EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 46396 and PSDTX1073M1

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, sources, and related activities. 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	
			lbs/hour	TPY (4)
06VDU2CHTR	VDU-2 Heater	NO_x	2.97	11.71
		CO	6.89	13.64
		SO_2	2.37	4.39
		PM	0.74	2.91
		VOC	0.52	2.06
30CKRHTR1	CU - Heater 1	NO_x	2.11	7.18
		CO	14.68	25.10
		SO_2	5.06	8.07
		PM	1.57	5.35
		VOC	1.11	3.78
30CKRHTR2	CU - Heater 2	NO_x	2.11	7.18
		CO	14.68	25.10
		SO_2	5.06	8.07
		PM	1.57	5.35
		VOC	1.11	3.78
31KNHTHTR	KNHT Charge Heater	NO_x	1.26	1.38
		CO	2.92	1.61
		SO_2	1.01	0.52
		PM	0.31	0.34
		VOC	0.22	0.24

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

43DHT3CHTR	DHT-3 Charge Heater	NO_x	1.50	5.91
		CO	3.48	6.89
		SO_2	1.20	2.22
		PM	0.37	1.47
		VOC	0.26	1.04
25SRUINCIN	SRU4 Incinerator	NO_x	6.40	14.59
		CO	39.53	36.85
		SO_2	55.31	136.66
		PM	0.60	1.36
		VOC	0.43	0.98
		H_2S	0.03	0.07
36SRUINCIN	SRU 5 Incinerator	NO_x	6.40	14.59
		CO	39.53	36.85
		SO_2	55.31	136.66
		PM	0.60	1.36
		VOC	0.43	0.98
		H_2S	0.03	0.07
22TANK0441	Tank 441	VOC	31.88	4.27
22TANK0516	Tank 516 (7)	VOC	0.21	0.10
	Tank 516 (8)	VOC	7.60	1.82
22TANK0522	Tank 522 (7)	VOC	0.20	0.28
	Tank 522 (8)	VOC	0.48	(13)
22TANK0526	Tank 526	0.71 VOC	1.05 0.71	1.05
22TANK0537	Tank 537 (7)	VOC	0.28	0.45

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

	Tank 537 (8)		VOC	0.68	(13)
22TANK0545	Tank 545 (7)		VOC	0.83	0.40
	Tank 545 (8)		VOC	1.14	0.40
22TANK0586	Tank 586 (7)	0.63	VOC	0.09	0.63
	Tank 586 (8)		VOC	8.50	1.47
22TANK0587	Tank 587		VOC	50.62	4.97
22TANK0588	Tank 588		VOC	0.61	0.49
22TANK0591	Tank 591		VOC	0.64	0.41
22TANK0597	Tank 597		VOC	1.88	0.36
22TANK0598	Tank 598		VOC	1.88	0.36
22TANK0599	Tank 599 (7)		VOC	0.28	0.23
	Tank 599 (8)		VOC	1.06	0.23
22TANK0902	Tank 902		VOC	31.88	2.90
22TANK0906	Tank 906		VOC	0.98	2.21
22TANK0907	Tank 907		VOC	0.98	2.15
22TANK0919	Tank 919		VOC	0.33	0.92
22TANK0920	Tank 920		VOC	0.24	0.85
22TANK0938	Tank 938		VOC	1.37	3.79
22TANK0939	Tank 939		VOC	1.39	3.65
37TANK1002	Tank 1002		VOC	0.16	0.03
22TANK0948	Tank 948 (7)		VOC	0.83	0.57
	Tank 948 (8)		VOC	1.21	0.57
22TANK0452	Tank 452		VOC	10.80	(9)
22TANK0453	Tank 453		VOC	10.80	(9)
22TANK0454	Tank 454		VOC	10.80	(9)

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

22TANK0455	Tank 455	VOC	10.77	(9)
22TANK0475	Tank 475	VOC	13.19	(9)
22TANK0476	Tank 476	VOC	13.19	(9)
22TANK0477	Tank 477	VOC	11.36	(9)
22TANK0478	Tank 478	VOC	11.36	(9)
22TANK0479	Tank 479	VOC	11.36	(9)
22TANK0480	Tank 480	VOC	9.08	(9)
22TANK0481	Tank 481	VOC	9.09	(9)
22TANK0482	Tank 482	VOC	8.89	(9)
22CRUDECAP	Crude Cap	VOC	---	37.98
22TANK0532	Tank 532	VOC	4.30	(10)
22TANK0541	Tank 541	VOC	3.10	(10)
22TANK0542	Tank 542	VOC	3.17	(10)
22TANK0935	Tank 935	VOC	2.37	(10)
22GASCAP	Gasoline Cap	VOC	---	40.73
22TANK0525	Tank 525 (7)	VOC	0.85	(10)
	Tank 525 (8)	VOC	1.22	(10)
22TANK0543	Tank 543	VOC	0.66	(11)
22TANK0909	Tank 909	VOC	0.67	(11)
22TANK0940	Tank 940	VOC	0.71	(11)
22TANK0910	Tank 910 (7)	VOC	1.19	3.21
	Tank 910 (8)	VOC	0.66	(11)
22JETCAP	Jet Cap (7)	VOC	---	0.38
	Jet Cap (8)	VOC	---	0.43
22TANK0524	Tank 524	VOC	11.29	(12)

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

22TANK0917	Tank 917	VOC	31.88	(12)
22TANK0918	Tank 918	VOC	31.88	(12)
22TANK0921	Tank 921 (7)	VOC	3.93	0.67
	Tank 921 (8)	VOC	0.63	1.39
22TANK0922	Tank 922 (7)	VOC	3.93	0.67
	Tank 922 (8)	VOC	0.63	1.39
22TANK0934	Tank 934	VOC	11.29	(12)
22TANK0933	Tank 933	VOC	20.07	(12)
22DIESELCAP	Diesel Cap (7)	VOC	---	14.50
	Diesel Cap (8)	VOC	---	15.23
22TANK0558	Tank 558	VOC	0.31	(13)
22TANK0559	Tank 559 (7)	VOC	0.60	(13)
	Tank 559 (8)	VOC	0.48	(13)
22TANK0560	Tank 560	VOC	0.31	(13)
22TANK0561	Tank 561	VOC	0.31	(13)
22GASOILCAP	Gas Oil Cap (7)	VOC	---	0.25
	Gas Oil Cap (8)	VOC	---	0.82
22TANK0589	Tank 589	VOC	0.57	(14)
22TANK0925	Tank 925	VOC	0.57	(14)
22TANK0506	Tank 506	VOC	0.89	2.66
67TANK0401C	Tank 401C	VOC	0.01	0.01
67TANK0500C	Tank 500C	VOC	4.26	0.31
22TANK0814	Tank 814	VOC	0.33	1.44
22TANK0815	Tank 815	VOC	0.27	1.18
38V107	SW Skimmed Oil (Tank 38V-107)	VOC	0.01	0.01

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

22CBOCAP	Carbon Black Oil Cap	VOC	---	0.16
30CKRTRKLD	Coke Handling	PM	0.21	0.86
30DCPCT1	DCP Cooling Tower	PM	0.32	1.42
		VOC	0.60	2.65
22OSFTKFUG	Piping Fugitives (4)	VOC	1.28	5.58
45DOCKTO1	Marine Terminal Thermal Oxidizer 1	VOC	5.82	(5)
		NO_x	10.08	(5)
		CO	15.42	(5)
		SO_2	0.14	(5)
45DOCKTO2	Marine Terminal Thermal Oxidizer 2	VOC	11.63	(5)
		NO_x	19.51	(5)
		CO	29.84	(5)
		SO_2	0.16	(5)
45DOCKTOCAP	Marine Terminal Thermal Oxidizers 1 and 2 Cap	VOC		3.40
		NO_x		4.95
		CO		14.67
		SO_2		0.02
45DOCK1LDG	Dock 1 Loading Losses	VOC	29.54	(6)
45DOCK2LDG	Dock 2 Loading Losses	VOC	29.54	(6)
45DOCK3LDG	Dock 3 Loading Losses	VOC	29.54	(6)
45DOCKLDGCAP	Annual Dock Loading Cap	VOC	---	12.65
45DOCK1FUG	Dock 1 Equipment Fugitives (4)	VOC	1.57	6.87
45DOCK3FUG	Dock 3 Equipment Fugitives (4)	VOC	1.57	6.87

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

06VDU2FUGS	VDU-2 Fugitives (4)	VOC	1.73	7.56
		H_2S	0.03	0.14
30CKRFUGS	CU Fugitives (4)	VOC	6.60	28.90
		NH_3	0.01	0.01
		H_2S	0.21	0.90
43DHT3FUGS	DHT-3 Fugitives (4)	VOC	1.53	6.70
		H_2S	0.08	0.34
		NH_3	0.01	0.01
42FGTFUGS	ARU-2 Fugitives (4)	VOC	0.31	1.35
		H_2S	0.07	0.31
		NH_3	0.01	0.01
39SWS3FUGS	SWS-3 Fugitives (4)	VOC	0.02	0.08
		H_2S	0.06	0.26
		NH_3	0.02	0.09
47SWS4FUGS	SWS-4 Fugitives (4)	VOC	0.01	0.01
		NH_3	0.01	0.03
		H_2S	0.01	0.03
34SRU4FUGS SRU 4/TGU 4	SRU 4/TGU 4 Fugitives (4)	VOC	0.21	0.91
		H_2S	0.13	0.57
		NH_3	0.02	0.08
35SRU5FUGS	SRU 5/TGU 5 Fugitives (4)	VOC	0.21	0.91
		NH_3	0.02	0.08
		H_2S	0.13	0.57
31KNHTFUGS	KNHT Fugitives (4)	VOC	1.05	4.61
		NH_3	0.01	0.01

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

		H_2S	0.05	0.22
19PSAFUGS	PSA Fugitives (4)	VOC	0.41	1.82
22TKDCPFUG	DCP Tank Fugitives (4)	VOC	0.05	0.20
22TK926FLR	Tank 926 Flare	VOC	0.01	0.01
50BZTNKFLR	Tanks 928, 929, and 930 Flare	VOC	0.06	0.04
		NO_x	0.58	5.22
		CO	0.56	7.32
30CKRFLARE	Coker Flare	NO_x	0.01	0.01
		CO	0.01	0.04
		SO_2	0.01	0.05
		VOC	0.04	0.14
		H_2S	0.01	0.01
01ACU1FUGS	ACU-1 Fugitives (4)	VOC	5.58	24.45
		H_2S	0.01	0.02
		NH_3	0.01	0.01
02ACU2FUGS	ACU-2 Fugitives (4)	VOC	8.34	36.53
		H_2S	0.09	0.06
		NH_3	0.01	0.01
51DHT1FUGS	DHT-1 Fugitives (4)	VOC	3.35	14.68
		H_2S	0.05	0.21
		NH_3	0.01	0.01
52DHT2FUGS	DHT-2 Fugitives (4)	VOC	4.73	20.70
		H_2S	0.01	0.06
		NH_3	0.01	0.02
28LPGFUG	LPG Fugitives (4)	VOC	1.59	6.97

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

13UNIBFUGS	Unibon Fugitives (4)	VOC	5.86	25.67
		H_2S	0.33	1.46
		NH_3	0.01	0.01
30AMSTFUGS	NH_3 Storage Fugitives (4)	NH_3	0.02	0.11
22CRTNKFUG	Crude Storage Tank Fugitives (4)	VOC	0.51	2.22
22ASTNKFUG	Asphalt/Asphalt Blendstock Storage Tank Fugitives (4)	VOC	0.12	0.53
22GOTNKFUG	Gas Oil Storage Tank -Fugitives (4)	VOC	0.16	0.70
45DOCK2FUG	Dock 2 Piping Fugitives (4)	VOC	0.31	1.34
22TANK0502	Light Raffinate Storage Tank	VOC	1.56	2.73
22TANK0538	Gasoline Storage Tank	VOC	39.86	1.94
22TANK0572	Toluene Storage Tank	VOC	0.34	0.32
22TANK0650	Toluene Storage Tank	VOC	0.34	0.18
22TANK0651	Toluene Storage Tank	VOC	0.34	0.18
22TANK0574	Heavy Raffinate Storage Tank	VOC	0.91	0.80
22TANK0924	No. 6 Oil Storage	VOC	0.39	0.01
22TKFMFUGS	Tank Farm Fugitives (4)	VOC	0.78	3.44
08ALKYFUGS	Butane Storage Tank Fugitives (4)	VOC	1.52	6.66

(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.

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
CO - carbon monoxide
SO_2 - sulfur dioxide
PM - particulate matter, suspended in the atmosphere, including PM_{10}
PM_{10} - particulate matter (PM) 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.
H_2S - hydrogen sulfide
NH_3 - ammonia

(4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.

(5) Annual emission rates shown with 45DOCKTO1/45DOCKTO2 CAPS are the summed emission caps for 45DOCKTO1 and 45DOCKTO2.

(6) Annual emission rates for 45DOCK1LDG, 45DOCK2LDG and 45DOCK3LDG are the summed emission cap for 45 DOCKLDGCAP.

(7) Emission rates listed are in effect until these emission sources are placed into Deep Conversion Project mode of operations.

(8) Emission rates listed become effective upon these sources being placed into Deep Conversion Project mode of operations.

(9) Annual VOC emission rate is included in the Crude Cap (EPN 22CRUDECAP).

(10) Annual VOC emission rate is included in the Gasoline Cap (EPN 22GASCAP).

(11) Annual VOC emission rate is included in the Jet Cap (EPN 22JETCAP).

(12) Annual VOC emission rate is included in the Diesel Cap (EPN 22DIESELCAP).

(13) Annual VOC emission rate is included in the Gas Oil Cap (EPN 22GASOILCAP).

(14) Annual VOC emission rate is included in the Carbon Black Oil Cap (EPN 22CRUDECAP).

Date: April 14, 2011