

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, 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)
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 (5)	VOC	2.81	17.72
523	Cooling Tower	VOC	0.37	1.58
		PM	2.26	8.77
		CL ₂	0.09	0.39
		PM ₁₀	1.83	7.11
		PM _{2.5}	0.82	3.20
524	Process Flare (Routine plus MSS)	VOC	238.86	41.44
		NO _x	21.11	10.22
		CO	107.56	52.11
		SO ₂	0.05	0.07
525	Blending and Storage	PM	0.01	0.03
		PM ₁₀	0.01	0.03
		PM _{2.5}	0.01	0.03
526	Bagging and Loading	PM	<0.01	0.01

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		PM ₁₀	<0.01	0.01
		PM _{2.5}	<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 _x	0.53	1.26
		CO	4.57	10.78
		SO ₂	0.03	0.04
537	HIPS Vacuum Blower	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
538	Byproduct Tank Unloading	VOC	12.21	0.05
605	Cooling Tower	VOC	0.35	1.02
		CL ₂	0.08	0.37
		PM	1.76	4.67
		PM ₁₀	1.76	4.67
		PM _{2.5}	0.78	2.08
615	Train III Pellet Drier Vent	VOC	0.63	0.62
900	Transfer Operations Piping Fugitives (5)	VOC	1.02	4.45
ROUTING 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

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- (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 _x	- total oxides of nitrogen
SO ₂	- sulfur dioxide
PM	- total particulate matter, suspended in the atmosphere, including PM ₁₀ and PM _{2.5} , as represented
PM ₁₀	- total particulate matter equal to or less than 10 microns in diameter, including PM _{2.5} , as represented
PM _{2.5}	- particulate matter equal to or less than 2.5 microns in diameter
CO	- carbon monoxide
Cl ₂	- chlorine
- (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.

Date: October 29, 2013