

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 5562A and N006M1

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**
500	Styrene Storage	VOC	10.40	0.98
505	Process Sewer	VOC	19.03	15.74
514	Reject Crumb Shaker	VOC	0.06	0.24
517	Solvent KO Tank	VOC	<0.01	<0.01
518	Pellet Losses	VOC	33.56	30.35
520	K-Resin Plant Piping Fugitives (4)	VOC	12.95	56.73
523	Cooling Tower	VOC	0.37	1.58
		Cl <sub>2</sub>	0.09	0.39
524	Process Flare (Routine plus MSS)	VOC	238.68	41.44
		NO <sub>x</sub>	21.11	10.22
		CO	107.56	52.11
		SO <sub>2</sub>	0.05	0.07
525	Blending and Storage	PM <sub>10</sub>	0.01	0.03
526	Bagging and Loading	PM <sub>10</sub>	<0.01	0.01
534	Anti-Oxidant Tank	VOC	1.82	0.08
535	CA Tank	VOC	0.25	<0.01
536	Solvent Recovery Flare	VOC	2.87	10.31
		NO <sub>x</sub>	0.53	1.26
		CO	4.57	10.78

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
		SO <sub>2</sub>	0.03	0.04
537	HIPS Vacuum Blower	PM <sub>10</sub>	<0.01	<0.01
538	Byproduct Tank Unloading	VOC	12.21	0.05
605	Cooling Tower	VOC	0.35	1.02
		Cl <sub>2</sub>	0.08	0.37
615	Train III Extruder Drier Vent	VOC	0.63	0.62
900	Transfer Operations Piping Fugitives (4)	VOC	0.69	3.04

## ROUTINE MAINTENANCE, STARTUP, AND SHUTDOWN (MSS) EMISSIONS

505	Process Sewer MSS	VOC	9.61	0.22
KRMSSATM	Equipment Opening & Truck Loading Losses	VOC	10.67	0.11

- (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  
 CO - carbon monoxide  
 SO<sub>2</sub> - sulfur dioxide  
 PM<sub>10</sub> - particulate matter equal to or less than 10 microns.  
 Cl<sub>2</sub> - chlorine
- (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:

\_\_\_\_\_Hrs/day\_\_\_\_\_Days/week\_\_\_\_\_Weeks/year or 8,760 Hrs/year

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**

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

Dated September 16, 2010