

TECHNICAL REVIEW: Oil and Gas Checklist

Permit No.:	168994	Company Name:	Targa Frio LaSalle Pipeline LP	APD Reviewer:	Ms. Celine Rosales
Project No.:	379123	Unit Name:	Hat Creek Compressor Station	PBR No(s).:	106.492, 106.512, 106.352 2012-NOV-22, 106.359

GENERAL INFORMATION			
Regulated Entity No.:	RN111496576	Date Received by TCEQ:	August 30, 2024
Customer Reference No.:	CN604671388	Date Received by Reviewer:	September 3, 2024
City/County:	Derby, Frio County	Physical Location:	4.8 miles west of Derby, TX on FM 4425

CONTACT INFORMATION					
Responsible Official/ Primary Contact Name and Title:	Dwayne Burks Vice President Operations	Phone No.:	(918) 574-3862	Email:	HBURKS@TARGARESOURCES.COM
Technical Contact/ Consultant Name and Title:	Spencer Roberts Sr Environmental Specialist	Phone No.:	(713) 584-1172	Email:	SPENCER.ROBERTS@TARGARESOURCES.COM

GENERAL PROJECT INFORMATION	YES	NO	COMMENTS
Is confidential information included in the application?		X	
Are there affected NSR or Title V permits for the project?		X	
Are there permit limits on using PBRs at the site?		X	
Is PSD or Nonattainment netting required?		X	
Has the fee been paid?	X		719497 / 582EA000623716
Was an impacts evaluation required for the project?	X		Impacts Analyses were provided for Sitewide NOx; TCEQ Generic Modeling Results Table 5D and Table 2 and Screen3
Have MSS emissions been accounted for in site-wide totals?	X		MSS is being certified under 106.359
Site Specific Analysis used?	X		
Are all vents ≥ 20 ft, and meet 352(l)(4) as applicable?	X		Flare: 60 ft; All other vents: ≥20 ft

Compliance History Evaluation - 30 TAC Chapter 60 Rules	
A compliance history report was reviewed on:	September 4, 2024
Site rating & classification:	Unclassified
Company rating & classification:	2.83 / Satisfactory

PROJECT RULES	How was rule compliance demonstrated? (i.e., checklist, rule language, etc.)
106.352	Compliance demonstrated through line by line confirmation of rule applicability.
106.359	MSS is being certified under 106.359.
106.492	Compliance demonstrated through line by line confirmation of rule applicability.
106.512	Compliance demonstrated through line by line confirmation of rule applicability.

DESCRIBE THE OVERALL PROCESS AT THE SITE
<p>The Hat Creek Compressor Station is a natural gas compressor station that compresses natural gas from gathering lines and sends the gas through three (3) natural gas-fired compressor engines (EPNs C-1, C-2b, and C-3a) to increase the pressure of the gas to be sent down the pipeline. Compressor C-1 serves incoming lift gas in sweet service and fuel gas, while the remaining compressors operate in the sour gas service.</p> <p>Liquids from the inlet separator are collected and stored in two (2) 400-barrel (bbl) storage tanks (FINs: TK-1 and TK-2), then loaded into tank trucks for outside disposal (FIN: TL-1). A process flare (EPN: FL-1) is used to control captured emissions from the atmospheric storage tanks and truck loading.</p> <p>Additional sources include miscellaneous tanks at the site that store methanol, lube oil, and coolant (EPNs: TK-3, TK-201 – TK-205), and sitewide fugitives from equipment leaks (EPN: FUG). Planned MSS emissions including compressor blowdowns (FIN: CB), filter/separator blowdowns (FIN: FB), slug catcher blowdowns (FIN: SB), tank degassing (FIN: TM), and pigging and purging pipeline MSS (FIN: PIG), are routed to the flare (EPN: FL-</p>

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1) for destruction.

Low-emitting MSS activities (FIN: MSS-MISC) and miscellaneous surface coating and abrasive blasting operations (FIN: SCAB) are also authorized at the site with emissions vented directly to the atmosphere (EPN: MSS).

DESCRIBE THE PROJECT

Targa Frio LaSalle is revising the certified emissions for this site under 106.352(l), 106.359, 106.492, and 106.512 using a PI-7 CERT.

Changes associated with this amendment are as follows:

- Revise inlet gas H2S concentration from 3,000 ppmv to 7,240 ppmv to account for anticipated upstream changes
- Update the PM emission factors used for the engines on-site
- Update the truck loading mode of operation from dedicated normal service to dedicated vapor balanced service

FEDERAL STANDARDS APPLICABILITY

Applicable Rule(s) :	Y	NA	Explanation of how it meets (if applicable), or why it isn't applicable:
NSPS Subpart A	X		Company will comply with this subpart.
NSPS Subpart JJJJ	X		Engine C-3a is subject to this subpart and will comply as applicable.
NSPS Subpart OOOOa	X		Compliance with applicable requirements will be maintained within the required timeframes outlined in this subpart. Reciprocating compressors RC-1, RC-2, and EPN RC-3a, (driven by FIN/EPN: C-1, C-2b, and C-3a) are affected facilities under this subpart.
NSPS Subpart OOOOb	X		Fugitive piping components at this site were modified after December 6, 2022. These facilities will comply with all applicable requirements.
MACT Subpart ZZZZ	X		All engines will comply.

SITE INFORMATION

What is the Natural Gas Throughput?	97	MMSCF/day
What is the Oil/Condensate Throughput?	69	bbl/day
Site specific H2S content of inlet gas (ppm)	7,240	ppm
If sour, provide distance (ft.) to nearest off property receptor.	>5,280	ft.

FACILITY INFORMATION

Equipment:	# of each	Calculation Methodology
Compressor Engines	3	(1) Caterpillar G3512TALE, (2) Caterpillar G3516; Manufacturer Specs, AP-42
Storage Tanks	8	(2) 400 bbl condensate tanks, (1) 220 bbl methanol tank, (5) 520 gal misc. storage tanks; ProMax
Flares	1	TCEQ guidance document "NSR Emission Calculations"; AP-42
Separators	Y	-
Truck Loading	Y	AP-42
Fugitives	Y	TCEQ's Air Permit Technical Guidance for Chemical Sources - Fugitive Guidance
MSS	Y	MSS is being certified under 106.359

CONTROL DEVICE(S)

Flare	Destruction Efficiency:	98%	Controls what?	Condensate storage tanks, condensate loading, various MSS activities including
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				blowdowns, tank maintenance, pigging and purging
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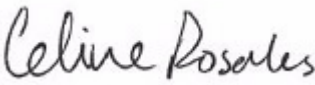

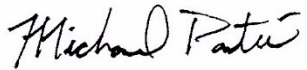
ENGINE INFORMATION	YES	NO	COMMENTS
Was NOx/NAAQs compliance demonstrated?	X		NAAQS compliance was demonstrated with SCREEN3 modeling.
HCHO included in VOC total?	X		
Was a Catalyst Used?	X		EPNs: C-2b, C-3a - Oxidation Catalyst

ESTIMATED EMISSIONS															
EPN / Emission Source		VOC		NOx		CO		PM/PM _{2.5} /PM ₁₀		SO ₂		H ₂ S		HAPs	
		lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy
Revised Emissions															
C-1 / Caterpillar G3512TALE		0.94	4.12	4.43	19.39	4.43	19.39	<0.01	0.01	<0.01	0.02	--	--	0.43	1.87
C-2b / Caterpillar G3516		1.26	5.50	5.91	25.88	5.91	25.87	<0.01	0.02	0.01	0.03	--	--	0.59	2.59
C-3a / Caterpillar G3516		0.97	4.27	5.91	25.88	5.91	25.88	<0.01	0.02	0.01	0.03	--	--	0.42	1.85
FL-1	Condensate Storage Tanks	0.57	1.62	0.11	0.29	0.21	0.58	0.01	0.02	1.61	6.24	0.02	0.07	0.04	0.10
	Condensate Loading -Controlled Emissions	2.02	0.12	0.27	0.02	0.55	0.03	0.01	<0.01	0.09	0.01	<0.01	<0.01	0.30	0.02
	Flare Pilot Gas	0.02	0.07	0.01	0.04	0.02	0.08	<0.01	<0.01	0.07	0.29	<0.01	<0.01	<0.01	<0.01
	MSS-Vented to Flare	5.66	0.30	3.53	0.18	7.04	0.37	0.19	0.01	24.08	1.25	0.26	0.01	0.19	0.01
TL-1 / Condensate Loading -Uncollected Emissions		43.38	2.64	--	--	--	--	--	--	--	--	0.02	<0.01	6.35	0.39
FUG / Piping Component Fugitives		0.60	2.64	--	--	--	--	--	--	--	--	0.01	0.06	0.05	0.23
MSS / MSS-Vented to Atmosphere		0.08	0.60	--	--	--	--	0.13	0.01	--	--	--	--	--	--
Unchanging Emissions															
TK-3	Methanol Storage Tank	2.26	<0.01	--	--	--	--	--	--	--	--	--	--	2.26	<0.01
TK-201	Lube Oil Tank	<0.01	<0.01	--	--	--	--	--	--	--	--	--	--	<0.01	<0.01
TK-202	Coolant Tank	<0.01	<0.01	--	--	--	--	--	--	--	--	--	--	<0.01	<0.01
TK-203	Lube Oil Tank	<0.01	<0.01	--	--	--	--	--	--	--	--	--	--	<0.01	<0.01
TK-204	Lube Oil Tank	<0.01	<0.01	--	--	--	--	--	--	--	--	--	--	<0.01	<0.01
TK-205	Lube Oil Tank	<0.01	<0.01	--	--	--	--	--	--	--	--	--	--	<0.01	<0.01
TOTAL EMISSIONS (TPY):		--	21.89	--	71.68	--	72.21	--	0.08	--	7.87	--	0.14	--	7.07
MAXIMUM OPERATING SCHEDULE:		Hours/Year											8,760		

Note: Formaldehyde is included in VOC totals.

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	TECHNICAL REVIEWER	PEER REVIEWER	FINAL REVIEWER
SIGNATURE:			
PRINTED NAME:	Celine Rosales, Reviewer	Trishia McDonald, Team Lead	Michael Partee, Manager
DATE:	09/20/2024	09/20/2024	09/23/2024