Emission Sources - Maximum Allowable Emission Rates

Permit Number 32769 and PSDTX1258M1

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)
S-400M1	Storage Tank S-400M1	VOC	21.90	21.24
		H_2S	0.38	0.06
S-400M2	Storage Tank S-400M2	VOC	21.90	21.24
		H_2S	0.38	0.06
S-400M3	Storage Tank S-400M3	VOC	21.90	21.24
		H_2S	0.38	0.06
S-400M4	Storage Tank S-400M4	VOC	21.90	21.24
		H_2S	0.38	0.06
Storage Tanks S-400M1, S-400M2, S-400M3, and S-400M4 annual emission CAP		VOC	---	53.11
S-101	Storage Tank 101	VOC	7.36	---
S-102	Storage Tank 102	VOC	7.36	---
S-103	Storage Tank 103	VOC	7.36	---
S-104	Storage Tank 104	VOC	7.36	---
S-201	Storage Tank 201	VOC	1.80	---
S-202	Storage Tank 202	VOC	1.43	---
S-203	Storage Tank 203	VOC	0.64	---
S-204	Storage Tank 204	VOC	1.91	---
S-205	Storage Tank 205	VOC	0.86	---
S-206	Storage Tank 206	VOC	1.57	---
S-207	Storage Tank 207	VOC	2.08	---
Storage Tanks S-101 through S-207 annual emission CAP		VOC	---	15.40

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F-1 and F-2	Fugitive Components (5)	VOC	2.77	12.12
		H_2S	0.02	0.03
F-16	Fugitive Components (5)	VOC	0.92	4.01
		H_2S	<0.01	<0.01
B-1	Oil Dock 1	VOC	178.45	361.94
		H_2S	0.47	1.12
B-2A	Oil Dock 2 (Refined Products)	VOC	178.45	25.51
B-16	NuStar Dock 16	VOC	142.15	201.86
		H_2S	0.47	0.67
B-1, B-2A, and B-16 combined annual emission CAP		VOC	---	361.94
		H_2S	---	1.12
VCU-2	Vapor Combustor No. 2 (Refined Products from Oil Dock 2 Loading Arm B-2A)	VOC	67.81	9.05
		NO_X	9.43	1.55
		CO	18.82	3.08
		PM	0.51	0.07
		PM_{10}	0.51	0.07
		$PM_{2.5}$	0.51	0.07
VCU-2	Vapor Combustor No. 2 (Crude/Condensate from Oil Dock 2 Loading Arm B-2B)	VOC	28.43	38.14
		NO_X	8.64	18.93
		CO	17.25	37.79
		PM	0.47	1.02
		PM_{10}	0.47	1.02
		$PM_{2.5}$	0.47	1.02
		SO_2	16.50	21.39
		H_2S	0.09	0.12

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VCU-2	Vapor Combustor No. 2	VOC	--	47.19
		NO_X	--	20.48
		CO	--	40.87
		PM	--	1.09
		PM_{10}	--	1.09
		$PM_{2.5}$	--	1.09
		SO_2	--	21.39
		H_2S	--	0.12
VCU-3	Vapor Combustor No. 3	VOC	27.51	64.10
		NO_X	12.72	23.98
		CO	25.39	47.88
		PM	0.69	1.29
		PM_{10}	0.69	1.29
		$PM_{2.5}$	0.69	1.29
		SO_2	16.65	39.38
		H_2S	0.09	0.21
VCU-4	Vapor Combustor No. 4	VOC	36.22	50.96
		NO_X	17.35	28.00
		CO	34.63	55.91
		PM	0.94	1.51
		PM_{10}	0.94	1.51
		$PM_{2.5}$	0.94	1.51
		SO_2	21.91	31.14
		H_2S	0.12	0.17
VCU-2, VCU-3, VCU-4, and VCU-5	Combined Annual Emission CAP	VOC	---	64.10
		NO_X	---	28.00

Emission Sources - Maximum Allowable Emission Rates

		CO	---	55.91
		PM	---	1.51
		PM_{10}	---	1.51
		$PM_{2.5}$	---	1.51
		SO_2	---	39.38
		H_2S	---	0.21
VCU-5	Back-up Vapor Combustor No. 5 (Back-up for VCU-2) (6)(7)	VOC	---	47.19
		NO_X	---	20.48
		CO	---	40.87
		PM	---	1.09
		PM_{10}	---	1.09
		$PM_{2.5}$	---	1.09
		SO_2	---	21.39
		H_2S	---	0.12
	Back-up Vapor Combustor No. 5 (Back-up for VCU-3) (8)	VOC	27.51	64.10
		NO_X	12.72	23.98
		CO	25.39	47.88
		PM	0.69	1.29
		PM_{10}	0.69	1.29
		$PM_{2.5}$	0.69	1.29
		SO_2	16.65	39.38
		H_2S	0.09	0.21

(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
CO - carbon monoxide
H_2S - hydrogen sulfide
PM - particulate matter, suspended in the atmosphere, including PM10
PM_{10} - particulate matter equal to or less than 10 microns in diameter
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
(4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.

Emission Sources - Maximum Allowable Emission Rates

(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
(6) Maximum hourly emissions are limited to the maximum hourly emissions authorized for each loading arm (B-2A and B-2B) for EPN VCU-2.
(7) Annual Emissions are a subcap of VCU-2
(8) Annual Emissions are a subcap of VCU-3

Date: August 11, 2015