

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 22112 and PSD-TX-824

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
70	Solar Turbine and Duct Burner	PM ₁₀	1.16	4.83
		VOC	0.53	2.14
		NO _x	2.79	11.25
		SO ₂	0.28	1.15
		CO	1.80	7.88
		NH ₃	1.37	5.58
71	CCR	PM ₁₀	0.03	0.13
		VOC	<0.01	<0.01
		NO _x	0.04	0.19
		SO ₂	0.12	0.53
		CO	0.09	0.39
		Cl ₂	<0.01	0.02
		HCl	0.17	0.74
72	Reactor Heater	PM ₁₀	1.17	5.11
		VOC	1.17	5.12
		NO _x	8.17	35.80
		SO ₂	0.38	1.68
		CO	9.11	39.90
74	3 DIP Turbines and 3 Duct Burners	PM ₁₀	3.32	14.30
		VOC	0.65	2.67
		NO _x	3.90	16.14
		SO ₂	0.46	1.97
		CO	2.46	10.20
		NH ₃	1.96	8.58
76	Flare	VOC	27.40	2.26
		NO _x	4.54	1.59
		SO ₂	<0.01	0.02
		CO	8.07	3.17

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<u>Emission Rates *</u>	<u>Source</u>	<u>Air Contaminant</u>	<u>Emission</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	
<u>TPY</u>				
C70	Cooling Tower	VOC	0.29	1.29
73	Wastewater Sumps	VOC	0.04	0.17
75	Wastewater Sumps	VOC	0.04	0.17
78	Waste Oil Tank	VOC	<0.01	<0.01
80	Lube Oil Tank	VOC	<0.01	<0.01
80A	Lube Oil Tank	VOC	<0.01	<0.01
81	Firewater Pump	PM ₁₀	0.28	0.01
		VOC	0.03	0.01
		NO _x	3.86	0.10
		SO ₂	0.26	0.01
		CO	0.84	0.02
F70	Process Fugitives (4)	VOC	0.34	1.50

(1) Emission point identification - either specific equipment designation or emission point number.

(2) Specific point source name. For fugitive sources use area name or fugitive source name.

(3) PM₁₀ - particulate matter (PM) less than 10 microns nominal diameter. Where PM is not listed it shall be

assumed that no particulate matter greater than 10 microns in emitted.

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

CO - carbon monoxide

HCl - hydrogen chloride

Cl₂ - chlorine

NH₃ - ammonia

(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:

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

Hrs/day ____ Days/week ____ Weeks/year ____ Hrs/year 8,760

Dated August 15, 2002