EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 18963 and PSD-TX-762M3

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 **
02ACU2H201	Heater Crude Unit (H-201)	CO (5)	5.53	24.24
		NO_x	9.93	43.51
		PM_{10} (5)	0.64	2.82
		SO_2	3.41	6.07
		VOC	0.36	1.58
22TANK0441	Tank No. 441	VOC	1.53	0.65
22TANK0531	Tank No. 531	VOC	0.84	2.21
22TANK0536	Tank No. 536	VOC	6.53	0.43
22TANK0558	Tank No. 558	VOC	0.88	1.22
22TANK0559	Tank No. 559	VOC	0.92	0.43
22TANK0560	Tank No. 560	VOC	0.92	0.60
22TANK0561	Tank No. 561	VOC	0.92	0.59
22TANK0562	Tank No. 562	VOC	0.34	4.22
22TANK0563	Tank No. 563	VOC	1.29	4.22
22TANK0587	Tank No. 587	VOC	7.98	7.37
22TANK0902	Tank No. 902	VOC	10.01	3.03
22TANK0589	Tank No. 589	VOC	1.18	

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	Emission Rates * TPY **
22TANK0925	Tank No. 925	VOC	1.20	
	Annual Emission Cap for Tanks 589 and 925	VOC		0.39
45DOCK2PCV	Dock 2	VOC	13.82	0.47
55RGNFLUGS	Regenerator Flue Gas Post 2000 Project (8)	CO (5)	144.00	357.85
		NH_3	3.98	17.48
		NO_x	110.84	235.14
		PM/PM_{10} (5) (6)	41.23	145.34
		SO_x 108.59	83.76	
		VOC	7.53	20.07
	Regenerator Flue Gas Post 2006 Project (9)	CO	143.69	180.34
		NH_3	3.92	15.50
		NO_x	82.42	235.13
		PM/PM_{10} (7) (6)	52.96	186.66
		SO_x 81.91	106.52	
		VOC	5.63	18.06
55FCCUHOP	Catalyst Transport	PM (5)	0.02	0.10
58GSHDSCTR	FCC Naphtha HDS Cooling Tower	VOC	0.13	0.55
67FPMCLTWR	FPM Cooling Tower	VOC	7.56	33.12
55FCCUFUG	Process Area Fugitives (4)	H_2S	0.05	0.22
		PM (5)	0.41	1.80
		VOC	10.59	46.38
55OFFGSFUG	FCCU Offgas Process	VOC	0.67	3.00

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES
Fugitives (4)

58GSHDSFUG	FCC Naphtha HDS Unit	H_2S	0.02	0.06
	Process Fugitives (4)	VOC	2.85	12.46

(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) CO - carbon monoxide
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
PM - particulate matter, suspended in the atmosphere, including PM_{10}
PM_{10} - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.
NH_3 - ammonia
SO_x - sulfur oxides
H_2S - hydrogen sulfide
(4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable Special Conditions and permit application representations.
(5) PSD-TX-762M2 emissions
(6) This includes front-half and back-half PM/PM_{10} using the U.S. Environmental Protection Agency Reference Method 5 and equivalent methods.
(7) PSD-TX-762M3 emissions
(8) Pre modification emission rates
(9) Post modification emission rates

* 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 July 5, 2006