

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 80833

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**
02CRUDEFLR	Crude Flare	VOC	845.67	3.88
		NO _x	55.32	0.24
		CO	284.26	1.30
		SO ₂	2766.16	27.23
		H ₂ S	30.07	0.29
05REFMRFLR	Reformer Flare	VOC	333.93	3.19
		NO _x	28.95	0.29
		CO	267.67	1.76
		SO ₂	1237.68	7.49
		H ₂ S	13.46	0.08
14NEASTFLR	North East Flare	VOC	746.98	6.85
		NO _x	65.62	0.70
		CO	377.53	4.56
		SO ₂	3899.82	33.86
		H ₂ S	42.35	0.37
16SOUTHFLR	South Flare (Process Unit)	VOC	2669.45	17.31
		NO _x	185.01	1.40
		CO	987.15	47.92
		SO ₂	1695.52	14.22
		H ₂ S	18.42	0.16
16SOUTHFLR	South Flare (Tank Farm)	VOC	392.92	0.74
		NO _x	26.28	0.05
		CO	133.90	0.25

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69TGINC	No. 1 SRU Incinerator Vent	SO ₂ H ₂ S	340.31 0.32	5.30 0.01
71TGINC	No. 2 SRU Incinerator Vent	SO ₂ H ₂ S	244.73 0.18	27.21 0.02
MSSFUG01	Pump Maintenance	VOC NO _x CO	4.30 0.24 0.94	1.12 0.06 0.24
MSSFUG01	Vacuum Truck Controlled Emissions	VOC	5.38	1.74
MSSFUG01	Process Equipment, MSS Uncontrolled	VOC H ₂ S Amine	24.74 0.09 2.67	1.11 0.01 0.02
37MSSFLR	Floating Roof Storage Tanks, MSS Controlled	VOC NO _x CO SO ₂ PM ₁₀ H ₂ S	6.69 0.45 2.48 8.18 0.19 0.09	0.99 0.07 0.37 0.81 0.05 0.01
MSSFUG01	Floating Roof Storage Tanks, MSS Uncontrolled	VOC	21.29	1.59
MSSFUG01	Fixed-Roof Storage Tanks, MSS Uncontrolled	VOC	2.87	0.16
MSSFUG01	Vacuum Truck Controlled Emissions	VOC	5.38	1.74
MSSFUG01	Frac Tank Emissions	VOC	0.19	0.81

- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources, use an area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

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NO_x - total oxides of nitrogen
CO - carbon monoxide
SO₂ - sulfur dioxide
PM₁₀ - particulate matter equal to or less than 10 microns in diameter
H₂S - hydrogen sulfide

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

_____ Hrs/day _____ Days/week _____ Weeks/year or 8,760 Hrs/year

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

Dated June 22, 2010