

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 31352 and PSD-TX-856

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 *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
Plant I - Freestone County Gas Treatment Plant I (FCGT1)				
I-11	NASH Thermal Oxidizer	NO _x	0.11	0.49
		CO	2.185	9.57
		PM ₁₀	0.01	0.06
		SO ₂ (5)	22.1	96.79
		H ₂ S	0.24	1.05
		VOC	0.005	0.02
F-11	Plant I Flare	NO _x	0.14	0.61
		CO	0.28	1.21
		PM ₁₀	<0.001	<0.01
		SO ₂ (5)	0.004	0.02
		H ₂ S	<0.001	<0.01
		VOC	0.36	1.50
F-12 Only	Plant I Emergency Flare	Emergency and Maintenance Use		
H-11	Plant I Auxiliary Boiler 2.19	NO _x		0.5
		CO	0.11	0.46
		PM ₁₀	0.06	0.26
		SO ₂ (5)	0.003	0.01
		VOC	0.03	0.12
H-12	Plant I Glycol Regeneration 0.44 Heater	NO _x		0.1
		CO	0.021	0.09
		PM ₁₀	0.012	0.05
		SO ₂ (5)	0.001	<0.01
		VOC	0.005	0.02

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hrTPY</u>	
T-12	Plant I Amine Tank	MDEA	<0.001	<0.01
T-13	Plant I Glycol Tank	TEG	<0.001	<0.01
T-17	Plant I Concentrated NaOH <0.01 Tank No. 1	NaOH	<0.001	
T-18	Plant I Concentrated NaOH <0.01 Tank No. 2	NaOH	<0.001	
T-19	Plant I Diluted NaOH Tank <0.01	NaOH	<0.001	
L-11	Plant I Wastewater Truck <0.01 Loading Fugitives (4)	VOC	0.48	
FUG-1	Plant I Fugitives (4)	H ₂ S	0.005	0.02
		TEG	<0.001	<0.01
		VOC	0.02	0.08
Plant II - Freestone County Gas Treatment Plant II (FCGT2)				
I-21	Sulfur Recovery Unit	NO _x	0.39	1.71
	Thermal Oxidizer	CO	17.11	74.96
		PM ₁₀	0.05	0.20
		SO ₂ (5)	42.01	184.02
		H ₂ S	0.03	0.12
		COS	0.04	0.17
		CS ₂	0.01	0.04
		VOC	0.02	0.08
F-21	Plant II Flare	NO _x	0.62	2.70

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Emission *	Source	Air Contaminant	Emission Rates	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		CO	1.24	5.39
		PM ₁₀	<0.001	<0.01
		SO ₂ (5)	0.023	0.10
		H ₂ S	<0.001	<0.01
		VOC	1.71	7.39
F-22 Only	Plant II Emergency Flare	Emergency and Maintenance Use		
H-21	Plant II Auxiliary Boiler 11.04	NO _x		2.52
		CO	0.63	2.76
		PM ₁₀	0.25	1.08
		SO ₂ (5)	0.011	0.05
		VOC	0.05	0.22
H-22	Plant II Glycol Regeneration 1.53	NO _x		0.35
	Heater	CO	0.074	0.32
		PM ₁₀	0.04	0.18
		SO ₂ (5)	0.002	0.01
		VOC	0.02	0.08
T-23	Plant II Amine Tank	MDEA	<0.001	<0.01
T-24	Plant II Glycol Tank	TEG	<0.001	<0.01
L-21	Plant II Wastewater Truck <0.01	VOC		0.48
	Loading Fugitives (4)			
L-22	Plant II Sulfur Truck Loading Fugitives (4)	H ₂ S	0.373	0.06

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FUG-2	Plant II Fugitives (4)	H ₂ S	0.005	0.02
		COS/CS ₂	<0.001	<0.01
		TEG	<0.001	<0.01
		VOC	0.02	0.08

(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) NO_x - total oxides of nitrogen
CO - carbon monoxide
PM₁₀ - particulate matter less than 10 microns in diameter
SO₂ - sulfur dioxide
H₂S - hydrogen sulfide
VOC - volatile organic compounds as defined in General Rule 101.1
MDEA - methyl diethanolamine
TEG - triethylene glycol
NaOH - sodium hydroxide
COS - carbonyl sulfide
CS₂ - carbon disulfide

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

(5) These are the PSD-TX-856 emissions.

* Emission rates are based on and the facilities are limited by the

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following maximum operating schedule:

Hrs/day_____Days/week_____Weeks/year_____ or Hrs/year 8,760

Dated _____