

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 8978 and PSD-TX-459M3

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**
F-201	Steam Superheater (PSD) (5)	CO	33.12	89.22
		NO _x	4.02	14.68
		PM ₁₀	5.90	17.93
		SO ₂	0.24	0.86
		VOC	2.17	7.92
F-251	Steam Superheater (PSD)	CO	4.2	18.4
		NO _x	23.4	102.5
		PM ₁₀	3.0	13.1
		SO _x	0.8	3.4
		VOC	1.2	5.3
F-252	Hot Oil Heater (PSD)	CO	2.2	9.5
		NO _x	9.3	40.7
		PM ₁₀	1.6	6.8
		SO _x	0.4	1.7
		VOC	0.6	2.7
FL-201	No. 2 Styrene Flare	HCl	0.5	2.1
FL-202	No. 3 Styrene Flare	CO	196.05	8.90
		NO _x	38.39	1.39
		VOC	350.72	1.84
LPV-254	PEB Hotwell Vent	VOC	0.5	2.1
LPV-255	Oxygen Monitors	VOC	0.1	0.4
LPV-256	Oxygen Analyzers	VOC	0.01	0.04

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			lb/hr	TPY**
LPV-257	Refining Analyzers	VOC	0.32	1.39
SP-251	Styrene Truck Loading	VOC	4.43	0.74
SP-252	EB Truck Loading	VOC	2.47	0.04
SP-253	PEB Truck Loading	VOC	0.56	0.12
SP-254	PEB Residue Truck Loading	VOC	0.03	0.01
SP-261	Styrene Railcar Loading	VOC	6.16	5.91
ST-152	Styrene Storage Tank	STY	14.5	7.3
ST-251	PEB Storage Tank	VOC	0.10	0.08
ST-253	Benzene Storage Tank	VOC	0.27	1.34
ST-254	Styrene Storage Tank	VOC	0.28	0.52
ST-255, ST-256, and ST-257	Three Styrene Storage Tanks	VOC	11.44	12.2
ST-258	Benzene Storage Tank	VOC	1.85	1.28
ST-259	Residue Storage Tank	VOC	0.01	0.08
ST-260	Inhibitor Storage Tank	VOC	4.04	0.20
ST-261	Ethylbenzene Storage Tank	VOC	0.15	0.10
ST-262 and ST-267	Ethylbenzene Storage Tank and Styrene Storage Tank	VOC	6.65	0.92
ST-1213	Ethylene Glycol Storage Tank	VOC	0.01	0.01

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			lb/hr	TPY**
ST-1304	Crude Styrene Storage Tank	VOC	0.33	1.27
ST-1305	Styrene Storage Tank	VOC	10.69	14.09
CT-251	Styrene No. 2 Cooling Tower (4)	VOC	2.1	9.2
CT-252	Styrene No. 3 Cooling Tower PSD (5)	PM ₁₀	2.43	10.63
		VOC	3.23	14.16
FU-251	No. 2 Styrene Process Fugitives (4)	VOC	2.56	11.19
FU-1251	No. 3 Styrene Process Fugitives (4)	VOC	2.63	11.52
S-251	Sumps (4)	VOC	1.7	7.5

(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) CO - carbon monoxide

HCl - hydrogen chloride

NO_x - total oxides of nitrogen

PM₁₀ - particulate matter equal to or less than 10 microns in diameter.

SO₂ - sulfur dioxide

SO_x - sulfur oxides

STY - styrene

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.

(5) PSD-TX-459M3 for PM₁₀

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

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

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

Dated: _____