

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Flexible Permit Number 28351

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.

EMISSION CAPS

Emission Cap	lb/hr	TPY
VOC Source Cap***	211.81	157.39
PM Source Cap	0.60	1.72
Propylene Source Cap	204.89	105.69
Ethylene Source Cap	16.90	11.64

Other Sources Not Included in the Cap:

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY**
PP-B100	PP Boiler B-100	VOC	0.11	0.32
		NO _x	1.99	5.79
		CO	1.67	4.86
		PM ₁₀	0.15	0.44
		SO ₂	0.06	0.17
PP-B102	PP Boiler B-102	VOC	0.26	0.92
		NO _x	4.74	16.74
		CO	3.98	14.06
		PM ₁₀	0.36	1.27
		SO ₂	0.14	0.48

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
PP-FLARE	Polypropylene Flare	NO _x	24.22	9.35
		CO	124.78	48.19
		SO ₂	0.46	0.27
		VOC (4)		51.67
		Propylene (4)		30.70
		Ethylene (4)		11.29
VCONT	Temporary Flares and Vapor Combustors (5)	NO _x	1.38	0.06
		CO	7.09	0.33
		SO ₂	0.02	0.01
MSSCAP2	Flexible Cap for Sitewide MSS Activities (6)	VOC	51.81	1.30
PP-FLAREMSS	Polypropylene Flare MSS Emissions	VOC	211.81 (7)	11.48 (7)
		NO _x	67.75	(8)
		CO	349.03	(8)
		SO ₂	1.93	(8)

- (1) Emission point identification - either specific equipment designation or emission point number (EPN) 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
- CO - carbon monoxide
- (4) The VOC, ethylene, and propylene annual emissions for EPN PP-Flare also contribute to the annual limits on the VOC Source Cap, Ethylene Source Cap, and Propylene Source Cap, respectively
- (5) EPN MSSCAP2 is a sitewide cap for VOC emissions from (maintenance, startup, and shutdown) MSS activities (except PP-FLAREMSS emissions) and is not included in the sitewide VOC cap.
- (6) VOC emissions from temporary flares and vapor combustors are included in EPN MSSCAP2.
- (7) The hourly and annual VOC emission rates for PP-FLAREMSS are included in the sitewide VOC caps.
- (8) Annual PP-FLAREMSS NO_x, CO, and SO₂ limits are included in the PP-FLARE annual limits.

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

__ Hrs/day __ Days/week __Weeks/year or 8,760 Hrs/year

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

- *** VOC includes all speciated volatiles as shown.

Source caps include the following EPNs:

VOC

PP-A410	PP-CT100
PP-A420	PP-CT101
PP-A430	PP-ZSK1FV
PP-L3FUG	PP-ZSK1DRY
PP-FLARE	PP-ZSK1STG
PP-WWDEGAS	PP-ZSK2FV
PP-ZSK2STG	PP-ZSK2DRY
PP-CMPDRY	PP-CMPFV
PP-LOAD	PP-CMPSTG
PP-ZSK3DRY	PP-L3LOAD
PP-ZSK3STG	PP-ZSK3FV

PM

PP-ZSK1FV
PP-ZSK1STG
PP-ZSK2FV
PP-ZSK2STG
PP-CMPFV
PP-CMPSTG
PP-LOAD
PP-L3FV
PP-ZSK3FV
PP-ZSK3STG
PP-L3LOAD

Dated: August 18, 2010