



JUL 1 6 2018

Mr. Kris Rickards Chevron USA, Inc P.O. Box 1392 Bakersfield, CA 93302

Re:

Proposed ATC / Certificate of Conformity (Significant Mod)

Facility Number: S-1141 Project Number: S-1173494

Dear Mr. Rickards:

Enclosed for your review is the District's analysis of an application for Authorities to Construct for the facility identified above. You requested that a Certificate of Conformity with the procedural requirements of 40 CFR Part 70 be issued with this project. The project authorizes tank modifications.

After addressing all comments made during the 30-day public notice and the 45-day EPA comment periods, the District intends to issue the Authorities to Construct with a Certificate of Conformity. Please submit your comments within the 30-day public comment period, as specified in the enclosed public notice. 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.

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.

Afnaud Marjollet

Director of Permit Services

Enclosures

CC:

Tung Le, CARB (w/enclosure) via email

CC:

Gerardo C. Rios, EPA (w/enclosure) via email

Samir Sheikh
Executive Director/Air Pollution Control Officer

San Joaquin Valley Air Pollution Control District Authority to Construct Application Review

Modify Tank Permits to add Maintenance/Repair/Upset Provisions

Facility Name: Chevron USA, Inc.

Date: July 2, 2018

Mailing Address: P.O. Box 1392

Engineer: Robert Rinaldi

Bakersfield, CA 93302

Lead Engineer: Dan Klevann

Contact Person: Kris Rickards

Telephone: 661-654-7796

E-Mail: Kristopher.Rickards@chevron.com

Application #:

S-1141-127-50, '-128-16, '-129-16, '-130-14, '-131-15, '-571-6, '-572-6, '-585-9, '-590-4, '-591-5, '-612-0 and '-613-0

Project #:

S-1173494

Deemed Complete: December 14, 2017

I. Proposal

The primary business of Chevron USA Inc. (CUSA) is oil and gas production. CUSA is requesting Authorities to Construct (ATCs) to authorize up to 600 hours per 12-month rolling period (nonconsecutive hours), to allow the VCS to be inoperable for periods of maintenance and repair activities, process upsets, and equipment breakdowns. Station 1-09 Tanks on Permits S-1141-560, '-575, '-576, '-577, '-578, '-579, '-580 and '-605 being designated as frontline tanks, are not proposed to be allowed to be disconnected from the VCS.

Additionally, CUSA would like to designate depurators, or WEMCOs as separate permit units. The District now requires that depurators, or WEMCOs be listed under separate permits. Therefore, new permit numbers will be assigned to these units and the equipment description for S-1141-127 will be modified to delist depurators from the equipment description. No physical changes to the equipment are proposed as a result of this permit designation.

CUSA has a Title V Permit. This modification can be classified as a Title V significant modification pursuant to Rule 2520, and can be processed with a Certificate of Conformity (COC). Since the facility has specifically requested that this project be processed in that manner, the 45-day EPA comment period will be satisfied prior to the issuance of the Authority to Construct. CUSA must apply to administratively amend their Title V permit.

II. Applicable Rules

Rule 2201	New and Modified Stationary Source Review Rule (2/18/16)
Rule 2410	Prevention of Significant Deterioration (6/16/11)
Rule 2520	Federally Mandated Operating Permits (6/21/01)
Rule 4001	New Source Performance Standards (4/14/99)
Rule 4102	Nuisance (12/17/92)
Rule 4401	Steam-Enhanced Crude Oil Production Wells (6/16/11)
Rule 4623	Storage of Organic Liquids (5/19/05)
CH&SC 41700	Health Risk Assessment
*CH&SC 42301.	6 School Notice
Public Resource	es Code 21000-21177: California Environmental Quality Act (CEQA)
California Code	of Regulations, Title 14, Div 6, Chap 3, Sections 15000-15387: CEQA Guidelines

III. Project Location

The tanks are located at Station 1-09 (SW/4 Section 9, T32S, R23E) in the Midway Sunset oilfield in CUSA's Kern County Heavy Oil Western stationary source. The equipment is not located within 1,000 feet of the outer boundary of a K-12 school. Therefore, the public notification requirement of California Health and Safety Code 42301.6 is not applicable to this project. A site plan is provided in Appendix B.

IV. Process Description

The tanks and vessels at Station 1-09 receive production from various thermally enhance oil recovery operations. The tank battery is used to dehydrate produced fluids prior to placing crude oil in a pipeline. Produced oil and water are processed at the tank battery using free water knock-out (FWKO) vessels, heater treaters, degassing vessels, and surge tanks prior to entering the lease automatic custody transfer (LACT) tanks, or produced water tanks. VOC emissions from the tanks are controlled by a shared vapor control systems listed on S-1141-127. The vapor control system collects vapors from the tanks and routes the uncondensed vapors to a VOC control device that reduces inlet VOC emissions by at least 99% by weight.

As maintenance and repair are required for long term compliance with District rules and regulations, this project seeks to include provisions for vapor control system downtime for maintenance and repair activities affecting the subject permit units.

V. Equipment Listing

Pre-Project Equipment Description

- S-1141-127-49 3,000 BBL FIXED ROOF CRUDE OIL TANK #T-127, DEPURATORS, TWO NATURAL GAS-FIRED EXEMPT HEATER TREATERS (T9 AND T10) (EACH RATED LESS THAN 5.0 MMBTU/HR), AND SHARED VAPOR CONTROL EQUIPMENT INCLUDING INTAKE AND DISCHARGE HEAT EXCHANGERS, GAS-LIQUID SEPARATOR(S), COMPRESSOR(S) SERVING PERMIT UNITS S-1141-127 THROUGH '-131, '-560, '-571, '-572, '-575, '-576, '-577, '-578, '-579, '-580, '-585, '-590, AND '591; INCLUDING OPTIONAL USE H2S SCRUBBER, AND VAPOR PIPING DISCHARGING TO STEAM GENERATORS S-1141-26, '-31, '-515, '-549, '-550, '-551, '-552, '-553, '-555, '-556, '-557, '-558, EMERGENCY FLARE S-1141-513, AND/OR DOGGR APPROVED DISPOSAL WELL(S)
- S-1141-128-15 3000 BBL FIXED ROOF CRUDE OIL TANK #109-C3 SERVED BY VAPOR CONTROL EQUIPMENT LISTED ON S-1141-127; CRUDE OIL IS RECEIVED FROM ON-SITE STATION 1-09 AND STATION 3-09 (S-1130).
- S-1141-129-15 3,000 BBL FIXED ROOF CRUDE OIL TANK #109-C2 SERVED BY VAPOR CONTROL EQUIPMENT LISTED ON S-1141-127; CRUDE OIL IS RECEIVED FROM ON-SITE STATION 1-09 AND STATION 3-09 (S-1130)
- S-1141-130-13 3,000 BBL CRUDE OIL TANK #109-C1 SERVED BY VAPOR CONTROL SYSTEM LISTED ON S-1141-127-2; CRUDE OIL IS RECEIVED FROM ON-SITE STATION 1-09 AND STATION 3-09 (S-1130)
- S-1141-131-14 3,000 BBL FIXED ROOF CRUDE OIL TANK #109-P2 SERVED BY VAPOR CONTROL EQUIPMENT LISTED ON S-1141-127; CRUDE OIL IS RECEIVED FROM ON-SITE STATION 1-09 AND STATION 3-09 (S-1130)
- S-1141-571-5 3,000 BBL FIXED ROOF WATER STORAGE TANK (T-600) SERVED BY VAPOR CONTROL SYSTEM LISTED ON S-1141-127
- S-1141-572-5 3,000 BBL FIXED ROOF WATER STORAGE TANK (T-900) SERVED BY VAPOR CONTROL SYSTEM LISTED ON S-1141-127
- **S-1141-585-8** 10,000 BBL FIXED ROOF CRUDE OIL STORAGE TANK VENTED TO VAPOR CONTROL SYSTEM LISTED ON S-1141-127
- **S-1141-590-3** 8,750 BBL VAPOR CONTROLED FIXED ROOF PRODUCED WATER STORAGE TANK VENTED TO THE VAPOR CONTROL SYSTEM LISTED ON PERMIT S-1141-127

S-1141-591-4 8,750 BBL VAPOR CONTROLED FIXED ROOF PRODUCED WATER STORAGE TANK VENTED TO THE VAPOR CONTROL SYSTEM LISTED ON PERMIT S-1141-127

Proposed ATCs and ATC Modifications:

- S-1141-127-50 MODIFICATION OF 3,000 BBL FIXED ROOF CRUDE OIL TANK #T-127, DEPURATORS, TWO NATURAL GAS-FIRED EXEMPT HEATER TREATERS (T9 AND T10) (EACH RATED LESS THAN 5.0 MMBTU/HR), AND SHARED VAPOR CONTROL EQUIPMENT INCLUDING INTAKE AND DISCHARGE HEAT EXCHANGERS, GAS-LIQUID SEPARATOR(S), COMPRESSOR(S) SERVING PERMIT UNITS S-1141-127 THROUGH '-131, '-560, '-571, '-572, '-575, '-576, '-577, '-578, '-579, '-580, '-585, '-591 AND '-605; INCLUDING OPTIONAL USE H2S SCRUBBER, AND VAPOR PIPING DISCHARGING TO STEAM GENERATORS S-1141-26, '-31, '-515, '-549, '-550, '-551, '-552, '-553, '-555, '-556, '-557, '-558, EMERGENCY FLARE S-1141-513, AND/OR DOGGR APPROVED DISPOSAL WELL(S): ADD PROVISIONS FOR TANK TO BE DISCONNECTED FROM VAPOR CONTROL SYSTEM FOR UP TO 600 HOURS PER 12-MONTH ROLLING PERIOD AND MOVE DEPURATORS TO SEPERATE PTOS S-1141-612-0 & '-613-0
- S-1141-128-16 MODIFICATION OF 3000 BBL FIXED ROOF CRUDE OIL TANK #109-C3 SERVED BY VAPOR CONTROL EQUIPMENT LISTED ON S-1141-127; CRUDE OIL IS RECEIVED FROM ON-SITE STATION 1-09 AND STATION 3-09 (S-1130): ADD PROVISIONS FOR TANK TO BE DISCONNECTED FROM VAPOR CONTROL SYSTEM FOR UP TO 600 HOURS PER 12-MONTH ROLLING PERIOD
- S-1141-129-16 MODIFICATION OF 3,000 BBL FIXED ROOF CRUDE OIL TANK #109-C2 SERVED BY VAPOR CONTROL EQUIPMENT LISTED ON S-1141-127; CRUDE OIL IS RECEIVED FROM ON-SITE STATION 1-09 AND STATION 3-09 (S-1130): ADD PROVISIONS FOR TANK TO BE DISCONNECTED FROM VAPOR CONTROL SYSTEM FOR UP TO 600 HOURS PER 12-MONTH ROLLING PERIOD
- S-1141-130-14 MODIFICATION OF 3,000 BBL CRUDE OIL TANK #109-C1 SERVED BY VAPOR CONTROL SYSTEM LISTED ON S-1141-127-2; CRUDE OIL IS RECEIVED FROM ON-SITE STATION 1-09 AND STATION 3-09 (S-1130): ADD PROVISIONS FOR TANK TO BE DISCONNECTED FROM VAPOR CONTROL SYSTEM FOR UP TO 600 HOURS PER 12-MONTH ROLLING PERIOD

- S-1141-131-15 MODIFICATION OF 3,000 BBL FIXED ROOF CRUDE OIL TANK #109-P2 SERVED BY VAPOR CONTROL EQUIPMENT LISTED ON S-1141-127; CRUDE OIL IS RECEIVED FROM ON-SITE STATION 1-09 AND STATION 3-09 (S-1130): ADD PROVISIONS FOR TANK TO BE DISCONNECTED FROM VAPOR CONTROL SYSTEM FOR UP TO 600 HOURS PER 12-MONTH ROLLING PERIOD
- S-1141-571-6 MODIFICATION OF 3,000 BBL FIXED ROOF WATER STORAGE TANK (T-600) SERVED BY VAPOR CONTROL SYSTEM LISTED ON S-1141-127:
 ADD PROVISIONS FOR TANK TO BE DISCONNECTED FROM VAPOR CONTROL SYSTEM FOR UP TO 600 HOURS PER 12-MONTH ROLLING PERIOD
- S-1141-572-6 MODIFICATION OF 3,000 BBL FIXED ROOF WATER STORAGE TANK (T-900) SERVED BY VAPOR CONTROL SYSTEM LISTED ON S-1141-127: ADD PROVISIONS FOR TANK TO BE DISCONNECTED FROM VAPOR CONTROL SYSTEM FOR UP TO 600 HOURS PER 12-MONTH ROLLING PERIOD
- S-1141-585-9 MODIFICATION OF 10,000 BBL FIXED ROOF CRUDE OIL STORAGE TANK VENTED TO VAPOR CONTROL SYSTEM LISTED ON S-1141-127: ADD PROVISIONS FOR TANK TO BE DISCONNECTED FROM VAPOR CONTROL SYSTEM FOR UP TO 600 HOURS PER 12-MONTH ROLLING PERIOD
- S-1141-590-4 MODIFICATION OF 8,750 BBL VAPOR CONTROLED FIXED ROOF PRODUCED WATER STORAGE TANK VENTED TO THE VAPOR CONTROL SYSTEM LISTED ON PERMIT S-1141-127: ADD PROVISIONS FOR TANK TO BE DISCONNECTED FROM VAPOR CONTROL SYSTEM FOR UP TO 600 HOURS PER 12-MONTH ROLLING PERIOD
- S-1141-591-5 MODIFICATION OF 8,750 BBL VAPOR CONTROLED FIXED ROOF PRODUCED WATER STORAGE TANK VENTED TO THE VAPOR CONTROL SYSTEM LISTED ON PERMIT S-1141-127: ADD PROVISIONS FOR TANK TO BE DISCONNECTED FROM VAPOR CONTROL SYSTEM FOR UP TO 600 HOURS PER 12-MONTH ROLLING PERIOD
- S-1141-612-0 1,048 BBL WEMCO AIR FLOATATION UNIT #ME-101 WITH GAS BLANKETING, SERVED BY THE VAPOR CONTROL SYSTEM LISTED ON S-1141-127 (FORMERLY LISTED ON PTO S-1141-127)
- S-1141-613-0 1,048 BBL WEMCO AIR FLOATATION UNIT #ME-201 WITH GAS BLANKETING, SERVED BY THE VAPOR CONTROL SYSTEM LISTED ON S-1141-127 (FORMERLY LISTED ON PTO S-1141-127)

Post-Project Equipment Description

- S-1141-127-50 3,000 BBL FIXED ROOF CRUDE OIL TANK #T-127, TWO NATURAL GAS-FIRED EXEMPT HEATER TREATERS (T9 AND T10) (EACH RATED LESS THAN 5.0 MMBTU/HR), AND SHARED VAPOR CONTROL EQUIPMENT INCLUDING INTAKE AND DISCHARGE HEAT EXCHANGERS, GAS-LIQUID SEPARATOR(S), COMPRESSOR(S) SERVING PERMIT UNITS S-1141-127 THROUGH '-131, '-560, '-571, '-572, '-575, '-576, '-577, '-578, '-579, '-580, '-585, '-591 AND '-605; INCLUDING OPTIONAL USE H2S SCRUBBER, AND VAPOR PIPING DISCHARGING TO STEAM GENERATORS S-1141-26, '-31, '-515, '-549, '-550, '-551, '-552, '-556, '-557, '-558, EMERGENCY FLARE S-1141-513, AND/OR DOGGR APPROVED DISPOSAL WELL(S)
- S-1141-128-16 3000 BBL FIXED ROOF CRUDE OIL TANK #109-C3 SERVED BY VAPOR CONTROL EQUIPMENT LISTED ON S-1141-127; CRUDE OIL IS RECEIVED FROM ON-SITE STATION 1-09.
- S-1141-129-16 3,000 BBL FIXED ROOF CRUDE OIL TANK #109-C2 SERVED BY VAPOR CONTROL EQUIPMENT LISTED ON S-1141-127; CRUDE OIL IS RECEIVED FROM ON-SITE STATION 1-09.
- **S-1141-130-14** 3,000 BBL CRUDE OIL TANK #109-C1 SERVED BY VAPOR CONTROL SYSTEM LISTED ON S-1141-127; CRUDE OIL IS RECEIVED FROM ON-SITE STATION 1-09.
- S-1141-131-15 3,000 BBL FIXED ROOF CRUDE OIL TANK #109-P2 SERVED BY VAPOR CONTROL EQUIPMENT LISTED ON S-1141-127; CRUDE OIL IS RECEIVED FROM ON-SITE STATION 1-09 AND STATION 3-09 (S-1130).
- **S-1141-571-6** 3,000 BBL FIXED ROOF WATER STORAGE TANK (T-600) SERVED BY VAPOR CONTROL SYSTEM LISTED ON S-1141-127
- S-1141-572-6 3,000 BBL FIXED ROOF WATER STORAGE TANK (T-900) SERVED BY VAPOR CONTROL SYSTEM LISTED ON S-1141-127.
- **S-1141-585-9** 10,000 BBL FIXED ROOF CRUDE OIL STORAGE TANK VENTED TO VAPOR CONTROL SYSTEM LISTED ON S-1141-127.
- **S-1141-590-4** 8,750 BBL VAPOR CONTROLED FIXED ROOF PRODUCED WATER STORAGE TANK VENTED TO THE VAPOR CONTROL SYSTEM LISTED ON PERMIT S-1141-127
- S-1141-591-5 8,750 BBL VAPOR CONTROLED FIXED ROOF PRODUCED WATER STORAGE TANK VENTED TO THE VAPOR CONTROL SYSTEM LISTED ON PERMIT S-1141-127

S-1141-612-0 1,048 BBL WEMCO AIR FLOATATION UNIT #ME-101 WITH GAS BLANKETING, SERVED BY THE VAPOR CONTROL SYSTEM LISTED ON S-1141-127

S-1141-613-0 1,048 BBL WEMCO AIR FLOATATION UNIT #ME-201 WITH GAS BLANKETING, SERVED BY THE VAPOR CONTROL SYSTEM LISTED ON S-1141-127

VI. Emission Control Technology Evaluation

During maintenance and/or repair of the tank VCS, emissions will be minimized by keeping the tanks near constant level and returning the system to normal operation as quickly as possible to control the potential VOC emissions.

VII. General Calculations

A. Assumptions

- The facility operates 24 hrs/day, 7 days/week, & 365 days/year
- Pre-project emissions based on fugitive component emissions.
- Post-project emissions based on fugitive component emissions during periods where vapor recovery system is operational. During periods where tanks are not connected to the vapor recovery system or the vapor recovery system is not operational, emissions will be calculated using the District tank calculation spreadsheet (based on EPA Tanks calculator)
- Fugitive emissions for the tanks are calculated using <u>California Implementation</u> <u>Guidelines for Estimating Mass Emissions of fugitive Hydrocarbon Leaks at Petroleum Facilities</u>, CAPCOA/CARB, February 1999 average emissions factors. Pursuant to District policy, VOC emissions are not assessed for components handling heavy crude oil (API gravity <30 degrees). As components serving the subject permit units handle only heavy oil, only fugitive VOCs emitted from components in gas service are calculated.
- According to District Policy SSP 2015 (Procedures for Quantifying Fugitive VOC Emission Sources at Petroleum and SOCMI Facilities), VOC emissions from components that are always operated under a vacuum, oil and gas production operation components handling produced fluids with API gravities less than 30 degrees, piping and components handling fluid streams with a VOC content of 10% or less by weight, components in water/oil service with a water content greater than or equal to 50%, and components that are part of field gas production pipelines are considered negligible and not assessed.

- All fugitive component emissions are assigned to the VCS (permits S-1141-127 preproject, and S-1141-611 post project).
- When the tanks are disconnected from the VCS, they will operate at near constant level, so working losses are assumed to be zero.
- When using the District's tank calculation spreadsheet, flashing losses are assumed to be zero for all tanks, (tanks are not front-line tanks).
- The tanks (not front-line tanks) will be disconnected from the VCS up to a maximum of 600 hr per 12-month rolling period.

B. Emission Factors

Post-project emissions are also zero when the vapor recovery system is operational (as the VOC content of tank vapors are less than 10% by weight). During periods where the tanks are not connected to the vapor recovery system or the vapor recovery system is not operational, emissions will be calculated using the District tank calculation spreadsheet (based on EPA Tanks calculator).

C. Calculations

1. Pre-Project Potential to Emit (PE1)

All of the subject tanks handle liquids with API gravity less than 30 degrees and the permitted VOC concentration of collected vapors is limited to less than 10%; therefore, pursuant to section VII.A, above, the fugitive emissions associated with these units is negligible and the PE1 for all units is zero.

Pre-Project Potential to Emit (PE1)						
	VOC - Daily PE1 (lb/day)	VOC - Annual PE1 (lb/yr)				
S-1141-127-49	0.0	0				
S-1141-128-15	0.0	0				
S-1141-129-15	0.0	0				
S-1141-130-13	0.0	0				
S-1141-131-14	0.0	0				
S-1141-571-5	0.0	0				
S-1141-572-5	0.0	0				
S-1141-585-8	0.0	0				
S-1141-590-3	0.0	0				
S-1141-591-4	0.0	0				

2. Post-Project Potential to Emit (PE2)

Daily and annual (600 hr/yr) emissions from the tanks are calculated in Appendix C and summarized below. When the VCS is operational, emissions from the tanks are zero, as all fugitive emissions are assigned to the vapor control system.

Post-Project Potential to Emit (PE2)					
	VOC - Daily PE2 (lb/day)	VOC - Annual PE2 (lb/yr) (lb/day x 1 day/24 hr x 600 hr/yr)			
S-1141-127-50	1.3	33			
S-1141-128-16	0.6	15			
S-1141-129-16	1.9	48			
S-1141-130-14	1.9	48			
S-1141-131-15	1.3	33			
S-1141-571-6	1.1	28			
S-1141-572-6	0.8	20			
S-1141-585-9	1.7	43			
S-1141-590-4	1.8	45			
S-1141-591-5	1.8	45			
S-1141-612-0	0.0	0			
S-1141-613-0	0.0	0			
TOTAL	14.2	358			

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

Pursuant to 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 VOC; therefore, SSPE1 calculations are not necessary.

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

Pursuant to 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 or Permits to Operate at the Stationary Source and the quantity of emission reduction credits (ERC) which have been banked since 9/19/1991 for Actual Emissions Reductions that have occurred at the source, which have not been used on-site.

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

5. Major Source Determination

This source concedes it 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.

Rule 2410 Major Source Determination:

This source concedes it is an existing Major Source for PSD for at least one pollutant. Therefore, the facility is an existing major source for PSD.

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 = PE1 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.

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.

This project's emission units are all equipped with a vapor control system which is at least 95% effective. Therefore, Baseline Emissions (BE) are equal to the Pre-Project Potential to Emit (PE1).

BE					
Current PTO/ATC	lb-VOC/yr				
S-1141-127-49	0.0				
S-1141-128-15	0.0				
S-1141-129-15	0.0				
S-1141-130-13	0.0				
S-1141-131-14	0.0				
S-1141-571-5	0.0				
S-1141-572-5	0.0				
S-1141-585-8	0.0				
S-1141-590-3	0.0				
S-1141-591-4	0.0				

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."

Since this facility is a major source for VOC, the project's PE2 is compared to the SB 288 Major Modification Thresholds in the following table in order to determine if the SB 288 Major Modification calculation is required.

SB 288 Major Modification Thresholds					
Pollutant	Project PE2 (lb/year)	Threshold (lb/year)	SB 288 Major Modification Calculation Required?		
VOC	358	50,000	No		

As demonstrated in the preceding table, this project does not constitute an SB 288 Major Modification.

8. Federal Major Modification

District Rule 2201 states that a Federal Major Modification is the same as a "Major Modification" as defined in 40 CFR 51.165 and part D of Title I of the CAA.

The determination of Federal Major Modification is based on a two-step test. For the first step, only the emission *increases* are counted. Emission decreases may not cancel out the increases for this determination.

The project's combined total emission increases are calculated in Section VII B.2, above, and compared to the Federal Major Modification Thresholds in the following table.

Federal Major Modification Thresholds for Emission Increases					
Pollutant Total Emissions Thresholds Federal Major					
	Increases (lb/yr)	(lb/yr)	Modification?		
VOC*	358	0	Yes		

^{*}If there is any emission increases in NO_x or VOC, this project is a Federal Major Modification and no further analysis is required.

Since there is an increase in VOC emissions, this project constitutes a Federal Major Modification. Federal Offset quantities are calculated below.

Federal Offset Quantities:

The Federal offset quantity is only calculated only for the pollutants for which the project is a Federal Major Modification. The Federal offset quantity is the sum of the annual emission changes for all new and modified emission units in a project calculated as the potential to emit after the modification (PE2) minus the actual emissions (AE) during the baseline period for each emission unit times the applicable federal offset ratio. There are no special calculations performed for units covered by an SLC.

Only list pollutants for which the project is a Federal Major Modification and delete other pollutants. The calculated Federal offset quantity is entered into the Major Modification tracking spreadsheet under the heading "Federal Offset Quantity".

Federal Offset Quantities					
	VOC – Actual Emissions (lb/yr)	Potential Emissions (lb/yr)	Emissions Change (lb/yr)		
S-1141-127-50	0	33	33		
S-1141-128-16	0	15	15		
S-1141-129-16	0	48	48		
S-1141-130-14	0	48	48		
S-1141-131-15	0	33	33		
S-1141-571-6	0	28	28		
S-1141-572-6	0	20	20		
S-1141-585-9	0	43	43		
S-1141-590-4	0	45	45		
S-1141-591-5	0	45	45		
S-1141-612-0	0	0	0		
S-1141-613-0	0	0	0		
Net Emissions Change lb/yr.	0	358	358		

Federal Offset Quantity: (NEC * 1.5) = 358 x 1.5 = 537 lb. VOC/yr.

9. Rule 2410 – Prevention of Significant Deterioration (PSD) Applicability Determination

Rule 2410 applies to pollutants for which the District is in attainment or for unclassified, pollutants. Pollutants addressed in the PSD applicability determination are listed below:

- NO2 (as a primary pollutant)
- SO2 (as a primary pollutant)
- CO
- PM
- PM10
- Greenhouse gases (GHG): CO2, N2O, CH4, HFCs, PFCs, and SF6

The first step of this PSD evaluation consists of determining whether the facility is an existing PSD Major Source or not (See Section VII.B.5 of this document). In the case the facility is an existing PSD Major Source, the second step of the PSD evaluation is to determine if the project results in a PSD significant increase.

I. Project Location Relative to Class 1 Area

As demonstrated in the "PSD Major Source Determination" Section above, the facility was determined to be an existing major source for PSD. Because the project is not located within 10 km of a Class 1 area – modeling of the emission increase is not required to determine if project is subject to Rule 2410 requirements.

II. Significance of Project Emission Increase Determination

a. Potential to Emit of attainment/unclassified pollutant for New or <u>Modified</u> Emission Units vs PSD Significant Emission Increase Thresholds

As a screening tool, the potential to emit from all new and modified units is compared to the PSD significant emission increase thresholds, and if total potential to emit from all new and modified units is below this threshold, no futher analysis will be needed.

The facility or the equipment evaluated under this project is not listed as one of the categories specified in 40 CFR 52.21 (b)(1)(i). Therefore, the following PSD Major Source thresholds are applicable.

PSD Signi	ficant Emiss		rease I Emit ns/year		ination:	Potent	ial to
		NO ₂	VOC	SO ₂	СО	PM	PM ₁₀
Total PE fro Modified Un		0	0.18	0	0	0	0
PSD Emission Thresholds	Significant Increase	40	40	40	100	25	15
PSD Emission Inc	Significant crease?	N	N	N	N	N	N

As shown in the table above, the project potential to emit, by itself, does not exceed any of the PSD major source thresholds. Therefore Rule 2410 is not applicable and no further discussion is required.

10. 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. The project QNEC is shown below.

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.

Using the values in Sections VII.C.1 and VII.C.2 in the evaluation above, quarterly PE2 and quarterly PE1 can be calculated as follows:

Example using VOC (Tank S-1141-127)

 $PE2_{quarterly} = PE2_{annual} \div 4 \text{ quarters/year}$

= 33 lb/year ÷ 4 qtr/year

= 8 lb-VOC/qtr

PE1_{quarterly} = PE1_{annual} ÷ 4 quarters/year

= 0 lb/year ÷ 4 qtr/year = 0 lb-VOC/qtr

QNEC						
Permit Unit	VOC lb/yr (proposed 600 hrs)	QNEC (lb/qtr)				
S-1141-127-50	33	8				
S-1141-128-16	15	4				
S-1141-129-16	48	12				
S-1141-130-14	48	12				
S-1141-131-15	33	8				
S-1141-571-6	28	7				
S-1141-572-6	20	5				
S-1141-585-9	43	11				
S-1141-590-4	45	11				
S-1141-591-5	45	11				
S-1141-612-0	0	0				
S-1141-613-0	0	0				
TOTAL	358	90				

VIII. Compliance

Rule 2201 - New and Modified Source Review (NSR)

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 specifically exempted by Rule 2201, 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 SB 288 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 emissions units being installed for this project; therefore BACT 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 for relocation of an emissions unit with a PE > 2 lb/day.

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

```
AIPE = PE2 - 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)

HAPE = PE1 x (EF2/EF1) Where,

PE1 = The emissions unit's Potential to Emit prior to modification, (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

AIPE = PE2 - (PE1 * (EF2 / EF1))

PE1 = 0 PE2 = 14.2 EF2/EF1 = 1 AIPE = 14.2

d. SB 288/Federal Major Modification

As discussed in Section VII.C.7 above, this project does not constitute an SB 288 mod for any pollutant. However, the project does result in a Federal Major Modification for VOC emissions. Therefore, BACT is triggered for VOC for Federal Major Mod purposes.

2. BACT Guideline

There is not an existing BACT Guideline for disconnection of tank and TEOR vapor control systems for maintenance and repair activities, process upsets, and equipment breakdowns which is considered a highly unusual (nonroutine) activity. Due to the unique nature of this activity, a project specific BACT analysis will be performed. Control technologies associated with work practices minimizing VOC emissions form the basis of this BACT evaluation.

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 D) requires a P/V valve as Achieved-in-Practice which is included in the list of work practices minimizing VOC emissions.

3. Top-Down BACT Analysis

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

VOC: Work practices to minimize VOC emissions including:

- Near constant level tank operation
- Use of operational P/V valve where possible
- Work completed expeditiously with pre-staging of equipment and material and pre-fabrication of parts
- Minimization of tank openings and liquid drainage from disconnects
- Storage of coatings, adhesives, sealants, and organic solvents in closed containers
- Inspection, monitoring, and repair if necessary of fugitive emissions components at job site within 30 days of completion of work.

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.

CUSA is over the VOC offset threshold; therefore the quantity of offsets required will be calculated in the following section.

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 threshold; 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 Baseline Emissions (BE) from this unit are equal to the Pre-Project Potential to Emit (PE1) since the unit is a Clean Emissions Unit.

Also, there are multiple emissions units associated with this project, which result in an increase in emissions associated with non-emergency operation, and there are no increases in cargo carrier emissions.

CUSA has identified ERC certification S-4588-1 (or a daughter certificate originating from this certificate) to provide offsets for this project. A distance offset ratio (DOR) of 1.5:1 applies to this project because it is a Federal Major Mod. (Rule 2201, Section 4.8.1). Therefore, offsets can be determined as follows:

Example <u>S-1141-127</u>

Offsets required (lb/year) = ([PE2 – BE] + ICCE) x DOR

PE2 (VOC) = 33 lb/year

BE (VOC) = 0 lb/year

ICCE = 0 lb/year

DOR = 1.5

Offsets required (lb/year) = 50 lb VOC/year

Emission Offset Required (Station 1-09 OCP)					
h e ^a Permit Unit	PE2-BE VOC lb/yr (proposed 600 hrs)	DOR	PE2-BE x 1.5 Offset (lbs-VOC /yr)	Offset (Ibs-VOC /qtr)	
\$ -1141-127-50	33	1.5	50	12	
\$ -1141-128-16	15	1.5	23	6	
\$-1141-129-16	48	1.5	71	18	
\$-1141-130-14	48	1.5	71	18	
§-1141-131-15	33	1.5	49	12	
§ -1141-571-6	28	1.5	41	10	
\$ -1141-572-6	20	1.5	30	8	
S-1141-585-9	43	1.5	64	16	
9 -1141-590-4	45	1.5	68	17	
§ -1141-591-5	45	1.5	68	17	
S -1141-612-0	0	1.5	0.0	0.0	
Ş-1141-613-0	0	1.5	0.0	0.0	
t TOTAL	358	1.5	537	134	

The facility plans to use ERC certificate S-4558-1 to offset the increases in VOC emissions associated with this project. The above certificate has available quarterly VOC credits as follows:

ERC # S-4558-1 322 32 32 32 322 322 322

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

Proposed General Rule 2201 (offset) Conditions:

- Prior to operating equipment under this Authority to Construct, permittee shall surrender emission reduction credits for the following quantities of emissions: VOC:
 1st quarter xxx* lb, 2nd quarter xxx* lb, 3rd quarter xxx* lb, and 4th quarter xxx* lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/28/16) for the ERCs specified below. [District Rule 2201]
- ERC Certificate Number S-4558-1 (VOC) (or certificate split(s) from these certificates) 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]

^{*} Different quantities for each ATC. See draft ATCs in Attachment H for indiviual quantities for each ATC.

C. Public Notification

1. Applicability

Public noticing is required for:

- a. New Major Sources, Federal Major Modifications, and SB 288 Major Mods,
- 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 Mods, and SB 288 Major Mods

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 VII.C.8 this project proposal constitutes a 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 PE greater than 100 pounds during any one day for any pollutant will trigger public noticing requirements. As seen in Section VII.C.2 above, this project does not include a new emissions unit which has daily emissions greater than 100 lb/day for any pollutant; therefore, public noticing is not required for this project for PE > 100 lb/day.

c. Offset Threshold

Public notification is required if the SSPE is increased from below the offset threshold to a level exceeding the emissions offset threshold, for any pollutant.

The applicant is already over the offset thresholds, therefore no thresholds were surpassed with this project; therefore public noticing for offset purposes is not required.

d. SSIPE > 20,000 lb/year

Public notification is required for any permitting action that results in a SSIPE of more than 20,000 lb/year of any affected pollutant. According to District policy, the SSIPE = SSPE2 – SSPE1. The SSIPE is compared to the SSIPE Public Notice thresholds in the following table.

		SSIPE Pul	blic Notice [•]	Thresholds	The property of the control of the c
Pollutant	SSPE2	SSPE1	SSIPE	SSIPE Public	Public Notice
Politicarit	(lb/year)	(lb/year)	(lb/year)	Notice Threshold	Required?
VOC	>20,000	>20,000	358	20,000 lb/year	No

As demonstrated above, the SSIPEs for VOC are less 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 Federal Major Mod 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 ATCs for this equipment.

D. Daily Emission Limits (DELs)

DELs and other enforceable conditions are required by Rule 2201 to restrict a unit's maximum daily emissions, to a level at or below the emissions associated with the maximum design capacity. 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:

<u>S-1141-127, -128, -129, -130, -131, -571, -572, -585, -590, -591, -612 and -613</u>

- Tank shall not be required to be served by vapor control system S-1141127. during vapor recovery system (tanks to disposal devices, inclusive)
 maintenance/repairs/upset conditions for up to 600 hours per 12-month rolling
 period. Approved breakdowns and relief periods granted by variance and
 supported by the District shall not be included in this limit. [District Rules 2201]
 Federally Enforceable Through Title V Permit.
- The tank shall be equipped with a vapor control system consisting of a closed vent system that collects all VOCs from the storage tank, except during periods of tank cleaning and maintenance. Collected vapors shall be disposed of in APCO approved control devices listed in this permit. VOC emissions shall be reduced by at least 99% by weight. [District Rule 2201 and 2520, 9.4.2] Y
- 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] Y
- Maximum VOC content of vapor in the tank vapor space and vapor control system piping shall not exceed 10% by weight. [District Rule 2201] Y

S-1141-127

- Vapor control system may be inoperable during maintenance/repairs/upset conditions of tanks S-1141-127, -128, -129, -130, -131, -571, -572, -585, -590, -591, -612 and -613 for up to 600 hours per 12-month rolling period. District-approved breakdowns and relief periods granted by variance and supported by the District shall not be included in this limit.
- Vapor control system will remain operable at all times for front line production equipment defined in section 3.15 of Rule 4401 including tanks S-1141-560, -575, -576, -577, -578, -579, -580, and -605.
- Maximum VOC content of vapor in the tank vapor space and vapor control system piping shall not exceed 10% by weight. [District Rule 2201] 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 additional monitoring is required to demonstrate compliance with the offset, public notification and daily emission limit requirements of Rule 2201.

3. Recordkeeping

Recordkeeping is required to demonstrate compliance with the offset, public notification and daily emission limit requirements of Rule 2201. A condition addressing this requirement is included on the S-1141 facility-wide permit.

4. Reporting

No reporting is required to demonstrate compliance with Rule 2201.

F. Ambient Air Quality Analysis (AAQA)

An AAQA shall 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. The proposed equipment should not cause a violation of an air quality standard.

This project is not expected to cause or make worse a violation of an air quality standard.

G. Compliance Certification

Compliance certification is required for any project which constitutes a New Major Source or a Federal Major Modification.

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. As discussed in Section VIII above, this project does constitute a Federal Major Modification, therefore this requirement is applicable. CUSA's compliance certification is included in Appendix F.

H. Alternate Siting Analysis

The current project occurs at an existing facility. The applicant proposes to install tanks and vessels at existing sites in the Chevron's heavy oil western stationary source.

Since the project will provide tanks and vessels to be used at the same location, 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 2410 Prevention of Significant Deterioration

As shown in Section VII.C.9 above, this project does not result in a new PSD major source or PSD major modification. No further discussion is required.

Rule 2520 - Federally Mandated Operating Permits

This facility is subject to this Rule, and has received their Title V Operating Permit. Section 3.29 defines a significant permit modification as a "permit amendment that does not qualify as a minor permit modification or administrative amendment."

The project is Federal Major Modification and therefore is also a Title V Significant Modification. 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. Included in Appendix G is CUSA's Title V Modification Compliance Certification form. Continued compliance with this rule is expected.

Rule 4001 New Source Performance Standards (NSPS)

This rule incorporates the New Source Performance Standards from 40 CFR Part 60. 40 CFR Part 60, Subparts, K, Ka, Kb, and OOOO could potentially apply to the storage tanks/vessels included in this project.

40 CFR Part 60, Subpart K is applicable to storage vessels whose construction, reconstruction, or modification commenced after June 11, 1973 and prior to May 19, 1978. As CUSA is proposing the installation storage vessels/tanks post 1978, this subpart is not applicable.

40 CFR Part 60, Subpart Ka is applicable to storage vessels whose construction, reconstruction, or modification commenced after May 18, 1978, and prior to July 23, 1984. As CUSA is proposing the installation storage vessels/tanks post 1984, this subpart is not applicable.

40 CFR Part 60, Subpart Kb is applicable to storage vessels whose construction, reconstruction, or modification commenced after July 23, 1984. As CUSA is proposing the installation of a storage vessel and tank post 1984, this subpart could be applicable. However, as the proposed storage vessels/tanks will store liquid with a tvp less than 3.5 kilopascals (kPa), or 0.5 psia, the units are exempt from the requirements of 40 CFR Part 60, Subpart Kb pursuant to Section 60.11b (b).

40 CFR Part 60, Subpart OOOO is applicable to storage vessels located in the oil and natural gas production segment which have commenced construction, modification, or reconstruction after August 23, 2011 and have emissions equal to or greater than 6tpy. As CUSA is proposed the installation of storage vessels/tanks post 2011, this subpart could be applicable. However, as the units' emissions are expected to be less than 6tpy, the requirements of 40 CFR Part 60, Subpart OOOO are not applicable pursuant to Section 60.5395. The following condition will be listed on the ATCs to ensure compliance with this Subpart:

Emissions from this unit shall not exceed 6 tons per year. [40 CFR Part 60, Subpart 0000]

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, Ringlemann 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

Rule 4102 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.

The prioritization score for this proposed facility was greater than 1.0. According to the Technical Services Memo for this project (Appendix I), The acute and chronic indices are below 1.0 and the cancer risk factor associated with the project is less than 1.0 in a million. In accordance with the District's Risk Management Policy, the project is approved without Toxic Best Available Control Technology (T-BACT). The emissions from the proposed equipment will not cause or contribute significantly to a violation of the State and National AAQS.

Rule 4401 - Steam-Enhanced Crude Oil Production Wells Storage of Organic Liquids

The purpose of this rule is to limit the Volatile Organic Compound (VOC) emissions from steam-enhanced crude oil production wells.

Section 5.1 states that an operator shall not operate a steam-enhanced crude oil production well unless the operator complies with the requirements of either Section 5.1.1 or Section 5.1.2.

- 5.1.1 The steam-enhanced crude oil production well vent is closed and the front line production equipment downstream of the wells that carry produced fluids (crude oil or mixture of crude oil and water) is connected to a VOC collection and control system as defined in Section 3.0. The well vent may be temporarily opened during periods of attended service or repair of the well provided such activity is done as expeditiously as possible with minimal spillage of material and VOC emissions to the atmosphere.
- 5.1.2 The steam-enhanced crude oil production well vent is open and the well vent is connected to a VOC collection and control system as defined in Section 3.0.

The following condition will be included on ATC S-1141-127-50 to ensure compliance with section 5.1

- Vapor control system may be inoperable during maintenance/repairs/upset conditions of tanks S-1141-127, -128, -129, -130, -131, -571, -572, -585, -590, -591, -612 and -613 for up to 600 hours per 12-month rolling period. District-approved breakdowns and relief periods granted by variance and supported by the District shall not be included in this limit.
- <u>Vapor control system will remain operable at all times for front line production</u> equipment defined in section 3.15 of Rule 4401 including tanks S-1141-560, -575, -576, -577, -578, -579, -580, and -605.

Rule 4623 - Storage of Organic Liquids

The purpose of this rule is to limit volatile organic compound (VOC) emissions from the storage of organic liquids. 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.

The tanks limit the TVP of the stored liquid to less than 0.5 psia and include required TVP testing every two years. Therefore, the existing vapor control system is not required by Rule 4623 and no provisions of the rule restrict its disconnection for maintenance/repair/upset conditions.

Section 4.0 Exemptions

Section 4.4 Tanks exclusively receiving and/or storing an organic liquid with a TVP less than 0.5 psia are exempt from all other provisions of the rule except for complying with the following provisions:

- 4.4.1 TVP and API Gravity Testing provisions pursuant to Section 6.2,
- 4.4.2 Recordkeeping provisions pursuant to Section 6.3.6,
- 4.4.3 Test Methods provisions pursuant to Section 6.4, and
- 4.4.4 Compliance schedules pursuant to Section 7.2

Continued 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)

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

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

Greenhouse Gas (GHG) Significance Determination

District is a Responsible Agency

Oil and gas operations in Kern County must comply with the *Kern County Zoning Ordinance – 2015 (C) Focused on Oil and Gas Local Permitting.* In 2015, Kern County revised the Kern County Zoning Ordinance Focused on Oil and Gas Activities (Kern Oil and Gas Zoning Ordinance) in regards to future oil and gas exploration, and drilling and production of hydrocarbon resource projects occurring within Kern County.

Kern County served as lead agency for the revision to their ordinance under the California Environmental Quality Act (CEQA), and prepared an Environmental Impact Report (EIR) that was certified on November 9, 2015. The EIR evaluated and disclosed to the public the environmental impacts associated with the growth of oil and gas exploration in Kern County, and determined that such growth will result in significant GHG impacts in the San Joaquin Valley. As such, the EIR included mitigation measures for GHG.

The District is a Responsible Agency for the project because of its discretionary approval power over the project via its Permits Rule (Rule 2010) and New Source Review Rule (Rule 2201), (CEQA Guidelines §15381). As a Responsible Agency, the District is limited to mitigating or avoiding impacts for which it has statutory authority. The District does not have statutory authority for regulating GHGs. The District has determined that the applicant is responsible for implementing GHG mitigation measures imposed in the EIR by the Kern County for the Kern County Zoning Ordinance.

District CEQA Findings

The proposed project is located in Kern County and is thus subject to the Kern County Zoning Ordinance – 2015 (C) Focused on Oil and Gas Local Permitting. The Kern County Zoning Ordinance was developed by the Kern County Planning Agency as a comprehensive set of goals, objectives, policies, and standards to guide development, expansion, and operation of oil and gas exploration within Kern County.

In 2015, Kern County revised their *Kern County Zoning Ordinance* in regards to exploration, drilling and production of hydrocarbon resources projects. Kern County served as lead agency for the revision to their ordinance under the California Environmental Quality Act (CEQA), and prepared an Environmental Impact Report (EIR) that was certified on November 9, 2015. The revised Kern County Zoning Ordinance establishes a written process (Conformity Review permit process or Minor Activity permit) by which oil and gas exploration projects involving site-specific operations can be evaluated to determine whether the environmental effects of the operation were covered in the *Kern County Zoning Ordinance* EIR.

For stationary source emissions that are below the offset threshold, i.e. not required to surrender ERCs, and for non-stationary source emissions, Kern County entered into an Oil and Gas Emission Reduction Agreement (Oil and Gas ERA) with the District pursuant to the EIR. Per the Oil and Gas ERA, the applicant shall fully mitigate project emissions that are not required to be offset by District permit rules and regulations. Such mitigation can be achieved through any of the three options: (1) the applicants pay an air quality mitigation fee with each Oil and Gas Conformity Review permit issued by the Kern County, (2) the applicants may develop and propose to implement their own emission reduction projects instead of paying all or part of the mitigation fee, or (3) the applicants will be allowed to enter into an agreement directly with the District (if approved by Kern County) to develop an alternative fee schedule.

Kern County, as the lead agency, is the agency that will enforce the mitigation measures identified the EIR, including the mitigation requirements of the Oil and Gas ERA. As a responsible agency the District complies with CEQA by considering the EIR prepared by the Lead Agency, and by reaching its own conclusion on whether and how to approve the project involved (CCR §15096). The District has reviewed the EIR prepared by Kern County, the Lead Agency for the project, and finds it to be adequate. To reduce project related impacts on air quality, the District evaluates emission controls for the project such as Best Available Control Technology (BACT) under District Rule 2201 (New and Modified Stationary Source Review). In addition, the District is requiring the applicant to surrender emission reduction credits (ERC) for stationary source emissions above the offset threshold.

Thus, the District concludes that through a combination of project design elements, permit conditions, and the Oil and Gas ERA, the project will be fully mitigated to result in no net increase in emissions. Pursuant to CCR §15096, prior to project approval and issuance of ATCs the District prepared findings.

Indemnification Agreement/Letter of Credit Determination

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

The revision to the *Kern County Zoning Ordinance* went through an extensive public process that included a Notice of Preparation, a preparation of an EIR, scoping meetings, and public hearings. The process led to the certification of the final EIR and approval of the revised *Kern County Zoning Ordinance* in November 2015 by the Kern County Board of Supervisors. As mentioned above, the proposed project will be fully mitigated and will result in no net increase in emissions. In addition, the proposed project is not located at a facility of concern; therefore, an Indemnification Agreement and/or a Letter of Credit will not be required for this project in the absence of expressed public concern.

IV. Recommendation

Compliance with all applicable rules and regulations is expected. Issue ATCs subject to the permit conditions listed on draft Authorities to Construct (Appendix H).

X. Billing Information

Annual Permit Fees					
Permit Number	Fee Schedule	Fee Description	Annual Fees		
S-1141-127-50	3020-05	126,000 gallons	\$270.00		
S-1141-128-16	3020-05	126,000 gallons	\$270.00		
S-1141-129-16	3020-05	126,000 gallons	\$270.00		
S-1141-130-14	3020-05	126,000 gallons	\$270.00		
S-1141-131-15	3020-05	126,000 gallons	\$270.00		
S-1141-571-6	3020-05	126,000 gallons	\$270.00		
S-1141-572-6	3020-05	126,000 gallons	\$270.00		
S-1141-585-9	3020-05	210,000 gallons	\$419.00		
S-1141-590-4	3020-05	367,500 gallons	\$270.00		
S-1141-591-5	3020-05	367,500 gallons	\$270.00		
S-1141-612-0	3020-05	44,016 gallons	\$157.00		
S-1141-613-0	3020-05	44,016 gallons	\$157.00		

Appendices

- A: Current Permits
- B: Site Plan
- C: Emission Calculations
- D: BACT Guideline
- E: Top Down BACT AnalysisF: Statewide Certification
- G Title V Compliance Certification
- H: Draft ATCs
- I: HRA Summary

APPENDIX A

Current Permits

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1141-127-49 EXPIRATION DATE: 02/28/2021

SECTION: SW 09 TOWNSHIP: 32S RANGE: 23E

EQUIPMENT DESCRIPTION:

3,000 BBL FIXED ROOF CRUDE OIL TANK #T-127, DEPURATORS, TWO NATURAL GAS-FIRED EXEMPT HEATER TREATERS (T9 AND T10) (EACH RATED LESS THAN 5.0 MMBTU/HR), AND SHARED VAPOR CONTROL EQUIPMENT INCLUDING INTAKE AND DISCHARGE HEAT EXCHANGERS, GAS-LIQUID SEPARATOR(S), COMPRESSOR(S) SERVING PERMIT UNITS S-1141-127 THROUGH '-131, '-560, '-571, '-572, '-575, '-576, '-577, '-578, '-579, '-580, '-585, '-590, AND '591; INCLUDING OPTIONAL USE H2S SCRUBBER, AND VAPOR PIPING DISCHARGING TO STEAM GENERATORS S-1141-26, '-31, '-515, '-549, '-550, '-551, '-552, '-555, '-556, '-557, '-558, EMERGENCY FLARE S-1141-513, AND/OR DOGGR APPROVED DISPOSAL WELL(S)

PERMIT UNIT REQUIREMENTS

- 1. The tank shall be equipped with a vapor control system consisting of a closed vent system that collects all VOCs from the storage tank, except during periods of tank cleaning and maintenance. Collected vapors shall be disposed of in APCO approved control devices listed in this permit. VOC emissions shall be reduced by at least 99% by weight. [District Rule 2201 and 2520, 9.4.2] Federally Enforceable Through Title V Permit
- 2. 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] Federally Enforceable Through Title V Permit
- 3. Maximum VOC content of vapor in the tank vapor space and vapor control system piping shall not exceed 10% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
- 4. Operator shall conduct quarterly sampling from the Station 1-09 tank vapor recovery system to qualify for exemption from fugitive component counts for components handling fluids with less than 10% VOC by weight. If fluids sampled are less than 10% VOC by weight for 8 consecutive quarterly samplings, sampling frequency shall only be required annually. Such sampling is deemed representative of all components downstream of the equipment served by the vapor control system. [District Rule 2201] Federally Enforceable Through Title V Permit
- 5. VOC content of vapor shall be determined by ASTM D1945, ASTM D1946, EPA Method 18 referenced as methane, or equivalent test method with prior District approval. [District Rule 2201] Federally Enforceable Through Title V Permit
- 6. This unit is subject to Heavy Oil Tank Inspection and Maintenance Conditions on the facility wide permit S-1141-0. [District NSR Rule and District Rule 2520] Federally Enforceable Through Title V Permit
- 7. This unit is subject to Heavy Oil Tank Cleaning Conditions on the facility wide permit S-1141-0. [District Rule 2080] Federally Enforceable Through Title V Permit
- 8. This unit is subject to Heavy Oil Tank Testing Conditions on the facility wide permit S-1141-0. [District Rule 4623] Federally Enforceable Through Title V Permit

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

Facility Name: CHEVRON USA INC

Location: HEAVY OIL WESTERN STATIONARY SOURCE, CA S-1141-127-49: Mar 28 2018 2-43PM -- RINALDIR

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1141-128-15 EXPIRATION DATE: 02/28/2021

SECTION: NW09 TOWNSHIP: 32S RANGE: 23E

EQUIPMENT DESCRIPTION:

3000 BBL FIXED ROOF CRUDE OIL TANK #109-C3 SERVED BY VAPOR CONTROL EQUIPMENT LISTED ON S-1141-127; CRUDE OIL IS RECEIVED FROM ON-SITE STATION 1-09 AND STATION 3-09 (S-1130)

PERMIT UNIT REQUIREMENTS

- 1. 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
- 2. Maximum VOC content of vapor in the tank vapor space and vapor control system piping shall not exceed 10% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
- 3. Tank shall vent only to vapor control equipment listed in S-1141-127 except during periods of tank cleaning and maintenance. VOC emissions shall be reduced by at least 99% by weight. [District NSR Rule] Federally Enforceable Through Title V Permit
- 4. This unit is subject to Heavy Oil Tank Inspection and Maintenance Conditions on the facility wide permit S-1141-0. [District Rules 2201 and 2520] Federally Enforceable Through Title V Permit
- 5. This unit is subject to Heavy Oil Tank Cleaning Conditions on the facility wide permit S-1141-0. [District Rule 2080] Federally Enforceable Through Title V Permit
- 6. This unit is subject to Heavy Oil Tank Testing Conditions on the facility wide permit S-1141-0. [District Rule 4623] Federally Enforceable Through Title V Permit

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

Facility Name: CHEVRON USA INC

Location: HEAVY OIL WESTERN STATIONARY SOURCE,CA S-1141-128-15: Mar 28 2018 2-43PM -- RINALDIR

PERMIT UNIT: S-1141-129-15

EXPIRATION DATE: 02/28/2021

SECTION: NW09 TOWNSHIP: 328 RANGE: 23E

EQUIPMENT DESCRIPTION:

3,000 BBL FIXED ROOF CRUDE OIL TANK #109-C2 SERVED BY VAPOR CONTROL EQUIPMENT LISTED ON S-1141-127; CRUDE OIL IS RECEIVED FROM ON-SITE STATION 1-09 AND STATION 3-09 (S-1130)

PERMIT UNIT REQUIREMENTS

- 1. 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
- 2. Tank shall vent only to vapor control equipment listed in S-1141-127 except during periods of tank cleaning and maintenance. VOC emissions shall be reduced by at least 99% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
- 3. Maximum VOC content of vapor in the tank vapor space and vapor control system piping shall not exceed 10% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
- 4. This unit is subject to Heavy Oil Tank Inspection and Maintenance Conditions on the facility wide permit S-1141-0. [District Rules 2201 and 2520] Federally Enforceable Through Title V Permit
- 5. This unit is subject to Heavy Oil Tank Cleaning Conditions on the facility wide permit S-1141-0. [District Rule 2080] Federally Enforceable Through Title V Permit
- 6. This unit is subject to Heavy Oil Tank Testing Conditions on the facility wide permit S-1141-0. [District Rule 4623] Federally Enforceable Through Title V Permit

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

Facility Name: CHEVRON USA INC
Location: HEAVY OIL WESTERN STATIONARY SOURCE,CA
S-1141-129-15: Mar 28 2018 2:43PM - RINALDIR

PERMIT UNIT: S-1141-130-13

EXPIRATION DATE: 02/28/2021

SECTION: NW09 TOWNSHIP: 32S RANGE: 23E

EQUIPMENT DESCRIPTION:

3,000 BBL CRUDE OIL TANK #109-C1 SERVED BY VAPOR CONTROL SYSTEM LISTED ON S-1141-127-2; CRUDE OIL IS RECEIVED FROM ON-SITE STATION 1-09 AND STATION 3-09 (S-1130)

PERMIT UNIT REQUIREMENTS

- 1. 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] Federally Enforceable Through Title V Permit
- 2. Tank shall vent only to vapor control equipment listed in S-1141-127 except during periods of tank cleaning and maintenance. VOC emissions shall be reduced by at least 99% by weight. [District NSR Rule] Federally Enforceable Through Title V Permit
- 3. Maximum VOC content of vapor in the tank vapor space and vapor control system piping shall not exceed 10% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
- 4. This unit is subject to Heavy Oil Tank Inspection and Maintenance Conditions on the facility wide permit S-1141-0. [District NSR Rule and District Rule 2520] Federally Enforceable Through Title V Permit
- 5. This unit is subject to Heavy Oil Tank Cleaning Conditions on the facility wide permit S-1141-0. [District Rule 2080] Federally Enforceable Through Title V Permit
- 6. This unit is subject to Heavy Oil Tank Testing Conditions on the facility wide permit S-1141-0. [District Rule 4623] Federally Enforceable Through Title V Permit

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

Facility Name: CHEVRON USA INC
Location: HEAVY OIL WESTERN STATIONARY SOURCE,CA
S-1141-130-13: Mar 28 2018 2:43PM -- RINALDIR

PERMIT UNIT: S-1141-131-14

EXPIRATION DATE: 02/28/2021

SECTION: NW09 TOWNSHIP: 32S RANGE: 23E

EQUIPMENT DESCRIPTION:

3,000 BBL FIXED ROOF CRUDE OIL TANK #109-P2 SERVED BY VAPOR CONTROL EQUIPMENT LISTED ON S-1141-127; CRUDE OIL IS RECEIVED FROM ON-SITE STATION 1-09 AND STATION 3-09 (S-1130)

PERMIT UNIT REQUIREMENTS

- 1. 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
- 2. Tank shall vent only to vapor control equipment listed in S-1141-127 except during periods of tank cleaning and maintenance. VOC emissions shall be reduced by at least 99% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
- 3. Maximum VOC content of vapor in the tank vapor space and vapor control system piping shall not exceed 10% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
- 4. This unit is subject to Heavy Oil Tank Inspection and Maintenance Conditions on the facility wide permit S-1141-0. [District NSR Rule and District Rule 2520] Federally Enforceable Through Title V Permit
- 5. This unit is subject to Heavy Oil Tank Cleaning Conditions on the facility wide permit S-1141-0. [District Rule 2080] Federally Enforceable Through Title V Permit
- 6. This unit is subject to Heavy Oil Tank Testing Conditions on the facility wide permit S-1141-0. [District Rule 4623] Federally Enforceable Through Title V Permit

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

Facility Name: CHEVRON USA INC
Location: HEAVY OIL WESTERN STATIONARY SOURCE,CA
S-1141-131-14: Mar 28 2018 2:43PM - RINALDIR

PERMIT UNIT: S-1141-571-5

EXPIRATION DATE: 02/28/2021

SECTION: SW09 TOWNSHIP: 32S RANGE: 23E

EQUIPMENT DESCRIPTION:

3,000 BBL FIXED ROOF WATER STORAGE TANK (T-600) SERVED BY VAPOR CONTROL SYSTEM LISTED ON S-

1141-127

PERMIT UNIT REQUIREMENTS

- Maximum VOC content of vapor in the tank vapor recovery system shall not exceed 10% by weight. [District NSR 1. Rule] Federally Enforceable Through Title V Permit
- Tank shall vent only to vapor control equipment listed in S-1141-127. VOC emissions shall be reduced by at least 2. 99% by weight. [District NSR Rule] Federally Enforceable Through Title V Permit
- Emissions from this tank and associated tank vapor recovery system components, which are not exempt from fugitive component counts, shall not exceed 0.0 lb-VOC/day. [District NSR Rule] Federally Enforceable Through Title V Permit
- 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] Federally Enforceable Through Title V Permit
- This unit is subject to Heavy Oil Tank Testing Conditions on the facility wide permit S-1141-0. [District Rule 4623] Federally Enforceable Through Title V Permit

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

Facility Name: CHEVRON USA INC Location: HEAVY OIL WESTERN STATIONARY SOURCE, CA S-1141-571-5: Mar 28 2018 2:43PM - RINALDIR

PERMIT UNIT: S-1141-572-5

EXPIRATION DATE: 02/28/2021

SECTION: SW09 TOWNSHIP: 32S RANGE: 23E

EQUIPMENT DESCRIPTION:

3,000 BBL FIXED ROOF WATER STORAGE TANK (T-900) SERVED BY VAPOR CONTROL SYSTEM LISTED ON S-

1141-127

PERMIT UNIT REQUIREMENTS

- Maximum VOC content of vapor in the tank vapor recovery system shall not exceed 10% by weight. [District NSR Rule] Federally Enforceable Through Title V Permit
- Tank shall vent only to vapor control equipment listed in S-1141-127. VOC emissions shall be reduced by at least 2. 99% by weight. [District NSR Rule] Federally Enforceable Through Title V Permit
- Emissions from this tank and associated tank vapor recovery system components, which are not exempt from fugitive component counts, shall not exceed 0.0 lb-VOC/day. [District NSR Rule] Federally Enforceable Through Title V Permit
- 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] Federally Enforceable Through Title V Permit
- This unit is subject to Heavy Oil Tank Testing Conditions on the facility wide permit S-1141-0. [District Rule 4623] Federally Enforceable Through Title V Permit

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

Location: HEAVY OIL WESTERN STATIONARY SOURCE, CA 8-1141-572-5: Mar 28 2018 2:44PM -- RINALDIR

PERMIT UNIT: S-1141-585-8

EXPIRATION DATE: 02/28/2021

EQUIPMENT DESCRIPTION:

10,000 BBL FIXED ROOF CRUDE OIL STORAGE TANK VENTED TO VAPOR CONTROL SYSTEM LISTED ON S-1141-127

PERMIT UNIT REQUIREMENTS

- 1. 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
- Tank shall vent only to vapor control equipment listed in S-1141-127 except during periods of tank cleaning and maintenance. VOC emissions shall be reduced by at least 99% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
- 3. Maximum VOC content of vapor in the tank vapor space and vapor control system piping shall not exceed 10% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
- 4. This unit is subject to Heavy Oil Tank Inspection and Maintenance Conditions on the facility wide permit S-1141-0. [District Rules 2201 and 2520] Federally Enforceable Through Title V Permit
- 5. This unit is subject to Heavy Oil Tank Cleaning Conditions on the facility wide permit S-1141-0. [District Rule 2080] Federally Enforceable Through Title V Permit
- 6. This unit is subject to Heavy Oil Tank Testing Conditions on the facility wide permit S-1141-0. [District Rule 4623] Federally Enforceable Through Title V Permit

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

Facility Name: CHEVRON USA INC
Location: HEAVY OIL WESTERN STATIONARY SOURCE,CA
8-1141-585-8: Mar 28 2018 2:44PM - RINALDIR

PERMIT UNIT: S-1141-590-3

EXPIRATION DATE: 02/28/2021

SECTION: SW9 TOWNSHIP: 32S RANGE: 23E

EQUIPMENT DESCRIPTION:

8,750 BBL VAPOR CONTROLED FIXED ROOF PRODUCED WATER STORAGE TANK VENTED TO THE VAPOR CONTROL SYSTEM LISTED ON PERMIT S-1141-127

PERMIT UNIT REQUIREMENTS

- 1. 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] Federally Enforceable Through Title V Permit
- 2. Tank shall vent only to vapor control equipment listed in S-1141-127 except during periods of tank cleaning and maintenance. VOC emissions shall be reduced by at least 99% by weight. [District NSR Rule] Federally Enforceable Through Title V Permit
- 3. Maximum VOC content of vapor in the tank vapor space and vapor control system piping shall not exceed 10% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
- 4. This unit is subject to Heavy Oil Tank Inspection and Maintenance Conditions on the facility wide permit S-1141-0. [District Rules 2201 and 2520] Federally Enforceable Through Title V Permit
- 5. This unit is subject to Heavy Oil Tank Cleaning Conditions on the facility wide permit S-1141-0. [District Rule 2080] Federally Enforceable Through Title V Permit
- 6. This unit is subject to Heavy Oil Tank Testing Conditions on the facility wide permit S-1141-0. [District Rule 4623] Federally Enforceable Through Title V Permit

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

Facility Name: CHEVRON USA INC
Location: HEAVY OIL WESTERN STATIONARY SOURCE, CA
8-1141-590-3 : Mar 28 2018 2:44PM -- RINALDIR

PERMIT UNIT: S-1141-591-4

EXPIRATION DATE: 02/28/2021

SECTION: SW9 TOWNSHIP: 32S RANGE: 23E

EQUIPMENT DESCRIPTION:

8,750 BBL VAPOR CONTROLED FIXED ROOF PRODUCED WATER STORAGE TANK VENTED TO THE VAPOR CONTROL SYSTEM LISTED ON PERMIT S-1141-127

PERMIT UNIT REQUIREMENTS

- 1. 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] Federally Enforceable Through Title V Permit
- 2. Tank shall vent only to vapor control equipment listed in S-1141-127 except during periods of tank cleaning and maintenance. VOC emissions shall be reduced by at least 99% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
- 3. Maximum VOC content of vapor in the tank vapor space and vapor control system piping shall not exceed 10% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
- 4. This unit is subject to Heavy Oil Tank Inspection and Maintenance Conditions on the facility wide permit S-1141-0. [District Rules 2201 and, 2520] Federally Enforceable Through Title V Permit
- 5. This unit is subject to Heavy Oil Tank Cleaning Conditions on the facility wide permit S-1141-0. [District Rule 2080] Federally Enforceable Through Title V Permit
- 6. This unit is subject to Heavy Oil Tank Testing Conditions on the facility wide permit S-1141-0. [District Rule 4623] Federally Enforceable Through Title V Permit

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

Facility Name: CHEVRON USA INC
Location: HEAVY OIL WESTERN STATIONARY SOURCE, CA
S-1141-591-4: Mar 28 2018 2:45PM -- RINALDIR

APPENDIX B

Site Plan

Station 1-09

Inputs: South & Diatomite Production, St. 2-22 Soft Water

Outputs: Wet Oil LACT 13,400 BOEPD, Soft /Disposal Water 41,200/28,800 BPD

APPENDIX C

Emission Calculations

Tank Input Data	
permit number (S-xxxx-xx-xx)	S-1141-127
facility tank I.D.	
nearest city {1: Bakersfield, 2: Fresno, 3: Stockton}	1
tank ROC vapor pressure (psia)	0.06
liquid bulk storage temperature, Tb (°F)	108
is this a constant-level tank? (yes, no)	yes
will flashing losses occur in this tank (only if first-line tank)? (yes, no)	no
breather vent pressure setting range (psi)	0.06
diameter of tank (feet)	29.72
capacity of tank (bbl)	3,000
conical or dome roof? {c, d}	C
shell height of tank (feet)	24.13
average liquid height (feet)	4.1
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}	3
condition (1: Good, 2: Poor)	1
This row only used if shell is different color from roof	
This row only used if shell is different color from roof	

Liquid Input Data	A	B
maximum daily fluid throughput (bbl)		•
maximum annual fluid throughput (bbl)		0
This row only used if flashing losses occur in this tank		0
This row only used if flashing losses occur in this tank		-
molecular weight, Mw (lb/lb-mol)		100

Calculated Values	Α	В
daily maximum ambient temperature, Tax (°F)		77.65
daily minimum ambient temperature, Tan (°F)		53.15
daily total solar insulation factor, I (Btu/ft^2-day)		1648.9
atmospheric pressure, Pa (psia)		14.47
water vapor pressure at daily maximum liquid surface temperature (Tlx), Pvx (psia	101.7	1.0052
water vapor pressure at daily minimum liquid surface temperature (Tln), Pvn (psia	90.9	0.7215
water vapor pressure at average liquid surface temperature (Tla), Pva (psia)	96.3	0.8571
roof outage, Hro (feet)		0.3096
vapor space volume, Vv (cubic feet)		14110.08
paint factor, alpha		0.54
vapor density, Wv (lb/cubic foot)		0.0010
daily vapor temperature range, delta Tv (degrees Rankine)		42.57
vapor space expansion factor, Ke		0.0930

Results	lb/year	lb/day
Standing Storage Loss	481	1.32
Working Loss	N/A	N/A
Flashing Loss	N/A	N/A
Total Uncontrolled Tank VOC Emissions	481	1.3

Summary Table	
Permit Number	S-1141-127
Facility Tank I.D.	
Tank capacity (bbl)	3,000
Tank diameter (ft)	29.72
Tank shell height (ft)	24.13
Conical or Dome Roof	Conical
Maximum Daily Fluid Throughput (bbl/day)	_
Maximum Annual Fluid Throughput (bbl/year)	0
Maximum Daily Oil Throughput (bbl/day)	N/A
Maximum Annual Oil Throughput (bbl/year)	N\A
Total Uncontrolled Daily Tank VOC Emissions (lb/day)	1.3
Total Uncontrolled Annual Tank VOC Emissions (lb/year)	481

permit number (S-xxxx-xx-xx) facility tank I.D. nearest city {1: Bakersfield, 2: Fresno, 3: Stockton} tank ROC vapor pressure (psia)	S-1141-128
nearest city {1: Bakersfield, 2: Fresno, 3: Stockton} tank ROC vapor pressure (psia)	
tank ROC vapor pressure (psia)	1
	0.06
liquid bulk storage temperature, Tb (°F)	149
is this a constant-level tank? (yes, no)	yes
will flashing losses occur in this tank (only if first-line tank)? {yes, no}	no
breather vent pressure setting range (psi)	0.06
diameter of tank (feet)	29.72
capacity of tank (bbl)	3,000
conical or dome roof? (c, d)	
shell height of tank (feet)	24.13
average liquid height (feet)	15.5
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}	3
condition {1: Good, 2: Poor}	4

Liquid Input Data maximum daily fluid throughput (bbl)	A	1,000
maximum annual fluid throughput (bbi)		365,000
This row only used if flashing losses occur in this tank		
This row only used if flashing losses occur in this tank		
molecular weight, Mw (lb/lb-mol)		10

Calculated Values	Α	В
daily maximum ambient temperature, Tax (°F)	1	77.65
daily minimum ambient temperature, Tan (°F)		53.15
daily total solar insulation factor, I (Btu/ft^2-day)		1648.9
atmospheric pressure, Pa (psia)		14.47
water vapor pressure at daily maximum liquid surface temperature (Tlx), Pvx (psia	124.6	1.9410
water vapor pressure at daily minimum liquid surface temperature (Tln), Pvn (psia	113.9	1.4379
water vapor pressure at average liquid surface temperature (Tla), Pva (psia)	119.3	1.6633
roof outage, Hro (feet)		0.3096
vapor space volume, Vv (cubic feet)		6201.61
paint factor, alpha		0.54
vapor density, Wv (lb/cubic foot)		0.0010
daily vapor temperature range, delta Tv (degrees Rankine)		42.57
vapor space expansion factor, Ke		0.1081

Results	lb/year	lb/day
Standing Storage Loss	236	0.65
Working Loss	N/A	N/A
Flashing Loss	N/A	N/A
Total Uncontrolled Tank VOC Emissions	236	0.6

Summary Table	
Permit Number	S-1141-128
Facility Tank I.D.	
Tank capacity (bbl)	3,000
Tank diameter (ft)	29.72
Tank shell height (ft)	24.13
Conical or Dome Roof	Conical
Maximum Daily Fluid Throughput (bbl/day)	1,000
Maximum Annual Fluid Throughput (bbl/year)	365,000
Maximum Daily Oil Throughput (bbl/day)	N/A
Maximum Annual Oil Throughput (bbl/year)	N\A
Total Uncontrolled Daily Tank VOC Emissions (lb/day)	0.6
Total Uncontrolled Annual Tank VOC Emissions (lb/year)	236

Tank Input Dafa	0.4444.40
permit number (S-xxxx-xx-xx)	S-1141-129
facility tank I.D.	
nearest city (1: Bakersfield, 2: Fresno, 3: Stockton)	1
tank ROC vapor pressure (psia)	0.06
liquid bulk storage temperature, Tb (°F)	204
is this a constant-level tank? (yes, no)	yes
will flashing losses occur in this tank (only if first-line tank)? {yes, no}	no
breather vent pressure setting range (psi)	0.06
diameter of tank (feet)	29.72
capacity of tank (bbl)	3,000
conical or dome roof? {c , d}	C
shell height of tank (feet)	24.13
average liquid height (feet)	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}	3
condition {1: Good, 2: Poor}	1
This row only used if shell is different color from roof	
This row only used if shell is different color from roof	

Liquid Input Data	A	8
maximum daily fluid throughput (bbl)		7,000
maximum annual fluid throughput (bbl)		2,555,000
This row only used if flashing losses occur in this tank		
This row only used if flashing losses occur in this tank		- ·
molecular weight, Mw (ib/lb-mol)		100

Calculated Values	Α	В
daily maximum ambient temperature, Tax (°F)		77.65
daily minimum ambient temperature, Tan (°F)		53.15
daily total solar insulation factor, I (Btu/ft^2-day)		1648.9
atmospheric pressure, Pa (psia)		14.47
water vapor pressure at daily maximum liquid surface temperature (Tlx), Pvx (psia	155.4	4.2785
water vapor pressure at daily minimum liquid surface temperature (Tln), Pvn (psia	144.7	3.2788
water vapor pressure at average liquid surface temperature (Tla), Pva (psia)	150.1	3.7271
roof outage, Hro (feet)		0.3096
vapor space volume, Vv (cubic feet)		13485.73
paint factor, alpha		0.54
vapor densíty, Wv (lb/cubic foot)		0.0009
daily vapor temperature range, delta Tv (degrees Rankine)		42.57
vapor space expansion factor, Ke		0.1573

Results	lb/year	lb/day
Standing Storage Loss	709	1.94
Working Loss	N/A	N/A
Flashing Loss	N/A	N/A
Total Uncontrolled Tank VOC Emissions	709	1.9

Summary Table	
Permit Number	S-1141-129
Facility Tank I.D.	
Tank capacity (bbl)	3,000
Tank diameter (ft)	29.72
Tank shell height (ft)	24.13
Conical or Dome Roof	Conical
Maximum Daily Fluid Throughput (bbl/day)	7,000
Maximum Annual Fluid Throughput (bbl/year)	2,555,000
Maximum Daily Oil Throughput (bbl/day)	N/A
Maximum Annual Oil Throughput (bbl/year)	N/A
Total Uncontrolled Daily Tank VOC Emissions (lb/day)	1.9
Total Uncontrolled Annual Tank VOC Emissions (lb/year)	709

*	S-1141-130
permit number (S-xxxx-xx-xx)	3-1141-130
facility tank I.D.	
nearest city {1: Bakersfield, 2: Fresno, 3: Stockton}	
tank ROC vapor pressure (psia)	0.06
liquid bulk storage temperature, Tb (°F)	204
is this a constant-level tank? (yes, no)	yes
will flashing losses occur in this tank (only if first-line tank)? {yes, no}	no
breather vent pressure setting range (psi)	0.06
diameter of tank (feet)	29.72
capacity of tank (bbl)	3,000
conical or dome roof? {c, d}	
shell height of tank (feet)	24.13
average liquid height (feet)	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}	3
condition {1: Good, 2: Poor}	1
This row only used if shell is different color from roof	
This row only used if shell is different color from roofThis row only used if shell is different color from roof	

Liquid Input Data	A	В
maximum daily fluid throughput (bbl)		7,000
maximum annual fluid throughput (bbl)		2,555,000
This row only used if flashing losses occur in this tank		
This row only used if flashing losses occur in this tank		-
molecular weight, Mw (lb/lb-mol)		100

Calculated Values	Α	В
daily maximum ambient temperature, Tax (°F)		77.65
daily minimum ambient temperature, Tan (°F)		53.15
daily total solar insulation factor, I (Btu/ft^2-day)		1648.9
atmospheric pressure, Pa (psia)		14.47
water vapor pressure at daily maximum liquid surface temperature (Tlx), Pvx (psia	155.4	4.2785
water vapor pressure at daily minimum liquid surface temperature (Tln), Pvn (psia	144.7	3.2788
water vapor pressure at average liquid surface temperature (Tla), Pva (psia)	150.1	3.7271
roof outage, Hro (feet)		0.3096
vapor space volume, Vv (cubic feet)		13485.73
paint factor, alpha		0.54
vapor density, Wv (lb/cubic foot)		0.0009
daily vapor temperature range, delta Tv (degrees Rankine)		42.57
vapor space expansion factor, Ke		0.1573

Results	lb/year	lb/day
Standing Storage Loss	709	1.94
Working Loss	N/A	N/A
Flashing Loss	N/A	N/A
Total Uncontrolled Tank VOC Emissions	709	1.9

Summary Table	
Permit Number	S-1141-130
Facility Tank I.D.	60 MA MA
Tank capacity (bbl)	3,000
Tank diameter (ft)	29.72
Tank shell height (ft)	24.13
Conical or Dome Roof	Conical
Maximum Daily Fluid Throughput (bbl/day)	7,000
Maximum Annual Fluid Throughput (bbl/year)	2,555,000
Maximum Daily Oil Throughput (bbl/day)	N/A
Maximum Annual Oil Throughput (bbl/year)	N\A
Total Uncontrolled Daily Tank VOC Emissions (lb/day)	1.9
Total Uncontrolled Annual Tank VOC Emissions (lb/year)	709

Tank Input Data	
permit number (S-xxxx-xx-xx)	S-1141-131
facility tank I.D.	
nearest city (1: Bakersfield, 2: Fresno, 3: Stockton)	1
ank ROC vapor pressure (psia)	0.06
iquid bulk storage temperature, Tb (°F)	150
s this a constant-level tank? (yes, no)	yes
will flashing losses occur in this tank (only if first-line tank)? {yes, no}	no
preather vent pressure setting range (psi)	0.06
diameter of tank (feet)	29.72
capacity of tank (bbl)	3,000
conical or dome roof? (c, d)	C
shell height of tank (feet)	. 24.13
average liquid height (feet)	6.4
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}	3
condition {1: Good, 2: Poor}	1

Liquid Input Data	A	В
maximum daily fluid throughput (bbl)		1,000
maximum annual fluid throughput (bbl)		365,000
This row only used if flashing losses occur in this tank		
This row only used if flashing losses occur in this tank		ž
molecular weight, Mw (lb/lb-mol)		100

Calculated Values	Α	В
daily maximum ambient temperature, Tax (°F)		77.65
daily minimum ambient temperature, Tan (°F)	`	53.15
daily total solar insulation factor, I (Btu/ft^2-day)		1648.9
atmospheric pressure, Pa (psia)		14.47
water vapor pressure at daily maximum liquid surface temperature (Tlx), Pvx (psia	125.2	1.9707
water vapor pressure at daily minimum liquid surface temperature (TIn), Pvn (psia	114.4	1.4614
water vapor pressure at average liquid surface temperature (Tla), Pva (psia)	119.8	1.6868
roof outage, Hro (feet)		0.3096
vapor space volume, Vv (cubic feet)		12514.51
paint factor, alpha		0.54
vapor density, Wv (lb/cubic foot)		0.0010
daily vapor temperature range, delta Tv (degrees Rankine)		42.57
vapor space expansion factor, Ke		0.1086

Results	lb/year	lb/day
Standing Storage Loss	478	1,31
Working Loss	N/A	N/A
Flashing Loss	N/A	N/A
Total Uncontrolled Tank VOC Emissions	478	1.3

Summary Table	
Permit Number	S-1141-131
Facility Tank I.D.	
Tank capacity (bbl)	3,000
Tank diameter (ft)	29.72
Tank shell height (ft)	24.13
Conical or Dome Roof	Conical
Maximum Daily Fluid Throughput (bbl/day)	1,000
Maximum Annual Fluid Throughput (bbl/year)	365,000
Maximum Daily Oil Throughput (bbl/day)	N/A
Maximum Annual Oil Throughput (bbl/year)	N/A
Total Uncontrolled Daily Tank VOC Emissions (lb/day)	1.3
Total Uncontrolled Annual Tank VOC Emissions (lb/year)	478

Tank Input Data	S-1141-57
permit number (S-xxxx-xx-xx)	3-1141-37
facility tank I.D.	
nearest city {1: Bakersfield, 2: Fresno, 3: Stockton}	
tank ROC vapor pressure (psia)	0.06
liquid bulk storage temperature, Tb (°F)	160
is this a constant-level tank? (yes, no)	ye:
will flashing losses occur in this tank (only if first-line tank)? {yes, no}	n(
breather vent pressure setting range (psi)	0.06
diameter of tank (feet)	29.55
capacity of tank (bbl)	3,000
conical or dome roof? {c, d}	
shell height of tank (feet)	24
average liquid height (feet)	10
are the roof and shell the same color? {yes,no}	ye:
For roof:	
color {1:Spec Al, 2:Diff Al, 3:Light, 4:Med, 5:Red, 6:White}	3
condition (1: Good, 2: Poor)	1

Liquid Input Data	A	8
maximum daily fluid throughput (bbl)		70,000
maximum annual fluid throughput (bbl)		25,550,000
This row only used if flashing losses occur in this tank		
This row only used if flashing losses occur in this tank		÷
molecular weight, Mw (lb/lb-mol)	200	100

Calculated Values	Α	В
daily maximum ambient temperature, Tax (°F)		77.65
daily minimum ambient temperature, Tan (°F)		53.15
daily total solar insulation factor, I (Btu/ft^2-day)		1648.9
atmospheric pressure, Pa (psia)		14.47
water vapor pressure at daily maximum liquid surface temperature (TIx), Pvx (psia	130.8	2.2787
water vapor pressure at daily minimum liquid surface temperature (Tln), Pvn (psia	120.0	1.6958
water vapor pressure at average liquid surface temperature (Tla), Pva (psia)	125.4	1.9818
roof outage, Hro (feet)		0.3078
vapor space volume, Vv (cubic feet)		9812.46
paint factor, alpha		0.54
vapor density, Wv (lb/cubic foot)		0.0010
daily vapor temperature range, delta Tv (degrees Rankine)		42.57
vapor space expansion factor, Ke		0.1146

Results	lb/year	lb/day
Standing Storage Loss	392	1.07
Working Loss	N/A	N/A
Flashing Loss	N/A	N/A
Total Uncontrolled Tank VOC Emissions	392	1.1

Summary Table	
Permit Number	S-1141-571
Facility Tank I.D.	
Tank capacity (bbl)	3,000
Tank diameter (ft)	29.55
Tank shell height (ft)	24
Conical or Dome Roof	Conical
Maximum Daily Fluid Throughput (bbl/day)	70,000
Maximum Annual Fluid Throughput (bbl/year)	25,550,000
Maximum Daily Oil Throughput (bbl/day)	N/A
Maximum Annual Oil Throughput (bbl/year)	N\A
Total Uncontrolled Daily Tank VOC Emissions (lb/day)	1.1
Total Uncontrolled Annual Tank VOC Emissions (lb/year)	392

	6 4444 577
permit number (S-xxxx-xx-xx)	S-1141-572
facility tank I.D.	
nearest city {1: Bakersfield, 2: Fresno, 3: Stockton}	1
tank ROC vapor pressure (psia)	0.06
liquid bulk storage temperature, Tb (°F)	160
is this a constant-level tank? {yes, no}	yes
will flashing losses occur in this tank (only if first-line tank)? {yes, no}	nc
breather vent pressure setting range (psi)	0.06
diameter of tank (feet)	29.55
capacity of tank (bbl)	3,000
conical or dome roof? {c, d}	C
shell height of tank (feet)	24
average liquid height (feet)	14
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}	3
condition {1: Good, 2: Poor}	1
This row only used if shell is different color from roof	
This row only used if shell is different color from roofThis row only used if shell is different color from roof	

maximum daily fluid throughput (bbl)	70,000
maximum annual fluid throughput (bbl)	25,550,000
This row only used if flashing losses occur in this tank	
This row only used if flashing losses occur in this tank	-
molecular weight, Mw (lb/lb-mol)	100

Calculated Values	Α	В
daily maximum ambient temperature, Tax (°F)		77.65
daily minimum ambient temperature, Tan (°F)		53.15
daily total solar insulation factor, I (Btu/ft^2-day)		1648.9
atmospheric pressure, Pa (psia)		14.47
water vapor pressure at daily maximum liquid surface temperature (Tlx), Pvx (psia	130.8	2.2787
water vapor pressure at daily minimum liquid surface temperature (Tln), Pvn (psia	120.0	1.6958
water vapor pressure at average liquid surface temperature (Tla), Pva (psia)	125.4	1.9818
roof outage, Hro (feet)		0.3078
vapor space volume, Vv (cubic feet)		7069.22
paint factor, alpha		0.54
vapor density, Wv (lb/cubic foot)		0.0010
daily vapor temperature range, delta T∨ (degrees Rankine)		42.57
vapor space expansion factor, Ke		0.1146

Results	lb/year	lb/day
Standing Storage Loss	282	0.77
Working Loss	N/A	N/A
Flashing Loss	N/A	N/A
Total Uncontrolled Tank VOC Emissions	282	0.8

Summary Table	3.754
Permit Number	S-1141-572
Facility Tank I.D.	
Tank capacity (bbl)	3,000
Tank diameter (ft)	29.55
Tank shell height (ft)	24
Conical or Dome Roof	Conical
Maximum Daily Fluid Throughput (bbl/day)	70,000
Maximum Annual Fluid Throughput (bbl/year)	25,550,000
Maximum Daily Oil Throughput (bbl/day)	N/A
Maximum Annual Oil Throughput (bbl/year)	N/A
Total Uncontrolled Daily Tank VOC Emissions (lb/day)	0.8
Total Uncontrolled Annual Tank VOC Emissions (lb/year)	282

Tank Input Data	
permit number (S-xxxx-xx-xx)	S-1141-58
facility tank I.D.	
nearest city {1: Bakersfield, 2: Fresno, 3: Stockton}	1
tank ROC vapor pressure (psia)	0.06
liquid bulk storage temperature, Tb (°F)	160
s this a constant-level tank? (yes, no)	yes
will flashing losses occur in this tank (only if first-line tank)? (yes, no)	nc
breather vent pressure setting range (psi)	0.06
diameter of tank (feet)	65
capacity of tank (bbl)	5,000
conical or dome roof? (c, d)	C
shell height of tank (feet)	8
average liquid height (feet)	4
are the roof and shell the same color? (yes,no)	yes
For roof:	100
color {1:Spec Al, 2:Diff Al, 3:Light, 4:Med, 5:Red, 6:White}	3
condition {1: Good, 2: Poor}	1

Liquid Input Data	A	В
maximum daily fluid throughput (bbl)		30,000
maximum annual fluid throughput (bbl)		10,950,000
This row only used if flashing losses occur in this tank	1	
This row only used if flashing losses occur in this tank		-
molecular weight, Mw (lb/lb-mol)		100

Calculated Values	Α	В
daily maximum ambient temperature, Tax (°F)		77.65
daily minimum ambient temperature, Tan (°F)		53.15
daily total solar insulation factor, I (Btu/ft^2-day)		1648.9
atmospheric pressure, Pa (psia)		14.47
water vapor pressure at daily maximum liquid surface temperature (Tlx), Pvx (psia	130.8	2.2787
water vapor pressure at daily minimum liquid surface temperature (Tln), Pvn (psia	120.0	1.6958
water vapor pressure at average liquid surface temperature (Tla), Pva (psia)	125.4	1.9818
roof outage, Hro (feet)		0.6771
vapor space volume, Vv (cubic feet)		15520.00
paint factor, alpha		0.54
vapor density, Wv (lb/cubic foot)		0.0010
daily vapor temperature range, delta Tv (degrees Rankine)		42.57
vapor space expansion factor, Ke		0.1146

Results	lb/year	ibiday
Standing Storage Loss	620	1.70
Working Loss	N/A	N/A
Flashing Loss	N/A	N/A
Total Uncontrolled Tank VOC Emissions	620	1.7

Summary Table	
Permit Number	S-1141-585
Facility Tank I.D.	
Tank capacity (bbl)	5,000
Tank diameter (ft)	65
Tank shell height (ft)	8
Conical or Dome Roof	Conical
Maximum Daily Fluid Throughput (bbl/day)	30,000
Maximum Annual Fluid Throughput (bbl/year)	10,950,000
Maximum Daily Oil Throughput (bbl/day)	N/A
Maximum Annual Oil Throughput (bbl/year)	N\A
Total Uncontrolled Daily Tank VOC Emissions (lb/day)	1.7
Total Uncontrolled Annual Tank VOC Emissions (lb/year)	620

permit number (S-xxxx-xx-xx)	S-1141-590
facility tank I.D.	0 1171 000
nearest city {1: Bakersfield, 2: Fresno, 3: Stockton}	1
tank ROC vapor pressure (psia)	0.06
liquid bulk storage temperature, Tb (°F)	160
is this a constant-level tank? (yes, no)	yes
will flashing losses occur in this tank (only if first-line tank)? {yes, no}	no
breather vent pressure setting range (psi)	0.06
diameter of tank (feet)	50
capacity of tank (bbl)	8,750
conical or dome roof? (c, d)	C
shell height of tank (feet)	26
average liquid height (feet)	18
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}	3
condition (1: Good, 2: Poor)	1
This row only used if shell is different color from roof	

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

Calculated Values	Α	В
daily maximum ambient temperature, Tax (°F)		77.65
daily minimum ambient temperature, Tan (°F)		53.15
daily total solar insulation factor, I (Btu/ft^2-day)		1648.9
atmospheric pressure, Pa (psia)		14.47
water vapor pressure at daily maximum liquid surface temperature (Tlx), Pvx (psia	130.8	2.2787
water vapor pressure at daily minimum liquid surface temperature (Tln), Pvn (psia	120.0	1.6958
water vapor pressure at average liquid surface temperature (Tla), Pva (psia)	125.4	1.9818
roof outage, Hro (feet)		0.5208
vapor space volume, Vv (cubic feet)		16730.62
paint factor, alpha		0.54
vapor density, Wv (lb/cubic foot)		0.0010
daily vapor temperature range, delta Tv (degrees Rankine)		42.57
vapor space expansion factor, Ke		0.1146

Results	lb/year	lb/day
Standing Storage Loss	668	1.83
Working Loss	N/A	N/A
Flashing Loss	N/A	N/A
Total Uncontrolled Tank VOC Emissions	668	1.8

Summary Table	
Permit Number	S-1141-590
Facility Tank I.D.	
Tank capacity (bbl)	8,750
Tank diameter (ft)	50
Tank shell height (ft)	26
Conical or Dome Roof	Conical
Maximum Daily Fluid Throughput (bbl/day)	-
Maximum Annual Fluid Throughput (bbl/year)	0
Maximum Daily Oil Throughput (bbl/day)	N/A
Maximum Annual Oil Throughput (bbl/year)	N\A
Total Uncontrolled Daily Tank VOC Emissions (lb/day)	1.8
Total Uncontrolled Annual Tank VOC Emissions (lb/year)	668

Tank Input Data	
permit number (S-xxxx-xx-xx)	S-1141-591
facility tank I.D.	
nearest city {1: Bakersfield, 2: Fresno, 3: Stockton}	1
tank ROC vapor pressure (psia)	0.06
liquid bulk storage temperature, Tb (°F)	160
is this a constant-level tank? (yes, no)	yes
will flashing losses occur in this tank (only if first-line tank)? {yes, no}	nc
breather vent pressure setting range (psi)	0.06
diameter of tank (feet)	50
capacity of tank (bbt)	8,750
conical or dome roof? (c, d)	C
shell height of tank (feet)	26
average liquid height (feet)	18
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)	3
condition {1: Good, 2: Poor}	1
This row only used if shell is different color from roof	
This row only used if shell is different color from roof	

Liquid Input Data	A	8
maximum daily fluid throughput (bbl)		*
maximum annual fluid throughput (bbl)		
This row only used if flashing losses occur in this tank		
This row only used if flashing losses occur in this tank		ž.
molecular weight, Mw (lb/lb-mol)		100

Calculated Values	Α	В
daily maximum ambient temperature, Tax (°F)		77.65
daily minimum ambient temperature, Tan (°F)		53.15
daily total solar insulation factor, I (Btu/ft^2-day)		1648.9
atmospheric pressure, Pa (psia)		14.47
water vapor pressure at daily maximum liquid surface temperature (Tlx), Pvx (psia	130.8	2.2787
water vapor pressure at daily minimum liquid surface temperature (Tln), Pvn (psia	120.0	1.6958
water vapor pressure at average liquid surface temperature (Tla), Pva (psia)	125.4	1.9818
roof outage, Hro (feet)		0.5208
vapor space volume, Vv (cubic feet)		16730.62
paint factor, alpha		0.54
vapor density, Wv (lb/cubic foot)		0.0010
daily vapor temperature range, delta Tv (degrees Rankine)		42.57
vapor space expansion factor, Ke		0.1146

Results	lb/year	lb/day
Standing Storage Loss	668	1.83
Working Loss	N/A	N/A
Flashing Loss	N/A	N/A
Total Uncontrolled Tank VOC Emissions	668	1.8

Summary Table	
Permit Number	S-1141-591
Facility Tank I.D.	
Tank capacity (bbl)	8,750
Tank diameter (ft)	50
Tank shell height (ft)	26
Conical or Dome Roof	Conical
Maximum Daily Fluid Throughput (bbl/day)	_
Maximum Annual Fluid Throughput (bbl/year)	0
Maximum Daily Oil Throughput (bbl/day)	N/A
Maximum Annual Oil Throughput (bbl/year)	N\A
Total Uncontrolled Daily Tank VOC Emissions (lb/day)	1.8
Total Uncontrolled Annual Tank VOC Emissions (lb/year)	668

Tank Input Data	
permit number (S-xxxx-xx-xx)	S-1141-612
facility tank I.D.	
nearest city {1: Bakersfield, 2: Fresno, 3: Stockton}	1
tank ROC vapor pressure (psia)	0.06
liquid bulk storage temperature, Tb (°F)	150
is this a constant-level tank? {yes, no}	yes
will flashing losses occur in this tank (only if first-line tank)? {yes, no}	no
breather vent pressure setting range (psi)	0.06
diameter of tank (feet)	31
capacity of tank (bbl)	1,048
conical or dome roof? {c, d}	С
shell height of tank (feet)	8
average liquid height (feet)	8
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 you only used if shall is different salar from year	
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	В
maximum daily fluid throughput (bbl)		171,400
maximum annual fluid throughput (bbl)	30,400	30,400
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	Α	В
daily maximum ambient temperature, Tax (°F)		77.65
daily minimum ambient temperature, Tan (°F)		53.15
daily total solar insulation factor, I (Btu/ft^2-day)		1648.9
atmospheric pressure, Pa (psia)		14.47
water vapor pressure at daily maximum liquid surface temperature (Tlx), Pvx (psia)	127.0	2.0675
water vapor pressure at daily minimum liquid surface temperature (Tln), Pvn (psia)	116.2	1.5376
water vapor pressure at average liquid surface temperature (Tla), Pva (psia)	121.6	1.7814
roof outage, Hro (feet)		0.3229
vapor space volume, Vv (cubic feet)		243.73
paint factor, alpha		0.68
vapor density, Wv (lb/cubic foot)		0.0010
daily vapor temperature range, delta Tv (degrees Rankine)		49.04
vapor space expansion factor, Ke		0.1213

Results	lb/year	lb/day
Standing Storage Loss	10	0.03
Working Loss	N/A	N/A
Flashing Loss	N/A	N/A
Total Uncontrolled Tank VOC Emissions	10	0.0

Summary Table	
Permit Number	S-1141-612
Facility Tank I.D.	
Tank capacity (bbl)	1,048
Tank diameter (ft)	31
Tank shell height (ft)	8
Conical or Dome Roof	Conical
Maximum Daily Fluid Throughput (bbl/day)	171,400
Maximum Annual Fluid Throughput (bbl/year)	30,400
Maximum Daily Oil Throughput (bbl/day)	N/A
Maximum Annual Oil Throughput (bbl/year)	N\A
Total Uncontrolled Daily Tank VOC Emissions (lb/day)	0.0
Total Uncontrolled Annual Tank VOC Emissions (lb/year)	10

Tank Input Data	
permit number (S-xxxx-xx-xx)	S-1141-613
facility tank I.D.	41
nearest city {1: Bakersfield, 2: Fresno, 3: Stockton}	1
ank ROC vapor pressure (psia)	0.06
iquid bulk storage temperature, Tb (°F)	150
s this a constant-level tank? {yes, no}	yes
will flashing losses occur in this tank (only if first-line tank)? {yes, no}	no
preather vent pressure setting range (psi)	0.06
diameter of tank (feet)	31
capacity of tank (bbl)	1,048
conical or dome roof? {c, d}	C
shell height of tank (feet)	8
average liquid height (feet)	8
are the roof and shell the same color? {yes,no}	yes
For roof:	
color {1:Spec AI, 2:Diff AI, 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 it shell is different color from roof	

Liquid Input Data	Α	В
maximum daily fluid throughput (bbl)		171,400
maximum annual fluid throughput (bbl)	30,400	30,400
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	Α	В
daily maximum ambient temperature, Tax (°F)		77.65
daily minimum ambient temperature, Tan (°F)		53.15
daily total solar insulation factor, I (Btu/ft^2-day)		1648.9
atmospheric pressure, Pa (psia)		14.47
water vapor pressure at daily maximum liquid surface temperature (Tlx), Pvx (psia)	127.0	2.0675
water vapor pressure at daily minimum liquid surface temperature (Tln), Pvn (psia)	116.2	1.5376
water vapor pressure at average liquid surface temperature (Tla), Pva (psia)	121.6	1.7814
roof outage, Hro (feet)		0.3229
vapor space volume, Vv (cubic feet)		243.73
paint factor, alpha		0.68
vapor density, Wv (lb/cubic foot)		0.0010
daily vapor temperature range, delta Tv (degrees Rankine)		49.04
vapor space expansion factor, Ke		0.1213

Results	lb/year	lb/day
Standing Storage Loss	10	0.03
Working Loss	N/A	N/A
Flashing Loss	N/A	N/A
Total Uncontrolled Tank VOC Emissions	10	0.0

Summary Table	
Permit Number	S-1141-613
Facility Tank I.D.	
Tank capacity (bbl)	1,048
Tank diameter (ft)	31
Tank shell height (ft)	8
Conical or Dome Roof	Conical
Maximum Daily Fluid Throughput (bbl/day)	171,400
Maximum Annual Fluid Throughput (bbl/year)	30,400
Maximum Daily Oil Throughput (bbl/day)	N/A
Maximum Annual Oil Throughput (bbl/year)	N\A
Total Uncontrolled Daily Tank VOC Emissions (lb/day)	0.0
Total Uncontrolled Annual Tank VOC Emissions (lb/year)	10

APPENDIX D

BACT Guideline

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 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 s 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.

APPENDIX E

Top-Down BACT Analysis

Top-Down BACT Analysis

VOC emissions occur with temporary disconnection of the tank vapor control system for maintenance and repair activities, process upsets, and equipment breakdowns. There is no current BACT Guideline for this highly unusual, nonroutine, activity. Therefore, a project specific BACT analysis will be done. This project-specific BACT analysis is based on a similar analysis done for project S-1142757.

Step 1 - Identify All Possible Control Technologies

There is no applicable BACT Guideline for this class and category of equipment. The following control technologies have been identified:

VOC: Work practices to minimize VOC emissions (Achieved-in-Practice) including:

- Near constant level tank operation
- Use of operational P/V valve where possible
- Work completed expeditiously with pre-staging of equipment and material and prefabrication of parts
- Minimization of tank openings and liquid drainage from disconnects
- Storage of coatings, adhesives, sealants, and organic solvents in closed containers
- Inspection, monitoring, and repair if necessary of fugitive emissions components at job site within 30 days of completion of work.

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

VOC: Work practices to minimize VOC emissions (Achieved-in-Practice) including:

- Near constant level tank operation
- Use of operational P/V valve where possible
- Work completed expeditiously with pre-staging of equipment and material and prefabrication of parts
- Minimization of tank openings and liquid drainage from disconnects
- Storage of coatings, adhesives, sealants, and organic solvents in closed containers
- Inspection, monitoring, and repair if necessary of fugitive emissions components at job site within 30 days of completion of work.

Step 4 - Cost Effectiveness Analysis

Applicant has selected the only option listed above and therefore a cost analysis is not required.

Step 5 - Select BACT

VOC: Work practices to minimize VOC emissions (Achieved-in-Practice) as stated in the following ATC condition:

 During temporary periods of maintenance/repair/upsets covered by this permit, operator shall use work practices to minimize VOC emissions including: near constant level tank operation, use of operational P/V valve where possible, work completed expeditiously with pre-staging of equipment and material and pre-fabrication of parts, minimization of tank openings and liquid drainage from disconnects, storage of coatings, adhesives, sealants, and organic solvents in closed containers, inspection, monitoring, and repair if necessary of fugitive emissions components at job site within 30 days of completion of work. [District Rule 2201]

APPENDIX F

Statewide Compliance Statement



Donald Puckett General Manager - Operations

San Joaquin Valley SBU Chevron North America Exploration and Production P. O. Box 1392

January 13, 2015

Mr. Seyed Sadredin San Joaquin Valley Air Pollution Control District 34946 Flyover Court Bakersfield, CA 93308

RE: Statewide Compliance Certification

Dear Mr. Sadredin:

As required under District Rule 2201, Subsection 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 as of this date.

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
- El Segundo Marketing Terminal
- Richmond Refinery
- · Banta Marketing Terminal
- Huntington Beach Marketing Terminal
- Montebello Marketing Terminal
- Sacramento Marketing Terminal
- Van Nuys Marketing Terminal
- Cross Valley Carneras Gas Compressor Facility (Kern County)
- Kettleman City Pump Station (Kings County)
- 27G Pump Station (Kern County)
- San Joaquin Valley Business Unit:
 - 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 & Cymric)
 - Kern County Western Light Oil Source (Midway Sunset, Cymric & Lost Hills)
 - Kern County Western Gas Source (Cymric & Lost Hills)
 - San Ardo (Monterey County)

Mr. Seyed Sadredin Statewide Compliance Certification January 13, 2015 Page 2

- San Luis Obispo (San Luis Obispo County)
- Global Power (Joint Venture Facilities):
 - 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
 - Sycamore Cogeneration Company in Kern County

Please telephone Ashley Dahlstrom at (661) 654-7293 or Dave Bone at (661) 654-7150 if there are questions.

Sincerely,

Donald Puckett

General Manager - Operations

APPENDIX G

Title V Compliance Certification Form





TITLE V MODIFICATION - COMPLIANCE CERTIFICATION FORM

1. TYPE OF PERMIT ACTION (Check appropriate box)
☐ ADMINISTRATIVE AMENDMENT ☐ MINOR MODIFICATION ☑ SIGNIFICANT MODIFICATION
COMPANY NAME: Chevron U.S.A., Inc. FACILITY ID: S-1141
1. Type of Organization: ☑ Corporation ☐ Sole Ownership ☐ Government ☐ Partnership ☐ Utility
2. Owner's Name: Chevron U.S.A., Inc.
3. Agent to the Owner; N/A
II. COMPLIANCE CERTIFICATION (Read each statement carefully and initial applicable circles for confirmation):
Based on information and belief formed after reasonable inquiry, the equipment identified in this application will conto to comply with the applicable federal requirement(s)
Based on information and belief formed after reasonable inquiry, the equipment identified in this application will conwith applicable federal requirement(s) that will become effective during the permit term, on a timely basis.
Corrected information will be provided to the District when I become aware that incorrect or incomplete information been submitted.
Based on information and belief formed after reasonable inquiry, information and statements in the submitted applica package, including all accompanying reports, and required certifications are true, accurate, and complete.
For minor modifications, this application meets the criteria for use of minor permit modification procedures pursuant District Rule 2520.
I declare, under penalty of perjury under the laws of the state of California, that the forgoing is correct and true:
(Miller alder
Signature of Responsible Official Date
Cory Carler
Name of Responsible Official (please print)
Plant Supervisor - Station 2-22
Title of Responsible Official (please print)

APPENDIX H

Draft ATCs

AUTHORITY TO CONSTRUCT

PERMIT NO: S-1141-127-50

LEGAL OWNER OR OPERATOR: CHEVRON USA INC

MAILING ADDRESS:

BAKERSFIELD, CA 93302

PO BOX 1392

LOCATION:

HEAVY OIL WESTERN STATIONARY SOURCE

SECTION: SW 09 TOWNSHIP: 32S RANGE: 23E

EQUIPMENT DESCRIPTION:

MODIFICATION OF 3,000 BBL FIXED ROOF CRUDE OIL TANK #T-127, DEPURATORS, TWO NATURAL GAS-FIRED EXEMPT HEATER TREATERS (T9 AND T10) (EACH RATED LESS THAN 5.0 MMBTU/HR), AND SHARED VAPOR CONTROL EQUIPMENT INCLUDING INTAKE AND DISCHARGE HEAT EXCHANGERS, GAS-LIQUID SEPARATOR(S), COMPRESSOR(S) SERVING PERMIT UNITS S-1141-127 THROUGH '-131, '-560, '-571, '-572, '-575, '-576, '-577, '-578, '-579, '-580, '-585, '-591 AND '-605; INCLUDING OPTIONAL USE H2S SCRUBBER, AND VAPOR PIPING DISCHARGING TO STEAM GENERATORS S-1141-26, '-31, '-515, '-549, '-550, '-551, '-553, '-555, '-556, '-557, '-558, EMERGENCY FLARE S-1141-513, AND/OR DOGGR APPROVED DISPOSAL WELL(S): ADD PROVISIONS FOR TANK TO BE DISCONNECTED FROM VAPOR CONTROL SYSTEM FOR UP TO 600 HOURS PER 12-MONTH ROLLING PERIOD AND MOVE DEPURATORS TO SEPERATE PTOS S-1141-612-0 & '-613-0

CONDITIONS

- {1830} 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
- {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
- ATCs S-1141-612-0 and '-613-0 for moving depurators to a separate permit shall be implemented concurrently with this ATC [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.

Samir Sheikh, Executive Director

Arnaud Marjollet, Director of Permit Services

- 4. Prior to operating equipment under this Authority to Construct, permittee shall surrender emission reduction credits for the following quantities of emissions: VOC: 1 st quarter- 12 lb, 2nd quarter- 12 lb, 3rd quarter- 12 lb, and 4th quarter- 12 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 4/21/11) for the ERCs specified below. [District Rule 2201] Federally Enforceable Through Title V Permit
- 5. ERC Certificate Number S-4558-1 (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
- 6. Tank shall vent only to vapor control equipment listed in S-1141-127 except during periods of tank cleaning and maintenance. VOC emissions shall be reduced by at least 99% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
- 7. Vapor control system may be inoperable during maintenance/repairs/upset conditions of tanks S-1141-127, -128, -129, -130, -131, -571, -572, -585, -590, -591, -612 and -613 for up to 600 hours per tank per 12-month rolling period. District-approved breakdowns and relief periods granted by variance and supported by the District shall not be included in this limit. [District Rule 2201] Federally Enforceable Through Title V Permit
- 8. Vapor control system will remain operable at all times for front line production equipment defined in section 3.15 of Rule 4401 including tanks S-1141-560, -575, -576, -577, -578, -579, -580, and -605. [District Rules 2201 & 4401] Federally Enforceable Through Title V Permit
- 9. During temporary periods of maintenance/repair/upsets covered by this permit, operator shall use work practices to minimize VOC emissions including: near constant level tank operation, use of operational P/V valve where possible, work completed expeditiously with pre-staging of equipment and material and pre-fabrication of parts, minimization of tank openings and liquid drainage from disconnects, storage of coatings, adhesives, sealants, and organic solvents in closed containers. [District Rule 2201] Federally Enforceable Through Title V Permit
- 10. When disconnected from the vapor control system for maintenance/repairs/upset conditions, tank will store organic liquid with a true vapor pressure less than 0.5 psia. [District Rule 2201] Federally Enforceable Through Title V Permit
- 11. Records of the dates, hr/day, and hr/yr when vapor control system is inoperable for tank maintenance/repairs/upset conditions shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
- 12. Operator shall conduct quarterly sampling from the Station 1-09 tank vapor recovery system to qualify for exemption from fugitive component counts for components handling fluids with less than 10% VOC by weight. If fluids sampled are less than 10% VOC by weight for 8 consecutive quarterly samplings, sampling frequency shall only be required annually. Such sampling is deemed representative of all components downstream of the equipment served by the vapor control system. [District Rule 2201] Federally Enforceable Through Title V Permit
- 13. VOC content of vapor by weight percent (wt.%) shall be determined using American Society of Testing and Materials (ASTM) D1945, D1946, EPA Method 18 referenced as methane, or equivalent test method with prior District approval. [District Rule 2201] Federally Enforceable Through Title V Permit
- 14. The tank shall be equipped with a vapor control system consisting of a closed vent system that collects all VOCs from the storage tank, except during periods of tank cleaning and maintenance. Collected vapors shall be disposed of in APCO approved control devices listed in this permit. VOC emissions shall be reduced by at least 99% by weight. [District Rule 2201 and 2520, 9.4.2] Federally Enforceable Through Title V Permit
- 15. 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] Federally Enforceable Through Title V Permit
- 16. Maximum VOC content of vapor in the tank vapor space shall not exceed 10% by weight (Wt %). [District Rule 2201] Federally Enforceable Through Title V Permit
- 17. VOC content of vapor shall be determined by ASTM D1945, ASTM D1946, EPA Method 18 referenced as methane, or equivalent test method with prior District approval. [District Rule 2201] Federally Enforceable Through Title V Permit

- 18. This unit is subject to Heavy Oil Tank Inspection and Maintenance Conditions on the facility wide permit S-1141-0. [District NSR Rule and District Rule 2520] Federally Enforceable Through Title V Permit
- 19. This unit is subject to Heavy Oil Tank Cleaning Conditions on the facility wide permit S-1141-0. [District Rule 2080] Federally Enforceable Through Title V Permit
- 20. This unit is subject to Heavy Oil Tank Testing Conditions on the facility wide permit S-1141-0. [District Rule 4623] Federally Enforceable Through Title V Permit



AUTHORITY TO CONSTRUCT

PERMIT NO: S-1141-128-16

LEGAL OWNER OR OPERATOR: CHEVRON USA INC

MAILING ADDRESS:

PO BOX 1392

BAKERSFIELD, CA 93302

LOCATION:

HEAVY OIL WESTERN STATIONARY SOURCE

SECTION: NW09 TOWNSHIP: 32S RANGE: 23E

EQUIPMENT DESCRIPTION:

MODIFICATION OF 3000 BBL FIXED ROOF CRUDE OIL TANK #109-C3 SERVED BY VAPOR CONTROL EQUIPMENT LISTED ON S-1141-127; CRUDE OIL IS RECEIVED FROM ON-SITE STATION 1-09 AND STATION 3-09 (S-1130); ADD PROVISIONS FOR TANK TO BE DISCONNECTED FROM VAPOR CONTROL SYSTEM FOR UP TO 600 HOURS PER 12-MONTH ROLLING PERIOD

CONDITIONS

- {1830} 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
- {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
- Prior to operating equipment under this Authority to Construct, permittee shall surrender emission reduction credits for the following quantities of emissions: VOC: 1 st quarter- 6 lb, 2nd quarter- 6 lb, 3rd quarter- 6 lb, and 4th quarter- 6 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 4/21/11) for the ERCs specified below. [District Rule 2201] Federally Enforceable Through Title V Permit
- ERC Certificate Number S-4558-1 (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

CONDITIONS CONTINUE ON NEXT PAGE

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

Samir Sheikh, Executive Director

Arnaud Marjollet, Director of Permit Services S-1141-128-16: Jul 16 2018 8:12AM - RINALDIR: Joint Inspection NOT Required

- 5. 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
- 6. Maximum VOC content of vapor in the tank vapor space shall not exceed 10% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
- 7. Tank shall vent only to vapor control equipment listed in S-1141-127 except during periods of tank cleaning and maintenance. VOC emissions shall be reduced by at least 99% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
- 8. Vapor control system may be inoperable during maintenance/repairs/upset conditions of tanks S-1141-127, -128, -129, -130, -131, -571, -572, -585, -590, -591, -612 and -613 for up to 600 hours per tank per 12-month rolling period. District-approved breakdowns and relief periods granted by variance and supported by the District shall not be included in this limit. [District Rule 2201] Federally Enforceable Through Title V Permit
- 9. Vapor control system will remain operable at all times for front line production equipment defined in section 3.15 of Rule 4401 including tanks S-1141-560, -575, -576, -577, -578, -579, -580, and -605. [District Rules 2201 & 4401] Federally Enforceable Through Title V Permit
- 10. During temporary periods of maintenance/repair/upsets covered by this permit, operator shall use work practices to minimize VOC emissions including: near constant level tank operation, use of operational P/V valve where possible, work completed expeditiously with pre-staging of equipment and material and pre-fabrication of parts, minimization of tank openings and liquid drainage from disconnects, storage of coatings, adhesives, sealants, and organic solvents in closed containers. [District Rule 2201] Federally Enforceable Through Title V Permit
- 11. When disconnected from the vapor control system for maintenance/repairs/upset conditions, tank will store organic liquid with a true vapor pressure less than 0.5 psia. [District Rule 2201] Federally Enforceable Through Title V Permit
- 12. Records of the dates, hr/day, and hr/yr when vapor control system is inoperable for tank maintenance/repairs/upset conditions shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
- 13. Operator shall conduct quarterly sampling from the Station 1-09 tank vapor recovery system to qualify for exemption from fugitive component counts for components handling fluids with less than 10% VOC by weight. If fluids sampled are less than 10% VOC by weight for 8 consecutive quarterly samplings, sampling frequency shall only be required annually. Such sampling is deemed representative of all components downstream of the equipment served by the vapor control system. [District Rule 2201] Federally Enforceable Through Title V Permit
- 14. VOC content of vapor by weight percent (wt.%) shall be determined using American Society of Testing and Materials (ASTM) D1945, D1946, EPA Method 18 referenced as methane, or equivalent test method with prior District approval. [District Rule 2201] Federally Enforceable Through Title V Permit
- 15. This unit is subject to Heavy Oil Tank Inspection and Maintenance Conditions on the facility wide permit S-1141-0. [District Rules 2201 and 2520] Federally Enforceable Through Title V Permit
- 16. This unit is subject to Heavy Oil Tank Cleaning Conditions on the facility wide permit S-1141-0. [District Rule 2080] Federally Enforceable Through Title V Permit
- 17. This unit is subject to Heavy Oil Tank Testing Conditions on the facility wide permit S-1141-0. [District Rule 4623] Federally Enforceable Through Title V Permit



AUTHORITY TO CONSTRUCT

PERMIT NO: S-1141-129-16

LEGAL OWNER OR OPERATOR: CHEVRON USA INC

MAILING ADDRESS:

PO BOX 1392

BAKERSFIELD, CA 93302

LOCATION:

HEAVY OIL WESTERN STATIONARY SOURCE

SECTION: NW09 TOWNSHIP: 32S RANGE: 23E

EQUIPMENT DESCRIPTION:

MODIFICATION OF 3,000 BBL FIXED ROOF CRUDE OIL TANK #109-C2 SERVED BY VAPOR CONTROL EQUIPMENT LISTED ON S-1141-127; CRUDE OIL IS RECEIVED FROM ON-SITE STATION 1-09 AND STATION 3-09 (S-1130): ADD PROVISIONS FOR TANK TO BE DISCONNECTED FROM VAPOR CONTROL SYSTEM FOR UP TO 600 HOURS PER 12-MONTH ROLLING PERIOD

CONDITIONS

- {1830} 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
- {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
- Prior to operating equipment under this Authority to Construct, permittee shall surrender emission reduction credits for the following quantities of emissions: VOC: 1 st quarter- 18 lb, 2nd quarter- 18 lb, 3rd quarter- 18 lb, and 4th quarter-18 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 4/21/11) for the ERCs specified below. [District Rule 2201] Federally Enforceable Through Title V Permit
- ERC Certificate Number S-4558-1 (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

CONDITIONS CONTINUE ON NEXT PAGE

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

Samir Sheikh, Executive Director

Arnaud Marjollet, Director of Permit Services

- 5. 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
- 6. Tank shall vent only to vapor control equipment listed in S-1141-127 except during periods of tank cleaning and maintenance. VOC emissions shall be reduced by at least 99% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
- 7. Vapor control system may be inoperable during maintenance/repairs/upset conditions of tanks S-1141-127, -128, -129, -130, -131, -571, -572, -585, -590, -591, -612 and -613 for up to 600 hours per tank per 12-month rolling period. District-approved breakdowns and relief periods granted by variance and supported by the District shall not be included in this limit. [District Rule 2201] Federally Enforceable Through Title V Permit
- 8. Vapor control system will remain operable at all times for front line production equipment defined in section 3.15 of Rule 4401 including tanks S-1141-560, -575, -576, -577, -578, -579, -580, and -605. [District Rules 2201 & 4401] Federally Enforceable Through Title V Permit
- 9. During temporary periods of maintenance/repair/upsets covered by this permit, operator shall use work practices to minimize VOC emissions including: near constant level tank operation, use of operational P/V valve where possible, work completed expeditiously with pre-staging of equipment and material and pre-fabrication of parts, minimization of tank openings and liquid drainage from disconnects, storage of coatings, adhesives, sealants, and organic solvents in closed containers. [District Rule 2201] Federally Enforceable Through Title V Permit
- 10. Maximum VOC content of vapor in the tank vapor space shall not exceed 10% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
- 11. When disconnected from the vapor control system for maintenance/repairs/upset conditions, tank will store organic liquid with a true vapor pressure less than 0.5 psia. [District Rule 2201] Federally Enforceable Through Title V Permit
- 12. Records of the dates, hr/day, and hr/yr when vapor control system is inoperable for tank maintenance/repairs/upset conditions shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
- 13. Operator shall conduct quarterly sampling from the Station 1-09 tank vapor recovery system to qualify for exemption from fugitive component counts for components handling fluids with less than 10% VOC by weight. If fluids sampled are less than 10% VOC by weight for 8 consecutive quarterly samplings, sampling frequency shall only be required annually. Such sampling is deemed representative of all components downstream of the equipment served by the vapor control system. [District Rule 2201] Federally Enforceable Through Title V Permit
- 14. VOC content of vapor by weight percent (wt.%) shall be determined using American Society of Testing and Materials (ASTM) D1945, D1946, EPA Method 18 referenced as methane, or equivalent test method with prior District approval. [District Rule 2201] Federally Enforceable Through Title V Permit
- 15. This unit is subject to Heavy Oil Tank Inspection and Maintenance Conditions on the facility wide permit S-1141-0. [District Rules 2201 and 2520] Federally Enforceable Through Title V Permit
- 16. This unit is subject to Heavy Oil Tank Cleaning Conditions on the facility wide permit S-1141-0. [District Rule 2080] Federally Enforceable Through Title V Permit
- 17. This unit is subject to Heavy Oil Tank Testing Conditions on the facility wide permit S-1141-0. [District Rule 4623] Federally Enforceable Through Title V Permit



AUTHORITY TO CONSTRUCT

PERMIT NO: S-1141-130-14

LEGAL OWNER OR OPERATOR: CHEVRON USA INC

MAILING ADDRESS:

PO BOX 1392

BAKERSFIELD, CA 93302

LOCATION:

HEAVY OIL WESTERN STATIONARY SOURCE

CA

SECTION: NW09 TOWNSHIP: 32S RANGE: 23E

EQUIPMENT DESCRIPTION:

MODIFICATION OF 3,000 BBL CRUDE OIL TANK #109-C1 SERVED BY VAPOR CONTROL SYSTEM LISTED ON S-1141-127-2; CRUDE OIL IS RECEIVED FROM ON-SITE STATION 1-09 AND STATION 3-09 (S-1130): ADD PROVISIONS FOR TANK TO BE DISCONNECTED FROM VAPOR CONTROL SYSTEM FOR UP TO 600 HOURS PER 12-MONTH ROLLING PERIOD

CONDITIONS

- 1. {1830} 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender emission reduction credits for the following quantities of emissions: VOC: 1 st quarter- 18 lb, 2nd quarter- 18 lb, 3rd quarter- 18 lb, and 4th quarter- 18 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 4/21/11) for the ERCs specified below. [District Rule 2201] Federally Enforceable Through Title V Permit
- 4. ERC Certificate Number S-4558-1 (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

CONDITIONS CONTINUE ON NEXT PAGE

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

Samir Sheikh, Executive Director APCO

Arnaud Marjollet, Director of Permit Services

- 5. 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] Federally Enforceable Through Title V Permit
- 6. Tank shall vent only to vapor control equipment listed in S-1141-127 except during periods of tank cleaning and maintenance. VOC emissions shall be reduced by at least 99% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
- 7. Vapor control system may be inoperable during maintenance/repairs/upset conditions of tanks S-1141-127, -128, -129, -130, -131, -571, -572, -585, -590, -591, -612 and -613 for up to 600 hours per tank per 12-month rolling period. District-approved breakdowns and relief periods granted by variance and supported by the District shall not be included in this limit. [District Rule 2201] Federally Enforceable Through Title V Permit
- 8. Vapor control system will remain operable at all times for front line production equipment defined in section 3.15 of Rule 4401 including tanks S-1141-560, -575, -576, -577, -578, -579, -580, and -605. [District Rules 2201 & 4401] Federally Enforceable Through Title V Permit
- 9. During temporary periods of maintenance/repair/upsets covered by this permit, operator shall use work practices to minimize VOC emissions including: near constant level tank operation, use of operational P/V valve where possible, work completed expeditiously with pre-staging of equipment and material and pre-fabrication of parts, minimization of tank openings and liquid drainage from disconnects, storage of coatings, adhesives, sealants, and organic solvents in closed containers. [District Rule 2201] Federally Enforceable Through Title V Permit
- 10. Maximum VOC content of vapor in the tank vapor space shall not exceed 10% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
- 11. When disconnected from the vapor control system for maintenance/repairs/upset conditions, tank will store organic liquid with a true vapor pressure less than 0.5 psia. [District Rule 2201] Federally Enforceable Through Title V Permit
- 12. Records of the dates, hr/day, and hr/yr when vapor control system is inoperable for tank maintenance/repairs/upset conditions shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
- 13. Operator shall conduct quarterly sampling from the Station 1-09 tank vapor recovery system to qualify for exemption from fugitive component counts for components handling fluids with less than 10% VOC by weight. If fluids sampled are less than 10% VOC by weight for 8 consecutive quarterly samplings, sampling frequency shall only be required annually. Such sampling is deemed representative of all components downstream of the equipment served by the vapor control system. [District Rule 2201] Federally Enforceable Through Title V Permit
- 14. VOC content of vapor by weight percent (wt.%) shall be determined using American Society of Testing and Materials (ASTM) D1945, D1946, EPA Method 18 referenced as methane, or equivalent test method with prior District approval. [District Rule 2201] Federally Enforceable Through Title V Permit
- 15. This unit is subject to Heavy Oil Tank Inspection and Maintenance Conditions on the facility wide permit S-1141-0. [District NSR Rule and District Rule 2520] Federally Enforceable Through Title V Permit
- 16. This unit is subject to Heavy Oil Tank Cleaning Conditions on the facility wide permit S-1141-0. [District Rule 2080] Federally Enforceable Through Title V Permit
- 17. This unit is subject to Heavy Oil Tank Testing Conditions on the facility wide permit S-1141-0. [District Rule 4623] Federally Enforceable Through Title V Permit



AUTHORITY TO CONSTRUCT

PERMIT NO: S-1141-131-15

LEGAL OWNER OR OPERATOR: CHEVRON USA INC

MAILING ADDRESS:

PO BOX 1392 BAKERSFIELD, CA 93302

LOCATION:

HEAVY OIL WESTERN STATIONARY SOURCE

SECTION: NW09 TOWNSHIP: 32S RANGE: 23E

EQUIPMENT DESCRIPTION:

MODIFICATION OF 3,000 BBL FIXED ROOF CRUDE OIL TANK #109-P2 SERVED BY VAPOR CONTROL EQUIPMENT LISTED ON S-1141-127; CRUDE OIL IS RECEIVED FROM ON-SITE STATION 1-09 AND STATION 3-09 (S-1130); ADD PROVISIONS FOR TANK TO BE DISCONNECTED FROM VAPOR CONTROL SYSTEM FOR UP TO 600 HOURS PER 12-MONTH ROLLING PERIOD

CONDITIONS

- {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 1. 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
- {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
- Prior to operating equipment under this Authority to Construct, permittee shall surrender emission reduction credits for the following quantities of emissions: VOC: 1 st quarter- 12 lb, 2nd quarter- 12 lb, 3rd quarter- 12 lb, and 4th quarter-12 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 4/21/11) for the ERCs specified below. [District Rule 2201] Federally Enforceable Through Title V Permit
- ERC Certificate Number S-4558-1 (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

CONDITIONS CONTINUE ON NEXT PAGE

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Samir Sheikh, Executive Director

Arnaud Mariollet Director of Permit Services

- 5. 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
- 6. Tank shall vent only to vapor control equipment listed in S-1141-127 except during periods of tank cleaning and maintenance. VOC emissions shall be reduced by at least 99% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
- 7. Vapor control system may be inoperable during maintenance/repairs/upset conditions of tanks S-1141-127, -128, -129, -130, -131, -571, -572, -585, -590, -591, -612 and -613 for up to 600 hours per tank per 12-month rolling period. District-approved breakdowns and relief periods granted by variance and supported by the District shall not be included in this limit. [District Rule 2201] Federally Enforceable Through Title V Permit
- 8. Vapor control system will remain operable at all times for front line production equipment defined in section 3.15 of Rule 4401 including tanks S-1141-560, -575, -576, -577, -578, -579, -580, and -605. [District Rules 2201 & 4401] Federally Enforceable Through Title V Permit
- 9. During temporary periods of maintenance/repair/upsets covered by this permit, operator shall use work practices to minimize VOC emissions including: near constant level tank operation, use of operational P/V valve where possible, work completed expeditiously with pre-staging of equipment and material and pre-fabrication of parts, minimization of tank openings and liquid drainage from disconnects, storage of coatings, adhesives, sealants, and organic solvents in closed containers. [District Rule 2201] Federally Enforceable Through Title V Permit
- 10. Maximum VOC content of vapor in the tank vapor space shall not exceed 10% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
- 11. When disconnected from the vapor control system for maintenance/repairs/upset conditions, tank will store organic liquid with a true vapor pressure less than 0.5 psia. [District Rule 2201] Federally Enforceable Through Title V Permit
- 12. Records of the dates, hr/day, and hr/yr when vapor control system is inoperable for tank maintenance/repairs/upset conditions shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
- 13. Operator shall conduct quarterly sampling from the Station 1-09 tank vapor recovery system to qualify for exemption from fugitive component counts for components handling fluids with less than 10% VOC by weight. If fluids sampled are less than 10% VOC by weight for 8 consecutive quarterly samplings, sampling frequency shall only be required annually. Such sampling is deemed representative of all components downstream of the equipment served by the vapor control system. [District Rule 2201] Federally Enforceable Through Title V Permit
- 14. VOC content of vapor by weight percent (wt.%) shall be determined using American Society of Testing and Materials (ASTM) D1945, D1946, EPA Method 18 referenced as methane, or equivalent test method with prior District approval. [District Rule 2201] Federally Enforceable Through Title V Permit
- 15. This unit is subject to Heavy Oil Tank Inspection and Maintenance Conditions on the facility wide permit S-1141-0. [District NSR Rule and District Rule 2520] Federally Enforceable Through Title V Permit
- 16. This unit is subject to Heavy Oil Tank Cleaning Conditions on the facility wide permit S-1141-0. [District Rule 2080] Federally Enforceable Through Title V Permit
- 17. This unit is subject to Heavy Oil Tank Testing Conditions on the facility wide permit S-1141-0. [District Rule 4623] Federally Enforceable Through Title V Permit



AUTHORITY TO CONSTRUCT

PERMIT NO: S-1141-571-6

LEGAL OWNER OR OPERATOR: CHEVRON USA INC

MAILING ADDRESS:

PO BOX 1392

BAKERSFIELD, CA 93302

LOCATION:

HEAVY OIL WESTERN STATIONARY SOURCE

CA

SECTION: SW09 TOWNSHIP: 32S RANGE: 23E

EQUIPMENT DESCRIPTION:

MODIFICATION OF 3,000 BBL FIXED ROOF WATER STORAGE TANK (T-600) SERVED BY VAPOR CONTROL SYSTEM LISTED ON S-1141-127: ADD PROVISIONS FOR TANK TO BE DISCONNECTED FROM VAPOR CONTROL SYSTEM FOR UP TO 600 HOURS PER 12-MONTH ROLLING PERIOD

CONDITIONS

- 1. {1830} 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender emission reduction credits for the following quantities of emissions: VOC: 1 st quarter- 10 lb, 2nd quarter- 10 lb, 3rd quarter- 10 lb, and 4th quarter- 10 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 4/21/11) for the ERCs specified below. [District Rule 2201] Federally Enforceable Through Title V Permit
- 4. ERC Certificate Number S-4558-1 (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

CONDITIONS CONTINUE ON NEXT PAGE

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

Samir Sheikh, Executive Director APCO

Arnaud Marjollet, Director of Permit Services 8-1141-571-6: Jul 16 2018 8:12AM -- RINALDIR: Joint Inspection NOT Required

- 5. Tank shall vent only to vapor control equipment listed in S-1141-127 except during periods of tank cleaning and maintenance. VOC emissions shall be reduced by at least 99% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
- 6. Vapor control system may be inoperable during maintenance/repairs/upset conditions of tanks S-1141-127, -128, -129, -130, -131, -571, -572, -585, -590, -591, -612 and -613 for up to 600 hours per tank per 12-month rolling period. District-approved breakdowns and relief periods granted by variance and supported by the District shall not be included in this limit. [District Rule 2201] Federally Enforceable Through Title V Permit
- 7. Vapor control system will remain operable at all times for front line production equipment defined in section 3.15 of Rule 4401 including tanks S-1141-560, -575, -576, -577, -578, -579, -580, and -605. [District Rules 2201 & 4401] Federally Enforceable Through Title V Permit
- 8. During temporary periods of maintenance/repair/upsets covered by this permit, operator shall use work practices to minimize VOC emissions including: near constant level tank operation, use of operational P/V valve where possible, work completed expeditiously with pre-staging of equipment and material and pre-fabrication of parts, minimization of tank openings and liquid drainage from disconnects, storage of coatings, adhesives, sealants, and organic solvents in closed containers. [District Rule 2201] Federally Enforceable Through Title V Permit
- 9. Maximum VOC content of vapor in the tank vapor space shall not exceed 10% by weight. [District 2201 Rule] Federally Enforceable Through Title V Permit
- 10. Emissions from this tank and associated tank vapor recovery system components, which are not exempt from fugitive component counts, shall not exceed 0.0 lb-VOC/day. [District NSR Rule] Federally Enforceable Through Title V Permit
- 11. 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] Federally Enforceable Through Title V Permit
- 12. When disconnected from the vapor control system for maintenance/repairs/upset conditions, tank will store organic liquid with a true vapor pressure less than 0.5 psia. [District Rule 2201] Federally Enforceable Through Title V Permit
- 13. Records of the dates, hr/day, and hr/yr when vapor control system is inoperable for tank maintenance/repairs/upset conditions shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
- 14. Operator shall conduct quarterly sampling from the Station 1-09 tank vapor recovery system to qualify for exemption from fugitive component counts for components handling fluids with less than 10% VOC by weight. If fluids sampled are less than 10% VOC by weight for 8 consecutive quarterly samplings, sampling frequency shall only be required annually. Such sampling is deemed representative of all components downstream of the equipment served by the vapor control system. [District Rule 2201] Federally Enforceable Through Title V Permit
- 15. VOC content of vapor by weight percent (wt.%) shall be determined using American Society of Testing and Materials (ASTM) D1945, D1946, EPA Method 18 referenced as methane, or equivalent test method with prior District approval. [District Rule 2201] Federally Enforceable Through Title V Permit
- 16. This unit is subject to Heavy Oil Tank Inspection and Maintenance Conditions on the facility wide permit S-1141-0. [District NSR Rule and District Rule 2520] Federally Enforceable Through Title V Permit
- 17. This unit is subject to Heavy Oil Tank Cleaning Conditions on the facility wide permit S-1141-0. [District Rule 2080] Federally Enforceable Through Title V Permit
- 18. This unit is subject to Heavy Oil Tank Testing Conditions on the facility wide permit S-1141-0. [District Rule 4623] Federally Enforceable Through Title V Permit



AUTHORITY TO CONSTRUCT

PERMIT NO: S-1141-572-6

LEGAL OWNER OR OPERATOR: CHEVRON USA INC

MAILING ADDRESS:

PO BOX 1392

BAKERSFIELD, CA 93302

LOCATION:

HEAVY OIL WESTERN STATIONARY SOURCE

CA

SECTION: SW09 TOWNSHIP: 32S RANGE: 23E

EQUIPMENT DESCRIPTION:

MODIFICATION OF 3,000 BBL FIXED ROOF WATER STORAGE TANK (T-900) SERVED BY VAPOR CONTROL SYSTEM LISTED ON S-1141-127: ADD PROVISIONS FOR TANK TO BE DISCONNECTED FROM VAPOR CONTROL SYSTEM FOR UP TO 600 HOURS PER 12-MONTH ROLLING PERIOD

CONDITIONS

- 1. {1830} 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender emission reduction credits for the following quantities of emissions: VOC: 1 st quarter- 8 lb, 2nd quarter- 8 lb, 3rd quarter- 8 lb, and 4th quarter- 8 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 4/21/11) for the ERCs specified below. [District Rule 2201] Federally Enforceable Through Title V Permit
- 4. ERC Certificate Number S-4558-1 (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

CONDITIONS CONTINUE ON NEXT PAGE

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

Samir Sheikh, Executive Director APCO

- 5. Maximum VOC content of vapor in the tank vapor space shall not exceed 10% by weight. [District NSR Rule] Federally Enforceable Through Title V Permit
- 6. Tank shall vent only to vapor control equipment listed in S-1141-127 except during periods of tank cleaning and maintenance. VOC emissions shall be reduced by at least 99% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
- 7. Vapor control system may be inoperable during maintenance/repairs/upset conditions of tanks S-1141-127, -128, -129, -130, -131, -571, -572, -585, -590, -591, -612 and -613 for up to 600 hours per tank per 12-month rolling period. District-approved breakdowns and relief periods granted by variance and supported by the District shall not be included in this limit. [District Rule 2201] Federally Enforceable Through Title V Permit
- 8. Vapor control system will remain operable at all times for front line production equipment defined in section 3.15 of Rule 4401 including tanks S-1141-560, -575, -576, -577, -578, -579, -580, and -605. [District Rules 2201 & 4401] Federally Enforceable Through Title V Permit
- 9. During temporary periods of maintenance/repair/upsets covered by this permit, operator shall use work practices to minimize VOC emissions including: near constant level tank operation, use of operational P/V valve where possible, work completed expeditiously with pre-staging of equipment and material and pre-fabrication of parts, minimization of tank openings and liquid drainage from disconnects, storage of coatings, adhesives, sealants, and organic solvents in closed containers. [District Rule 2201] Federally Enforceable Through Title V Permit
- 10. Emissions from this tank and associated tank vapor recovery system components, which are not exempt from fugitive component counts, shall not exceed 0.0 lb-VOC/day. [District NSR Rule] Federally Enforceable Through Title V Permit
- 11. 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] Federally Enforceable Through Title V Permit
- 12. When disconnected from the vapor control system for maintenance/repairs/upset conditions, tank will store organic liquid with a true vapor pressure less than 0.5 psia. [District Rule 2201] Federally Enforceable Through Title V Permit
- 13. Records of the dates, hr/day, and hr/yr when vapor control system is inoperable for tank maintenance/repairs/upset conditions shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
- 14. Operator shall conduct quarterly sampling from the Station 1-09 tank vapor recovery system to qualify for exemption from fugitive component counts for components handling fluids with less than 10% VOC by weight. If fluids sampled are less than 10% VOC by weight for 8 consecutive quarterly samplings, sampling frequency shall only be required annually. Such sampling is deemed representative of all components downstream of the equipment served by the vapor control system. [District Rule 2201] Federally Enforceable Through Title V Permit
- 15. VOC content of vapor by weight percent (wt.%) shall be determined using American Society of Testing and Materials (ASTM) D1945, D1946, EPA Method 18 referenced as methane, or equivalent test method with prior District approval. [District Rule 2201] Federally Enforceable Through Title V Permit
- 16. This unit is subject to Heavy Oil Tank Inspection and Maintenance Conditions on the facility wide permit S-1141-0. [District NSR Rule and District Rule 2520] Federally Enforceable Through Title V Permit
- 17. This unit is subject to Heavy Oil Tank Cleaning Conditions on the facility wide permit S-1141-0. [District Rule 2080] Federally Enforceable Through Title V Permit
- 18. This unit is subject to Heavy Oil Tank Testing Conditions on the facility wide permit S-1141-0. [District Rule 4623] Federally Enforceable Through Title V Permit



AUTHORITY TO CONSTRUCT

PERMIT NO: S-1141-585-9

LEGAL OWNER OR OPERATOR: CHEVRON USA INC

MAILING ADDRESS:

PO BOX 1392

BAKERSFIELD, CA 93302

LOCATION:

HEAVY OIL WESTERN STATIONARY SOURCE

CA

EQUIPMENT DESCRIPTION:

MODIFICATION OF 10,000 BBL FIXED ROOF CRUDE OIL STORAGE TANK VENTED TO VAPOR CONTROL SYSTEM LISTED ON S-1141-127: ADD PROVISIONS FOR TANK TO BE DISCONNECTED FROM VAPOR CONTROL SYSTEM FOR UP TO 600 HOURS PER 12-MONTH ROLLING PERIOD

CONDITIONS

- 1. {1830} 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender emission reduction credits for the following quantities of emissions: VOC: 1 st quarter- 16 lb, 2nd quarter- 16 lb, 3rd quarter- 16 lb, and 4th quarter- 16 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 4/21/11) for the ERCs specified below. [District Rule 2201] Federally Enforceable Through Title V Permit
- 4. ERC Certificate Number S-4558-1 (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

CONDITIONS CONTINUE ON NEXT PAGE

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Samir Sheikh, Executive Director APCO

Arnaud Marjollet, Director of Permit Services

- 5. 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
- 6. Tank shall vent only to vapor control equipment listed in S-1141-127 except during periods of tank cleaning and maintenance. VOC emissions shall be reduced by at least 99% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
- 7. Vapor control system may be inoperable during maintenance/repairs/upset conditions of tanks S-1141-127, -128, -129, -130, -131, -571, -572, -585, -590, -591, -612 and -613 for up to 600 hours per tank per 12-month rolling period. District-approved breakdowns and relief periods granted by variance and supported by the District shall not be included in this limit. [District Rule 2201] Federally Enforceable Through Title V Permit
- 8. Vapor control system will remain operable at all times for front line production equipment defined in section 3.15 of Rule 4401 including tanks S-1141-560, -575, -576, -577, -578, -579, -580, and -605. [District Rules 2201 & 4401] Federally Enforceable Through Title V Permit
- 9. During temporary periods of maintenance/repair/upsets covered by this permit, operator shall use work practices to minimize VOC emissions including: near constant level tank operation, use of operational P/V valve where possible, work completed expeditiously with pre-staging of equipment and material and pre-fabrication of parts, minimization of tank openings and liquid drainage from disconnects, storage of coatings, adhesives, sealants, and organic solvents in closed containers. [District Rule 2201] Federally Enforceable Through Title V Permit
- 10. Maximum VOC content of vapor in the tank vapor space shall not exceed 10% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
- 11. When disconnected from the vapor control system for maintenance/repairs/upset conditions, tank will store organic liquid with a true vapor pressure less than 0.5 psia. [District Rule 2201] Federally Enforceable Through Title V Permit
- 12. Records of the dates, hr/day, and hr/yr when vapor control system is inoperable for tank maintenance/repairs/upset conditions shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
- 13. Operator shall conduct quarterly sampling from the Station 1-09 tank vapor recovery system to qualify for exemption from fugitive component counts for components handling fluids with less than 10% VOC by weight. If fluids sampled are less than 10% VOC by weight for 8 consecutive quarterly samplings, sampling frequency shall only be required annually. Such sampling is deemed representative of all components downstream of the equipment served by the vapor control system. [District Rule 2201] Federally Enforceable Through Title V Permit
- 14. VOC content of vapor by weight percent (wt.%) shall be determined using American Society of Testing and Materials (ASTM) D1945, D1946, EPA Method 18 referenced as methane, or equivalent test method with prior District approval. [District Rule 2201] Federally Enforceable Through Title V Permit
- 15. This unit is subject to Heavy Oil Tank Inspection and Maintenance Conditions on the facility wide permit S-1141-0. [District Rules 2201 and 2520] Federally Enforceable Through Title V Permit
- 16. This unit is subject to Heavy Oil Tank Cleaning Conditions on the facility wide permit S-1141-0. [District Rule 2080] Federally Enforceable Through Title V Permit
- 17. This unit is subject to Heavy Oil Tank Testing Conditions on the facility wide permit S-1141-0. [District Rule 4623] Federally Enforceable Through Title V Permit



AUTHORITY TO CONSTRUCT

PERMIT NO: S-1141-590-4

LEGAL OWNER OR OPERATOR: CHEVRON USA INC.

MAILING ADDRESS:

PO BOX 1392

BAKERSFIELD, CA 93302

LOCATION:

HEAVY OIL WESTERN STATIONARY SOURCE

SECTION: SW9 **TOWNSHIP:** 32S RANGE: 23E

EQUIPMENT DESCRIPTION:

MODIFICATION OF 8,750 BBL VAPOR CONTROLED FIXED ROOF PRODUCED WATER STORAGE TANK VENTED TO THE VAPOR CONTROL SYSTEM LISTED ON PERMIT S-1141-127: ADD PROVISIONS FOR TANK TO BE DISCONNECTED FROM VAPOR CONTROL SYSTEM FOR UP TO 600 HOURS PER 12-MONTH ROLLING PERIOD

CONDITIONS

- {1830} 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
- {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
- Prior to operating equipment under this Authority to Construct, permittee shall surrender emission reduction credits for the following quantities of emissions: VOC: 1 st quarter- 17 lb, 2nd quarter- 17 lb, 3rd quarter- 17 lb, and 4th quarter-17 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 4/21/11) for the ERCs specified below. [District Rule 2201] Federally Enforceable Through Title V Permit
- ERC Certificate Number S-4558-1 (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

CONDITIONS CONTINUE ON NEXT PAGE

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Samir Sheikh, Executive Director

- 5. 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] Federally Enforceable Through Title V Permit
- 6. Tank shall vent only to vapor control equipment listed in S-1141-127 except during periods of tank cleaning and maintenance. VOC emissions shall be reduced by at least 99% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
- 7. Vapor control system may be inoperable during maintenance/repairs/upset conditions of tanks S-1141-127, -128, -129, -130, -131, -571, -572, -585, -590, -591, -612 and -613 for up to 600 hours per tank per 12-month rolling period. District-approved breakdowns and relief periods granted by variance and supported by the District shall not be included in this limit. [District Rule 2201] Federally Enforceable Through Title V Permit
- 8. Vapor control system will remain operable at all times for front line production equipment defined in section 3.15 of Rule 4401 including tanks S-1141-560, -575, -576, -577, -578, -579, -580, and -605. [District Rules 2201 & 4401] Federally Enforceable Through Title V Permit
- 9. During temporary periods of maintenance/repair/upsets covered by this permit, operator shall use work practices to minimize VOC emissions including: near constant level tank operation, use of operational P/V valve where possible, work completed expeditiously with pre-staging of equipment and material and pre-fabrication of parts, minimization of tank openings and liquid drainage from disconnects, storage of coatings, adhesives, sealants, and organic solvents in closed containers. [District Rule 2201] Federally Enforceable Through Title V Permit
- 10. Maximum VOC content of vapor in the tank vapor space shall not exceed 10% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
- 11. When disconnected from the vapor control system for maintenance/repairs/upset conditions, tank will store organic liquid with a true vapor pressure less than 0.5 psia. [District Rule 2201] Federally Enforceable Through Title V Permit
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- 16. This unit is subject to Heavy Oil Tank Cleaning Conditions on the facility wide permit S-1141-0. [District Rule 2080] Federally Enforceable Through Title V Permit
- 17. This unit is subject to Heavy Oil Tank Testing Conditions on the facility wide permit S-1141-0. [District Rule 4623] Federally Enforceable Through Title V Permit



AUTHORITY TO CONSTRUCT

PERMIT NO: S-1141-591-5

LEGAL OWNER OR OPERATOR: CHEVRON USA INC

MAILING ADDRESS:

PO BOX 1392

BAKERSFIELD, CA 93302

LOCATION:

HEAVY OIL WESTERN STATIONARY SOURCE

CA

SECTION: SW9 TOWNSHIP: 32S RANGE: 23E

EQUIPMENT DESCRIPTION:

MODIFICATION OF 8,750 BBL VAPOR CONTROLED FIXED ROOF PRODUCED WATER STORAGE TANK VENTED TO THE VAPOR CONTROL SYSTEM LISTED ON PERMIT S-1141-127: ADD PROVISIONS FOR TANK TO BE DISCONNECTED FROM VAPOR CONTROL SYSTEM FOR UP TO 600 HOURS PER 12-MONTH ROLLING PERIOD

CONDITIONS

- 1. {1830} 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. Prior to operating equipment under this Authority to Construct, permittee shall surrender emission reduction credits for the following quantities of emissions: VOC: 1 st quarter- 17 lb, 2nd quarter- 17 lb, 3rd quarter- 17 lb, and 4th quarter- 17 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 4/21/11) for the ERCs specified below. [District Rule 2201] Federally Enforceable Through Title V Permit
- 4. ERC Certificate Number S-4558-1 (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

CONDITIONS CONTINUE ON NEXT PAGE

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Samir Sheikh, Executive Director APCO

Arnaud Marjollet, Director of Permit Services
S-1141-591-5: Jul 16 2018 8:12AM - RINALDIR: Joint Inspection NOT Required

- 5. 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] Federally Enforceable Through Title V Permit
- 6. Tank shall vent only to vapor control equipment listed in S-1141-127 except during periods of tank cleaning and maintenance. VOC emissions shall be reduced by at least 99% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
- 7. Vapor control system may be inoperable during maintenance/repairs/upset conditions of tanks S-1141-127, -128, -129, -130, -131, -571, -572, -585, -590, -591, -612 and -613 for up to 600 hours per tank per 12-month rolling period. District-approved breakdowns and relief periods granted by variance and supported by the District shall not be included in this limit. [District Rule 2201] Federally Enforceable Through Title V Permit
- 8. Vapor control system will remain operable at all times for front line production equipment defined in section 3.15 of Rule 4401 including tanks S-1141-560, -575, -576, -577, -578, -579, -580, and -605. [District Rules 2201 & 4401] Federally Enforceable Through Title V Permit
- 9. During temporary periods of maintenance/repair/upsets covered by this permit, operator shall use work practices to minimize VOC emissions including: near constant level tank operation, use of operational P/V valve where possible, work completed expeditiously with pre-staging of equipment and material and pre-fabrication of parts, minimization of tank openings and liquid drainage from disconnects, storage of coatings, adhesives, sealants, and organic solvents in closed containers. [District Rule 2201] Federally Enforceable Through Title V Permit
- 10. Maximum VOC content of vapor in the tank vapor space shall not exceed 10% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
- 11. When disconnected from the vapor control system for maintenance/repairs/upset conditions, tank will store organic liquid with a true vapor pressure less than 0.5 psia. [District Rule 2201] Federally Enforceable Through Title V Permit
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- 15. This unit is subject to Heavy Oil Tank Inspection and Maintenance Conditions on the facility wide permit S-1141-0. [District Rules 2201 and, 2520] Federally Enforceable Through Title V Permit
- 16. This unit is subject to Heavy Oil Tank Cleaning Conditions on the facility wide permit S-1141-0. [District Rule 2080] Federally Enforceable Through Title V Permit
- 17. This unit is subject to Heavy Oil Tank Testing Conditions on the facility wide permit S-1141-0. [District Rule 4623] Federally Enforceable Through Title V Permit



AUTHORITY TO CONSTRUCT

PERMIT NO: S-1141-612-0

LEGAL OWNER OR OPERATOR: CHEVRON USA INC

MAILING ADDRESS: PO BOX 1392

BAKERSFIELD, CA 93302

LOCATION: HEAVY OIL WESTERN STATIONARY SOURCE

CA

EQUIPMENT DESCRIPTION:

1,048 BBL WEMCO AIR FLOATATION UNIT #ME-101 WITH GAS BLANKETING, SERVED BY THE VAPOR CONTROL SYSTEM LISTED ON S-1141-127 (FORMERLY LISTED ON PTO S-1141-127)

CONDITIONS

- 1. {1830} 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. ATCs S-1141-127-50 shall be implemented prior to or concurrently with this ATC [District Rule 2201] Federally Enforceable Through Title V Permit
- 4. 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] Federally Enforceable Through Title V Permit
- 5. Tank shall vent only to vapor control equipment listed in S-1141-127 except during periods of tank cleaning and maintenance. VOC emissions shall be reduced by at least 99% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
- 6. Vapor control system may be inoperable during maintenance/repairs/upset conditions of tanks S-1141-127, -128, -129, -130, -131, -571, -572, -585, -590, -591, -612 and -613 for up to 600 hours per tank per 12-month rolling period. District-approved breakdowns and relief periods granted by variance and supported by the District shall not be included in this limit. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Samir Sheikh, Executive Director APCO

Arnaud Marjollet, Director of Permit Services 8-1141-612-0: Jul 16 2018 8:12AM - RINALDIR : Joint Inspection NOT Required

- 7. Vapor control system will remain operable at all times for front line production equipment defined in section 3.15 of Rule 4401 including tanks S-1141-560, -575, -576, -577, -578, -579, -580, and -605. [District Rules 2201 & 4401] Federally Enforceable Through Title V Permit
- 8. During temporary periods of maintenance/repair/upsets covered by this permit, operator shall use work practices to minimize VOC emissions including: near constant level tank operation, use of operational P/V valve where possible, work completed expeditiously with pre-staging of equipment and material and pre-fabrication of parts, minimization of tank openings and liquid drainage from disconnects, storage of coatings, adhesives, sealants, and organic solvents in closed containers. [District Rule 2201] Federally Enforceable Through Title V Permit
- 9. Maximum VOC content of vapor in the tank vapor space shall not exceed 10% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
- 10. When disconnected from the vapor control system for maintenance/repairs/upset conditions, tank will store organic liquid with a true vapor pressure less than 0.5 psia. [District Rule 2201] Federally Enforceable Through Title V Permit
- 11. Records of the dates, hr/day, and hr/yr when vapor control system is inoperable for tank maintenance/repairs/upset conditions shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
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- 14. This unit is subject to Heavy Oil Tank Inspection and Maintenance Conditions on the facility wide permit S-1141-0. [District Rules 2201 and, 2520] Federally Enforceable Through Title V Permit
- 15. This unit is subject to Heavy Oil Tank Cleaning Conditions on the facility wide permit S-1141-0. [District Rule 2080] Federally Enforceable Through Title V Permit
- 16. This unit is subject to Heavy Oil Tank Testing Conditions on the facility wide permit S-1141-0. [District Rule 4623] Federally Enforceable Through Title V Permit



AUTHORITY TO CONSTRUCT

PERMIT NO: S-1141-613-0

LEGAL OWNER OR OPERATOR: CHEVRON USA INC

MAILING ADDRESS:

PO BOX 1392 BAKERSFIELD, CA 93302

LOCATION:

HEAVY OIL WESTERN STATIONARY SOURCE

EQUIPMENT DESCRIPTION:

1,048 BBL WEMCO AIR FLOATATION UNIT #ME-201 WITH GAS BLANKETING, SERVED BY THE VAPOR CONTROL SYSTEM LISTED ON S-1141-127 (FORMERLY LISTED ON PTO S-1141-127)

CONDITIONS

- {1830} 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
- {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
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Samir Sheikh, Executive Director

- 7. Vapor control system will remain operable at all times for front line production equipment defined in section 3.15 of Rule 4401 including tanks S-1141-560, -575, -576, -577, -578, -579, -580, and -605. [District Rules 2201 & 4401] Federally Enforceable Through Title V Permit
- 8. During temporary periods of maintenance/repair/upsets covered by this permit, operator shall use work practices to minimize VOC emissions including: near constant level tank operation, use of operational P/V valve where possible, work completed expeditiously with pre-staging of equipment and material and pre-fabrication of parts, minimization of tank openings and liquid drainage from disconnects, storage of coatings, adhesives, sealants, and organic solvents in closed containers. [District Rule 2201] Federally Enforceable Through Title V Permit
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- 11. Records of the dates, hr/day, and hr/yr when vapor control system is inoperable for tank maintenance/repairs/upset conditions shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
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APPENDIX I

HRA Summary

San Joaquin Valley Air Pollution Control District Risk Management Review

To:

Rob Rinaldi – Permit Services

From:

Jessica Rosas - Technical Services

Date:

December 26, 2017

Facility Name:

Chevron USA Inc.

Location:

T32S, R23E, Section 9

Application #(s):

S-1141-127-50, 128-16, 129-16, 130-14, 131-15, 560-11, 571-6, 572-6, 575-9, 576-9, 577-8, 578-7, 579-7, 580-6, 585-9, 590-4, 591-5

and 611-0

Project #:

S-1173494

A. RMR SUMMARY

		RMR	Summar	у		
Units	Prioritization Score	Acute Hazard Index	Chronic Hazard Index	Maximum Individual Cancer Risk	T-BACT Required?	Special Permit Requirements?
Unit 127-50 (Tank)	0.010	0.00	0.00	2.14E-10	No	No
Unit 128-16 (Tank)	0.004	0.00	0.00	1.02E-10	No	No
Unit 129-16 (Tank)	0.014	0.00	0.00	3.37E-10	No	No
Unit 130-14 (Tank)	0.014	0.00	0.00	3.53E-10	No	No
Unit 131-15 (Tank)	0.010	0.00	0.00	2.49E-10	No	No
Unit 560-11 (Tank)	N/A ¹	N/A ¹	N/A ¹	N/A ¹	No	No
Unit 571-6 (Tank)	0.008	0.00	0.00	3.84E-10	No	No
Unit 572-6 (Tank)	0.006	0.00	0.00	3.04E-10	No	No
Unit 575-9 (Tank)	N/A ¹	N/A ¹	N/A ¹	N/A ¹	No	No
Unit 576-9 (Tank)	N/A ¹	N/A ¹	N/A ¹	N/A ¹	No	No
Unit 577-8 (Tank)	N/A ¹	N/A ¹	N/A ¹	N/A¹	No	No
Unit 578-7 (Tank)	0.049	0.00	0.00	1.39E-09	No	No
Unit 579-7 (Tank)	0.049	0.00	0.00	9.89E-10	No	No
Unit 580-6 (Tank)	0.049	0.00	0.00	1.04E-09	No	No

Unit 585-9 (Tank)	0.013	0.00	0.00	7.09E-10	No	No
Unit 590-4 (Tank)	0.013	0.00	0.00	4.21E-10	No	No
Unit 591-5 (Tank)	0.000	0.00	0.00	4.32E-10	No	No
Unit 611-0 (Tank)	N/A ¹	N/A ¹	N/A ¹	N/A ¹	No	No
Project Totals	0.239	0.04	0.00	6.92E-09		
Facility Totals	>1	0.15	0.00	4.63E-07		

¹There were no increase in emissions for this unit therefore, no analysis was required.

Proposed Permit Requirements

To ensure that human health risks will not exceed District allowable levels; the following shall be included as requirements for:

<u>Unit #127-50, 128-16, 129-16, 130-14, 131-15, 560-11, 571-6, 572-6, 575-9, 576-9, 577-8, 578-7, 579-7, 580-6, 585-9, 590-4, 591-5 and 611-0</u>

No special requirements are required.

B. RMR REPORT

I. Project Description

Technical Services received a request on December 13, 2017, to perform a Risk Management Review and Ambient Air Quality Analysis (AAQA) for a proposed modification to a Vapor Recovery System. The modification consisted of: a provision to allow tanks to be disconnected from VCS for maintenance activities and designate the VCS as a separate VCS on unit 127-50. There will be no physical location change to the VCS; the emissions are for administrative purposes.

II. Analysis

Toxic emissions from Oilfield Fugitives were calculated using emission factors derived from 1991 source tests of central valley sites, and input into the San Joaquin Valley APCD's Hazard Assessment and Reporting Program (SHARP). In accordance with the District's Risk Management Policy for Permitting New and Modified Sources (APR 1905, May 28, 2015), risks from the proposed unit's toxic emissions were prioritized using the procedure in the 1990 CAPCOA Facility Prioritization Guidelines. The prioritization score for this proposed facility was greater than 1.0 (see RMR Summary Table). Therefore, a refined health risk assessment was required. The AERMOD model was used, with the parameters outlined below and meteorological data for 2004-2008 from Fellows to determine the dispersion factors (i.e., the predicted concentration or X divided by the normalized source strength or Q) for a receptor grid. These dispersion factors were input into the SHARP Program, which then used the Air Dispersion Modeling and Risk Tool (ADMRT) of the Hot Spots Analysis and Reporting Program Version 2 (HARP 2) to calculate the chronic and acute hazard indices and the carcinogenic risk for the project.

The following parameters were used for the review:

Analysis Parameters Unit 127-50				
Source Type	Area	Location Type	Rural	
Radius of Circular Area (m)	5.46	Closest Receptor (m)	200	
Release Height (m)	0.914	Type of Receptor	Business	
VOC Emission Rate (lb/hr)	0.054	VOC Emission Rate (lb/yr)	32.5	

Analysis Parameters Unit 128-16				
Source Type	Area	Location Type	Rural	
Radius of Circular Area (m)	5.46	Closest Receptor (m)	200	
Release Height (m)	0.914	Type of Receptor	Business	
VOC Emission Rate (lb/hr)	0.025	VOC Emission Rate (lb/yr)	15	

Analysis Parameters Unit 129-16				
Source Type	Area	Location Type	Rural	
Radius of Circular Area (m)	5.46	Closest Receptor (m)	200	
Release Height (m)	0.914	Type of Receptor	Business	
VOC Emission Rate (lb/hr)	0.079	VOC Emission Rate (lb/yr)	47.5	

Analysis Parameters Unit 130-14				
Source Type	Area	Location Type	Rural	
Radius of Circular Area (m)	5.46	Closest Receptor (m)	200	
Release Height (m)	0.914	Type of Receptor	Business	
VOC Emission Rate (lb/hr)	0.079	VOC Emission Rate (lb/yr)	47.5	

Analysis Parameters Unit 131-15					
Source Type	Area	Location Type	Rural		
Radius of Circular Area (m)	5.46	Closest Receptor (m)	200		
Release Height (m)	0.914	Type of Receptor	Business		
VOC Emission Rate (lb/hr)	0.054	VOC Emission Rate (lb/yr)	32.5		

Analysis Parameters Unit 571-6				
Source Type	Area	Location Type	Rural	
Radius of Circular Area (m)	5.02	Closest Receptor (m)	200	
Release Height (m)	0.914	Type of Receptor	Business	
VOC Emission Rate (lb/hr)	0.046	VOC Emission Rate (lb/yr)	27.5	

Analysis Parameters Unit 572-6					
Source Type	Area	Location Type	Rural		
Radius of Circular Area (m)	5.02	Closest Receptor (m)	200		
Release Height (m)	0.914	Type of Receptor	Business		
VOC Emission Rate (lb/hr)	0.033	VOC Emission Rate (lb/yr)	20		

Analysis Parameters Unit 578-7				
Source Type	Area	Location Type	Rural	
Radius of Circular Area (m)	10.57	Closest Receptor (m)	200	
Release Height (m)	0.914	Type of Receptor	Business	
VOC Emission Rate (lb/hr)	0.279	VOC Emission Rate (lb/yr)	167.5	

Analysis Parameters Unit 579-7				
Source Type	Area	Location Type	Rural	
Radius of Circular Area (m)	10.57	Closest Receptor (m)	200	
Release Height (m)	0.914	Type of Receptor	Business	
VOC Emission Rate (lb/hr)	0.279	VOC Emission Rate (lb/yr)	167.5	

Analysis Parameters Unit 580-6					
Source Type	Area	Location Type	Rural		
Radius of Circular Area (m)	10.57	Closest Receptor (m)	200		
Release Height (m)	0.914	Type of Receptor	Business		
VOC Emission Rate (lb/hr)	0.279	VOC Emission Rate (lb/yr)	167.5		

Analysis Parameters Unit 585-9					
Source Type	Area	Location Type	Rural		
Radius of Circular Area (m)	10.14	Closest Receptor (m)	200		
Release Height (m)	0.914	Type of Receptor	Business		
VOC Emission Rate (lb/hr)	0.071	VOC Emission Rate (lb/yr)	42.5		

Analysis Parameters Unit 590-4					
Source Type	Area	Location Type	Rural		
Radius of Circular Area (m)	7.18	Closest Receptor (m)	200		
Release Height (m)	0.914	Type of Receptor	Business		
VOC Emission Rate (lb/hr)	0.075	VOC Emission Rate (lb/yr)	45		

Analysis Parameters Unit 591-5					
Source Type	Area	Location Type	Rural		
Radius of Circular Area (m)	7.18	Closest Receptor (m)	200		
Release Height (m)	0.914	Type of Receptor	Business		
VOC Emission Rate (lb/hr)	0.075	VOC Emission Rate (lb/yr)	45		

AAQA

An AAQA is modeled for the criteria pollutants CO, NOx, SOx and PM10. However, there are no State or Federal standards for VOC. Therefore, an AAQA was not performed.

III. Conclusion

The acute and chronic indices are below 1.0 and the cancer risk factor associated with the project is less than 1.0 in a million. In accordance with the District's Risk Management Policy, the project is approved without Toxic Best Available Control Technology (T-BACT).

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.

The emissions from the proposed equipment will not cause or contribute significantly to a violation of the State and National AAQS.

IV. Attachments

- A. RMR request from the project engineer
- B. Additional information from the applicant/project engineer
- C. Prioritization score w/ toxic emissions summary
- D. Facility Summary