Emission Sources - Maximum Allowable Emission Rates

Permit Number 32769 and PSDTX1258M4

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-100M1	Crude Oil/ Condensate Storage Tank	VOC	10.01	—
		H_2S	0.03	—
S-100M2	Crude Oil/ Condensate Storage Tank	VOC	9.82	—
		H_2S	0.03	—
S-100M 3	Crude Oil/ Condensate Storage Tank	VOC	10.02	—
		H_2S	0.03	—
B-sAS-100M4	Crude Oil/ Condensate Storage Tank	VOC	10.02	—
		H_2S	0.03	—
S-100M5	Crude Oil/ Condensate Storage Tank	VOC	10.02	—
		H_2S	0.03	—
S-100M6	Crude Oil/ Condensate Storage Tank	VOC	10.02	—
		H_2S	0.03	—
S-100M7	Crude Oil/ Condensate Storage Tank	VOC	10.39	—
		H_2S	0.03	—
S-100M8	Crude Oil/ Condensate Storage Tank	VOC	10.39	—
		H_2S	0.03	—
S-100M9	Crude Oil/ Condensate Storage Tank	VOC	10.02	—
		H_2S	0.03	—
S-200M1	Storage Tank S-200M1	VOC	28.61	—
		H_2S	0.08	—
S-200M2	Storage Tank S-200M2	VOC	28.61	—
		H_2S	0.08	—
S-200M3	Storage Tank S-200M3	VOC	28.61	—
		H_2S	0.08	—
S-200M4	Storage Tank S-200M4	VOC	26.14	—
		H_2S	0.07	—
S-200M5	Storage Tank S-200M5	VOC	26.14	—
		H_2S	0.07	—
S-200M6	Storage Tank S-200M6	VOC	26.14	—
		H_2S	0.07	—

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S-200M7	Storage Tank S-200M7	VOC	25.73	—
		H_2S	0.07	—
S-200M8	Storage Tank S-200M8	VOC	25.73	—
		H_2S	0.07	—
S-200M9	Storage Tank S-200M9	VOC	25.73	—
		H_2S	0.07	—
S-400M1	Storage Tank S-400M1	VOC	21.01	—
		H_2S	0.06	—
S-400M2	Storage Tank S-400M2	VOC	21.01	—
		H_2S	0.06	—
S-400M3	Storage Tank S-400M3	VOC	21.01	—
		H_2S	0.06	—
S-400M4	Storage Tank S-400M4	VOC	21.01	—
		H_2S	0.06	—
TankCap	TankCap	VOC	--	194.96
		H_2S	--	0.27
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-201 through S-207 annual emission CAP		VOC	---	15.40
F-1 F-2	Fugitive Components (5)	VOC	2.77	12.12
		H_2S	0.02	0.03
F-15	Fugitive Components (5)	VOC	0.61	2.65
		H_2S	<0.01	<0.01
F-16	Fugitive Components (5)	VOC	0.61	2.65
		H_2S	<0.01	<0.01
F-100	Fugitive Components (5)	VOC	0.84	3.69
		H_2S	<0.01	<0.01
F-400	Fugitive Components (5)	VOC	0.19	0.82
		H_2S	<0.01	<0.01
F-200	Fugitive Components (5)	VOC	0.11	0.49
		H_2S	<0.01	<0.01

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B-1	Oil Dock 1	VOC	31.59	20.18
		H_2S	0.09	0.03
B-15	NuStar Dock 15	VOC	31.59	20.18
		H_2S	0.09	0.03
B-16	NuStar Dock 16	VOC	31.59	20.18
		H_2S	0.09	0.03
B-1, B-15, B-16 Combined Annual Emission Cap (7)		VOC	—	20.18
		H_2S	—	0.03
B-2A (6)	Oil Dock 2 (Refined Products)	VOC	35.69	6.45
VCU-2	VCU-2 (Refined products from Oil Dock 2 Loading Arm B-2A) (8)	VOC	35.33	5.01
		NO_x	9.75	1.60
		CO	19.47	3.19
		PM	0.53	0.09
		$PM_{2.5}$	0.53	0.09
		PM_{10}	0.53	0.09
VCU-2	VCU-2 (Oil Dock 2-Crude/Condensate from Oil Dock 2 Loading Arm B-2B) (8)	VOC	31.59	39.21
		NO_x	4.08	8.59
		CO	17.41	36.62
		SO_2	16.65	10.27
		PM	0.47	0.99
		$PM_{2.5}$	0.47	0.99
		PM_{10}	0.47	0.99
		H_2S	0.09	0.05
VCU-3	Vapor Combustor No. 3 (8)	VOC	15.78	78.39
		NO_x	10.61	44.84
		CO	33.72	142.48
		SO_2	16.63	37.83
		PM	0.91	3.85
		$PM_{2.5}$	0.91	3.85
		PM_{10}	0.91	3.85
		H_2S	0.04	0.10

Emission Sources - Maximum Allowable Emission Rates

VCU-4	Vapor Combustor No. 4 (8)	VOC	15.78	78.39
		NO_x	10.61	44.84
		CO	33.72	142.48
		SO_2	16.63	37.83
		PM	0.91	3.85
		$PM_{2.5}$	0.91	3.85
		PM_{10}	0.91	3.85
		H_2S	0.04	0.10
VCU-5	Vapor Combustor No. 5 (8)	VOC	15.78	78.39
		NO_x	10.61	44.84
		CO	33.72	142.48
		SO_2	16.63	37.83
		PM	0.91	3.85
		$PM_{2.5}$	0.91	3.85
		PM_{10}	0.91	3.85
		H_2S	0.04	0.10
VCU-2, 3, 4, 5, Combined Annual Cap (8)		VOC	—	83.41
		NO_x	—	44.84
		CO	—	145.67
		SO_2	—	37.83
		PM	—	3.94
		$PM_{2.5}$	—	3.94
		PM_{10}	—	3.94
		H_2S	—	0.10
MSS-NB-Controlled	Controlled Tank Roof MSS Emissions (North Beach) (9)	VOC	32.13	0.32
		NO_x	2.76	0.55
		CO	5.51	1.10
		SO_2	0.34	0.07
		PM	0.15	0.03
		$PM_{2.5}$	0.15	0.03
		PM_{10}	0.15	0.03
		H_2S	<0.01	0.01
MSS-NB-ATM	MSS Emissions (North Beach) to atmosphere	VOC	48.86	0.39
		H_2S	0.14	<0.01
T1334	Storage Tank 1334	VOC	0.23	0.26

Emission Sources - Maximum Allowable Emission Rates

	Shutdown- Temporary VCU (100 Series) (10)	SO_2	0.34	0.07
		NO_x	2.76	0.55
		CO	5.51	1.10
		PM	0.15	0.03
		PM_{10}	0.15	0.03
		$PM_{2.5}$	0.15	0.03
		H_2S	<0.01	0.01
MSS-100-ATM	MSS emissions (100 Series) to atmosphere	VOC	38.99	0.31
		H_2S	0.11	<0.01

(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
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
H_2S - hydrogen sulfide
(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) Maximum hourly emissions are limited to the maximum hourly emissions authorized for each loading arm (B-2A and B-2B) for EPN VCU-3.
(7) Cap applies to total emissions for the following EPNs: B-1, B-15 and B-16.
(8) Cap applies to total emissions for the following EPNs: VCU-2, 3, 4, and 5.EPN VCU 2 includes Refined products from Oil Dock 2 Loading Arm B-2A and Oil Dock 2-Crude/Condensate from Oil Dock 2 Loading Arm B-2B.
(9) Applies to FINs: S-200M4, S-200M5 and S-200M6. Total emissions include the products of combustion of controlled MSS activities plus pilot/assist gas emissions; tank MSS will not occur simultaneously for more than one tank.
(10) Applies to FINs: S-100M1, S-100M2, S-100M3, S-100M4, S-100M5, S-100M6, S-100M7, S-100M8 and S-100M9. Total emissions include the products of combustion of controlled MSS activities; tank MSS will not occur simultaneously for more than one tank.

Date: October 20, 2020