EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 3150

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. 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. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY **
AG_D103302	Acid Gas Flare	CO	4.65	20.40
		H_2S	0.63	2.76
		NO_x	0.54	2.38
		SO_2	61.43	269.10
		VOC	1.19	5.23
AMINE	Amine Unit Heater 9 MMBtu/hr	CO	0.82	3.61
		NO_x	0.98	4.30
		PM_{10}	0.07	0.33
		SO_2	0.01	0.03
		VOC	0.05	0.24
AMINE-1	Amine Unit Heater 9 MMBtu/hr	CO	0.82	3.61
		NO_x	0.98	4.30
		PM_{10}	0.07	0.33
		SO_2	0.01	0.03
		VOC	0.05	0.24
CAT1	Caterpillar Engine 2,370-hp	CO	1.31	5.72
		NO_x	4.54	19.90
		PM_{10}	0.17	0.73
		SO_2	0.01	0.05
		VOC	1.67	7.32
CAT2	Caterpillar Engine 2,370-hp	CO	1.31	5.72
		NO_x	4.54	19.90
		PM_{10}	0.17	0.73
		SO_2	0.01	0.05
		VOC	1.67	7.32

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY **
CAT3	Caterpillar Engine 2,370-hp	CO	1.31	5.72
		NO_x	4.54	19.90
		PM_{10}	0.17	0.73
		SO_2	0.01	0.05
		VOC	1.67	7.32
COOL-21	Cooling Tower (5)	VOC	0.17	0.74
D40103	Solar Centaur Turbine 4,100-hp	CO	10.66	46.67
		NO_x	16.07	70.41
		PM_{10}	0.24	1.07
		SO_2	0.03	0.13
		VOC	0.09	0.40
D40105	Solar Centaur Turbine 4,100-hp	CO	10.66	46.67
		NO_x	16.07	70.41
		PM_{10}	0.24	1.07
		SO_2	0.03	0.13
		VOC	0.09	0.40
EM_D103301	Emergency Gas Flare Pilot Fuel Only	CO	0.02	0.07
		NO_x	0.01	0.02
		SO_2	0.01	0.01
		VOC	0.01	0.01
	Glycol Dehydrator Regenerator Vent Only	CO	0.82	3.60
		NO_x	0.21	0.92
		VOC	1.34	5.89
GLYCOL	Glycol Reboiler 4 MMBtu/hr	CO	0.38	1.65
		NO_x	0.45	1.96
		PM_{10}	0.03	0.15
		SO_2	0.01	0.01
		VOC	0.02	0.11
HMH-1	Heat Medium Heater 11.00 MMBTU/hr	CO	1.01	4.42
		NO_x	1.20	5.26

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY **
		PM_{10}	0.09	0.40
		SO_2	0.01	0.04
		VOC	0.07	0.29
K1A	Cooper Compressor Engine GMXE 835-hp	CO	2.39	10.50
		NO_x	20.20	88.60
		PM_{10}	0.31	1.37
		SO_2	0.01	0.02
		VOC	0.77	3.38
K1B	Cooper Compressor Engine GMXE 835-hp	CO	2.39	10.50
		NO_x	20.20	88.60
		PM_{10}	0.31	1.37
		SO_2	0.01	0.02
		VOC	0.77	3.38
K1C	Cooper Compressor Engine GMXE 835-hp	CO	2.39	10.50
		NO_x	20.20	88.60
		PM_{10}	0.31	1.37
		SO_2	0.01	0.02
		VOC	0.77	3.38
K2A	Cooper Compressor Engine GMXE 250-hp	CO	0.72	3.14
		NO_x	6.06	26.50
		PM_{10}	0.09	0.41
		SO_2	0.01	0.01
		VOC	0.23	1.01
K2B	Cooper Compressor Engine GMXE 300-hp	CO	0.86	3.76
		NO_x	7.27	31.85
		PM_{10}	0.11	0.49
		SO_2	0.01	0.01
		VOC	0.28	1.22
K3A	Cooper Compressor Engine GMXE 800-hp	CO	2.29	10.00
		NO_x	19.40	84.90
		PM_{10}	0.30	1.31

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY **
		SO_2	0.01	0.02
		VOC	0.74	3.24
K3B	Cooper Compressor Engine GMXE 800-hp	CO	2.29	10.00
		NO_x	19.40	84.90
		PM_{10}	0.30	1.31
		SO_2	0.01	0.02
		VOC	0.74	3.24
K4A	Cooper Compressor Engine GMXE 650-hp	CO	1.86	8.15
		NO_x	15.70	69.00
		PM_{10}	0.24	1.07
		SO_2	0.01	0.02
		VOC	0.60	2.63
K4B	Cooper Compressor Engine GMXE 650-hp	CO	1.86	8.15
		NO_x	15.70	69.00
		PM_{10}	0.24	1.07
		SO_2	0.01	0.02
		VOC	0.60	2.63
K5A	Cooper Compressor Engine GMXD 800-hp	CO	2.64	11.60
		NO_x	21.10	92.60
		PM_{10}	0.32	1.39
		SO_2	0.01	0.02
		VOC	0.80	3.51
RGH-N	North Regeneration Gas Heater 9.60 24.00 MMBTU/hr	CO	2.19	
		NO_x	2.61	11.42
		PM_{10}	0.20	0.87
		SO_2	0.02	0.08
		VOC	0.14	0.63
RGH-S	South Regeneration Gas Heater 7.42	CO	1.69	

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY **
	18.55 MMBTU/hr	NO_x	2.02	8.84
		PM_{10}	0.15	0.67
		SO_2	0.01	0.06
		VOC	0.11	0.49
FUG-KKK	Process Fugitives (4)	H_2S	0.01	0.01
		VOC	0.65	2.85
FUG-STATE	Process Fugitives (4)	H_2S	0.01	0.01
		VOC	1.49	6.55

(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) CO - carbon monoxide
H_2S - hydrogen sulfide
NO_x - total oxides of nitrogen
PM_{10} - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.
SO_2 - sulfur dioxide
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
(5) Emission rate is an estimate and is enforceable through compliance with the applicable Special Condition(s) and permit application representations.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

24 Hrs/day 7 Days/week 52 Weeks/year

** Compliance with annual emission limits is based on a rolling 12-month period.

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY **