Emission Sources - Maximum Allowable Emission Rates

Permit Number 2005

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)
FT09005400	Tank 090 054 (Group 1)	VOC	0.01	(6)
FT09012010	Tank 090 120.1 (Group 1)	VOC	0.01	(6)
FT09012020	Tank 090 120.2 (Group 1)	VOC	0.01	(6)
FT09058500	Tank 090 585 (Group 1)	VOC	0.01	(6)
FT09058900	Tank 090 589 (Group 1)	VOC	0.01	(6)
FT09059300	Tank 090 593 (Group 1)	VOC	0.01	(6)
FT09112010	Tank 091 120.1 (Group 1)	VOC	0.01	(6)
FT09112020	Tank 091 120.2 (Group 1)	VOC	0.01	(6)
FT09017500	Tank 090 175 (Group 1)	VOC	0.01	(6)
Total Annual Allowable Emissions Group 1 Tanks		VOC		0.01
FT09123100	Tank 091 231 (Group 2)	VOC	0.01	(7)
FT09500900	Tank 095 009 (Group 2)	VOC	0.01	(7)
FT09503310	Tank 095 033.1 (Group 2)	VOC	0.01	(7)
FT09504000	Tank 095 040 (Group 2)	VOC	0.01	(7)
FT09025000	Tank 090 250 (Group 2	VOC	0.01	(7)
FT09504500	Tank 095 045 (Group 2)	VOC	0.01	(7)

Emission Sources - Maximum Allowable Emission Rates

FT09505700	Tank 095 057 (Group 2)	VOC	0.01	(7)
FT09505800	Tank 095 058 (Group 2)	VOC	0.01	(7)
FT09016210	Tank 090 162.1 (Group 2)	VOC	0.01	(7)
FT09016220	Tank 090 162.2 (Group 2)	VOC	0.01	(7)
Total Annual Allowable Emissions Group 2 Tanks		VOC		0.01
FT09112030 (8)	Tank 091 120.3 (Group 5)	VOC	0.06	0.12
FT09112040 (8)	Tank 091 120.4 (Group 5)	VOC	0.06	0.12
Total Annual Allowable Emissions Group 5 Tanks		VOC		0.12
FS08011300	Tank 080-004	VOC	0.10	0.05
FT09021500	Vessel 090 215R	VOC	0.01	0.01
FT09054800	Tank 090 548	VOC	0.01	0.01
FT09301900	Tank 093 019	VOC	0.01	0.01
FT09500100	Tank 095 001	VOC	0.01	0.01
FT09503320	Tank 095 033.2	VOC	0.01	0.01
FT09505900	Tank 095 059	VOC	0.01	0.01
FT09506000	Tank 095 060	VOC	0.01	0.01
FV08211000	Vent Scrubber	VOC (9)	0.26	0.10
		VOC (10)	0.13	0.05
FV09055100	Decomp Vent	VOC	0.31	0.01
FC09500100	Carbon Adsorption System	VOC	0.01	0.01
FV08106600	MDA II Vent Scrubber	VOC	0.01	0.01
FUG-MDI	MDI Area Fugitives (5)	VOC	1.48	6.50
		IOC-U	0.01	0.06

Emission Sources - Maximum Allowable Emission Rates

MDI-MSSATM MDI-TKTR	Tank Trucks	Aniline	0.02	0.01
		Monochlorobenzene	1.40	0.01
		Refrigerated Cooling Oil	0.09	0.01
		Monoethanolamine	0.01	0.01
		Total VOC	1.52	0.04
MDI-MSSATM MDI-FRCTK	Frac Tanks	Aniline	0.01	0.01
		Monochlorobenzene	0.53	0.01
		Monoethanolamine	0.02	0.01
		Total VOC	0.57	0.03
		HCl	0.01	0.01
		Ammonia	1.18	0.02
MDI-MSSATM MDI-SOL	Solids Handing	PM	0.36	0.01
		PM_{10}	0.17	0.01
		$PM_{2.5}$	0.03	0.01
MDI-MSSATM MDI-NH3	Ammonia Reaction Test	Ammonia	0.04	0.01
MDI-MSSATM MDI –WCAP	Waste Capsule Unloading	Monochlorobenzene	0.01	0.01
		o-Dichlorobenzene	0.01	0.01
		Total VOC	0.02	0.02
MDI-MSSATM MDI-INT	Instrument Clearing	Total VOC	0.06	0.01
		Ammonia	0.01	0.01
		Chlorine	0.01	0.01
MDI-MSSATM MDI-DRUM	Drum Loading	Monochlorobenzene	0.09	0.01
		Isopar C	0.28	0.01
		Therminol	0.01	0.01
		Cyclohexane	0.98	0.02

Emission Sources - Maximum Allowable Emission Rates

		Total VOC	1.36	0.05
MDI-MSSATM MDI-VACTR	Vacuum Trucks	Aniline	0.11	0.01
		Monochlorobenzene	0.06	0.01
		Monoethanolamine	0.01	0.01
		Total VOC	0.18	0.03
		HCl	0.01	0.01
MDI-MSSATM MDI-UNCONT	Uncontrolled Equipment Clearing	Aniline	0.47	0.01
		Benzene	0.01	0.01
		Benzoic Acid	0.01	0.01
		Diethylene Glycol	0.03	0.01
		2,4-Dinitrophenol	0.01	0.01
		Formaldehyde	0.01	0.01
		Methanol	0.06	0.01
		Monochlorobenzene	42.18	0.44
		Monoethanolamine	0.03	0.01

Emission Sources - Maximum Allowable Emission Rates

MDI-MSSATM MDI-UNCONT (continued)	Uncontrolled Equipment Clearing	Nitrobenzene	0.01	0.01
		o-Dichlorobenzene	0.03	0.01
		Phenol	0.01	0.01
		Phosgene	0.01	0.01
		Solvent Naphtha	0.70	0.01
		Tripropylene Glycol	0.01	0.01
		Ammonia	4.52	0.03
		Chlorine	0.01	0.01
		CO	0.01	0.01
		HCl	0.01	0.01
		Refrigerated Cooling Oil	0.38	0.01
		Therminol	0.12	0.01
		Total VOC	44.08	0.60
MDI-MSSCNT MDI-CONT (11)	Controlled Equipment Clearing	Aniline	0.04	0.01
		Benzene	0.01	0.01
		Benzoic Acid	0.01	0.01
		Diethylene Glycol	0.01	0.01
		2,4-Dinitrophenol	0.01	0.01
		Formaldehyde	0.01	0.01
		Methanol	0.01	0.01
		Monochlorobenzene	3.71	0.04
		Monoethanolamine	0.01	0.01
		Nitrobenzene	0.01	0.01
MDI-MSSCNT MDI-CONT (continued)	Controlled Equipment Clearing	o-Dichlorobenzene	0.01	0.01
		Phenol	0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

		Phosgene	0.01	0.01
		Solvent Naphtha	0.01	0.01
		Tripropylene Glycol	0.01	0.01
		Ammonia	0.01	0.01
		Chlorine	0.01	0.01
		CO	0.01	0.01
		HCl	0.01	0.01
		Total VOC	3.88	0.18
		NOx	0.01	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
IOC-U - inorganic compounds (unspeciated)
NO_x - total oxides of nitrogen
CO - carbon monoxide
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
HCl - hydrochloric acid
(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) Annual VOC emissions from these points may not exceed the allowable rate listed for Total Annual Allowable Emissions Group 1 Tanks.
(7) Annual VOC emissions from these points may not exceed the allowable rate listed for Total Annual Allowable Emissions Group 2 Tanks.
(8) This Tank has been moved Group 1.
(9) Allowable emission rates prior to modification to the Vent Scrubber (EPN FV08211000) to improve the scrubbing efficiency to ≥ 99%
(10) Allowable emission rates after modification to the Vent Scrubber (EPN FV08211000) to improve the scrubbing efficiency to ≥ 99%
(11) See Attachment C Footnote 1 in Special Conditions for MDI-MSSCNT.

Dated: May 15, 2013