

Emission Sources - Maximum Allowable Emission Rates

Permit Number 129231

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)
FL-1	Plant Process Flare	NO _x	7.45	3.89
		CO	14.92	7.93
		VOC	11.05	5.86
		SO ₂	0.34	0.15
		H ₂ S	0.01	0.01
		PM	0.01	0.01
		PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
FLR-2	Back-up RTO Flare	NO _x	9.31	2.38
		CO	79.85	20.37
		VOC	4.43	1.12
		SO ₂	0.61	0.15
		H ₂ S	0.01	0.01
		PM	0.01	0.01
		PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01

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RTO	Regenerative Thermal Oxidizer	NO _x	0.77	3.39
		CO	0.64	2.82
		VOC	2.68	11.74
		SO ₂	6.14	26.91
		H ₂ S	0.07	0.29
		PM	0.02	0.08
		PM ₁₀	0.02	0.08
		PM _{2.5}	0.02	0.08
TO	Thermal Oxidizer	NO _x	2.64	11.56
		CO	1.67	7.29
		VOC	0.07	0.29
		SO ₂	1.42	6.23
		H ₂ S	0.02	0.07
		PM	0.32	1.39
		PM ₁₀	0.32	1.39
		PM _{2.5}	0.32	1.39
TK-106	Slop Water Tank TK-106	VOC	0.04	0.17
		H ₂ S	0.01	0.01
LOAD-1	Condensate Truck Loading Fugitives	VOC	1.00	0.22
		H ₂ S	0.01	0.01
LOAD-2	TK-4560 & 4570 Slop Water Truck Loading Fugitives	VOC	0.12	0.02
		H ₂ S	0.01	0.01
LOAD-3	TK-106 Slop Water Truck Loading	VOC	1.94	0.07
		H ₂ S	0.01	0.01
VCU-1 & VCU-2	Vapor Combustors VCU-1 & VCU-2	NO _x	0.8	2.59
		CO	1.72	5.66

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		VOC	9.15	36.91
		SO ₂	0.01	0.01
		H ₂ S	0.01	0.01
		PM	0.02	0.09
		PM ₁₀	0.02	0.09
		PM _{2.5}	0.02	0.09
HTR 1	34.65 MMBtu/hr Heat Medium Heater	NO _x	3.47	15.18
		CO	2.56	11.23
		VOC	0.21	0.92
		PM	0.29	1.27
		PM ₁₀	0.29	1.27
		PM _{2.5}	0.29	1.27
		SO ₂	0.02	0.10
		H ₂ S	0.01	0.01
HTR 2	34.65 MMBtu/hr Heat Medium Heater	NO _x	3.47	15.18
		CO	2.56	11.23
		VOC	0.21	0.92
		PM	0.29	1.27
		PM ₁₀	0.29	1.27
		PM _{2.5}	0.29	1.27
		SO ₂	0.02	0.10
		H ₂ S	0.01	0.01
HTR 3	30 MMBtu/hr Amine Heater	NO _x	3.00	13.14
		CO	2.22	9.72
		VOC	0.17	0.72
		PM	0.23	1.00

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		PM ₁₀	0.23	1.00
		PM _{2.5}	0.23	1.00
		SO ₂	0.02	0.08
		H ₂ S	0.01	0.01
CE-AFG	Flash Gas Compressor Engine	NO _x	0.32	1.40
		CO	0.96	4.20
		VOC	0.21	0.91
		PM	0.02	0.07
		PM ₁₀	0.02	0.07
		PM _{2.5}	0.02	0.07
		SO ₂	0.01	0.01
		H ₂ S	0.01	0.01
FUG	Processing Area Fugitives	VOC (5)	1.69	7.37

- (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.

DRAFT

Date: _____