

**TECHNICAL REVIEW: STANDARD PERMIT FOR
INSTALLATION AND/OR MODIFICATION OF OIL AND GAS FACILITIES**

Permit No.:	177429	Company Name:	Tejon Treating And Carbon Solutions LLC	APD Reviewer:	Mr. Thomas Greinert
Project No.:	379361	Site/Area Name:	Signal Peak Compressor Station	SP No.:	6002 - 116.620 PRE 2011-FEB-27

GENERAL INFORMATION			
Regulated Entity No.:	RN112039995	Project Type:	Standard Permit Application
Customer Reference No.:	CN606301711	Date Received by TCEQ:	September 5, 2024
City/County:	Big Spring, Howard County	Date Received by Reviewer:	September 6, 2024
Physical Location:	from big spring tx, on i-20. turn south on on south moss lake road for 5.13 miles to site		

CONTACT INFORMATION			
Responsible Official/Primary Contact Name and Title:	Brad M Rogers EH&S Manager	Phone No.: Fax No.:	(303) 893-2503 Email: BROGERS@BAYSWATER.US
Technical Contact/Consultant Name and Title:	Mark Martelli PE Senior Engineer	Phone No.: Fax No.:	(972) 951-4164 Email: MARK.MARTELLI@FLATROCKENERGY.NET

Compliance History Evaluation - 30 TAC Chapter 60 Rules	
A compliance history report was reviewed on:	September 18, 2024
Site rating & classification:	N/A
Company rating & classification:	N/A
If site was rated unsatisfactory, what action(s) occurred as a result:	N/A

GENERAL RULES CHECK	YES	NO	COMMENTS
Is confidential information included in the application?		X	
Has the standard permit fee been paid?	X		720053 / 582EA000624241
Are there associated NSR or Title V permits at the site?		X	
Is the application for renewal of an existing standard permit?		X	
Do NSPS, NESHAP, or MACT standards apply to this registration?	X		NSPS OOOOb; MACT HH
Is the following documentation included with this registration? 1. The General Requirements Checklist demonstrating compliance with 30 TAC §§ 116.110 and 116.601-615 2. Process description 3. Project description 4. Descriptions of any equipment being installed 5. Emissions calculations including the basis of the calculations 6. Emission increases and/or decreases associated with this project (quantified) 7. Description of efforts to minimize any collateral emissions or collateral increases	X		
Are any requirements of 116.110 circumvented by: (1) artificially limiting feed or production rates below the maximum capacity of the project's equipment; (2) claiming a limited chemical list; or (3) dividing and registering a project in separate segments?		X	

STANDARD PERMIT RULES CHECK:	YES	NO	COMMENTS
Does the facility meet the § 116.14(2) definition of an Oil & Gas facility?	X		
Are there any net increases in emissions associated with this registration?	X		See 261/262 Table below
Does the facility vent or flare more than 0.3 long tons of sulfur (other than Sulfur Dioxide) per day?		X	
Are all emissions of sulfur compounds (other than SO2 and fugitives) controlled?		X	Emission rate: ≤4 lb/hr
Are all vents that emit sulfur compounds (other than SO2 and fugitives) to the atmosphere at least 20 feet above ground level (excluding emergency safety relief valves)?	X		List vent heights: ≥20 ft
Are there new or modified internal combustion reciprocating engines or gas turbines at the facility?		X	
Is there a natural gas glycol dehydration unit at the site that emits >10 tpy of VOCs?		X	

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Are any combustion units with a design maximum heat input value > 40 MBtu/hr at the site (other than flares, internal combustion engines, or natural gas turbines)?		X																
Are VOC process fugitive emissions uncontrolled?	X		<table><tr><th>VOCs (tpy)</th><th>receptor < 500'</th><th>receptor ≥500'</th></tr><tr><td><input checked="" type="checkbox"/> <10</td><td>no LDAR</td><td>no LDAR</td></tr><tr><td><input type="checkbox"/> 10≤25</td><td>28M [(c)(1)]</td><td>no LDAR</td></tr><tr><td><input type="checkbox"/> 25≤40</td><td>28VHP [(c)(2)]</td><td>28M [(c)(1)]</td></tr><tr><td><input type="checkbox"/> >40</td><td>28VHP [(c)(2)]</td><td>28VHP [(c)(2)]</td></tr></table>	VOCs (tpy)	receptor < 500'	receptor ≥500'	<input checked="" type="checkbox"/> <10	no LDAR	no LDAR	<input type="checkbox"/> 10≤25	28M [(c)(1)]	no LDAR	<input type="checkbox"/> 25≤40	28VHP [(c)(2)]	28M [(c)(1)]	<input type="checkbox"/> >40	28VHP [(c)(2)]	28VHP [(c)(2)]
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Are all components in sweet crude oil or gas service (defined in 30 TAC Chapter 101)?		X	<table><tr><th>RECEPTOR</th><th>APPLICABLE REQUIREMENT</th></tr><tr><td><input type="checkbox"/> < ¼ mile</td><td>§ 116.620(c)(3)</td></tr><tr><td><input checked="" type="checkbox"/> ≥ ¼ mile</td><td>§ 116.620 (c)(3) or (e)(1)</td></tr></table>	RECEPTOR	APPLICABLE REQUIREMENT	<input type="checkbox"/> < ¼ mile	§ 116.620(c)(3)	<input checked="" type="checkbox"/> ≥ ¼ mile	§ 116.620 (c)(3) or (e)(1)									
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Are there flares at the facility?	X		The flare will be designed and operated in accordance with 40 CFR §60.18.															
Is a flare the only combustion unit at the site?		X	<i>If NO, mark the fuel type for all combustion units.</i> <input type="checkbox"/> sweet natural gas <input type="checkbox"/> liquid petroleum gas <input checked="" type="checkbox"/> fuel gas ≤10 grains total sulfur/100 dscf <input type="checkbox"/> field gas ≤1.5 grains H ₂ S/100 dcfm or ≤30 grains total sulfur/100 dscf <input type="checkbox"/> field gas >1.5 grains H ₂ S/100 dcfm or >30 grains total sulfur/100 dscf (recordkeeping requirements of § 116.620(a)(18) applicable)															
Are all storage tanks onsite either (1) pressurized; (2) < 25,000 gallons in size; or (3) used for storage of compounds with vapor pressures < 0.5 psia?	X																	
Are there any fixed roof storage tanks onsite that emit > 10 tpy VOCs or sulfur compounds?		X																

FEDERAL STANDARDS APPLICABILITY			
Applicable Rule(s) :	Y	NA	Explanation of how it meets (if applicable), or why it isn't applicable:
NSPS Subpart OOOOb	X		Tanks and fugitives are subject to OOOOb. The site will comply with requirements within 30 days of startup.
MACT Subpart HH	X		The TEG dehydration unit at this facility is considered an affected area source, but it is exempt from the requirements of § 63.764(d)(2) since the actual average emissions of benzene from the glycol dehydration unit process vent to the atmosphere are less than 0.90 Mg (1.0 TPY), as determined by the procedures specified in § 63.772(b)(2). However, the facility must maintain records of the de minimis determination as required in § 63.774(d)(1). Tejon will comply with all applicable requirements.

DESCRIBE OVERALL PROCESS AT THE SITE
<p>Sour natural gas from the inlet separators/slug catchers is compressed by four (4) electric motor driven compressors prior to entering the glycol dehydration unit (DEHY-1). Wet gas from compressor discharge is dehydrated by the electric glycol dehydration unit (DEHY-1) prior to exiting the site via a gas pipeline. The dehydration unit flash tank vapors are recycled back to compressor suction. Regenerator still overhead vent gas enters the BTEX condenser. Non-condensables from the BTEX condenser are recycled back to compressor suction via a vapor recovery unit (VRU).</p> <p>Condensate/produced water tanks are trucked from the facility via tank trucks that have been leak tested. The redundant VRU will recycle tank and truck loading vapors back to inlet compressor suction. The combustor will control tank and truck loading vapors.</p> <p>The standard flare burns gas from pressure safety valves (PSVs), inlet gas compressor packing vents, and any other blowdowns. In addition, there are emissions from fugitive sources.</p>

DESCRIBE PROJECT AND INVOLVED PROCESS
Tejon Treating and Carbon Solutions LLC has chosen to certify their site and emissions under rule 116.620 using a PI-1S.

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TECHNICAL SUMMARY - DESCRIBE HOW THE PROJECT MEETS THE RULES

§116.610 Applicability

This standard permit includes all facilities at this site and conditions (a)-(d) are met.

§116.611 Registration to Use a Standard Permit

All required documentation has been submitted. All of conditions (a)-(c) are met.

§116.614 Standard Permit Fees

The \$900 fee has been submitted.

§116.615 General Conditions

All of general conditions (1)-(10) will be met.

§116.620 Installation and/or Modification of Oil and Gas Facilities

This site meets all conditions (a)-(d) of the oil and gas standard permit.

§§106.261 / 106.262 Compliance

A 261/262 table has been submitted demonstrating compliance.

CONTROL DEVICE(S)

Flare	Destruction Efficiency:	98%	Controls what?	Pressure safety valves and inlet gas compressor packing vents
Combustor	Destruction Efficiency:	98%	Controls what?	Tanks and truck loading

D=3,000 and K=8

PBR 106.261 and 106.262 Emission Limits




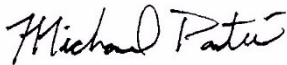
Chemical	PBR Claimed	L, mg/m ³	Emission Limit (E = L/K), lb/hr	Emission Limit tpy	Actual Emissions lb/hr	Actual Emissions tpy
Hydrogen sulfide	106.262	10 [Per 116.620(a)(17)]	1.25	5.00	0.23	0.98
Propane	106.261(a)(2)	-	6.00	10.00	0.30	1.26
Butane	106.261(a)(2)	-	6.00	10.00	0.24	0.99
Pentane	106.262	350	6.00	5.00	0.17	0.69
n-Hexane	106.262	176	6.00	5.00	0.04	0.15
Isohexane	106.261(a)(2)	-	6.00	10.00	0.10	0.41
Heptane	106.262	350	6.00	5.00	0.14	0.62
Octane	106.262	350	6.00	5.00	0.11	0.46
Nonanes	106.261(a)(2)	-	6.00	10.00	0.05	0.24
Decane+	106.261(a)(3)	-	1.00	4.38	0.02	0.09
Benzene	106.262	3	0.38	1.64	0.03	0.12
Toluene	106.262	188	6.00	5.00	0.07	0.31
Ethylbenzene	106.262	434	6.00	5.00	<0.01	0.02
Xylenes	106.262	434	6.00	5.00	0.01	0.04
Total VOC Emissions:					1.28	5.40
Total H₂S Emissions					0.23	0.98

Note: Discrepancy between speciation and VOC emission totals is due to rounding.

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MAXIMUM ALLOWABLE EMISSION RATES TABLE (MAERT)												
EPN / Emission Source	NOx		CO		VOC		SO ₂		PM/PM ₁₀ /PM _{2.5}		H ₂ S	
	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy
FL-8100 / Combustor	0.07	0.27	0.12	0.47	0.14	0.46	1.08	2.41	<0.01	<0.01	0.01	0.03
FL-8200 / Flare	0.08	0.36	0.15	0.66	0.11	0.48	1.29	5.63	<0.01	<0.01	0.01	0.06
TL-1 / Condensate/Water Loading	-	-	-	-	0.03	0.01	-	-	-	-	<0.01	<0.01
FUG / Fugitives	-	-	-	-	1.03	4.50	-	-	-	-	0.20	0.89
TOTAL EMISSIONS (TPY):	-	0.63	-	1.13	-	5.46	-	8.04	-	0.01	-	0.98
MAXIMUM OPERATING SCHEDULE: Hours/Year												8,760

	TECHNICAL REVIEWER	PEER REVIEWER	FINAL REVIEWER
SIGNATURE:		 	
PRINTED NAME:	Thomas Greinert	Trishia McDonald, Team Leader	Michael Partee, Manager
DATE:	9/25/2024	9/25/2024	9/26/2024