

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 18936 and PSD-TX-762M2

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 **
22TANK0503	Tank No. 503	VOC	9.72	20.09
22TANK0558	Tank No. 558	VOC	1.31	1.63
22TANK0559	Tank No. 559	VOC	0.25	0.79
22TANK0560	Tank No. 560	VOC	0.39	1.33
22TANK0561	Tank No. 561	VOC	0.25	0.52
22TANK0562	Tank No. 562	VOC	2.87	6.28
22TANK0563	Tank No. 563	VOC	8.70	18.02
22TANK0587	Tank No. 587	VOC	4.25	4.54
22TANK0589	Tank No. 589	VOC	0.42	0.31
22TANK0925	Tank No. 925	VOC	0.34	0.21
55RGNFLUGS	Regenerator Flue Gas Post 2000 Project	CO (5)	144.00	357.85
		NH ₃	3.98	17.48
		NO _x	110.84	235.14
		PM (5)	46.44	145.34
		SO _x	108.59	83.76
		VOC	7.53	20.07
102	Heater Crude Unit (H-201)	CO (5)	9.57	41.93
		NO _x	26.65	116.73
		PM (5)	1.37	6.0

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			lb/hr	TPY **
141	Refinery Flare (6)	SO ₂	7.35	32.21
		VOC	0.77	3.35
		CO (5)	2.00	8.76
		NO _x	0.34	1.49
		PM (5)	0.03	0.15
		SO _x	0.34	1.47
		VOC	2.30	20.20
142	Refinery Flare (6)	CO (5)	2.00	8.76
		NO _x	0.34	1.49
		PM (5)	0.03	0.15
		SO _x	0.34	1.47
		VOC	2.30	20.20
353	Amine Tank	VOC	<0.01	<0.001
		H ₂ S	<0.01	0.002
441	Tank No. 441	VOC	0.25	1.1
522	Tank No. 522	VOC	0.25	1.1
531	Tank No. 531	VOC	0.94	4.1
536	Tank No. 536	VOC	0.63	2.8
586	Tank No. 586	VOC	0.25	1.1
591	Tank No. 591	VOC	0.21	0.9
902	Tank No. 902	VOC	0.21	0.9
F349	Catalyst Transport	PM (5)	0.02	0.1
55FCCFUG	Process Area Fugitives (4)	H ₂ S	0.01	0.01
		PM (5)	0.4	1.8
		VOC	9.7	42.1

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			lb/hr	TPY **
F351	FPM Cooling Tower	VOC	7.56	33.12
		H ₂ S <0.01	0.02	
F352	Process Fugitives (4)	Benzene	<0.002	0.01
		H ₂ S	<0.002	0.02
58GSHDSFUG	FCC Naphtha HDS Unit Fugitives	VOC	3.58	15.70
		H ₂ S	0.02	0.07
58GSHDSCTR	FCC Naphtha HDS Cooling Tower	VOC	0.13	0.55

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. 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
CO - carbon monoxide
NH₃ - ammonia
NO_x - total oxides of nitrogen
PM - particulate matter, suspended in the atmosphere, including PM₁₀
PM₁₀ - particulate matter 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.
SO_x - sulfur oxides
SO₂ - sulfur dioxide
H₂S - hydrogen sulfide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) PSD_TX_762M2 emissions.
- (6) FIN 58GSHDFUG is included with the flare emissions.

* 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.

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			<u>lb/hr</u>	<u>TPY **</u>

Dated April 28, 2003