

<b>SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT</b>  <b>STATIONARY SOURCE COMPLIANCE DIVISION</b>  <b>PERMIT APPLICATION PROCESSING AND CALCULATIONS</b>	PAGES 11	PAGE 1
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**EVALUATION REPORT FOR PERMIT TO CONSTRUCT**

**APPLICANT'S NAME:**  
CHEVRON USA, INC.

**ID NO.:** 800302  
SUB ID NO. 3630

**MAILING ADDRESS**  
17881 GOTHARD STREET  
HUNTINGTON BEACH, CA 92647

**CONTACT:** PAUL COON  
TERMINAL MGR

**EQUIPMENT ADDRESS**  
SAME

Application No. 502610

**EQUIPMENT DESCRIPTION:**  
STORAGE TANK NO. 477, CRUDE OIL, INTERNAL FLOATING ROOF, 35'DIA x 40'H, 6254 BBL WORKING CAPACITY, WELDED INTERNAL FLOATING ROOF WITH A MECHANICAL SHOE TYPE PRIMARY SEAL AND A RIM MOUNTED, WIPER TYPE SECONDARY SEAL.

**BACKGROUND:**  
This application was filed to modify the permit to construct Storage Tank No. 477 (AN478611) by increasing the vapor pressure and throughput limits of the tank storage product (crude oil). The application was submitted for expedited processing on Oct. 6, 2009. The application was assigned to this engineer for processing on Oct. 9, and deemed complete on Oct. 13, 2009. The Chevron HB Terminal is a TV facility and this PC modification will be incorporated in the TV Permit which will then require an EPA 45 day review. AN 501915 for TV Permit revision has been filed to incorporate the PC in the Facility TV Permit.

Application No. 501915

**BACKGROUND:**  
Application No. 501915 was filed to incorporate the Permit to Construct Crude Oil Storage Tank No. 477, issued for AN478611 (Granted May 6, 2009) in Section H of the Facility TV Permit. The Permit to Construct (AN478911) was issued as a command and control Permit with a condition requiring an application for revision of the TV Permit to be submitted within 90 days of PC issuance. Subsequent to issuance of the PC (AN478611), the operator submitted AN 503610 to modify throughput and vapor pressure conditions on the original PC. Therefore the PC for AN478611 the modification PC AN502610 will be incorporated in the TV Section H modification AN501915).

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**CALCULATIONS:**

After the original PC was issued, the operator was advised that Crude Oil that may be stored in Tank 477 could exceed the current Vapor Pressure limit of RVP 3. The applicant had submitted an offset certificate for 7 pounds of VOC emissions. 6 pounds of VOC were required to offset emissions calculated using the throughput and RVP limits requested in the original application, leaving a Facility balance of 1 pound VOC available. The applicant has requested that the RVP limit be increased to 6 and the T/P limit adjusted such that the resulting emission increase be limited to less than 1 pound per day of VOC.

ORIGINAL (AN 478611) RVP-3, Throughput - 234 turnovers/yr

Tank Emissions

Assumptions:

- Tank 477 working capacity: 262,000 gallons or 6254 BBL (35' dia x 36.5' working ht.)
- Max annual throughput: 4000 BBL/day requested by applicant ~234 Turnovers/year or ~61,466,184 gal/yr.  
(requested by applicant)
- Maximum vapor pressure: 3 RVP (true vapor pressure = 1.6psia @ 60°F)  
(requested by applicant)

Period	Proposed Throughput (gal)	RVP	Maximum Operating Potential to Emit ROG (lb.) <sup>1</sup>
Annual	61,308,000	3	1795.1
Jan.	5,122,182	3	148.6
Feb.	5,122,182	3	148.8
March	5,122,182	3	149.0
April	5,122,182	3	149.4
May	5,122,182	3	149.8
June	5,122,182	3	150.1
July	5,122,182	3	150.7
August	5,122,182	3	150.8
Sept.	5,122,182	3	150.4
Oct.	5,122,182	3	149.9
Nov.	5,122,182	3	149.1
Dec.	5,122,182	3	148.6

1. Calculated by applicant using EPA Tank 4.09b program

2. Based on 30 day average

**CURRENT APPLICATION (AN502610)**

The Applicant has requested:

- increase in RVP from RVP 3 to RVP 6
- maximum T/P that keeps required VOC offsets to < 1 lb/day

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Offsets are calculated by taking the highest monthly emissions as calculated by the EPA Tanks 4.09d program dividing by 30 to get daily emissions, adding in the avg. daily fugitive emissions, then multiplying that total by 1.2 and rounding to the nearest whole number.

The maximum Tank VOC emission rate allowable to keep the offset requirement below 7 pounds (6 lb from the original VP & T/P + 1lb from the increased VP & T/P) =

$$(7.49 - 0.133(\text{avg. daily fugitive emiss from AN478611})) / 1.2 = 6.13$$

By iteration using the Tanks program  
Maximum allowable T/P = 255 Turnovers @ RVP 6

**Tank Emissions Current Application**

Assumptions:

- Tank 477 working capacity: 262,000 gallons or 6254 BBL (35' dia x 36.5' working ht.)
- Max annual throughput: 4369 BBL/day requested by applicant ~255 Turnovers/year or ~66,810,000 gal/yr.  
(requested by applicant)
- Maximum vapor pressure: 6 RVP  
(requested by applicant)

Period	Proposed Throughput (gal)	RVP	Maximum Operating Potential to Emit ROG (lb.) <sup>1</sup>
Annual	66,982,380	6	1795.1
Jan.	5,581,865	6	176.9
Feb.	5,581,865	6	177.4
March	5,581,865	6	178.0
April	5,581,865	6	179.1
May	5,581,865	6	180.0
June	5,581,865	6	181.0
July	5,581,865	6	182.5
August	5,581,865	6	<b>182.7<sup>2</sup></b>
Sept.	5,581,865	6	182.0
Oct.	5,581,865	6	180.3
Nov.	5,581,865	6	178.3
Dec.	5,581,865	6	176.9

1. Calculated by applicant using EPA Tank 4.09b program, rounded to nearest 0.1lb.

2. Highest month

Daily Tank Emissions based on Highest month (August) emissions

$$R1 = R2 = 182.7 \text{ lb/mo}/30 \text{ days} \approx 6.09 \text{ lb/day}$$

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Fugitive Emissions (from AN478611 – no change in fugitive component estimates)

Component	Service	No.	Factor (lb/yr)	Total (lb/yr)	
Valves	Heavy Liquid	7	3	21	
Flanges	All	18	1.5	27	

Fugitive Emissions Total = 48 lb/yr

$$R1_{FE} = R2_{FE} = 48\text{lb/yr}/12 \text{ mo/yr}/30 \text{ days/mo} = .133 \text{ lb/day}$$

**MAXIMUM ROG Emissions**

$$\begin{aligned}
 R1 = R2 &= 6.09 \text{ (highest mo. daily tank emiss)} + .133 \text{ (avg fugitive emiss)} \\
 &= 6.223 \text{ lb/day} \\
 &\approx \mathbf{0.26 \text{ lb/hr}}
 \end{aligned}$$

**ERC Determination**

The highest monthly emission calculated by the EPA Tank 4.09b program (August @ 150.8lb) divided by 30  $\approx$  6.09 lb/day plus the fugitive emissions  $\approx$  0.133 lb/day  $\approx$  6.223 lb/day

**The required offset = 6.223 lb/day x 1.2  $\approx$  7.47 lb/day Rounded to nearest lb = 7 lb/day.**

**HEALTH RISK ASSESSMENT**

Emissions used to calculate health risk are taken from the EPA Tanks program Crude Oil profile. This profile represents average content of toxic air contaminants typically found in Crude Oil.

**Summary of Air Toxics Emissions from EPA Tank 4.09b Spreadsheet**

Toxic Compound	Annual Emissions <sup>1</sup> (lb/yr)	Avg Emissions (lb/hr)
Benzene	13.68	1.56E-03
Ethyl benzene	7.50	8.56E-04
Hexane (n-)	10.24	1.17E-03
Toluene	19.60	2.24E-03
Xylenes	26.14	2.98E-03

1. Based on maximum throughput of 255 turnovers/year.

**MICR and HAZARD INDEX by Tier 2 (See Risk Spreadsheets, Attached)**

Basis:

- Emissions from domed external floating roof tank are best modeled in Tier 3 by a volume source calculation modified such that the source height is the top of the tank.
- The tanks VOC emissions are calculated by the EPA 4.0.9b Tanks program.
- Air Toxics are calculated from crude oil toxics fractions in the Tanks program.
- Emissions are assumed to be distributed evenly over 24 hours per day, 365 days per year.
- The MICR (commercial and residential) is calculated by spreadsheet using the updated risk program. (Tier 3 emission concentrations were unchanged and imported from AN478611 evaluation.)

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- Distances to receptors provided by applicant.
- The results of the RISK Spreadsheet calculations of are summarized in the following tables:

MICR

Carcinogen	Emission Rate (lb/hr)	MICR	
		Sensitive/Residential	Worker/Commercial
Benzene	0.00156	4.17E-08	5.12E-08
Ethylbenzene	0.000856	3.98E-08	4.89E-08
<b>Totals</b>	<b>n/a</b>	<b>8.16E-08</b>	<b>1.00E-07</b>

**HIA & HIC**

HIA and HIC are calculated by spreadsheet using Tier 2 methods

VARIABLES			Cancer Burden	no
Hour/Day	24	hr/day		
Day/Week	7	day/wk	X/Q for one-in-a-million:	
Week/Year	52	wk/yr	Distance (meter	
Units	lb/hr	lb/hr or ppm	Area (km2):	
Exhaust Flow Rate	N/A	scfm	Population:	
Control Efficiency	0	%	<b>Cancer Burden:</b>	
Point Source?	V	p or v	No cancer burden, MICR < 1 in 1 million	
Stack Height	40	feet		
Area	962	sq. ft.		
Distance-Residential	385	meters		
Distance-Commercial	63	meters		
Met. Station		Long Beach		

<b>HIA = [Q(lb/hr) * (X/Q)max] / Acute REL</b>	<b>HIA</b>	<b>HIC</b>
<b>HIC = [Q(ton/yr) * (X/Q) * MET * MP] / Chronic REL</b>		
Target Organs	Acute	Chronic
Cardiovascular or blood system		4.96E-05
Central or peripheral nervous system		
Gastrointestinal system and liver		
Immune system	7.42E-05	2.44E-04
Kidney		4.96E-05
Reproductive system	1.42E-05	
Respiratory system	6.98E-05	1.51E-04
Skin	6.98E-05	
Eye		4.96E-05
Endocrine system	4.40E-06	2.38E-04

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**RULES EVALUATION:**

CEQA: The CEQA Applicability Form (400-CEQA) indicates that the project does not have any impacts which trigger the preparation of a CEQA document. The expected impacts of the project on the environment are not significant, therefore a CEQA analysis is not required.

212: Public Notice is not required since emission increases from the project (ROG = 6.22 lb/day) are below threshold (30 lb/day). Tank has an MICR less than one in a million. There is no Cancer Burden. HIA and HIC are less than one. There is no school within 1000 feet.

401: Visible emissions are not expected under normal operation from storage tanks.

402: Compliance records indicate that there are no N/C and NOV's for the past three years and the facility is expected to continue in compliance with the rule.

Rule 463 – Organic Liquid Storage, Amended May 6, 2005

463(c)(2): Internal floating roof tank consists of a steel pan floating roof, mechanical shoe primary seal (Category A) and A rim-mounted single wiper, secondary seal system (Category A). Both primary and secondary seals are independently attached, separate from each other. All openings and fittings shall be gasketed. The concentration of organic vapors in the vapor space cannot exceed 30% of LEL. Compliance is expected.

463(d)(1): This paragraph applies to tanks with capacity between 251 -19,815 gallons. It is not applicable since Tank 477 working capacity is 262,676 gallons

463(d)(2): This paragraph requires the roof to rest on the product at all time and that emptying and filling of product must be continuous such that the roof never rests on its leg except for cleaning. Normal tank operation will comply with this requirement.

463(d)(3): Not applicable since the HB does not operate a facility for treatment of wastewater used to refloat the tank roof as specified in this rule.

463(d)(4): This paragraph limits true vapor pressure to 11psia or lower. Permit conditions for Tank 477 restrict contents to crude oils tanks with RVP of 3 or lower.

463(d)(5): Seals replacement. Not applicable. New Tank will have new category A seals.

463(e)(1): The applicant is required to submit an updated Rule 463 compliance plan before Tank 477 may be placed in service.

463(e)(2): The new tanks will have visible identification number.

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463(e)(3): Inspection and notification requirements are required by permit conditions and addressed the facility's Rule 463 compliance plan. Tank 477 will be added to the compliance plan before it is placed in service.

463(e)(4): Maintenance requirement is effective upon completion of new tanks construction

463(e)(5): Reporting and Recordkeeping requirements are effective upon completion of new tanks construction

Rule 1149 – Storage Tank Cleaning and Degassing, Amended May 2, 2008

VOC emissions during cleaning and degassing of Tank 477 are to be controlled by one of the control methods mentioned in this rule. Compliance is expected.

Rule 1173 – Fugitive Emissions of Volatile Organic Compounds, Amended Feb 6, 2009

Rule 1173 categorizes leak types and stipulates maintenance & reporting requirements for fugitive components. The applicant is required to include these new installed components as a result of this project into their existing 1173 inspection and maintenance program. HB will be required to provide an updated fugitive count when construction has been completed. Compliance is expected.

Rule 1178 – Further Reductions of VOC Emissions from Storage Tanks at Petroleum Facilities

Not applicable. The Chevron HB Facility has not reported emissions exceeding 40,000 pounds of VOC in year 2000 or any year thereafter.

REGULATION XIII – New Source Review

1303(a): BACT.

BACT for internal floating roof tanks is listed in the table below. BACT for internal floating roof tanks are Category A primary seal and secondary seals. The applicant has proposed to install a mechanical shoe primary seal and a rim-mounted wiper secondary seal system. BACT for fugitives is not triggered since fugitive emissions is less than one pound per day.

Current BACT for Storage Tanks

Equipment	VOC	NO <sub>x</sub>	SO <sub>x</sub>	CO	PM <sub>10</sub>
Internal Floating Roof	Category A Tank Seals and Comply with Rule 463 (10-20-2000)				

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1303(b)      Modeling:      Not required for ROG.  
Offsets:      This modification will increase of ROG emissions by 1.223  
                         lb/day/tank x 1.2 = 1.47 lb/day. Rounded to 1 lb/day of offset ERC's  
                         required.

Sensitive Zone: Chevron Products Co. Refinery in El Segundo has transferred Certificate No. AQ007778 for 7 lb VOC to the HB Terminal Account. 6 lbs of ERCs were used for AN478611 leaving 1 pound to offset emissions due to the requested modifications. There are sufficient ERCs to offset the emission increase.

Facility Compliance: This facility is in compliance with the rules and regulations of the District.

Major Polluting Facility: HB is not a major polluting facility.

Rule 1401 New Source Review of Toxic Air Contaminants

The maximum toxic constituents for each tank yield MLCR values less than one in a million. HIA and HIC are each less than one. Compliance is expected.

40 CFR 60 Subpart Kb

These new internal floating roof tanks will be equipped with primary and secondary seals.

40 CFR 63 Subpart BBBB

These tanks will comply with the applicable requirements of this rule by complying with Kb and Rule 463.

Reg XXX      The facility is subject to Reg XXX. A Title V Permit Revision is required and is subject to 45 day EPA Review. The applicant has filed AN501915 for Title V Permit revision. AN501915 will be used to incorporate AN478611 and AN502610 in Revision 1 of Section H of the TV permit.

**CONCLUSION:**

This project will meet all District Rules and Regulations. It is recommended that a Permit to Construct be granted subject to the attached conditions. Applicant will be required to apply for Rule 463 plan revision to include Tank 477.

**CONDITIONS:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]

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2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. DURING ANY TIME WHEN THE TANK IS EMPTIED AFTER HAVING LAST CONTAINED A VOC WITH A REID VAPOR PRESSURE GREATER THAN 0.5 PSIA AND THE FLOATING ROOF WILL REST ON ROOF LEGS, THIS TANK SHALL MEET THE REQUIREMENTS REGARDING THE VENTING, DEGASSING, OR VAPOR TIGHT PROVISIONS OF RULE 1149 AS APPLICABLE.  
[RULE 1149]
4. THIS TANK SHALL BE EMPTIED AND REFILLED ACCORDING TO THE REQUIREMENTS OF RULE 1149 AND RULE 463.  
[RULE 463, RULE 1149, RULE 1303(a)(1)-BACT]
5. THE OPERATOR SHALL USE THIS EQUIPMENT IN SUCH A MANNER THAT THE HYDROCARBON CONCENTRATION BEING MONITORED, AS INDICATED BELOW, DOES NOT EXCEED 30 PERCENT OF THE LOWER EXPLOSIVE LIMIT (LEL). AN EXPLOSIMETER SHALL BE USED TO MONITOR THE HYDROCARBON CONCENTRATION IN THE VAPOR SPACE ABOVE THE INTERNAL FLOATING ROOF TWICE PER YEAR AT A 4 TO 8 MONTHS INTERVAL. ADEQUATE RECORDS SHALL BE KEPT TO SHOW COMPLIANCE WITH THIS CONDITION.  
[RULE 463]
6. THE OPERATOR SHALL LIMIT THE USE AND THROUGHPUT TO NO MORE THAN THE 132,898 BARRELS PER CALENDAR MONTH WITH CRUDE OIL NOT TO EXCEED A REID VAPOR PRESSURE OF 6 PSIA.

THE OPERATOR SHALL COMPLY WITH THE FOLLOWING THROUGHPUT MEASUREMENT PRACTICES:

THE OPERATOR SHALL CALCULATE THE THROUGHPUT, IN BARRELS, BY THE FOLLOWING EQUATION:  $0.14 \times D \times D \times L$ , WHERE "D" IS THE DIAMETER OF THE TANK IN FEET BASED ON THE TANK STRAPPING CHART AND "L" IS THE TOTAL VERTICAL ONE-WAY ROOF TRAVEL IN FEET PER MONTH.

THE OPERATOR SHALL INSTALL AND MAINTAIN AN AUTOMATIC TANK LEVEL GAUGE (ATLG) AND RECORDER TO CONTINUOUSLY RECORD THE VERTICAL MOVEMENT OF THE ROOF. FOR THE PURPOSE OF THIS CONDITION, CONTINUOUS RECORDING IS DEFINED AS ONCE PER HOUR.

THE OPERATOR SHALL CALCULATE THE TOTAL ONE-WAY ROOF MOVEMENT, IN FEET, ON A DAILY AND MONTHLY BASIS.

THE ATLG INSTALLED SHALL BE VERIFIED ONCE PER QUARTER BY COMPARING AGAINST A MANUAL TANK LEVEL MEASUREMENT. IF THE ATLG DIFFERS FROM THE MANUAL TANK LEVEL MEASUREMENT BY MORE THAN 1.0 INCH OR 0.8%, WHICHEVER IS GREATER.

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.IN THE EVENT OF A FAILURE OR ROUTINE MAINTENANCE OF THE ATLG, THE ATLG SHALL BE REPAIRED (IF NECESSARY) AND PUT BACK INTO SERVICE WITHIN 10 DAYS OF THE TIME THAT THE ATLG FAILED OR WAS REMOVED FROM SERVICE FOR MAINTENANCE. WHILE THE ATLG IS BEING REPAIRED OR MAINTAINED, THE THROUGHPUT SHALL BE DETERMINED BY THE SMITH MODEL F4-S1, 4 INCH POSITIVE DISPLACEMENT METER (OR EQUIVALENT) INSTALLED ON THE TANK OUTLET.

[RULE 1303(b)(2)-OFFSET, RULE 1401]

7. REFILLING OR DEGASSING OPERATIONS OR OTHER OPERATION WHERE THE FLOATING ROOF WILL REST ON ITS LEGS SHALL BE RECORDED AND MAINTAINED FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO THE DISTRICT UPON REQUEST. SUCH RECORDS SHALL INCLUDE, BUT NOT BE LIMITED TO, THE TANK IDENTIFICATION AND TIME OF START AND FINISH OF OPERATION BEFORE AND AFTER THE OPERATION.  
[RULE 1149]
8. THE OPERATOR SHALL KEEP ADEQUATE RECORDS TO SHOW COMPLIANCE WITH THE LIMITATIONS SPECIFIED IN THIS PERMIT. SUCH RECORDS SHALL BE MAINTAINED AND KEPT ON FILE FOR AT LEAST FIVE YEARS AND SHALL BE MADE AVAILABLE TO THE EXECUTIVE OFFICER OR HIS AUTHORIZED REPRESENTATIVE UPON REQUEST.  
[RULE 463, RULE 1149, RULE 1303(b)(2)-OFFSET, RULE 1401, 40 CFR 60 SUBPART Kb, 40 CFR 63 SUBPART BBBB]
9. THE OPERATOR SHALL PROVIDE TO THE DISTRICT, NO LATER THAN 60 DAYS AFTER INITIAL STARTUP, A RECALCULATION OF THE FUGITIVE EMISSIONS BASED ON ACTUAL COMPONENTS INSTALLED AND REMOVED FROM SERVICE. THE OPERATOR SHALL ALSO PROVIDE COMPLETE, AS BUILT, PIPING AND INSTRUMENTATION DIAGRAM(S) AND COPIES OF REQUISITION DATA SHEETS FOR ALL NON-LEAKLESS VALVES WITH A LISTING OF TAG NUMBERS.  
[RULE 1303(b)(2)-OFFSET]
10. ALL NEW VALVES AND MAJOR COMPONENTS IN VOC SERVICE AS DEFINED BY RULE 1173, EXCEPT THOSE SPECIFICALLY EXEMPTED BY RULE 1173 SHALL BE DISTINCTLY IDENTIFIED FROM OTHER COMPONENTS THROUGH THEIR TAG NUMBERS (E.G., NUMBERS ENDING IN THE LETTER "N"), AND SHALL BE NOTED IN THE RECORDS.  
[RULE 1173, 1303(a)(1)-BACT]
11. ALL NEW COMPONENTS IN VOC SERVICE AS DEFINED IN RULE 1173, EXCEPT VALVES AND FLANGES, SHALL BE INSPECTED QUARTERLY USING EPA REFERENCE METHOD 21. ALL NEW VALVES AND FLANGES IN VOC SERVICE, EXCEPT THOSE SPECIFICALLY EXEMPTED BY RULE 1173, SHALL BE INSPECTED MONTHLY USING EPA METHOD 21.  
[RULE 1173]
12. IF 98.0 PERCENT OR GREATER OF THE NEW (NON-LEAKLESS TYPE) VALVES AND THE NEW FLANGE POPULATION INSPECTED IS FOUND TO LEAK GASEOUS OR LIQUID VOLATILE ORGANIC COMPOUNDS AT A RATE LESS THAN 200 PPMV FOR TWO CONSECUTIVE MONTHS, THEN THE OPERATOR MAY CHANGE TO A QUARTERLY INSPECTION PROGRAM WITH THE APPROVAL OF THE DISTRICT.  
[RULE 1173, 1303(a)(1)-BACT EXEMPTION, 1303(b)(2)-OFFSET]

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13. ALL NEW COMPONENTS IN VOC SERVICE WITH A LEAK GREATER THAN 200 PPMV BUT LESS THAN 1,000 PPMV, AS METHANE, MEASURED ABOVE BACKGROUND USING EPA METHOD 21 SHALL BE REPAIRED WITHIN 14 DAYS OF DETECTION. COMPONENTS SHALL BE DEFINED AS ANY VALVE, FITTING, PUMP, COMPRESSOR, PRESSURE RELIEF VALVE DEVICE, DIAPHRAGM, HATCH, SIGHT-GLASS, AND METER, WHICH ARE NOT EXEMPTED BY RULE 1173.  
[RULE 1173, 1303(a)(1)-BACT EXEMPTION, 1303(b)(2)-OFFSET]
  
14. THE OPERATOR SHALL KEEP RECORDS OF THE MONTHLY INSPECTION (QUARTERLY WHERE APPLICABLE), SUBSEQUENT REPAIR, AND RE-INSPECTION, IN A MANNER APPROVED BY THE DISTRICT. RECORDS SHALL BE KEPT AND MAINTAINED FOR AT LEAST TWO YEARS, AND SHALL BE MADE AVAILABLE TO THE EXECUTIVE OFFICER OR HIS AUTHORIZED REPRESENTATIVE UPON REQUEST.  
[RULE 1173]
  
15. FINAL DRAWINGS AND/ OR SPECIFICATIONS OF THIS EQUIPMENT INSTALLED/ CONSTRUCTED SHALL BE SUBMITTED TO THE DISTRICT WITHIN 60 DAYS PRIOR TO THE OPERATION OF THE EQUIPMENT. THIS SUBMISSION SHALL ALSO INCLUDE FINAL INSTALLED FUGITIVE COMPONENT COUNTS.  
[RULE 1173, 1303(b)(2)-OFFSET]
  
16. PRIOR TO PLACING TANK 477 IN SERVICE, APPLICANT SHALL SUBMIT A RULE 463 PLAN MODIFICATION APPLICATION TO INCLUDE TANK 477.  
[RULE 204, RULE 463]

**PERIODIC MONITORING: NONE**

**EMISSIONS AND REQUIREMENTS:**

17. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
  - VOC:           RULE 463
  - VOC:           RULE 1149
  - VOC:           RULE 1173
  - VOC:           40 CFR 60 SUBPART KB
  - HAP/TOC:      40 CFR 63 SUBPART BBBB