

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 32274, PSDTX995M1 and N042

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)
SMRSTACK	Steam Methane Reformer Stack (Routine)	NO _x	8.52	37.32
		PM	2.28	9.99
		PM ₁₀	2.28	9.99
		PM _{2.5}	2.28	9.99
		CO	4.35	19.05
		NH ₃	1.97	8.63
		VOC	1.39	6.06
		SO ₂	3.87	16.95
		H ₂ S	0.01	0.01
	Steam Methane Reformer Stack (MSS) (6)	CO	23.69	
AUXSTACK	Auxiliary Boiler Stack	NO _x	8.80	35.04
		PM	8.80	35.04
		PM ₁₀	8.80	35.04
		PM _{2.5}	8.80	35.04
		CO	42.24	168.19
		NH ₃	3.05	12.14
		VOC	2.13	8.51
		SO ₂	6.00	23.88
		H ₂ S	0.01	0.01

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FLARESTACK	Facility Flare (Routine)	NO _x	0.52	2.29
		CO	37.80	165.57
		VOC	0.01	0.05
		SO ₂	0.01	0.02
		H ₂ S	0.01	0.01
	Facility Flare (MSS)	NO _x	56.76	31.69
		CO	408.54	451.59
		VOC	57.59	18.71
		SO ₂	1.09	0.35
		H ₂ S	0.01	0.01
FUGITIVE	Facility Fugitives (5)	VOC	0.16	0.69
		CO	10.10	44.22
COOLINGTWR	Cooling Tower	VOC	0.45	1.96
		PM	0.42	1.82
		PM ₁₀	0.30	1.33
		PM _{2.5}	0.01	0.01
CO ₂ VENTSUC	CO ₂ Recycle Suction Vent	CO (7)	88.26	193.30
CO ₂ VENTDIS	CO ₂ Recycle Discharge Vent			
DEAERATOR	Boiler Feedwater Deaerator	VOC	0.01	0.01
COLDBOX	Carbon Monoxide Cold Box	CO	0.01	0.06
TCOOLTWR	Temporary Cooling Tower	VOC	0.13	0.55
		PM	0.01	0.04
		PM ₁₀	0.01	0.04
		PM _{2.5}	0.01	0.01

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- (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
NH₃ - ammonia
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) An hourly CO rate of 23.69 lb/hr is applicable during periods of planned maintenance, start-up, and shutdown of the SMR. Emissions from MSS activities at the SMRSTACK shall be combined with normal emissions for the purposes of annual emissions reporting.
- (7) Emissions for the two vents combined will not exceed 88.26 pounds per hour or 193.30 tons per year.

Date: August 9, 2017