

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 87575 and N116

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	Reformer Combustion Stack Normal Operations	NO _x	26.03	24.70
		CO	16.55	60.42
		VOC	2.50	9.12
		PM _{2.5}	7.81	28.50
		SO ₂	0.84	1.85
		NH ₃	5.04	18.39
SMRSTACK	Reformer Combustion Stack MSS Activities	NO _x	152.09	8.55
		CO	118.09	6.83
		VOC	---	---
		PM _{2.5}	---	---
		SO ₂	---	---
		NH ₃	10.64	0.59
FLARE	Process Flare Normal Operations	NO _x	64.93	1.09
		CO	0.13	0.56
		SO ₂	<0.01	<0.01
		VOC	0.01	0.04
		NH ₃	0.49	<0.01
FLARE	Process Flare MSS Activities	NO _x	95.13	3.40
		CO	532.21	12.62
		SO ₂	0.62	<0.01
		VOC	6.98	0.02
		NH ₃	---	---
DAVENT1	Export Steam Deaerator Vent Normal Operations	VOC	0.04	0.16
		NH ₃	0.01	0.03

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DAVENT2	Process Steam	VOC	4.86	0.35
	Deaerator Vent MSS	NH ₃	0.26	0.02
BDVENT	Activities			
	Steam System	VOC	9.00	2.59
BDVENT	Blowdown Vent Normal	NH ₃	0.01	<0.01
	Operations			
BDVENT	Steam System	VOC	1.62	0.07
	Blowdown Vent MSS	NH ₃	<0.01	<0.01
CT	Activities			
	Cooling Tower	VOC	0.01	0.07
FUG	Process Fugitive Emissions (4)	PM ₁₀	0.44	1.93
		CO	1.62	7.11
FUG	Process Fugitive Emissions (4)	VOC	0.56	2.48
NH ₃ FUG	Ammonia System Fugitive Emissions	NH ₃	0.53	1.37
GLYCOLTNK	Glycol Storage Tank	VOC	<0.01	<0.01
BDSUMP	Steam System	VOC	0.46	2.03
	Blowdown Sump Normal	NH ₃	0.05	0.23
STMVNT1	Operations			
	Export Steam Vent MSS	VOC	0.92	0.14
STMVNT1	Activities	NH ₃	0.17	0.02
STMVNT2	Process Steam Vent	VOC	0.40	0.03
	MSS Activities	NH ₃	0.08	0.01

- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources, use an area name or fugitive source name.

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- (3) NO_x - total oxides of nitrogen
CO - carbon monoxide
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
PM - particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}
PM₁₀ - particulate matter equal to or less than 10 microns in diameter. When PM is not listed, it is assumed that no PM greater than 10 microns is emitted.
PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
SO₂ - sulfur dioxide
NH₃ - ammonia
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

- * 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

- ** Compliance with annual emission limits is based on a rolling 12-month period.

Dated February 19, 2010