

# POLYPROPYLENE (PP) EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

## EMISSION CAP TABLE

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***	248.01	271.98
PM Source Cap	2.31	6.85
Propylene Final Source Cap	231.67	192.61
Ethylene Final Source Cap	16.96	11.87

### Other Sources Not Included in the Cap:

## AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
PP-B100	PP Boiler B-100	VOC	0.11	0.32
		NO <sub>x</sub>	1.99	5.79
		CO	1.67	4.86
		PM <sub>10</sub>	0.15	0.44
		SO <sub>2</sub>	0.06	0.17
PP-B102	PP Boiler B-102	VOC	0.26	0.92
		NO <sub>x</sub>	4.74	16.74
		CO	3.98	14.06
		PM <sub>10</sub>	0.36	1.27
		SO <sub>2</sub>	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 <sub>x</sub>	24.34	14.52
		CO	125.38	74.82
		SO <sub>2</sub>	0.46	0.32
		VOC (4)		61.24
		Ethylene (4)		11.29
		Propylene (4)		34.68

- (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 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 - particulate matter, suspended in the atmosphere, including PM<sub>10</sub>.  
 PM<sub>10</sub> - 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
- (4) The VOC, ethylene, and propylene annual emissions for EPN PP-Flare also contribute to the annual limits on VOC Source Cap, Ethylene Source Cap, and propylene Source Cap, respectively.

\* 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.

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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  
PPL3FV  
PP-ZSK3FV  
PP-ZSK3STG  
PP-L3LOAD

Dated June 28, 2010