall include the following: 1) the Permit to Operate number and physical location of the tank, 2) the date and time that tank cleaning activities will begin, and 3) the method to be used to clean the tank, including any solvents to be used. [District Rule 2080] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. This tank shall not be required to de-gas before commencing cleaning activities. All other applicable requirements shall be complied with before, during, and after tank cleaning activities. [District Rule 2080] Federally Enforceable Through Title V Permit
21. While performing tank cleaning activities, operators may only use the following cleaning agents: diesel, solvents with an initial boiling point of greater than 302 degrees F, solvents with a vapor pressure of less than 0.5 psia, or solvents with 50 grams of VOC per liter or less. [District Rule 2080] Federally Enforceable Through Title V Permit
22. Steam cleaning shall only be allowed at locations where wastewater treatment facilities are limited, or during the months of December through March. [District Rule 2080] Federally Enforceable Through Title V Permit
23. Permittee shall maintain records of dates of start and completion dates/times of tank cleaning activities, and methods of cleaning used. [District Rule 2520] Federally Enforceable Through Title V Permit
24. The permittee shall keep accurate combined records of each organic liquid stored in baker tanks S-1128-974, '-975, '-976, and '-978, including the storage temperatures, TVPs, API gravities, throughputs, and physical locations. [District Rule 2201] Federally Enforceable Through Title V Permit
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26. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rules 2520 and 4623] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

ISSUANCE DATE: DRAFT
DRAFT

PERMIT NO: S-1128-977-2

LEGAL OWNER OR OPERATOR: CHEVRON USA INC
MAILING ADDRESS: P O BOX 1392
BAKERSFIELD, CA 93302

LOCATION: HEAVY OIL WESTERN STATIONARY SOURCE
KERN COUNTY

EQUIPMENT DESCRIPTION:

MODIFICATION OF UP TO 500 BBL FIXED ROOF CRUDE OIL TANK WITH PV VALVE AUTHORIZED TO OPERATE AT VARIOUS UNSPECIFIED LOCATIONS WITHIN THE HEAVY OIL WESTERN STATIONARY SOURCE (CAN BE OWNED BY PERMITTEE OR RENTED ON AN AS-NEEDED BASIS): INCREASE DAILY THROUGHPUT TO 3,000 BBL/DAY

CONDITIONS

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4. The equipment shall not be located within 1,000 feet of the outer boundary of any K-12 school. [CH&SC 42301.6]
5. Permittee shall notify the District Compliance Division of each location at which the operation is located in excess of 24 hours. Such notification shall be made no later than 48 hours after starting operation at the location. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The tank shall be equipped with a fixed roof with no holes or openings. [District Rule 2201] Federally Enforceable Through Title V Permit

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Seyed Sadredin, Executive Director APCO

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DAVID WARNER, Director of Permit Services
6-1128-977-2 : Jul 28 2011 8:44AM - DAVIDSOS : Joint Inspection NOT Required

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