Permit Number 151476, PSDTX1536, GHGPSDTX179

This table lists the maximum allowable emission rates of greenhouse gas (GHG) emissions, as defined in Title 30 Texas Administrative Code § 101.1, for all sources of GHG air contaminants on the applicant's property that are authorized by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities authorized by this permit.

Air Contaminants Data

Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		
			lbs/hour	TPY (4)	
MVCU 1	Marine Loading Vapor	VOC	7.60	-	
	Combustor 1	NO _x	5.02	-	
		СО	3.77	-	
		PM	1.97	-	
		PM ₁₀	1.97	-	
		PM _{2.5}	1.97	-	
		SO ₂	10.23	-	
		H₂S	<0.01	-	
		CO ₂ (6)	41,247	-	
		CH ₄ (6)	1.66	-	
		N ₂ O (6)	0.33	-	
		CO₂e	41,388	-	
MVCU 2	Marine Loading Vapor Combustor 2	VOC	7.60	-	
		NO _x	5.02	-	
		СО	3.77	-	
		PM	1.97	-	
		PM ₁₀	1.97	-	
		PM _{2.5}	1.97	-	
		SO ₂	10.23	-	
		H₂S	<0.01	-	
		CO ₂ (6)	41,247	-	
		CH ₄ (6)	1.66	-	
		N ₂ O (6)	0.33	-	
		CO₂e	41,388	-	

Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)

MVCU 3	Marine Loading Vapor Combustor 3	VOC	7.60	-
		NO _x	5.02	-
		СО	3.77	-
		PM	1.97	-
		PM ₁₀	1.97	-
		PM _{2.5}	1.97	-
		SO ₂	10.23	-
		H₂S	<0.01	-
		CO ₂ (6)	41,247	-
		CH ₄ (6)	1.66	-
		N ₂ O (6)	0.33	-
		CO₂e	41,388	-
MVCU 4	Marine Loading Vapor Combustor 4	VOC	7.60	-
		NO _x	5.02	-
		СО	3.77	-
		PM	1.97	-
		PM ₁₀	1.97	-
		PM _{2.5}	1.97	-
		SO ₂	10.23	-
		H₂S	<0.01	-
		CO ₂ (6)	41,247	-
		CH ₄ (6)	1.66	-
		N ₂ O (6)	0.33	-
		CO₂e	41,388	-

Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rate	
			lbs/hour	TPY (4)
MLVCU 1	nevr0Num2ber: 318502mbustor – Annual Cap ILVCU 3	VOC	-	26.82
Problev 10 Number: 31 MLVCU 3		NO _x	-	20.87
MLVCU 4		СО	-	15.65
		DM		0.40

		PM _{2.5}	-	8.18	
		SO ₂	-	35.75	
		H₂S	-	0.02	
		CO ₂ (6)	-	171,485	
		CH ₄ (6)	-	6.90	
		N ₂ O (6)	-	1.38	
		CO₂e	-	172,069	
ML_FUG 1	Marine Loading Fugitives Berth1	VOC	24.35	26.14	
ML_FUG 2	and Berth2 - CAP	H ₂ S	0.02	0.02	
FUG	Fugitives (5)	VOC	5.36	23.49	
		H ₂ S	<0.01	0.02	
TK-1001	Storage Tank TK-1001	VOC	13.96	4.83	
		H ₂ S	<0.01	<0.01	
TK-1002	Storage Tank TK-1002	VOC	13.96	4.83	
		H ₂ S	<0.01	<0.01	
TK-1003	Storage Tank TK-1003	VOC	13.96	4.83	
		H ₂ S	<0.01	<0.01	
TK-1004	Storage Tank TK-1004	VOC	13.96	4.83	
		H ₂ S	<0.01	<0.01	
TK-1005	Storage Tank TK-1005	VOC	13.96	4.83	
		H ₂ S	<0.01	<0.01	
TK-1006	Storage Tank TK-1006	VOC	13.96	4.83	
		H₂S	<0.01	<0.01	
TK-1007	Storage Tank TK-1007	VOC	13.96	4.83	
		H₂S	<0.01	<0.01	
TK-1008	Storage Tank TK-1008	VOC	13.96	4.83	
		H₂S	<0.01	<0.01	
TK-1009	Storage Tank TK-1009	VOC	13.96	4.83	
		H₂S	<0.01	<0.01	
Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emissio	ion Rates	
			lbs/hour	TPY (4)	
TK-2001	Storage Tank TK-2001	VOC	13.96	4.83	
		H ₂ S	<0.01	<0.01	
TK-2002	Storage Tank TK-2002	VOC	13.96	4.83	
		H₂S	<0.01	<0.01	
TK-2003	Storage Tank TK-2003	VOC	13.96	4.83	
Project Number: 31	8502	H ₂ S	<0.01	<0.01	
TK-2004	Storage Tank TK-2004	VOC	13.96	4.83	
		H₂S	<0.01	<0.01	

		PM	0.32	0.11
Project Number: 31	Φ 3U2			
Project Number 21	9502	NO _x	8.20	2.15
MSS_COMB	Combustion Device for MSS Control	VOC	53.43 6.15	47.94 2.15
MCC COMP	Combustion Davis of the MCC	H₂S	0.26	0.01
STRL_UNCL	Tank Roof Landing - Uncontrolled		104.31	4.43
ADDFUG	Chemical Additives Storage Tank Fugitives (5)	VOC	0.06	0.26
Γ-6	Chemical Additive Storage Tank 4	VOC	11.48	0.36
Γ-5	Chemical Additive Storage Tank 3	VOC	11.48	0.36
1 OIII NO. (1)	Source manie (2)	An Contaminant Name (3)	lbs/hour	TPY (4)
Point No. (1)	2 Source Name (2)	Air Contaminant Name (3)	11.48 Emission	0.36
 T-4	1 Chemical Additive Storage Tank	VOC		
Г-3	Chemical Additive Storage Tank	VOC	11.48	0.36
Г-1	Diesel Storage Tank 1	VOC	0.07	<0.01
	5001	H ₂ S	<0.01	0.01
TK-5001	Surge Relief Storage Tank TK-	VOC	13.61	1.00
		H ₂ S	<0.01	<0.01
	Storage Tank TK-3006	VOC	13.96	4.83
5555	Storage Parik TK-3003	H ₂ S	<0.01	<0.01
K-3005	Storage Tank TK-3005	VOC	13.96	4.83
11.3004	Storage rank 113004	H ₂ S	<0.01	<0.01
 ГК-3004	Storage Tank TK-3004	H₂S VOC	13.96	4.83
ГК-3003	Storage Tank TK-3003	VOC H₂S	13.96 <0.01	4.83 <0.01
TV 2002	Storage Tank TV 2002	H₂S VOC	<0.01	<0.01
ΓK-3002	Storage Tank TK-3002	VOC	13.96	4.83
		H₂S	<0.01	<0.01
TK-3001	Storage Tank TK-3001	VOC	13.96	4.83
		H₂S	<0.01	<0.01
ΓK-2008	Storage Tank TK-2008	VOC	13.96	4.83
		H₂S	<0.01	<0.01
ΓK-2007	Storage Tank TK-2007	VOC	13.96	4.83
		H₂S	<0.01	<0.01
TK-2006	Storage Tank TK-2006	VOC	13.96	4.83
		H₂S	<0.01	<0.01
	İ			

		20	6.52	4.17
		SO ₂	6.53	4.17
		H ₂ S	0.04	0.03
		CO ₂ (6)	6,738	2,360
		CH ₄ (6)	0.27	0.09
		N ₂ O (6)	0.05	0.02
		CO₂e	6,761	2,368
FRTANK_SL	Sludge Frac Tanks – Carbon	VOC	0.07	0.16
	Canisters Control	H ₂ S	0.03	0.06
FRTANK_CR	Routine MSS Crude Frac Tank – Carbon Canisters Control	VOC	0.05	<0.01
		H ₂ S	0.03	<0.01
FRTANK_WD	Water Draw Frac Tanks – Carbon Canisters Control	VOC	0.05	0.37
		H ₂ S	0.03	0.19
FRTANK_LVP	Low Vapor Pressure Frac Tank	VOC	1.42	0.24
		H ₂ S	<0.01	<0.01
VTRUCK_HVP	High Vapor Pressure Vacuum Trucks	VOC	0.11	0.33
		H ₂ S	0.04	0.12
VTRUCK_LVP		VOC	1.55	0.75
Trucks	Trucks	H ₂ S	<0.01	<0.01

Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
MSS	Additional MSS activities	VOC	19.85	6.51
		H ₂ S	0.01	<0.01
		PM	0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
FWP1	Firewater Pump 1	VOC	0.08	<0.01
		NO _x	4.07	0.20
		СО	1.38	0.07
		PM	0.13	<0.01
		PM ₁₀	0.13	<0.01
		PM _{2.5}	0.13	<0.01
		SO ₂	<0.01	<0.01
		CO ₂ (6)	2,475	123.76
		CH ₄ (6)	0.10	<0.01
Project Number: 31	8502	N ₂ O (6)	0.02	<0.01
		CO₂e	2,483	124.18
EMGEN	Emergency Generator	VOC	0.21	0.01

СО	1.03	0.05
PM	0.06	<0.01
PM ₁₀	0.06	<0.01
PM _{2.5}	0.06	<0.01
SO ₂	<0.01	<0.01
CO ₂ (6)	2,475	123.76
CH ₄ (6)	0.10	<0.01
N ₂ O (6)	0.02	<0.01
CO₂e	2,484	124.18

- (1) Emission point identification either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) VOC volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 - NO_x total oxides of nitrogen
 - SO₂ sulfur dioxide H₂S - hydrogen sulfide
 - PM total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
 - PM₁₀ total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as
 - represented
 - PM_{2.5} particulate matter equal to or less than 2.5 microns in diameter
 - $\begin{array}{lll} \text{CO} & \text{ carbon monoxide} \\ \text{CO}_2 & \text{ carbon dioxide} \\ \text{N}_2 \text{O} & \text{ nitrous oxide} \\ \text{CH}_4 & \text{ methane} \end{array}$
 - CO₂e carbon dioxide equivalents based on CO₂, N₂O, CH₄
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) Emission rate is given for informational purposes only and does not constitute enforceable limit.

DATE: April 23, 2021

Project Number: 318502