

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 21593

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**
BLEACH1	Bleach Tank Vent	VOC	0.54	0.03
BLEACH2	Bleach Tank Vent	VOC	0.54	0.01
BO-101	Turbine Group 1 with HRSG 1 and 2 (Natural Gas - Primary Fuel)	CO	68.47	128.68
		NO _x	30.24	129.21
		PM ₁₀	1.75	7.66
		SO ₂	0.73	3.20
		VOC	5.89	7.41
	(Ethane - Backup Fuel)	CO	69.86	129.49
		NO _x	32.93	136.46
		PM ₁₀	1.33	5.81
		SO ₂	0.42	1.84
		VOC	5.74	5.56
	Turbine Group 2 with HRSG 3 (Natural Gas - Primary Fuel)	CO	27.04	32.80
		NO _x	13.92	59.35
		PM ₁₀	0.88	3.83
		SO ₂	0.37	1.60
		VOC	2.95	3.71
BO-102	(Ethane - Backup Fuel)	CO	27.73	33.21
		NO _x	15.26	62.97
		PM ₁₀	0.66	2.91
		SO ₂	0.21	0.92
		VOC	2.87	2.78

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			lb/hr	TPY**
BO-103	Auxiliary Boiler (Natural Gas - Primary Fuel)	CO	24.00	105.11
		NO _x	13.20	57.82
		PM ₁₀	1.82	7.96
		SO ₂	0.68	2.99
		VOC	1.32	5.76
	(Ethane - Backup Fuel)	CO	24.31	106.47
		NO _x	13.20	57.82
		PM ₁₀	1.04	4.57
		SO ₂	0.39	1.72
		VOC	0.43	1.87
DIESEL1	Diesel Tank Vent	VOC	0.08	0.01
DIESEL2	Diesel Tank Vent	VOC	0.27	0.01
EP-101	Incinerator	CO	0.27	1.16
		H ₂ S	0.01	0.01
		NO _x	0.32	1.38
		PM ₁₀	0.02	0.11
		SO ₂	17.33	75.91
		VOC	0.05	0.21
EP-103	Cooling Towers	PM ₁₀	0.0	0.0
		VOC	2.10	9.20
EP-105	Methanol Tank Vent	VOC	9.59	0.04
EP-106	Corrosion Inhibitor Tank Vent	VOC	0.10	0.01
FLOC	Floculant Tank Vent	VOC	30.66	0.12
KEROSENE1	Kerosene Tank Vent	VOC	0.60	0.01
ME-103	TEG Regeneration Vent	VOC	1.13	4.96
ME-113	Flare	CO	1.86	8.15

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY**
		NO _x 0.93	4.08	
		SO ₂ 0.0	0.0	
		VOC 2.36	10.32	
SV-109	DEA Tank Vent	VOC	0.04	0.01
SV-110	Fresh Caustic Tank Vent	VOC	0.07	0.01
SV-111	Spent Caustic Tank Vent	VOC	0.01	0.02
SV-114	TEG Tank Vent	VOC	0.01	0.01
SV-153	Caustic Day Tank Vent	VOC	0.01	0.01
SV-162	Water Neutralization Tank Vent	VOC	0.01	0.01
SV-230	Caustic Water Blend Tank Vent	VOC	0.01	0.01
TRTCHEM1	Treatment Chemical Tank Vent	VOC	0.66	0.01
TRTCHEM2	Treatment Chemical Tank Vent	VOC	0.66	0.01
Fugitives	Process Fugitives (4)	VOC	2.70	11.85

(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 area name or fugitive source name.

(3) CO - carbon monoxide

H₂S - hydrogen sulfide

NO_x - total oxides of nitrogen

PM₁₀ - particulate matter (PM) 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.

SO₂ - 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.

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

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

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