

Emission Sources - Maximum Allowable Emission Rates

Permit Number 119683

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)
V-1, 2	Vapor Combustor - Loading	NO _x	-	18.86
		CO	-	29.02
		SO ₂	36.97	3.37
		H ₂ S	0.39	0.04
		VOC	4.49	3.07
		PM	9.80	6.18
		PM ₁₀	9.80	6.18
		PM _{2.5}	9.80	6.18
	Vapor Combustor – Tank Roof Landings	NO _x	-	0.40
		CO	-	0.61
		SO ₂	15.72	0.08
		H ₂ S	0.17	<0.01
		VOC	1.70	0.13
		PM	1.47	0.12
		PM ₁₀	1.47	0.12
		PM _{2.5}	1.47	0.12
	Vapor Combustor – Natural Gas	NO _x	-	0.12
		CO	-	0.19
		SO ₂	0.63	1.40
		H ₂ S	<0.01	<0.01
		VOC	0.03	0.06
	Vapor Combustor – Tank Initial Fill	NO _x	-	0.04
		CO	-	0.07
		SO ₂	15.72	0.03

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		H ₂ S	0.17	<0.01
		VOC	1.42	0.01
		PM	1.47	0.04
		PM ₁₀	1.47	0.04
		PM _{2.5}	1.47	0.04
	Vapor Combustor – CAP without initial fill (7)	NO _x	56.16	19.39
		CO	86.40	29.82
		SO ₂	37.60	4.85
		H ₂ S	0.39	0.04
		VOC	4.52	3.26
		PM	9.80	6.30
		PM ₁₀	9.80	6.30
		PM _{2.5}	9.80	6.30
	Vapor Combustor – CAP with initial fill (8)	NO _x	56.16	19.47
		CO	86.40	29.96
		SO ₂	37.60	4.88
		H ₂ S	0.39	0.04
		VOC	4.52	3.27
		PM	9.80	6.34
		PM ₁₀	9.80	6.34
		PM _{2.5}	9.80	6.34

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EMERGEN1	Emergency Generator Engine 1	NO _x	1.32	0.03
		CO	2.65	0.07
		SO ₂	0.01	<0.01
		H ₂ S	<0.01	<0.01
		VOC	0.70	0.02
		PM	0.01	<0.01
		PM ₁₀	0.01	<0.01
		PM _{2.5}	0.01	<0.01
EMERGEN2	Emergency Generator Engine 2	NO _x	0.68	0.02
		CO	1.35	0.04
		SO ₂	<0.01	<0.01
		H ₂ S	<0.01	<0.01
		VOC	0.36	0.01
		PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
MSSFUG	Pump Maintenance	VOC	0.02	<0.01
		H ₂ S	<0.01	<0.01
	Pigging	VOC	8.54	0.46
		H ₂ S	0.02	<0.01
	Sample Pots and Strainers	VOC	0.27	0.19
		H ₂ S	<0.01	<0.01
VACUUMCAS	Vacuum Trucks	VOC	0.03	0.14
		H ₂ S	<0.01	0.01
PIPELINECAS	Pipeline Openings	VOC	<0.01	<0.01
		H ₂ S	<0.01	<0.01
TankMSS	Tank Roof Landing - Sludge Removal	VOC	3.89	1.40
		H ₂ S	0.27	0.10
FUG-1	Fugitives (5)	VOC	0.92	4.01

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		H ₂ S	<0.01	<0.01
FUG2-1,2	Loading Arm Disconnects	VOC	0.17	0.05
		H ₂ S	<0.01	<0.01
LOAD	Marine Loading Fugitives	VOC	45.40	31.02
		H ₂ S	0.20	0.02
27610	Crude/Condensate Tank 27610	VOC	10.73	-
		H ₂ S	0.03	-
27620	Crude/Condensate Tank 27620	VOC	10.73	-
		H ₂ S	0.03	-
27630	Crude/Condensate Tank 27630	VOC	10.73	-
		H ₂ S	0.03	-
27640	Crude/Condensate Tank 27640	VOC	10.73	-
		H ₂ S	0.03	-
27650	Crude/Condensate Tank 27650	VOC	10.73	-
		H ₂ S	0.03	-
27660	Crude/Condensate Tank 27660	VOC	10.73	-
		H ₂ S	0.03	-
35010	Crude/Condensate Tank 35010	VOC	10.73	-
		H ₂ S	0.03	-
35020	Crude/Condensate Tank 35020	VOC	10.73	-
		H ₂ S	0.03	-
35030	Crude/Condensate Tank 35030	VOC	10.73	-
		H ₂ S	0.03	-
35040	Crude/Condensate Tank 35040	VOC	10.73	-
		H ₂ S	0.03	-
35050	Crude/Condensate Tank 35050	VOC	10.73	-
		H ₂ S	0.03	-

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35060	Crude/Condensate Tank 35060	VOC	10.73	-
		H ₂ S	0.03	-
IFRCAP (6)	CAP IFR Tanks (6)	VOC	-	27.76
		H ₂ S	-	<0.01
27800	Slop Oil CCAS – Tank 27800	VOC	<0.01	<0.01
		H ₂ S	<0.01	<0.01
27810	Slop Oil CCAS – Tank 27810	VOC	<0.01	<0.01
		H ₂ S	<0.01	<0.01
27820	Tank Farm Sump Tank 27820 CCAS	VOC	0.01	<0.01
		H ₂ S	<0.01	<0.01
27830	Dock Sump Stormwater Tank 27830 CCAS	VOC	0.01	<0.01
		H ₂ S	<0.01	<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
 - SO₂ - sulfur dioxide
 - PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
 - PM₁₀ - 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
 - H₂S - 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) EPN IFRCAP includes Tank Numbers 27610, 27620, 27630, 27640, 27650, 27660, 35010, 35020, 35030, 35040, 35050, and 35060.
- (7) This CAP applies after the initial filling of each internal floating roof (IFR) tank to the point where the internal floating roof has been floated.
- (8) This CAP includes emissions from the initial filling of each IFR tank to the point where the internal floating roof has been floated. This CAP shall not apply after the internal roof of each IFR tank has been floated once.

Date: _____ DATE