

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 2175

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**
301M150	VA Cooling Tower	VOC	6.72	11.04
301M354	Nylon Cooling Tower	VOC	3.53	11.04
302F	Utilities Equipment (Excludes Wastewater Fugitives)	VOC	3.07	13.45
		CO	0.22	0.95
302ANAL	Utilities Analyzer Vents	VOC	3.67	1.61
		CO	4.43	13.83
302GB	Reformer Guard Bed Regeneration	SO ₂	48.89	1.89
302M330	Boilers 4, 5, and 6	VOC	8.6	26.06
302M331	Combined Emission Limit	NO _x	489.56	1823.48
302M460		SO ₂	126.34	122.58
		PM	25.61	81.24
		CO	88.39	375.51
303M1239	Ethylene Flare*** (Does Not Include Butanol and Propanol Unit Emissions)	CO	137.6	63.1
		NO _x	25.1	11.9
		SO ₂	4.9	1.9
		VOC	54.1	40.0
303M1239	Ethylene Flare (Start-Up and Shutdown)	CO	46.1	0.1
		NO _x	1.2	0.1
304M024	Selas Reformer	PM ₁₀	2.20	5.33
304M375	Girdlers I and II	NO _x	43.33	70.08
304M490	(Combined Emissions Limit)	VOC	1.59	3.85
		SO ₂	0.17	0.42
		CO	24.30	58.87

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			<u>lb/hr</u>	<u>TPY**</u>
304V206	MEA Offloading (From Permit Number 4449)	VOC	0.85	0.02
304V375	MEA Storage	VOC	5.61	0.73
304V440	MEA Storage	VOC	0.05	0.15
AREA7	Wastewater Treatment Plant	VOC	1.13	1.59
308F	Wastewater Fugitives (4)	VOC	0.01	0.03
308M2309	Sludge Dryer	PM ₁₀	0.10	0.12
		NO _x	1.27	1.61
		VOC	0.07	0.09
		SO ₂	0.01	0.01
		CO	1.06	1.35

- (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.
- (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 - 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 particulate matter greater than 10 microns is emitted.
CO - carbon monoxide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

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- * 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 _____Hrs/year

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

- *** Authorizes a portion of the emissions from this flare. The remainder of the emissions from this facility are authorized by Permit Numbers 4449 and 5546.

Dated December 1, 2004