



APR 1 5 2014

Mr. Jerry Frost Vintage Production California, LLC. 9600 Ming Ave, Suite 300 bakersfield, CA 93311

Re:

Proposed ATC / Certificate of Conformity (Significant Mod)

District Facility # S-1327 **Project # S-1141288**

Dear Mr. Frost:

Enclosed for your review is the District's analysis of an application for Authority 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 proposed project consists of the installation of one 1000 BBL, fixed roof, crude oil storage tank with a pressure/vacuum relief device.

After addressing all comments made during the 30-day public notice and the 45day EPA comment periods, the District intends to issue the Authority 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 Authority 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,

Arnaud Marjollet

Director of Permit Services

AM:SD/st

Enclosures

Mike Tollstrup, CARB (w/enclosure) via email CC:

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

> Seyed Sadredin **Executive Director/Air Pollution Control Officer**

Authority to Construct Application Review

Fixed Roof Oil Field Production Tank < 5000 BBLs Uncontrolled Emissions Less than 6 tons/year Heavy Oil, Not Connected to Vapor Control

Vintage USA: Vintage Production California, LLC.

Date: April 8, 2014

Mailing Address: 9600 Ming Ave

Engineer: Steve Davidson

Bakersfield, CA 93311

Lead Engineer: Allan Phillips Asupe Age

APR 0 9 2014

Contact Person: Jerry Frost

Telephone: (661) 869-8000

Application #(s): S-1327-214-0

Project #: S-1141288

Deemed Complete: March 26, 2014

I. Proposal

Vintage Production California is applying for an Authority to Construct (ATC) permit for the installation of a 1000 BBL, fixed roof, crude oil storage tank with a pressure/vacuum relief device.

Vintage has a Title V Permit. This modification is 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. Vintage must apply to administratively amend their Title V permit.

II. Applicable Rules

Rule 2201 New and Modified Stationary Source Review Rule (4/21/11)

Rule 2410 Prevention of Significant Deterioration (6/16/11)
Rule 2520 Federally Mandated Operating Permits (6/21/01)

Rule 4001 New Source Performance Standards,

Subpart Kb (Amended 4/14/99) - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) Is not applicable. This subpart does not apply to vessels with a design capacity \leq 1,589.874 m³ (\leq 420,000 gallons) used for petroleum or condensate stored, processed, or treated prior to custody

transfer. The capacity of these tanks is ≤ 420,000 gallons, and they store crude oil prior to custody transfer; therefore, this subpart does not apply to the tanks in this project.

Subpart OOOO (Adopted 8/16/2012) - Standards of Performance for Crude Oil and Natural Gas Production, Transmission, and Distribution.

Rule 4101 Visible Emissions (02/17/05)

Nuisance (12/17/92) Rule 4102

Rule 4623 Storage of Organic Liquids (05/19/05)

CH&SC 41700

Health Risk Assessment

CH&SC 42301.6

School Notice

Public Resources Code 21000-21177: California Environmental Quality Act

(CEQA)

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

III. **Project Location**

The tank is located at the North Antelope oilfield within the Kern County Heavy Oil Western stationary source (Section: 15, Township: 37S, Range: 19E). location is not located within 1,000 feet of the outer boundary of any K-12 school, Therefore, pursuant to CH&SC 42301.6, California Health and Safety Code (School Notice), public notification is not required.

IV. **Process Description**

The subject tank at the North Antelope oilfield is used to store crude oil prior to transfer offsite.

٧. **Equipment Listing**

S-1327-214-0: 1000 BBL FIXED ROOF CRUDE OIL STORAGE TANK WITH PV VALVE

VI. **Emission Control Technology Evaluation**

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

VII. <u>Emissions Calculations</u>

A. Assumptions

- Facility will operate 24 hours per day, 7 days per week, and 52 weeks per year.
- The tank emits only volatile organic compounds (VOCs),
- The tank paint conditions are good, the color is gray, and the shade is medium.
- TVP of oil = 0.5 psia (Applicant)
- Tank temperature, 120° F
- Applicant proposes 100 bbl/day throughput
- VOCs molecular weight, 100 lb/lbmol

B. Emission Factors

Both the daily and annual PE's will be based on the results from the District's Microsoft Excel spreadsheets for Tank Emissions - Fixed Roof Crude Oil less than 26° API located in Attachment A. The spreadsheet for tanks was developed using the equations for fixed-roof tanks from EPA AP-42, Chapter 7.1.

C. Calculations

1. Pre-Project Potential to Emit, (PE₁)

Since this is a new emissions unit, the $PE_1 = 0$

2. Post Project Potential to Emit, (PE₂)

Permit Unit	VOC - Daily PE2 (lb/day)	VOC - Annual PE2 (Ib/Year)
S1327-214-0	7.2	1296

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

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

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

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

Pursuant to District Rule 2201, the SSPE2 is the PE from all units with valid ATCs or PTOs at the Stationary Source and the quantity of ERCs which have been banked since September 19, 1991 for AER 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 emissions; therefore, SSPE2 calculations are not necessary.

5. Major Source Determination

Rule 2201 Major Source Determination:

Pursuant to District Rule 2201, a Major Source is a stationary source with a SSPE2 equal to or exceeding one or more of the following threshold values. For the purposes of determining major source status the following shall not be included:

- any ERCs associated with the stationary source
- Emissions from non-road IC engines (i.e. IC engines at a particular site at the facility for less than 12 months)
- Fugitive emissions, except for the specific source categories specified in 40 CFR 51.165

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

Rule 2410 Major Source Determination:

The facility conceeds that 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 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.

otherwise,

BE = Historic Actual Emissions (HAE), calculated pursuant to Section 3.22

Since this is a new emissions unit, the annual BE is equal to zero.

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 VOCs, 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	1296	50,000	No	

Since SB 288 Major Modification Threshold for VOCs was not surpassed with this project, this project does not constitute a SB288 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.

For new tanks, the increase in emissions is equal to the PE2 for each new unit included in this project.

The project's total emission increases is 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	1296	0	Yes	

Since the Federal Major Modification Threshold is being surpassed with this project, this project constitutes a Federal Major Modification and no further analysis is required.

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

Rule 2410 applies to any pollutant regulated under the Clean Air Act, except those for which the District has been classified nonattainment. Only VOC emisisons are associated with this project. There are no VOC attainment standards; therefore, this rule does not apply an no further discussion is required.

10. Quarterly Net Emissions Change (QNEC)

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

QNEC = PE2 - BE, where:

QNEC = Quarterly Net Emissions Change for each emissions unit,

lb/qtr.

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

BE = Baseline Emissions (per Rule 2201) for each emissions unit,

lb/qtr.

Using the values in Sections VII.C.2 and VII.C.6 in the evaluation above, quarterly PE2 and quarterly BE can be calculated as follows:

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

= 1296 lb/year ÷ 4 qtr/year

= 324 lb VOC/qtr

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

= 0 lb/year ÷ 4 qtr/year

= 0 lb VOC/qtr

	Quarterly N	NEC [QNEC]	
Permit #	PE2 (lb/qtr)	BE1 (lb/qtr)	QNEC (lb/qtr)
S-1327-214-0	324	0	324

VIII. Compliance

Rule 2201 - New and Modified Stationary Source Review Rule

A. 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.

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

The applicant is proposing to install a new tank with a PE of 7.2 lb/day for VOC as calculated in section VII.C.2. Since the daily VOC emissions are greater than 2.0 lbs/day, BACT will be required.

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

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

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

As discussed in Section I above, there are no modified tanks associated with this project; therefore, BACT is not triggered.

^{*}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.

d. SB 288/Federal Major Modification

As discussed in Section VII.C.7 above, this project does not constitute a SB 288 Major Modification for VOC emissions; therefore, BACT is not triggered.

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

2. BACT Guidance

BACT Guideline 7.3.1, applies to Petroleum and Petrochemical Production – Fixed Roof Organic Liquid Storage or Processing Tank, < 5,000 bb! tank capacity (see Attachment B)

3. Top-Down BACT Analysis

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

The applicant is proposing to use PV relief valve on the tank vent set to within 10% of maximum allowable pressure. As seen in Attachment C, the technologically feasible option of waste gas incinerated in steam generator, heater treater, or other fired equipment; transfer of noncondensable vapors to gas pipeline; reinjection to formation (if appropriate wells are available); or equal and inspection and maintenance program at 99% control are not cost effective; the following proposed equipment satisfies the BACT requirement (see BACT Guideline 7.3.1):

VOC: pressure and vacuum (PV) relief valve on tank vent set to within 10% of maximum allowable pressure

B. Offsets

1. Offset Applicability

Pursuant to Rule 2201, 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 or exceeds the offset threshold levels in Table 4-1 or Rule 2201.

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

Offset Applicability				
Pollutant	SSPE2 (lb/yr)	Offset Threshold Levels (lb/yr)	Offsets Required?	
VOC	>20,000	20,000	Yes	

2. Quantity of Offsets Required

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

Per Sections 4.7.1 and 4.7.3, the quantity of offsets in pounds per year for VOCs 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 is only one emissions unit associated with this project and there are no increases in cargo carrier emissions; therefore offsets can be determined as follows:

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

PE2 = 1296 lb/year BE = 0lb/year ICCE = 0 lb/year

The project is a Federal Major Modification and therefore the correct offset ratio for VOCs is 1.5:1.

DOR = 1.5

Offsets Required (lb/year) = $([1296 - 0] + 0) \times 1.5$ = 1944 lb VOC/year

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

<u>1st Quarter</u> <u>2nd Quarter</u> <u>3rd Quarter</u> <u>4th Quarter</u> 486 486

The applicant has stated that the facility plans to use ERC certificate S-3581-1 to offset the increases in VOC emissions associated with this project. The above certificate has available quarterly VOC credits as follows:

ERC #S-3581-1 105 1473 2033 152

Per Rule 2201, Section 4.13.8, actual emissions reductions VOC that occurred from April through November may be used to offset increases in VOC during any period of the year. Therefore, the facility has sufficient credits to fully offset the quarterly VOC emissions increases associated with this project.

Proposed Rule 2201 (offset) Conditions:

- {GC# 4447 edited} Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter 486 lb, 2nd quarter 486 lb, 3rd quarter 486 lb, and fourth quarter 486 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 4/21/11) for the ERC specified below. [District Rule 2201]
- ERC Certificate Number S-3581-1 (or a certificate split from this certificate) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]

C. Public Notification

1. Applicability

Public noticing is required for:

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

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

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

As demonstrated in VII.C.7, this project does not constitute a SB 288 Major Modification; therefore, public noticing for SB 288 Major Modification is not required.

As demonstrated in VII.C.8, this project 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 Potential to Emit greater than 100 pounds during any one day for any pollutant will trigger public noticing requirements. The PE2 for this new unit is compared to the daily PE Public Notice thresholds in the following table:

	PE > 100 lb/day	Public Notice Thres	holds
Pollutant	PE2 (lb/day)	Public Notice Threshold	Public Notice Triggered?
VOC	7.2	100 lb/day	No

Therefore, public noticing for PE > 100 lb/day purposes is not required.

c. Offset Threshold

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

		Offset Thresh	old	
Pollutant	SSPE1 (lb/year)	Project PE2 (lb/year)	Offset Threshold	Public Notice Required?
VOC	> 20,000	> 20,000	20,000 lb/year	No

As detailed above, the VOC threshold was not surpassed with this project; therefore public noticing is not required for offset purposes.

d. SSIPE > 20,000 lb/year

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

Stationary Source Increase in Permitted Emissions [SSIPE] - Public Notice					
Pollutant	Project PE2 (lb/year)	Project PE1 (lb/year)	SSIPE (lb/year)	SSIPE Public Notice Threshold	Public Notice Required?
VOC	1296	0	1296	20,000 lb/year	No

As demonstrated above, the SSIPEs for all pollutants were less than 20,000 lb/year; therefore public noticing for SSIPE purposes is not required.

2. Public Notice Action

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

D. Daily Emissions Limits (DEL)

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

manner, on a daily basis. DELs are also required to enforce the applicability of BACT.

DELs for the emission units in this project will be included on the ATCs in the form of tanks' throughput and the tank contents' maximum true vapor pressure (TVP). The permittee will be required to maintain accurate records of tank content TVP and tanks monthly average daily throughput to validate the DEL.

E. Compliance Assurance

The following measures shall be taken to ensure continued compliance with District Rules:

1. Source Testing

The permittee will be required to perform periodic TVP testing for all tanks in this project using the latest EPA and CARB approved version of the Lawrence Berkeley National Laboratory "Test Method for Vapor Pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph" to validate non-applicability of Rule 4623. The testing shall be conducted once every 24 month period or every time when the source of liquid stored is changed.

2. Monitoring

Monitoring is not required.

3. Record Keeping

Record keeping is required to demonstrate compliance with the offset, public notification and daily emission limit requirements of Rule 2201. The following conditions will appear on the permits:

- Permittee shall maintain monthly records of average daily crude oil throughput and shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 2201] N
- All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 2201] N

4. Reporting

No reporting is required to demonstrate compliance with Rule 2201.

F. Ambient Air Quality Analysis

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

G. Compliance Certification

Section 4.15.2 of this Rule requires the owner of a new Major Source or a source undergoing a Title I 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 Sections VIII-Rule 2201-C.1.a and VIII-Rule 2201-C.1.b, this facility is a major source and this project does constitute a Title I modification, therefore this requirement is applicable. Included in Attachment E is Vintage's compliance certification.

H. Alternate Siting Analysis

The current project occurs at an existing facility. The applicant proposes to install a new crude oil storage tank.

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

Rule 2410 Federally Mandated Operating Permits

This rule applies to any source and the owner or operator of any source subject to any requirement under Title 40 Code of Federal Regulations (40 CFR) Part 52.21 as incorporated into this rule. As stated in Section VII.C.9 of this evaluation, This Rule does not apply and no further discussion is reuired.

Rule 2520 Federally Mandated Operating Permits

This facility is subject to this rule, and has received their Title V Operating Permit. The proposed modification is a Significant Modification to the Title V Permit pursuant to Section 3.29 of this rule. As discussed above, the facility has applied for a Certificate of Conformity (COC); therefore, the facility must apply to modify their Title V permit with an administrative amendment, prior to operating

with the proposed modifications. Continued compliance with this rule is expected.

Rule 4101 Visible Emissions

Rule 4101 states that no air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity.

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

Rule 4102 Public Nuisance

Rule 4102 states that no air contaminant shall be released into the atmosphere which causes a public nuisance. Compliance is expected

California Health & Safety Code 41700 (Health Risk Assessment)

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

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

The 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).

Rule 4623, Storage of Organic Liquids

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

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

{2480} This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rules 2201 and 4623] N

{Modified 2910} Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank upon initial start-up, at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 2201 and 4623] N

The permittee shall conduct API gravity testing upon initial start-up. [District Rules 4623] N

{Modified 2911} The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. [District Rule 4623]

{Modified 2483} For crude oil with an API gravity of 26 degrees or less, the TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "Test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rules 2201 and 4623] N

{Modified 2482} The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rules 2201 and 4623] N

{Modified 2912} Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rules 2201 and 462] N

Compliance with the requirements of this rule is expected.

CH&SC 42301.6 California Health & Safety Code (School Notice)

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

California Environmental Quality Act (CEQA)

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

The basic purposes of CEQA are to:

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

District CEQA Findings

The District is the Lead Agency for this project because there is no other agency with broader statutory authority over this project. The District performed an Engineering Evaluation (this document) for the proposed project and determined that the activity will occur at an existing facility and the project involves negligible expansion of the existing use. Furthermore, the District determined that the activity will not have a significant effect on the environment. The District finds that the activity is categorically exempt from the provisions of CEQA pursuant to CEQA Guideline § 15031 (Existing Facilities), and finds that the project is exempt per the general rule that CEQA applies only to projects which have the potential for causing a significant effect on the environment (CEQA Guidelines §15061(b)(3)).

IX. Recommendations

Issue Authority to Construct S-1327-214-0 subject to the permit conditions on the attached draft Authority to Construct.

X. Billing Information

Permit Number	Fee Schedule	Fee Description	Annual Fee
S-1327-214-0	3020-05-C	1000 BBLs	\$135

ATTACHMENT A: Emissions Calculations

ATTACHMENT B: BACT Guideline

ATTACHMENT C: Top down BACT Analysis ATTACHMENT D: Health Risk Assessment ATTACHMENT E: Compliance Certifications

ATTACHMENT F: Draft ATC

Attachment A Emissions Calculations

Tank Input Data		
permit number (S-xxxx-xx-xx)	T	
facility tank I.D.		
nearest city {1: Bakersfield, 2: Fresno, 3: Stockton}		1
tank ROC vapor pressure (psia)		0.5
liquid bulk storage temperature, Tb (°F)		90
is this a constant-level tank? {yes, no}		no
will flashing losses occur in this tank (only if first-line tank)? {yes, no}		no
breather vent pressure setting range (psi)	-	0.06
diameter of tank (feet)		21.1
capacity of tank (bbl)		1,000
conical or dome roof? {c, d}		-,, ,,,,,
shell height of tank (feet)	+	16
average liquid height (feet)	1	9
are the roof and shell the same color? {yes,no}		¥06
For roof:		yes
color {1:Spec Al, 2:Diff Al, 3:Light, 4:Med, 5:Red, 6:White}		4
condition {1: Good, 2: Poor}		1
This county and if the His different shorts are at		
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	Α	В
maximum daily fluid throughput (bbl)	10.000	100
maximum annual fluid throughput (bbl)	10,000	10,000
This row only used if flashing losses occur in this tank		100
This row only used if flashing losses occur in this tank		36,500
molecular weight, Mw (lb/lb-mol)		100
Calculated Values	A	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
	93.4	0.7850
water vapor pressure at daily maximum liquid surface temperature (Tlx), Pvx (psia water vapor pressure at daily minimum liquid surface temperature (Tln), Pvn (psia		
Iwaler vapor pressure al dany minimum ndulo surface temperature (1 m). Pvii (psia		0.5580 0.6612
	1 88 0	V.UU 121
water vapor pressure at average liquid surface temperature (TIa), Pva (psia)	88.0	,
water vapor pressure at average liquid surface temperature (Tla), Pva (psia) roof outage, Hro (feet)	88.0	0.2198
water vapor pressure at average liquid surface temperature (TIa), Pva (psia) roof outage, Hro (feet) vapor space volume, Vv (cubic feet)	88.0	0.2198 2524.52
water vapor pressure at average liquid surface temperature (TIa), Pva (psia) roof outage, Hro (feet) vapor space volume, Vv (cubic feet) paint factor, alpha	88.0	0.2198 2524.52 0.68
water vapor pressure at average liquid surface temperature (TIa), Pva (psia) roof outage, Hro (feet) vapor space volume, Vv (cubic feet) paint factor, alpha vapor density, Wv (lb/cubic foot)	88.0	0.2198 2524.52 0.68 0.0085
water vapor pressure at average liquid surface temperature (TIa), Pva (psia) roof outage, Hro (feet) vapor space volume, Vv (cubic feet) paint factor, alpha vapor density, Wv (lb/cubic foot) daily vapor temperature range, delta Tv (degrees Rankine)	88.0	0.2198 2524.52 0.68 0.0085 49.04
water vapor pressure at average liquid surface temperature (TIa), Pva (psia) roof outage, Hro (feet) vapor space volume, Vv (cubic feet) paint factor, alpha vapor density, Wv (lb/cubic foot)	88.0	0.2198 2524.52 0.68 0.0085
water vapor pressure at average liquid surface temperature (TIa), Pva (psia) roof outage, Hro (feet) vapor space volume, Vv (cubic feet) paint factor, alpha vapor density, Wv (lb/cubic foot) daily vapor temperature range, delta Tv (degrees Rankine)		0.2198 2524.52 0.68 0.0085 49.04 0.1016
water vapor pressure at average liquid surface temperature (TIa), Pva (psia) roof outage, Hro (feet) vapor space volume, Vv (cubic feet) paint factor, alpha vapor density, Wv (lb/cubic foot) daily vapor temperature range, delta Tv (degrees Rankine) vapor space expansion factor, Ke	lb/year	0.2198 2524.52 0.68 0.0085 49.04 0.1016
water vapor pressure at average liquid surface temperature (TIa), Pva (psia) roof outage, Hro (feet) vapor space volume, Vv (cubic feet) paint factor, alpha vapor density, Wv (lb/cubic foot) daily vapor temperature range, delta Tv (degrees Rankine) vapor space expansion factor, Ke Results Standing Storage Loss		0.2198 2524.52 0.68 0.0085 49.04 0.1016 lb/day 2.18
water vapor pressure at average liquid surface temperature (TIa), Pva (psia) roof outage, Hro (feet) vapor space volume, Vv (cubic feet) paint factor, alpha vapor density, Wv (lb/cubic foot) daily vapor temperature range, delta Tv (degrees Rankine) vapor space expansion factor, Ke	Ib/year 796	0.2198 2524.52 0.68 0.0085 49.04 0.1016

Summary Table		
Permit Number		
Facility Tank I.D.		
Tank capacity (bbl)	1,000	
Tank diameter (ft)	21.1	
Tank shell height (ft <u>)</u>	16	
Conical or Dome Roof	Conical	
Maximum Daily Fluid Throughput (bbl/day)	100	
Maximum Annual Fluid Throughput (bbl/year)	10,000	
Maximum Daily Oil Throughput (bbl/day)	N/A	
Maximum Annual Oil Throughput (bbl/year)	N\A	
Total Uncontrolled Daily Tank VOC Emissions (lb/day)	7.2	
Total Uncontrolled Annual Tank VOC Emissions (lb/year)	1,296	

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Attachment B BACT Guideline

San Joaquin Valley Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 7.3.1*

Last Update 10/1/2002

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

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

^{**} Converted from Determinations 7.1.11 (10/01/02),

BACT is the most stringent control technique for the emissions unit and class of source. Control techniques that are not achieved in practice or contained in 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.

^{*}This is a Summary Page for this Class of Source

Attachment C BACT Analysis

Top Down BACT Analysis

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

Step 1 - Identify All Possible Control Technologies

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

Technologically feasible:

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

Achieved in Practice:

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

Step 2 - Eliminate Technologically Infeasible Options

All of the above identified control options are technologically feasible.

Step 3 - Rank Remaining Control Technologies by Control Effectiveness

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

Step 4 - Cost Effectiveness Analysis

The applicant has supplied the capital cost of \$276,050 for a vapor control system to address the technologically feasible control option.

The annualized capital cost is

AP = $(P) \{[(i) (1 + i)^n]/[(1 + i)^n - 1]\}$, where

AP = Equivalent Annual Capital Cost of Control Equip.

P = Present value of the control equipment, including installation cost. \$276,050

i = interest rate (use 10% per policy)

n = equipment life (assume 10 years per policy)

AP= (P) {[(0.1)
$$(1 + 0.1)^{10}$$
]/[(1 + 0.1)¹⁰ - 1]}
AP= (\$276,050) x (0.16274) = \$44,924/year

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

Tons/yr = 1296 lb/yr/ 2000 lb/ton = 0.648 tons/yr

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

Step 5 - Select BACT

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

Attachment D Health Risk Assessment

San Joaquin Valley Air Pollution Control District Risk Management Review

To:

Steve Davidson - Permit Services

From:

Leland Villalvazo - Technical Services

Date:

April 7,2014

Facility Name:

Vintage Production CA, LLC

Location:

Sec 5 / T27S / R19E

Application #(s):

S-1327-214-0

Project #:

S-1141288

A. RMR SUMMARY

RMR Summary					
Categories	Crude Oil Storage Tank (Unit 214-0)	3 th	Project Totals	Facility Totals	
Prioritization Score	0.001		0.001	>1.0	
Acute Hazard index	0.004		0.004	0.1	
Chronic Hazard Index	0.0		0.0	0.015	
Maximum Individual Cancer Risk (10 ⁻⁶)	0.002		0.002	0.8	
T-BACT Required?	No		P. C.		
Special Permit Conditions?	No				

Proposed Permit Conditions

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

Unit # 214-0

No special conditions are required.

B. RMR REPORT

i. Project Description

Technical Services received a request on March 27, 2014, to perform a Risk Management Review for a proposed installation of a 1000 BBL fixed roof crude oil storage tank. The RMR request also required an AAQA to be performed. Since the only criteria pollutant associated with the permit application is VOC and no ambient air quality standard current exist, no AAQA will be performed.

II. Analysis

Technical Services performed a health risk assessment using the District approved Toxic Fugitive Emissions from Oilfield Equipment. The cumulative facility prioritization score is greater than 1.0, thus modeling was conducted using the AERMOD model, with the parameters outlined below and meteorological data for 2005-2009 from Missouri Triangle to determine the dispersion factors (i.e., the predicted concentration or X divided by the normalized source strength or Q) for a receptor grid.

	Analysis Par Unit 21		
Source Type	Area Circle	Location Type	Urban
Dlameter	6.4	Closest Receptor (m)	>1524
Y-Length (m)		Type of Receptor	Residential
Release Height (m)	4.88	Pollutant Type	voc
		Emission Rate	0.30 lb/hr

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).

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

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

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. Toxic emissions summary
- D. Prioritization score
- E. Facility Summary

Attachment E Compliance Certifications

San Joaquin Valley Unified Air Pollution Control District

TITLE V MODIFICATION - COMPLIANCE CERTIFICATION FORM

I.	TYPE OF PERMIT ACTION (Check appropriate box)
[X] []	SIGNIFICANT PERMIT MODIFICATION [] ADMINISTRATIVE MINOR PERMIT MODIFICATION AMENDMENT
CC	DMPANY NAME: VINTAGE PRODUCTION CALIFORNIA, LLC FACILITY ID: S = 1327
1.	Type of Organization:[X] Corporation [] Sole Ownership [] Government [] Partnership [] Utility
2.	Owner's Name:
3.	Agent to the Owner:
II.	COMPLIANCE CERTIFICATION (Read each statement carefully and initial all circles for confirmation):
•	Based on information and belief formed after reasonable inquiry, the equipment identified in this application will continue to comply with the applicable federal requirement(s).
	Based on information and belief formed after reasonable inquiry, the equipment identified in this application will comply with 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 has been submitted.
	Based on information and belief formed after reasonable inquiry, information and statements in the submitted application package, including all accompanying reports, and required certifications are true accurate and complete.
I de	eclare, under penalty of perjury under the laws of the state of California, that the forgoing is correct and true:
_	mature of Responsible Official March 20, 2014 Date
	William J. Gillespie
Na	me of Responsible Official (please print)
	Operations Manager
77:41	lo of Possociklo Official (alexandra)

Title of Responsible Official (please print)

Mailing Address: Central Regional Office * 1990 E. Gettysburg Avenue * Fresno, California 93726-0244 * (559) 230-5900 * FAX (559) 230-6061 TVFORM-009 March 20, 2014

Mr. Leonard Scandura
Permit Services Manager
San Joaquin Valley Unified
Air Pollution Control District
34946 Flyover Ct.
Bakersfield, CA 93308

Subject:

S-1327 ATC Application - Add Crude Oil Tank (North Antelope Hills Lease)

Federal Major Modification Compliance Certification

Dear Mr. Scandura:

I hereby certify that all major Stationary Sources owned or operated by such person (or by any entity controlling, controlled by, or under common control with such person) in California, which are subject to emission limitations, are in compliance or on a schedule for compliance with all applicable emission limitations and standards.

o.g..a.a.o

Operations Manager

Title

Attachment F Draft ATC

San Joaquin Valley Air Pollution Control District

AUTHORITY TO CONSTRUCT

PERMIT NO: S-1327-214-0

LEGAL OWNER OR OPERATOR: VINTAGE PRODUCTION CALIFORNIA LLC

MAILING ADDRESS:

9600 MING AVE, SUITE 300 BAKERSFIELD, CA 93311

LOCATION:

HEAVY OIL WESTERN, KERN COUNTY

CA

SECTION: 15 TOWNSHIP: 278 RANGE: 19E

EQUIPMENT DESCRIPTION:

1000 BBL FIXED ROOF CRUDE OIL STORAGE TANK WITH PV VALVE

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 VOC emission reduction credits for the following quantity of emissions: 1st quarter 486 lb, 2nd quarter 486 lb, 3rd quarter 486 lb, and fourth quarter 486 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 4/21/11) for the ERC specified below. [District Rule 2201] Federally Enforceable Through Title V Permit
- 4. ERC Certificate Number S-3581-1 (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
- 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

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 expire governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Ditector APCO

ARNAUD MARJOLLET, Director of Permit Services

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

- 6. VOC emission rate from the tank shall not exceed 7.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
- 7. The tank shall be equipped with a fixed roof with no holes or openings. [District Rule 2201] Federally Enforceable Through Title V Permit
- 8. This tank shall be equipped with a pressure-vacuum (PV) relief valve set to within 10% of the maximum allowable working pressure of the tank, permanently labeled with the operating pressure settings, properly maintained in good operating order in accordance with the manufacturer's instructions, and shall remain in leak-free condition except when the operating pressure exceeds the valve's set pressure. [District Rule 2201] Federally Enforceable Through Title V Permit
- 9. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank upon initial start-up, at least once every 24 months during summer (July September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 10. The permittee shall conduct an API gravity testing upon initial star-up. [District Rule 4623] Federally Enforceable Through Title V Permit
- 11. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. [District Rule 2201 and 4623] Federally Enforceable Through Title V Permit
- 12. For crude oil with an API gravity of 26 degrees or less, the TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "Test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 2201 and 4623] Federally Enforceable Through Title V Permit
- 13. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 14. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rules 2201 and 4623] Federally Enforceable Through Title V Permit
- 15. Permittee shall maintain monthly records of average daily crude oil throughput and shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 2201] Federally Enforceable Through Title V Permit
- 16. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 1070]

