

Emission Sources - Maximum Allowable Emission Rates

Permit Number 73110

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	SMR Process Furnace	NO _x	28.08	29.64
		CO	17.78	72.19
		VOC	2.36	10.33
		SO ₂	0.60	2.42
		PM	7.64	33.45
		PM ₁₀	7.64	33.45
		PM _{2.5}	7.64	33.45
		NH ₃	4.32	17.56
SMRSTACK	SMR Process Furnace Planned Start-up	NO _x	110.00	3.30
		CO	101.37	3.04
		NH ₃	9.13	0.27
SMRBDVENT	Steam Drum Blowdown Vent	VOC	1.61	7.06
		NH ₃	0.01	0.01
SMRFLARE	Flare Pilots and Sweep Gas	NO _x	0.03	0.13
		CO	0.25	1.08
		VOC	0.01	0.05
		SO ₂	0.01	0.01
	Ammonia Tank Storage Vent	NO _x	62.80	0.47
		NH ₃	0.47	0.01
	Pipeline Constraints	NO _x	36.70	0.41
	Peak Shaving Hydrogen Vent	NO _x	99.95	1.00
SMRFLARE	Planned MSS	NO _x	102.46	0.70
		CO	1,111.49	8.28
		NH ₃	2.32	0.01

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MSSFUG	Opening of Components (5)	CO	0.01	0.01
		VOC	0.01	0.01
SMRCT	Cooling Tower	VOC	0.15	0.64
		PM	0.05	0.20
		PM ₁₀	0.03	0.11
		PM _{2.5}	<0.01	<0.01
SMRNH3TNK	Ammonia Truck Unloading Fugitives (5)	NH ₃	0.01	0.01
SMRNH3HOSE	Ammonia Unloading Hose Disconnect	NH ₃	0.05	0.01
SMRFUG	Process Fugitives (5)	CO	1.63	7.09
		VOC	0.25	1.11
		NH ₃	0.20	0.86
SMRGLYCOL	Glycol Storage Tank	VOC	0.01	0.01
SMRH2VENT	Hydrogen Compressor Vent	CO	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
- NH₃ - ammonia
- (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.

Date: February 5, 2021