Emission Sources - Maximum Allowable Emission Rates

Permit Number 2006A

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)
FT14005010	Xylene Storage Tank	Xylene	0.01	0.06
FS13010400	Butyl Acetate Storage Tank	Butyl Acetate	0.01	0.01
FF14004300	Coatings Flare	VOC	2.27	0.21
		NOx	0.11	0.50
		CO	0.97	4.25
FV14059800	Catalyst Seal Pot Vent	VOC	0.09	0.01
FUG-1	Fugitives (5)	VOC	1.39	6.10
FT14005020	PMA Tank	VOC	0.01	0.02
FV14513900	Carbon Drum	VOC	0.05	0.01
FV14602400	Carbon Drum (Raw Material Unloading)	VOC	0.01	0.01
FV14602401	Carbon Drum (Final Product Loading)	VOC	0.01	0.01
FV14000568	HDI Trimer/Biuret Spot Vent	VOC	0.01	0.01
FV14704500	Carbon Drum (Catalyst Preparations)	VOC	0.05	0.01
FV14500700	Solids Loading Station	PM_{10}	0.01	0.01
FV14015720	Catalyst Seal Pot	VOC	0.09	0.01

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	Vent			
FV14070600	Area 140 Trimer Spot Vent	VOC	0.01	0.01
FV14070900	Area 140 Biuret Spot Vent	VOC	0.01	0.01
FV14526700	Area 145 Prepolymers Spot Vent	VOC	0.01	0.01
MOD-MSSATM MOD-TKTR	Tank Trucks	Butyl Acetate	0.60	0.01
		Xylene	3.73	0.01
		Butanol	3.17	0.01
		Aromatic -100	2.74	0.01
		1-methoxy-2-propanol acetate (PMA)	4.58	0.01
		2-Ethyl Hexanol (EH)	0.10	0.01
		2-Ethyl 1,3 Hexanediol	0.51	0.01
		Hexamethylene-1,6-diisocyanate	0.01	0.01
		Refrigerated Cooling Oil	0.13	0.01
		MEKO	0.18	0.01
		Total VOC	15.75	0.10
MOD-MSSATM MOD-FRCTK	Frac Tanks	Butyl Acetate	0.09	0.01
		Xylene	0.05	0.01
		Butanol	0.05	0.01
		Aromatic -100	0.06	0.01
		2-Ethyl Hexanol (EH)	0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

MOD-MSSATM MOD-FRCTK (continued)	Frac Tanks	2-Ethyl 1,3 Hexanediol	0.01	0.01
		1-methoxy-2-propanol acetate (PMA)	0.10	0.01
		Hexamethylene-1,6-diisocyanate (HDI)	0.01	0.01
		Refrigerated Cooling Oil (RCO)	0.04	0.01
		Total VOC	0.42	0.09
MOD-MSSATM MOD-DRUM	Drum Clearing	Butyl Acetate	0.09	0.02
		2-Ethyl Hexanol (EH)	0.01	0.01
		2-Ethyl 1,3 Hexanediol	0.01	0.01
		MEKO	0.01	0.01
		Xylene	0.05	0.01
		Butanol	0.04	0.01
		Aromatic -100	0.04	0.01
		1-methoxy-2-propanol acetate (PMA)	0.06	0.01
		Hexamethylene-1,6-diisocyanate (HDI)	0.01	0.01
		Refrigerated Cooling Oil (RCO)	0.01	0.01
		Total VOC	0.33	0.11
MOD-MSSATM MOD-NH3	Ammonia Reaction Test	Ammonia	0.04	0.01
MOD-MSSATM MOD-INT	Instrument Clearing1	VOC	0.02	0.01
		Chlorine	0.01	0.01
MOD-MSSATM MOD-VACTR	Vacuum Trucks	Butyl Acetate	0.04	0.01
		Total VOC	0.04	0.01
MOD-MSSATM MOD-UNCONT	Uncontrolled Equipment Clearing	Total VOC	8.60	0.63
MOD-MSSCNT MOD-CONT	Controlled Equipment Clearing	Total VOC	8.60	0.34

Emission Sources - Maximum Allowable Emission Rates

		NO_x	0.95	0.01
		CO	1.58	0.01

(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
MEKO - methyl ethyl ketone oxime
(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.
(6) See Attachment Footnote 1 in Special Conditions for MOD-MSSCNT.
(7) The VOC represented in this MSS application may include any of the catalysts, solvents, polyols, or blocking agents on the list provided n Appendix A of the October 2007 revision to the December 2006 permit application or authorized through subsequent PBR's. The VOC with the highest vapor pressure is used for emission calculations.

Dated: May 15, 2013