

TECHNICAL REVIEW: Oil and Gas Checklist

Permit No.:	177720	Company Name:	Blackfin Pipeline, LLC	APD Reviewer:	Ms. Celine Rosales
Project No.:	380809	Unit Name:	Burleigh Compressor Station	PBR No(s).:	106.511, 106.512, 106.352 2012-NOV-22, 106.359

GENERAL INFORMATION			
Regulated Entity No.:	RN112055496	Date Received by TCEQ:	September 27, 2024
Customer Reference No.:	CN606266211	Date Received by Reviewer:	September 30, 2024
City/County:	Burleigh, Austin County	Physical Location:	from the intersection of fm 529 and south fm 331 rd, travel 2.3 miles on south fm 331. turn left onto steck bottom rd and travel 0.5 mile to the site on the left-hand-side of the road.

CONTACT INFORMATION					
Responsible Official/ Primary Contact Name and Title:	Caleb Ryan Chief Operating Officer	Phone No.:	(512) 953-2105	Email:	CALEB@WWM-LLC.COM
Technical Contact/ Consultant Name and Title:	Scott Wolverton Project Manager	Phone No.:	(913) 424-0035	Email:	SWOLVERTON@WWM-LLC.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	Company confirmed Title V application will be submitted for this site.
Are there permit limits on using PBRs at the site?		X	
Is PSD or Nonattainment netting required?		X	
Has the fee been paid?	X		723172 / 582EA000627127
Was an impacts evaluation required for the project?	X		
Have MSS emissions been accounted for in site-wide totals?	X		MSS is being certified under 106.359
Site Specific Analysis used?		X	Representative analysis meets TCEQ criteria.

Compliance History Evaluation - 30 TAC Chapter 60 Rules	
A compliance history report was reviewed on:	October 1, 2024
Site rating & classification:	N/A
Company rating & classification:	Unclassified

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.
106.511	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
The Burleigh Compressor Station is a natural gas compressor station. Residue gas from gas processing plants is received and transferred by pipeline to the Burleigh Compressor Station. After the gas enters the station, it passes through an inlet scrubber where wastewater is separated from the inlet gas. The only liquids expected to be dropped out of the separator are small volumes of wastewater. After passing through the inlet scrubber, inlet gas is routed to the compressor system, which consists of the four turbines (EPNs: TURB1, TURB2, TURB3, TURB4). The proposed turbines will be four (4) new and identical Solar® Titan 250 gas turbine-driven compressor units. Each turbine drives a centrifugal compressor, which recompresses the natural gas. Increasing the pressure of the natural gas creates the energy needed to move the gas through the transmission pipeline. The turbines will use natural gas from the pipeline as fuel. The new turbines will have a simple cycle design and will be built with the SoLoNOXTM dry low emissions (DLE) technology. Solar®'s proprietary

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SoLoNOXTM dry emissions system will reduce pollution by limiting the formation of NOX, CO, and unburned hydrocarbons (UHC) to meet emission regulations. Emissions of SO2 and PM/PM10/PM2.5 will be minimized through the use of pipeline quality natural gas. The compressed, dry, sweet gas will leave the facility through the discharge pipeline. There may be some wastewater that falls out of the sealable natural gas coming from upstream compression, and this wastewater is collected and stored in the wastewater tank (EPN: WWTK). A small quantity of lube oil (EPN: LUBETK) is stored on site and used as lubricant. Diesel is also stored on site for fuel for the emergency generator (EPN: DIESELTK).

Additional sources include a diesel fired emergency engine and sitewide fugitives from equipment leaks (EPNs: EMERGEN1 and FUG, respectively). Planned MSS emissions including compressor blowdowns (FIN: BLDWN), pipeline blowdowns (FIN: PIPEBD), turbine start-up/shutdown events (FIN: MSS-TURBINE), miscellaneous surface coating and abrasive blasting operations (FIN: SCAB), and low-emitting MSS activities (FIN: MSS-MISC) are also authorized at the site. All MSS emissions are vented directly to the atmosphere (EPN: MSS).

DESCRIBE THE PROJECT

Blackfin Pipeline is certifying site emissions under 106.352(l), 106.359, 106.511, and 106.512 using a PI-7-CERT.

FEDERAL STANDARDS APPLICABILITY

<i>Applicable Rule(s) :</i>	Y	NA	<i>Explanation of how it meets (if applicable), or why it isn't applicable:</i>
NSPS Subpart A	X		Company will comply with this subpart.
NSPS Subpart IIII	X		The diesel emergency generator engine at this site is subject to this subpart and will comply as applicable.
NSPS Subpart JJJJ		X	This site does not operate an affected facility under this subpart; therefore, this subpart does not apply.
NSPS Subpart KKKK	X		This site includes stationary combustion turbines with a maximum load ≥ 10 MMBtu/hr and commenced construction, modification, or reconstruction after February 18, 2005; therefore, the turbines are subject to this subpart per §60.4305(a). Compliance with the applicable testing, reporting, monitoring, and recordkeeping requirements of this subpart will be maintained.
NSPS Subpart OOOOa		X	All potentially affected facilities were constructed after September 18, 2015; therefore, this subpart does not apply.
NSPS Subpart OOOOb	X		Affected facilities at this site were constructed or modified after December 6, 2022. These facilities will comply with all applicable requirements.
MACT Subpart YYYY		X	This site includes stationary combustion turbines constructed, modified or reconstructed after January 14, 2003 and located at an area source of HAP emissions. Per §63.6085, the turbines are not affected facilities under this subpart; therefore, this subpart does not apply.
MACT Subpart ZZZZ	X		The diesel generator engine at this site as subject to this subpart and will comply with all applicable requirements.

SITE INFORMATION

What is the Natural Gas Throughput?	3,300	MMSCF/day
What is the Produced Water Throughput?	0	bbl/yr
Site specific H2S content of inlet gas (ppm)	<24	ppm

FACILITY INFORMATION

Equipment:	# of each	Calculation Methodology
Compressor Turbines	4	(4) 30,079hp simple cycle turbines; AP-42; Manufacture data; EPA Factors
Compressor Engines	1	(1) 2,150hp emergency diesel generator; AP-42; Manufacture data
Storage Tanks	3	(1) wastewater tank, (1) diesel fuel storage tank, (1) lube oil tank; AP-42; TCEQ guidance document "Estimating Short Term Emission Rates from Fixed Roof Tanks"
Separators	Y	--

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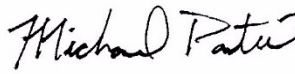
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Truck Loading	Y	AP-42
Fugitives	Y	TCEQ's Air Permit Technical Guidance for Chemical Sources - Fugitive Guidance
MSS	Y	MSS is being certified under 106.359

ENGINE INFORMATION	YES	NO	COMMENTS
Was NOx/NAAQs compliance demonstrated?	X		Screen3 and TCEQ's Generic Modeling Results Tables
HCHO included in VOC total?	X		
Was a Catalyst Used?		X	

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
TURB1 / Solar Titan 250 Turbine 1	0.74	3.24	11.73	51.38	11.90	52.14	0.06	0.26	0.67	2.93	--	--	0.12	0.51
TURB2 / Solar Titan 250 Turbine 2	0.74	3.24	11.73	51.38	11.90	52.14	0.06	0.26	0.67	2.93	--	--	0.12	0.51
TURB3 / Solar Titan 250 Turbine 3	0.74	3.24	11.73	51.38	11.90	52.14	0.06	0.26	0.67	2.93	--	--	0.12	0.51
TURB4 / Solar Titan 250 Turbine 4	0.74	3.24	11.73	51.38	11.90	52.14	0.06	0.26	0.67	2.93	--	--	0.12	0.51
EMGEN1 / Emergency Generator Engine	0.67	0.03	31.09	1.55	2.56	0.13	1.32	0.07	19.10	0.95	--	--	0.03	<0.01
WWTK / Wastewater Tank	0.24	<0.01	--	--	--	--	--	--	--	--	--	--	--	--
DIESELTK / Diesel Fuel Storage Tank	0.15	<0.01	--	--	--	--	--	--	--	--	--	--	--	--
LUBETK / Lube Oil Tank	<0.01	<0.01	--	--	--	--	--	--	--	--	--	--	--	--
WWTL / Wastewater Loading	0.28	<0.01	--	--	--	--	--	--	--	--	--	--	--	--
MSS	Compressor Blowdowns	65.35	3.76	--	--	--	--	--	--	--	0.19	0.01	--	--
	Turbine Start-up/ Shutdown Events	4.00	0.29	2.00	0.14	45.00	3.24	--	--	--	--	--	--	--
	Pipeline Maintenance & Blowdowns	282.21	0.71	--	--	--	--	--	--	--	0.82	<0.01	--	--
	Miscellaneous MSS Activities	0.06	0.25	--	--	--	--	--	--	--	--	--	<0.01	0.01
SCAB / Surface Coating & Blasting		0.08	0.35	--	--	--	--	0.13	0.01	--	--	--	--	--
FUG / Piping Component Fugitives		0.12	0.52	--	--	--	--	--	--	--	<0.01	<0.01	--	--
TOTAL EMISSIONS (TPY):		--	18.87	--	207.21	--	211.93	--	1.12	--	12.67	--	0.01	2.05
MAXIMUM OPERATING SCHEDULE:											Hours/Year		8,760	

Note: HCHO is included in VOC totals.

	TECHNICAL REVIEWER	PEER REVIEWER	FINAL REVIEWER
SIGNATURE:			
PRINTED NAME:	Celine Rosales, Reviewer	Trishia McDonald, Team Lead	Michael Partee, Manager
DATE:	10/14/2024	10/15/2024	10/15/2024