

EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSION LIMITATIONS

Flexible Permit Numbers 50607, PSDTX331M1, PSDTX804, and PSDTX1017

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.

See Attachment 1 for Source Name and Emission Point Number Index

VOC EMISSION CAP

Source Name	Year	Emission Rates*	
		lb/hr	TPY**
Combustion Units, Tanks, Process Vents, Loading, Fugitives (4), Wastewater, Cooling Towers	Final Flares,	420.31	1173.56

NO_x EMISSION CAP

Source Name	Year	lb/hr	TPY**
Combustion Units, Flares, Process Vents	Final	215.16	907.38

CO EMISSION CAP

Source Name	Year	lb/hr	TPY**
Combustion Units, Flares, Process Vents	Final	552.23	2079.96

SO₂ EMISSION CAP

Source Name	Year	lb/hr	TPY**
Combustion Units, Flares, Process Vents	Final	221.18	683.36
Combustion Units, Process Vents, Cooling Towers	Final	62.04	233.54

BENZENE EMISSION CAP

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Source Name	Year	lb/hr	TPY**
Combustion Units, Tanks, Loading, Flares, Fugitives (4), Wastewater, Cooling Towers Process Vents	Final	18.28	36.73

H₂S EMISSION CAP

Source Name	Year	lb/hr	TPY**
Combustion Units, Tanks, Flares, Process Vents, Fugitives (4)	Final	3.20	12.13

INDIVIDUAL EMISSION LIMITATIONS

EPN (1)	Source Name (2)	Year	Pollutant (3)	lb/hr	TPY**
F-028	DHT/ASU (4)	Final	NH ₃	0.01	0.01
F-100	No. 1 Crude (4)	Final	NH ₃	0.01	0.02
F-850	South Merox Unit (4)	Final	NH ₃	0.01	0.01
F-1000	POU (4)	Final	NH ₃	0.01	0.01
F-1400	Vacuum (4)	Final	NH ₃	0.01	0.01
F-1500	HCU (4)	Final	NH ₃	0.01	0.02
F-2000	ROSE Unit (4)	Final	NH ₃	0.01	0.01
F-2200	DOT/Reformate Splitter (4)	Final	NH ₃	0.17	0.76
F-2300	ATS (4)	Final	NH ₃	0.01	0.01

INDIVIDUAL EMISSION LIMITATIONS

EPN (1)	Source Name (2)	Year	Pollutant (3)	lb/hr	TPY**
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F-2300	SWS (4)	Final	NH ₃	0.01	0.04
F-2400	FCCU (4)	Final	NH ₃	0.04	0.17
F-2400	FCCU Gas Con (4)	Final	NH ₃	0.01	0.01
F-2400	FCCU Merox (4)	Final	NH ₃	0.01	0.01
F-3700	HCU (4)	Final	NH ₃	0.01	0.01
F-3800	No. 2 HDU (4)	Final	NH ₃	0.01	0.02
F-3900	LEU (4)	Final	NH ₃	0.01	0.01
F-4000	No. 1 and No. 2 SRU (4)	Final	NH ₃	0.01	0.04
V-010	FCCU Scrubber Vent	Final	NH ₃	7.15	31.31
		Final	H ₂ SO ₄	13.69	59.96
V-006	No. 1 Reformer Regenerator Vent	Final	Cl ₂	0.40	0.02
V-007	No. 2 Reformer Regenerator Vent	Final	Cl ₂	0.01	0.04
V-008	No. 1 SRU Incinerator	Final	TRS	1.00	4.40
V-009	No. 2 SRU Incinerator	Final	TRS	1.26	5.54

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

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- NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
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.
CO - carbon monoxide
Cl₂ - chlorine
NH₃ - ammonia
H₂S - hydrogen sulfide
TRS - total reduced sulfur
H₂SO₄ - phosphoric 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:
_____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 3, 2010