Emission Sources, Emission Caps, and Individual Emission Limitations

Flexible Permit Numbers 6308 and PSDTX137M2

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)
Routine Operating Emission Caps				
Fired Units		NO_x	419.50	881.02
		CO	286.83	476.03
		SO_2	255.18	156.07
Fired Units, Cooling Towers (7)		PM	48.55	183.11
Fired Units, Cooling Towers, Tanks, Fugitives (5), Wastewater, Miscellaneous		VOC	370.57	467.04
Cooling Towers (7)		Cl_2	0.01	0.01
Selected Tanks Emission Caps (8)				
Tanks E11TKS21, E11TKS23, E11TKR17, and E11TKR18		Toluene	1.34	3.01
Tanks E11TKS32, E11TKR9, and E11TKS21		Xylene	6.55	7.48
Tanks E12TK145 and E12TK146		Benzene	0.60	0.54
Maintenance, Startup, and Shutdown (MSS) Emission Caps (6)				
Planned MSS		NO_x	404.52	15.63
		CO	390.2	19.35
		SO_2	1395.86	30.81
		PM	17.43	0.83
		PM_{10}	13.90	0.32
		$PM_{2.5}$	13.90	0.32
		VOC	1269.60	25.63
		H_2S	6.06	0.28
		HCl	0.58	0.03

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Individual Emission Rate Limits				
FL-97/FL-28/FL-27	Main, West, and East Flares	VOC	38.19	99.19
		NO_x	4.06	11.50
		CO	20.92	59.22
		SO_2	7.30	31.27
		H_2S	0.08	0.33
C-108	BTX Cooling Tower	PM	0.17	0.74
		Cl_2	0.01	0.01
C-109	Crude II Cooling Tower	PM	0.24	1.05
		Cl_2	0.01	0.01
C-110	Hydrobon Cooling Tower	PM	0.29	1.26
		Cl_2	0.01	0.01
E29H417	SRU No. 1 Heater	VOC	0.02	0.09
		NO_x	0.58	2.53
		CO	0.31	1.36
		PM	0.03	0.12
		SO_2	0.12	0.32
F-SRU1	SRU No. 1 Fugitives (5)	VOC	0.11	0.47
		CO	0.03	0.15
		H_2S	0.07	0.31
FL-87	SRU No. 1 Flare	VOC	0.02	0.04
		NO_x	0.09	0.20
		CO	0.77	1.69
		SO_2	0.02	0.03
S-84, S-85	SRU No. 1 and No. 2 Tail Gas Incinerator Stacks (TGI)	VOC	0.13	0.56
		NO_x	2.34	10.30
		CO	14.40	62.90
		PM	0.18	0.78
		SO_2	39.04	171.01
		H_2S	0.42	1.82
F-SRU2	SRU No. 2 Fugitives	VOC	0.11	0.47
		CO	0.03	0.15
		H_2S	0.07	0.29

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FL-88	SRU No. 2 Acid Gas Flare	VOC	0.02	0.04
		NO_x	0.09	0.20
		CO	0.77	1.69
		SO_2	0.02	0.03
PROPFRZTST	Propane Freeze Test	VOC	5.10	3.72
E13P45	Firewater Diesel Engine E13P45	VOC	0.12	0.05
		NO_x	6.22	2.73
		CO	1.08	0.47
		PM_{10}	0.44	0.19
		SO_2	0.96	0.42
E13P46	Firewater Diesel Engine E13P46	VOC	0.12	0.05
		NO_x	6.22	2.73
		CO	1.08	0.47
		PM_{10}	0.44	0.19
		SO_2	0.96	0.42
E13P47	Firewater Diesel Engine E13P47	VOC	0.12	0.05
		NO_x	6.22	2.73
		CO	1.08	0.47
		PM_{10}	0.44	0.19
		SO_2	0.96	0.42
E13TK39	Diesel Tank for E13P45	VOC	0.01	0.03
E13TK40	Diesel Tank for E13P46	VOC	0.01	0.03
E13TK41	Diesel Tank for E13P47	VOC	0.01	0.03
E11TK323	E11TK323	H_2S	0.02	0.08
E11TKS7	E11TKS7	H_2S	0.03	0.12
E11TKS8	E11TKS8	H_2S	0.02	0.10
E11TKS30	E11TKS30	H_2S	0.01	0.06

(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
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented

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PM_{10}	- total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
CO	- carbon monoxide
Cl_2	- chlorine
H_2S	- hydrogen sulfide
HCl	- hydrogen chloride

(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
(6) MSS activities and emission points are identified in Attachment C.
(7) Only the FCCU and sulfolane cooling towers are included in the PM and Cl_2 emission caps.

Date: August 13, 2018