#### 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.		Air Contaminant	Emission	n Rates
(1)		Name (3)	lbs/hour	TPY (4)
FLARE-1	Flare-1 (Pilot Gas and Truck	NO <sub>X</sub>	2.79	1.99
	Venting)	СО	5.87	5.35
		SO <sub>2</sub>	0.01	0.05
		voc	20.44	13.37
		H <sub>2</sub> S	0.01	0.01
FLARE-2	Flare 2 Pilot Gas	NOx	0.11	0.49
		СО	0.22	0.97
		SO <sub>2</sub>	0.01	0.05
	`	voc	0.01	0.01
		H <sub>2</sub> S	0.01	0.01
H-101	Regen Gas Heater	PM	<0.01	<0.01
		PM <sub>10</sub>	<0.01	<0.01
		PM <sub>2.5</sub>	<0.01	<0.01
		NO <sub>X</sub>	0.17	0.76
		со	0.35	1.53
		SO <sub>2</sub>	<0.01	0.02
		VOC	<0.01	<0.01
H-102	Heat Medium Heater	РМ	<0.01	<0.01
		PM <sub>10</sub>	<0.01	<0.01
		PM <sub>2.5</sub>	<0.01	<0.01
		NO <sub>X</sub>	0.42	1.85
		СО	0.84	3.70
		SO <sub>2</sub>	0.01	0.04
		VOC	<0.01	<0.01

H-103	Amine Regen Hot Oil Heater 1	PM	0.29	1.27
		PM <sub>10</sub>	0.29	1.27
		PM <sub>2.5</sub>	0.29	1.27
		NO <sub>X</sub>	1.26	5.52
		СО	2.59	11.34
		SO <sub>2</sub>	0.02	0.09
		voc	0.21	0.92
H-104	Amine Regen Hot Oil Heater 2	PM	0.32	1.40
		PM <sub>10</sub>	0.32	1.40
		PM <sub>2.5</sub>	0.32	1.40
		NO <sub>X</sub>	1.39	6.08
		со	2.85	12.48
		SO <sub>2</sub>	0.02	0.10
		voc	0.23	1.01
H-105	Glycol Dehydrator Heater	PM	0.03	0.15
		PM <sub>10</sub>	0.03	0.15
		PM <sub>2.5</sub>	0.03	0.15
		NO <sub>x</sub>	0.14	0.63
		СО	0.37	1.61
		SO <sub>2</sub>	<0.01	0.01
		VOC	0.02	0.11
H-106	Amine Heater	PM	<0.01	<0.01
		PM <sub>10</sub>	<0.01	<0.01
		PM <sub>2.5</sub>	<0.01	<0.01
		NO <sub>X</sub>	0.16	0.72
		СО	0.33	1.44
		SO <sub>2</sub>	<0.01	0.02
		voc	<0.01	<0.01
FUG-1	Fugitives (5)	VOC	5.33	23.36
		H <sub>2</sub> S	0.25	1.10

FUG-2	Pressurized Loading Fugitives (5)	voc	1.76	2.31
EG-1	Generac - SG230	РМ	0.05	<0.01
		PM <sub>10</sub>	0.05	<0.01
		PM <sub>2.5</sub>	0.05	<0.01
		NO <sub>x</sub>	0.02	<0.01
		СО	0.43	0.02
		SO <sub>2</sub>	<0.01	<0.01
		voc	0.31	0.02
EG-2	Generac - SG400	PM	0.09	<0.01
		PM <sub>10</sub>	0.09	<0.01
		PM <sub>2.5</sub>	0.09	<0.01
		NOx	0.12	0.01
		СО	0.72	0.04
	,	SO <sub>2</sub>	<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 Storage Tank	voc	<0.01	<0.01
TK-1803	Open Drain Storage Tank (PW)	VOC	<0.01	<0.01
TK-1805A/B	Produced Water Tanks	VOC	0.32	1.62
TK-1812	Lube Oil Drain Sump	VOC	<0.01	<0.01
TK-1813	Open Drain Sump	VOC	<0.01	<0.01
TK-1814	AGI Well Open Drain Sump	voc	<0.01	<0.01
TK-2801	Lean Amine Storage Tank	voc	<0.01	<0.01
TK-2802	Lean Amine Storage Tank	VOC	<0.01	<0.01
TK-2803	Deionized Water	VOC	<0.01	<0.01
TK-3801	New TEG Storage 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-4803	Lube Oil Supply – Screw Compressor	VOC	<0.01	<0.01
TK-4804	Lube Oil Supply – AGI Compressor	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 <sub>2</sub> S	0.01	0.01
MSS-FUG	MSS Fugitives – Routine WC1	PM	<0.01	<0.01
		PM <sub>10</sub>	<0.01	<0.01
		PM <sub>2.5</sub>	<0.01	<0.01
		VOC	213.04	8.68
FLARE-1	MSS Flaring – Routine WC1	NOx	20.61	2.19
		СО	71.69	6.34
		SO <sub>2</sub>	51.55	3.91
		VOC	119.88	15.52
		H <sub>2</sub> S	0.72	0.05
FLARE-1	Flare 1 – AGI Downtime WC1	NOx	371.67	17.98
		СО	3,186.70	74.90
		SO <sub>2</sub>	11,776.45	108.46
		VOC	133.22	15.98
		H <sub>2</sub> S	125.29	1.06
FLARE-1	Flare 1 - Purge Gas Startup	NO <sub>X</sub>	400.40	0.05
		СО	3,433.09	0.43
		SO <sub>2</sub>	89.51	0.01
		VOC	144.83	0.02
		H <sub>2</sub> S	0.95	0.01
MSS-FUG	MSS Fugitives – Turnaround	VOC	398.00	0.20
	Blowdown	H <sub>2</sub> S	<0.01	<0.01
MSS-FUG	MSS Fugitives – Turnaround	VOC	70.00	0.11
	Startup	H <sub>2</sub> S	<0.01	<0.01
FLARE-1	MSS Flaring – Turnaround	NO <sub>X</sub>	86.47	0.04
	Blowdown WC1	СО	172.63	0.09
		SO <sub>2</sub>	0.22	<0.01

		VOC	441.43	0.22
		H <sub>2</sub> S	1.61	<0.01
FLARE-1	MSS Flaring – Turnaround	NO <sub>x</sub>	97.25	0.05
	Startup WC1	СО	194.17	0.10
		SO <sub>2</sub>	0.13	<0.01
		VOC	383.90	0.49
		H <sub>2</sub> S	1.06	<0.01
FLARE-1	MSS Flaring - Inlet Gas WC1 (6)	NO <sub>x</sub>	456.13	10.26
		СО	910.61	20.49
		SO <sub>2</sub>	131.52	2.96
		voc	27.84	0.63
		H <sub>2</sub> S	1.40	0.03
FLARE-1	MSS Flaring - Residue Gas	NOx	498.51	2.24
	WC1 (6)	СО	4,274.30	19.23
		SO <sub>2</sub>	9.85	0.04
		VOC	169.21	0.76
		H <sub>2</sub> S	0.10	0.01
FLARE-1	MSS Flaring - Acid Gas WC1 (6)	NOx	39.98	0.08
		со	342.81	0.71
		SO <sub>2</sub>	3,635.54	18.18
		VOC	0.53	0.01
		H <sub>2</sub> S	19.34	0.10
FLARE-3	Flare-3 Pilot Gas and Controlled	NO <sub>X</sub>	1.42	2.88
	Tank Truck Venting	СО	3.14	7.13
		SO <sub>2</sub>	0.02	0.06
	<b>*</b>	VOC	10.23	20.02
		H <sub>2</sub> S	0.02	0.02
EG-3	Emergency Generator	РМ	0.44	0.02
		PM <sub>10</sub>	0.44	0.02
		PM <sub>2.5</sub>	0.44	0.02
		NO <sub>x</sub>	0.74	0.04

		СО	3.85	0.19
		SO <sub>2</sub>	0.01	0.01
		VOC	0.21	0.01
H-3910	Hot Oil Heater (Train C)	РМ	0.45	1.95
		PM <sub>10</sub>	0.45	1.95
		PM <sub>2.5</sub>	0.45	1.95
		NO <sub>X</sub>	1.76	7.70
		СО	2.93	12.83
		SO <sub>2</sub>	0.04	0.16
		voc	0.32	1.41
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	0.16	0.81
TK-1805D	Produced Water	VOC	0.16	0.81
FUG-3	Fugitives (WC 2) (5)	voc	1.40	6.12
		H <sub>2</sub> S	0.11	0.47
FUG-4	Pressurized Truck Loading	voc	1.76	3.47
L-2	Produced Water Loading	VOC	0.62	0.12
		H <sub>2</sub> S	0.01	0.01
MSS-FUG-1	MSS Fugitives - Routine WC2	РМ	0.01	0.01
		PM <sub>10</sub>	0.01	0.01
		PM <sub>2.5</sub>	0.01	0.01
		VOC	16.63	0.70
		H <sub>2</sub> S	1.88	0.02

FLARE-3	MSS Flaring (Flare-3) - Routine WC2	NO <sub>x</sub>	22.08	6.20
		СО	71.69	8.12
		SO <sub>2</sub>	17.38	0.25
		VOC	33.22	40.68
		H <sub>2</sub> S	0.72	0.08
FLARE-1	Flare 1 – AGI Downtime WC2	NOx	498.51	5.94
		со	4,274.30	0.36
		SO <sub>2</sub>	11,694.40	86.48
		voc	169.21	20.04
		H <sub>2</sub> S	124.41	1.89
FLARE-3	Flare 3 - Purge Gas Startup	NOx	400.40	0.05
		со	3,433.09	0.43
		SO <sub>2</sub>	89.51	0.01
		VOC	144.83	0.02
		H <sub>2</sub> S	0.95	0.01
FLARE-2	MSS Flare - AGI Well Comp. BD WC2	NO <sub>X</sub>	2.63	0.54
		со	21.79	1.40
		SO <sub>2</sub>	73.21	2.96
		VOC	0.01	0.01
		H <sub>2</sub> S	0.77	0.03
MSS-FUG-2	MSS Fugitives - Turnaround Blowdown	voc	14.00	0.01
	Biowdowii	H <sub>2</sub> S	0.03	0.01
MSS-FUG-2	MSS Fugitives Turnaround	VOC	23.00	0.11
	Startup	H <sub>2</sub> S	0.27	0.01
FLARE-3	MSS Flaring – Turnaround Blowdown	NO <sub>X</sub>	79.46	0.04
	Biowdowii	СО	158.62	0.08
		SO <sub>2</sub>	0.22	0.01
		VOC	150.02	0.07
		H <sub>2</sub> S	1.05	0.01
FLARE-3	MSS Flaring – Turnaround	NO <sub>X</sub>	48.04	0.06
	Startup	со	95.91	0.11

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		SO <sub>2</sub>	0.08	0.01
		VOC	135.59	0.16
		H <sub>2</sub> S	0.55	0.01
FLARE-3	MSS Flaring - Inlet Gas WC2 (6)	NO <sub>x</sub>	502.84	11.31
		со	1,003.87	22.59
		SO <sub>2</sub>	175.3	3.94
		voc	27.87	0.63
		H <sub>2</sub> S	1.87	0.04
FLARE-3	MSS Flaring - Residue Gas	NO <sub>X</sub>	530.15	2.75
	WC2 (6)	со	4,545.55	23.55
		SO <sub>2</sub>	9.85	0.04
		voc	2.79	0.01
		H <sub>2</sub> S	0.10	0.01
FLARE-3	MSS Flaring - Acid Gas WC2 (6)	NOx	72.48	0.17
		co	621.45	1.45
		SO <sub>2</sub>	0.05	0.01
		voc	0.01	0.01
		H <sub>2</sub> S	0.01	0.01
FLARE-3	Flare - 3 (AGI Well Downtime)	NOx	886.04	11.08
		со	7,587.32	44.50
		SO <sub>2</sub>	18,833.49	169.50
		voc	15.19	20.06
		H <sub>2</sub> S	308.07	2.77
H-4711	AGE Hot Oil	PM	0.46	2.00
		PM <sub>10</sub>	0.46	2.00
		PM <sub>2.5</sub>	0.46	2.00
		NO <sub>X</sub>	1.80	7.88
		со	3.00	13.14
		SO <sub>2</sub>	0.33	0.17
		VOC	0.04	1.45
H-4701	Regen Gas Heater	PM	0.11	0.48

		DM	0.11	0.40
		PM <sub>10</sub>	0.11	0.48
		PM <sub>2.5</sub>	0.11	0.48
		NO <sub>X</sub>	0.43	1.88
		СО	0.71	3.13
		SO <sub>2</sub>	0.08	0.04
		VOC	0.01	0.34
H-3920	Hot Oil Heater (Train D)	PM	0.45	1.95
		PM <sub>10</sub>	0.45	1.95
		PM <sub>2.5</sub>	0.45	1.95
		NO <sub>X</sub>	1.76	7.70
		со	2.93	12.83
		SO <sub>2</sub>	0.32	0.16
		voc	0.04	1.41
H-1703	Combined Heater	PM	0.26	1.16
		PM <sub>10</sub>	0.26	1.16
		PM <sub>2.5</sub>	0.26	1.16
		NOx	1.05	4.58
		СО	1.74	7.63
		SO <sub>2</sub>	0.02	0.10
		VOC	0.19	0.84
		H <sub>2</sub> S	0.01	0.01
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	PM	0.05	0.23

		PM <sub>10</sub>	0.05	0.23
		PM <sub>2.5</sub>	0.05	0.23
		NO <sub>X</sub>	0.50	2.19
		со	0.43	1.88
		SO <sub>2</sub>	3.56	15.57
		voc	0.03	0.13
		H <sub>2</sub> S	0.01	0.01
FLARE-1	Flare-1 – AGI Downtime WC2	NO <sub>X</sub>	1.37	1.99
	w/AGE	со	11.10	5.35
		SO <sub>2</sub>	0.01	0.05
		voc	20.43	13.37
		H <sub>2</sub> S	0.01	0.01
FLARE-2	MSS Flare - AGI Well Comp. BD WC2	NOx	2.63	0.54
	WC2	со	21.79	1.40
		SO <sub>2</sub>	147.43	2.99
		voc	0.01	0.01
		H <sub>2</sub> S	1.56	0.03
FLARE-3	Flare-3 (AGI Well Downtime w/	NO <sub>X</sub>	506.63	9.18
	AGE)	СО	50.58	58.15
		SO <sub>2</sub>	21,898.99	197.14
		VOC	12.90	20.05
		H <sub>2</sub> S	232.58	2.10

(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

- total oxides of nitrogen  $NO_x$ CO - carbon monoxide  $SO_2$ - sulfur dioxide

- total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented РМ

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

represented particulate matter equal to or less than 2.5 microns in diameter
hydrogen sulfide

 $H_2S$ 

(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) Flaring emissions associated with the Find It Fix It initiative.

 $PM_{2.5}$ 

