

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 32274, PSD-TX-995M1, and N-042

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. 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 *	
			lb/hr	TPY
SMRSTACK	Steam Methane Reformer (SMR) Stack	NO _x	8.52	37.32
		PM	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 (Planned Maintenance, Startup, and Shutdown)	CO	23.69 (6)	
AUXSTACK	Auxiliary Boiler Stack (440MMBtu/hr HHV)	NO _x	8.80	35.04
		PM	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	
FLARESTACK	Facility Flare-Batch Process Flaring (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 (Startup, Shutdown, and Maintenance)	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	

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	AIR CONTAMINANTS DATA <u>Emission Rates *</u>	
			lb/hr	TPY
FUGITIVES	Facility Fugitives (4)	VOC	0.15	0.68
		CO	9.00	39.44
COOLINGTWR	Cooling Tower (4)	VOC	0.27	1.18
CO ₂ VENTSUC/ CO ₂ VENTDIS	CO ₂ Recycle Suction Vent/ CO ₂ Recycle Discharge Vent	CO (5)	88.26	193.30
DEAERATOR	Boiler Feedwater Deaerator	VOC	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) NO_x - total oxides of nitrogen
PM - particulate matter, suspended in the atmosphere, including PM₁₀
PM₁₀ - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.
CO - carbon monoxide
NH₃ - ammonia
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
SO₂ - sulfur dioxide
H₂S - hydrogen sulfide
- (4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations..
- (5) Emissions for the two vents combined will not exceed 88.26 pounds per hour or 193.30 tons per year.
- (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.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

24 Hrs/day 7 Days/week 52 Weeks/year or 8,760 Hrs/year

Dated _____