

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 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, 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	Reformer Combustion Stack Normal Operations	NOx	26.03	24.70
		CO	16.55	60.42
		VOC	2.50	9.12
		PM	7.81	28.50
		PM <sub>2.5</sub>	7.81	28.50
		PM <sub>10</sub>	7.81	28.50
		SO <sub>2</sub>	0.84	1.85
		NH <sub>3</sub>	5.04	18.39
SMRSTACK	Reformer Combustion Stack MSS Activities	NOx	152.09	8.55
		CO	118.09	6.83
		NH <sub>3</sub>	10.64	0.59
FLARE	Process Flare Normal Operations	NOx	64.93	1.09
		CO	0.13	0.56
		VOC	0.01	0.04
		SO <sub>2</sub>	<0.01	<0.01
		NH <sub>3</sub>	0.49	<0.01
FLARE	Reformer Combustion Stack MSS Activities	NOx	95.13	3.40
		CO	532.21	12.62
		VOC	6.98	0.02
		SO <sub>2</sub>	0.62	<0.01
FLARE	Peak Shaving Hydrogen Vent	NOx	100.86	1.01
DAVENT1	Export Steam Deaerator Vent Normal Operations	VOC	0.04	0.16
		NH <sub>3</sub>	0.01	0.03
DAVENT2	Export Steam Deaerator Vent Normal Operations	VOC	4.86	0.35
		NH <sub>3</sub>	0.26	0.02

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BDVENT	Steam Blowdown Vent Normal Operations	VOC	9.00	2.59
		NH <sub>3</sub>	0.01	<0.01
BDVENT	Steam Blowdown Vent MSS Activities	VOC	1.62	0.07
		NH <sub>3</sub>	<0.01	<0.01
CT	Cooling Tower	VOC	0.01	0.07
		PM	0.44	1.93
		PM <sub>2.5</sub>	0.44	1.93
		PM <sub>10</sub>	0.44	1.93
FUG	Process Fugitive Emissions (6)	CO	1.62	7.11
		VOC	0.56	2.48
NH <sub>3</sub> FUG	Ammonia System Fugitive Emissions	NH <sub>3</sub>	0.53	1.37
GLYCOLTNK	Glycol Storage Tank	VOC	<0.01	<0.01
BDSUMP	Steam System Blowdown Sump Normal Operations	VOC	0.46	2.03
		NH <sub>3</sub>	0.05	0.23
STMVNT1	Export Steam Vent MSS Activities	VOC	0.92	0.14
		NH <sub>3</sub>	0.17	0.02
STMVNT2	Process Steam Vent MSS Activities	VOC	0.40	0.03
		NH <sub>3</sub>	0.08	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<sub>x</sub> - total oxides of nitrogen
- SO<sub>2</sub> - sulfur dioxide
- PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented
- PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented
- PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter
- CO - carbon monoxide
- NH<sub>3</sub> - 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.
- (6) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

Date: February 3, 2021