

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 46537

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**
SZ-1-H	Charge Heater	PM ₁₀	1.10	3.85
		VOC	0.04	0.15
		NO _x	1.18	4.10
		CO	4.79	16.80
		SO ₂	1.87	6.54
SZ-1-FUG	Fugitives (4)	VOC (other than benzene)	2.68	11.74
		Benzene	0.015	0.067
		H ₂ S	0.002	0.006
		SO ₂	0.001	0.006
		NH ₃	0.001	0.001
SZ-1-RV	Regenerator Vent	CO	11.01	48.23
		NO _x	0.77	3.38
		SO ₂	2.20	9.62
		H ₂ SO ₄	0.41	1.79
		PM ₁₀	0.59	2.59
SZ-2-H	Charge Heater	VOC	0.16	0.70
		PM ₁₀	1.10	3.85
		VOC	0.04	0.15
		NO _x	1.18	4.10
		CO	4.79	16.80
SZ-2-FUG	Fugitives (4)	SO ₂	1.87	6.54
		VOC (other than benzene)	2.68	11.74
		Benzene	0.015	0.067
		H ₂ S	0.001	0.002
		SO ₂	0.002	0.006
		NH ₃	0.001	0.001

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
SZ-2-RV	Regenerator Vent	CO	11.01	48.23
		NO _x 0.77	3.38	
		SO ₂ 2.20	9.62	
		H ₂ SO ₄ 0.41	1.79	
		PM ₁₀ 0.59	2.59	
		VOC 0.16	0.70	
54-22-21	Cooling Tower	VOC	0.26	1.01
		PM/PM ₁₀	0.31	1.34
56-61-24	Flare	NO _x	0.69	2.48
		CO 3.52	12.62	
		SO ₂ 0.73	2.61	
		VOC 3.93	14.08	
		PM ₁₀ 0.08	0.28	
3-0-0	Unit 3 Fugitives (4)	VOC	2.77	12.13
4-0-0	Unit 4 Fugitives (4)	VOC	2.55	11.19
5-0-0	Unit 5 Fugitives (4)	VOC	1.45	6.36
8-0-0	Unit 8 Fugitives (4)	VOC	0.85	3.73
15-0-0	Unit 15 Fugitives (4)	VOC	3.55	15.56
20-0-0	Unit 20 Fugitives (4)	VOC	2.28	9.98

(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.

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- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
PM - particulate matter, suspended in the atmosphere, including PM₁₀.
PM₁₀ - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed,
it shall be assumed that no particulate matter greater than 10 microns is emitted.
CO - carbon monoxide
NH₃ - ammonia
H₂S - hydrogen sulfide
H₂SO₄ - sulfuric acid
(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable
emission rate.

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

8,760 Hrs/year

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

Dated _____