Permit Number 150465

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered 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 covered by this permit.

Air Contaminants Data

Emission Point No.	Source Name (2)	Air Contaminant	Emission Rates		
(1)		Name (3)	lbs/hour	TPY (4)	
FLARE-1	Flare-1 (Pilot Gas and Truck	NO _X	1.37	1.11	
	Venting)	СО	11.11	6.58	
		SO ₂	0.01	0.05	
		VOC	20.44	10.71	
		H ₂ S	0.01	0.01	
FLARE-2	Flare 2 Pilot Gas	NO _X	0.11	0.49	
		СО	0.22	0.97	
		SO ₂	0.01	0.05	
		VOC	0.01	0.01	
		H ₂ S	0.01	0.01	
H-101	Regen Gas Heater	РМ	<0.01	<0.01	
		PM ₁₀	<0.01	<0.01	
		PM _{2.5}	<0.01	<0.01	
		NO _X	0.17	0.76	
		СО	0.35	1.53	
		SO ₂	<0.01	0.02	
		VOC	<0.01	<0.01	
H-102	Heat Medium Heater	РМ	<0.01	<0.01	
		PM ₁₀	<0.01	<0.01	
		PM _{2.5}	<0.01	<0.01	
		NO _X	0.42	1.85	
		СО	0.84	3.70	
		SO ₂	0.01	0.04	
		VOC	<0.01	<0.01	

H-103	Amine Regen Hot Oil Heater 1	РМ	0.29	1.27
		PM ₁₀	0.29	1.27
		PM _{2.5}	0.29	1.27
		NO _X	1.26	5.52
		СО	2.59	11.34
		SO ₂	0.02	0.09
		VOC	0.21	0.92
H-104	Amine Regen Hot Oil Heater 2	PM	0.32	1.40
		PM ₁₀	0.32	1.40
		PM _{2.5}	0.32	1.40
		NO _X	1.39	6.08
		СО	2.85	12.48
		SO ₂	0.02	0.10
		VOC	0.23	1.01
H-105	Glycol Dehydrator Heater	PM	0.03	0.15
		PM ₁₀	0.03	0.15
		PM _{2.5}	0.03	0.15
		NO _X	0.14	0.63
		СО	0.37	1.61
		SO ₂	<0.01	0.01
		VOC	0.02	0.11
H-106	Amine Heater	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
		NO _X	0.16	0.72
		СО	0.33	1.44
		SO ₂	<0.01	0.02
		VOC	<0.01	<0.01
FUG-1	Fugitives (5)	VOC	4.43	19.39
		H₂S	0.21	0.91

FUG-2	Pressurized Loading Fugitives (5)	VOC	1.76	1.85
EG-1	Generac SG230	РМ	0.05	<0.01
		PM ₁₀	0.05	<0.01
		PM _{2.5}	0.05	<0.01
		NO _X	0.02	<0.01
		СО	0.43	0.02
		SO ₂	<0.01	<0.01
		VOC	0.31	0.02
EG-2	Generac SG400	РМ	0.09	<0.01
		PM ₁₀	0.09	<0.01
		PM _{2.5}	0.09	<0.01
		NO _X	0.12	0.01
		СО	0.72	0.04
		SO ₂	<0.01	<0.01
		VOC	0.16	0.01
TK-1801	Used Lube Oil Tank	voc	<0.01	<0.01
TK-1802	New Lube Oil Tank	voc	<0.01	<0.01
TK-1803	Open Drain Tank	voc	<0.01	<0.01
TK-1805A/B	Produced Water Tanks	voc	0.32	1.60
TK-1812	Lube Oil Drain Sump	voc	<0.01	<0.01
TK-1813	Open Drain Sump	voc	<0.01	<0.01
TK-2801	Lean Amine Tank	voc	<0.01	<0.01
TK-2802	Lean Amine Tank	voc	<0.01	<0.01
TK-2803	Deionized Water Tank	voc	<0.01	<0.01
TK-3801	New TEG Tank	voc	<0.01	<0.01
TK-4801	Lube Oil Supply – Methanol	voc	<0.01	<0.01
TK-4802	Lube Oil Supply – Refrigeration	voc	<0.01	<0.01
TK-4901	Methanol Supply Tank	voc	2.84	0.02
TK-4902	AGI Well – Methanol Supply Tank	voc	1.42	0.02
TK-8100	Lube Oil Supply – VRU	voc	<0.01	<0.01
L-1	Produced Water Loading	VOC	0.62	0.12

		H ₂ S	0.01	0.01
MSS-FUG	MSS Fugitives – Routine WC1	PM	<0.01	<0.01
W.001 00	Wiss rugiuves – Routine WC1			
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
		VOC	213.04	8.68
		H ₂ S	<0.01	<0.01
FLARE-1	MSS Flaring – Routine WC1	NO _X	20.61	1.31
		СО	71.69	7.57
		SO ₂	51.55	3.91
		VOC	119.88	12.86
		H ₂ S	0.72	0.05
FLARE-1	Flare 1 – AGI Downtime WC1	NO _X	295.27	3.82
		СО	2531.71	29.79
		SO ₂	11,755.93	87.09
		VOC	100.03	11.63
		H ₂ S	125.07	0.93
FLARE-1	Flare 1 - Purge Gas Startup	NO _X	400.40	0.05
		СО	3433.09	0.43
		SO ₂	89.51	0.01
		VOC	144.83	0.02
		H ₂ S	0.95	0.01
FLARE-2	MSS Flare – AGI Well Comp. BD	NO _X	2.63	0.54
	WC1	СО	21.79	1.40
		SO ₂	147.43	2.99
		VOC	0.02	0.01
		H ₂ S	1.56	0.03
MSS-FUG	MSS Fugitives – Turnaround	VOC	398.00	0.20
	Blowdown	H ₂ S	<0.01	<0.01
MSS-FUG	MSS Fugitives – Turnaround	VOC	70.00	0.11
	Startup	H₂S	<0.01	<0.01
FLARE-1	MSS Flaring – Turnaround Blowdown WC1	NO _X	86.47	0.04

		СО	172.63	0.09
		SO ₂	0.22	<0.01
		VOC	439.51	0.22
		H₂S	1.61	<0.01
FLARE-1	MSS Flaring – Turnaround Startup		97.25	0.05
	WC1	СО	194.17	0.10
		SO ₂	0.13	<0.01
		VOC	383.90	0.49
		H ₂ S	1.06	<0.01
FLARE-3	Flare-3 Pilot Gas and Controlled Tank Truck Venting	NO _x	0.74	1.69
		СО	5.66	11.54
		SO ₂	0.02	0.06
		VOC	10.23	20.02
		H₂S	0.02	0.02
FLARE-2	MSS Flare - AGI Well Comp. BD	NO _x	2.63	0.54
		СО	21.79	1.40
		SO ₂	147.43	2.99
		VOC	0.02	0.01
		H ₂ S	1.56	0.03
EG-3	Emergency Generator	PM	0.44	0.02
		PM ₁₀	0.44	0.02
		PM _{2.5}	0.44	0.02
		NO _X	0.74	0.04
		СО	3.85	0.19
		SO ₂	0.01	0.01
		VOC	0.21	0.01
H-3910	Hot Oil Heater (Train C)	РМ	0.34	1.50
		PM ₁₀	0.34	1.50
		PM _{2.5}	0.34	1.50
		NO _X	1.35	5.91
		СО	2.25	9.86

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		SO ₂	0.03	0.13
		VOC	0.25	1.08
H-3950	Hot Oil Superheater	PM	0.02	0.10
		PM ₁₀	0.02	0.10
		PM _{2.5}	0.02	0.10
		NO _X	0.09	0.39
		СО	0.15	0.66
		SO ₂	0.01	0.01
		VOC	0.02	0.07
H-5000	Stabilizer Heater	PM	0.10	0.42
		PM ₁₀	0.10	0.42
		PM _{2.5}	0.10	0.42
		NO _X	0.38	1.66
		СО	0.63	2.77
		SO ₂	0.01	0.04
		VOC	0.07	0.31
TK-C3901	Amine Sump	VOC	0.01	0.01
TK-6970	Used Oil Tank	VOC	0.01	0.01
TK-6971	New Oil Tank	VOC	0.01	0.01
TK-6975	Used Oil Tank	VOC	0.01	0.01
TK-3922	Glycol Tank	VOC	0.02	0.01
TK-2909	Lean Amine Tank	VOC	0.01	0.01
TK-2911	Lean TEG Tank	VOC	0.01	0.01
TK-2902	Open Drain Sump	VOC	0.01	0.01
TK-2912	Deionized Water	VOC	0.01	0.01
TK-1805C	Produced Water	VOC	0.32	1.60
TK-1805D	Produced Water	VOC	0.32	1.60
FUG-3	Fugitives (WC 2) (5)	VOC	1.40	6.15
		H ₂ S	0.17	0.75
FUG-4	Pressurized Truck Loading	VOC	1.76	3.47

L-2	Produced Water Loading	voc	0.62	0.12
		H ₂ S	0.01	0.01
MSS-FUG-1	MSS Fugitives - Routine WC2	РМ	0.01	0.01
		PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
		voc	16.18	0.70
		H ₂ S	1.74	0.01
FLARE-3	MSS Flaring (Flare-3) - Routine	NO _X	20.61	1.89
		со	71.69	12.54
		SO ₂	17.38	0.25
		voc	33.22	20.66
		H ₂ S	0.72	0.04
FLARE-1	Flare 1 – AGI Downtime WC2	NO _X	1.88	0.01
		со	15.71	0.11
		SO ₂	7718.31	87.09
		voc	13.79	0.01
		H ₂ S	82.11	0.92
FLARE-3	Flare 3 - Purge Gas Startup	NO _X	400.40	0.05
		со	3433.09	0.43
		SO ₂	89.51	0.01
		VOC	144.83	0.02
		H ₂ S	0.95	0.01
FLARE-2	MSS Flare - AGI Well Comp. BD WC2 (Phase I)	NO _X	2.63	0.54
	WC2 (Pilase I)	со	21.79	1.40
		SO ₂	147.43	2.99
		VOC	0.02	0.01
		H ₂ S	1.56	0.03
MSS-FUG-2	MSS Fugitives - Turnaround	VOC	14.00	0.01
	Blowdown (Phase I)	H ₂ S	0.03	0.01
MSS-FUG-2	MSS Fugitives Turnaround Startup	voc	23.00	0.11
	(Phase I)	H ₂ S	0.26	0.01

FLARE-3	MSS Flaring – Turnaround	NO _X	14.06	0.01
	Blowdown (Phase I)	СО	28.06	0.01
		SO ₂	0.05	0.01
		VOC	13.61	0.01
		H ₂ S	0.18	0.01
FLARE-3	MSS Flaring – Turnaround Startup	NO _X	1.58	0.01
		СО	3.16	0.01
		SO ₂	0.01	0.01
		VOC	8.53	0.01
		H ₂ S	0.17	0.01
FLARE-3	(Phase I)	NO _X	440.96	3.97
		со	3780.85	34.03
		SO ₂	5948.49	53.54
		VOC	2.21	0.02
		H ₂ S	63.28	0.57
FLARE-3	Flare – 3 Turnaround Purge Gas	NO _X	<0.01	0.05
	Startup (Phase I)	со	<0.01	0.43
		SO ₂	<0.01	0.01
		VOC	<0.01	0.01
		H ₂ S	<0.01	0.01
H-4711	AGE Hot Oil (Phase II)	РМ	0.46	2.00
		PM ₁₀	0.46	2.00
		PM _{2.5}	0.46	2.00
		NO _X	1.80	7.88
		СО	3.00	13.14
		SO ₂	0.33	0.17
		VOC	0.04	1.45
H-4701	Regen Gas Heater (Phase II)	PM	0.07	0.33
		PM ₁₀	0.07	0.33
		PM _{2.5}	0.07	0.33
		NO _x	0.29	1.28

		СО	0.49	2.14
		SO ₂	0.05	0.03
		VOC	0.01	0.24
H-3920	Hot Oil Heater (Train D) (Phase II)	PM	0.34	1.50
	, , , , , , , , , , , , , , , , , , , ,	PM ₁₀	0.34	1.50
		PM _{2.5}	0.34	1.50
		NO _X	1.35	5.91
		co	2.25	9.86
		SO ₂	0.25	0.13
		VOC	0.03	1.08
H-5001	Stabilizer Heater (Phase II)			
H-2001	Stabilizer Heater (Friase II)	PM	0.10	0.42
		PM ₁₀	0.10	0.42
		PM _{2.5}	0.10	0.42
		NO _X	0.38	1.66
		СО	0.63	2.77
		SO ₂	0.07	0.04
		VOC	0.01	0.31
TK – 4909	Lean Amine Tank	voc	0.01	0.01
TK-6801	AGE Sump	voc	0.01	0.01
TK-2901	Lube Oil Drain Sump	voc	0.01	0.01
TK-2903	Used Lube Oil Tank	voc	0.01	0.01
TK-2904	New Lube Oil Tank	voc	0.01	0.01
TK-2905	Open Drain Storage Tank	voc	0.01	0.01
TK-2906	Regeneration Lube Oil Tank	voc	0.01	0.01
TK-4910	Demineralized Water Tank	VOC	0.01	0.01
TK-4911	Methanol Supply Tank	VOC	0.28	0.01
то	Thermal Oxidizer	РМ	0.05	0.23
		PM ₁₀	0.05	0.23
		PM _{2.5}	0.05	0.23
		NO _X	0.05	2.19
		со	0.43	1.88

		SO ₂	3.56	15.57
		VOC	0.03	0.13
		H ₂ S	0.01	0.01
MSS-FUG-2	MSS Fugitives – Routine WC2	PM	0.01	0.01
		PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
		VOC	0.46	0.01
		H ₂ S	0.14	0.01
LARE-3	MSS Flaring (Flare-3) – Routine	NO _X	0.74	6.24
	WC2 with AGE (Phase II)	со	5.65	50.58
		SO ₂	0.01	196.80
		VOC	10.23	20.04
		H ₂ S	0.01	2.09
LARE-1	Flare-1 – AGI Downtime WC2 (Phase II)	NO _X	697.05	4.46
		со	5975.9	35.3
		SO ₂	11845.45	91.16
		VOC	265.29	20.04
		H ₂ S	126.02	0.97
FLARE-1	Flare-1 – AGI Downtime WC2 w/AGE (Phase II)	NO _X	0.74	1.11
		со	5.65	6.58
		SO ₂	0.01	0.05
		VOC	10.23	10.71
		H ₂ S	0.01	0.01
-LARE-2	MSS Flare - AGI Well Comp. BD	NO _X	2.63	0.54
	WC2 (Phase II)	со	21.79	1.40
		SO ₂	147.43	2.99
		VOC	0.01	0.01
		H ₂ S	1.56	0.03
MSS-FUG-2	MSS Fugitives – Turnaround	VOC	0.46	0.01
	Blowdown (Phase II)	H ₂ S	0.14	0.01
MSS-FUG-2	MSS Fugitives – Turnaround Startup (Phase II)	VOC	1.00	0.01

		H ₂ S	0.01	0.01
FLARE-3	MSS Flaring – Turnaround	NO _X	65.40	0.03
	Blowdown (Phase II)	со	130.56	0.07
		SO ₂	0.17	0.01
		VOC	136.41	0.07
		H ₂ S	0.86	0.01
FLARE-3	MSS Flaring – Turnaround Startup	NO _X	46.6	0.05
	(Phase II)	со	92.75	0.11
		SO ₂	0.08	0.01
		VOC	127.06	0.15
		H₂S	0.38	0.01
FLARE-3	Flare-3 (AGI Well Downtime) (Phase II)	NO _X	308.65	4.46
		со	2,645.74	35.30
		SO ₂	10,124.15	91.16
		VOC	11.95	20.04
		H₂S	107.71	0.97
FLARE-3	Flare-3 (AGI Well Downtime w/	NO _X	506.63	6.24
	AGE) (Phase II)	со	50.58	50.58
		SO ₂	21,861.70	196.80
		VOC	12.90	20.04
		H ₂ S	232.58	2.09
FLARE-3	Flare-3 Turnaround Purge Gas Startup (Phase II)	NO _X	1.58	0.05
	Startup (Priase II)	со	3.16	0.11
		SO ₂	0.01	0.01
		VOC	8.53	0.15
		H₂S	0.17	0.01

(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 CO - carbon monoxide SO_2 - sulfur dioxide

PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented

 PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as

represented

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 $PM_{2.5}$

Emission Sources - Maximum Allowable Emission Rates

- particulate matter equal to or less than 2.5 microns in diameter

` '	Compliance with annual emission limits (tons per year) is based on a 12-month re Emission rate is an estimate and is enforceable through compliance with the app permit application representations.	• .	
		Date:	September 20, 2022