

**EMISSION SOURCES - EMISSION CAPS AND
INDIVIDUAL EMISSION LIMITATIONS**

Flexible Permit Numbers: 50607, PSD-TX-331M1,
PSD-TX-804, and PSD-TX-1017

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 I for Source Name and Emission Point Number Index

VOC EMISSION CAP

Source Name	Year	<u>Emission Rates*</u>	
		lb/hr	TPY**
Combustion Units, Tanks, Initial until 7/1/05	392.62	1051.62	
Process Vents, Loading, Interim 7/1/05 to 12/31/08	360.39		1049.79
Flares, Fugitives (4), Final After 12/31/08	391.79		1187.30
Wastewater, Cooling Towers			
Subcap-Loading Rack Heavy VOC	33.32	6.56	
and Kerosene and Diesel Storage			

NO_x EMISSION CAP

Source Name	Year	lb/hr	TPY**
Combustion Units, Flares, Initial until 7/1/05	341.98	1462.61	
Process Vents Interim 7/1/05 to 12/31/08		324.97	1387.96
Final 12/31/08			311.47
		1328.68	

CO EMISSION CAP

Source Name	Year	lb/hr	TPY**
Combustion Units, Flares, Initial until 7/1/05		564.27	2132.41
Process Vents Interim 7/1/05 to 12/31/08		579.32	2198.31

Final 12/31/08 2318.28 606.72

SO₂ EMISSION CAP

Source Name	Year	lb/hr	TPY**
Combustion Units, Flares, Process Vents	Initial until 7/1/05	466.38	1831.05
	Interim 7/1/05 to 12/31/08	237.84	716.14
	Final 12/31/08	251.61	772.39

PM EMISSION CAP

Source Name	Year	lb/hr	TPY**
Combustion Units, Process Vents, Cooling Towers	Initial until 7/1/05	69.21	264.44
	Interim 7/1/05 to 12/31/08	67.10	255.09
	Final 12/31/08	68.33	260.29

BENZENE EMISSION CAP

Source Name	Year	lb/hr	TPY**
Combustion Units, Tanks, Loading, Flares, Fugitives (4), Wastewater, Cooling Towers Process Vents	Initial until 7/1/05	17.67	34.04
	Interim 7/1/05 to 12/31/08	17.67	34.04
	Final 12/31/08	18.28	36.74

H₂S EMISSION CAP

Source Name	Year	lb/hr	TPY **
Combustion Units, Tanks, Initial Flares, Process Vents, Fugitives (4)	until 7/1/05	53.05	10.61
	Interim 7/1/05 to 12/31/08	3.16	10.88
	Final 12/31/08	3.62	12.61

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	

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F-100 No. 1 Crude (4) Final NH₃ <0.01 0.02

EPN (1)	Source Name (2)	Year	Pollutant (3)	lb/hr	TPY
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/Reformatte Splitter (4)	Final	NH ₃	0.17	0.76
F-2300	ATS (4)	Final	NH ₃	<0.01	0.01
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-002	FCCU Regenerator Vent	Initial	NH ₃	59.58	104.38
V-010	FCCU Scrubber Vent	Final 7/1/05	NH ₃	7.15	31.31

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Final 7/1/05 H₂SO₄ 13.69 59.96

EPN	Source Name	Year	Pollutant	lb/hr	TPY
V-006	No. 1 Reformer Final Regenerator Vent	Cl ₂ 0.40	0.02		
V-007	No. 2 Reformer Final Regenerator Vent	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
- 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
- H₂SO₄ - sulfuric acid
- H₂S - hydrogen sulfide
- TRS - total reduced sulfur
- (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

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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 October 3, 2008