Emission Sources - Maximum Allowable Emission Rates

Permit Number 34017

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)
FV11514600	Off-Gas Incinerator/Scrubber (6)	VOC	0.31	0.96
		NO_x	2.84	12.44
		CO	0.72	3.15
		HCl	0.28	1.23
		Cl_2	0.51	2.23
FV11621600	Off-Gas Incinerator/Scrubber (6)	VOC	0.31	0.96
		NO_x	2.84	12.44
		CO	0.72	3.15
		HCl	0.28	1.23
		Cl_2	0.51	2.23
FS11514000	Tank Farm Scrubber Vent (6)	VOC	0.54	2.37
		HCl	3.83	9.89
		Cl_2	0.02	0.10
FL10531600	Solvent Truck Loading Rack Uncollected Fugitives (5)	VOC	0.04	0.01
FV11014000	Waste Gas Vent Stack	HCl	0.09	0.01
		VOC	0.01	0.01
FT11015300	Waste Water Sump Tank	HCl	0.01	0.01
FV11521201	Waste Gas Hdr O/F Seal Loop Vent	HCl	0.01	0.01
		VOC	0.01	0.01

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FV11500411	Waste Gas Vent Stack	HCl	0.09	0.01
		VOC	0.01	0.01
FG11609400	HCl Generator	NO_x	11.12	0.56
		CO	0.88	0.04
		VOC	0.88	0.04
		PM	0.24	0.01
FG12509310	HCl Generator	NO_x	11.12	0.56
		CO	0.88	0.04
		VOC	0.88	0.04
		PM	0.24	0.01
FT83001600	Sulfuric Acid Tank	H_2SO_4	0.01	0.01
FC83000100	Cooling Tower	VOC	0.01	0.01
FG11609500	HCl Generator	NO_x	11.12	0.56
		CO	0.88	0.04
		VOC	0.88	0.04
		PM	0.24	0.01
FV11602000	Waste Gas Vent Stack	HCl	0.09	0.01
		VOC	0.01	0.01
FS72005100	HCl Loading Scrubber **(5)**	HCl	0.09	0.39
FU10500002	HCl Loading Component Fugitives**(5)**	HCl	0.49	2.18
		VOC	0.12	0.54
		H2SO4	0.06	0.13
		Phosgene	0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

HCl-MSSATM / HCl-VACTR	Vacuum Truck	Monochlorobenzene	0.01	0.01
		o-Dichlorobenzene	0.01	0.01
		Total VOC	0.02	0.02
HCl-MSSATM /HCL-INT	Instrument Clearing	Total VOC	0.04	0.01
		Cl_2	0.01	0.01
HCl-MSSATM /HCL-SLD	Solids Handling	PM	2.18	0.03
		PM_{10}	1.03	0.03
		$PM_{2.5}$	0.16	0.01
HCl-MSSATM /HCL-TKTR	Tank Trucks	Therminol	0.07	0.01
		Total VOC	0.07	0.01
HCl-MSSATM /HCL-UNCONT	Uncontrolled Equipment Clearing	Diesel	0.01	0.01
		Therminol	0.09	0.01
		Phosgene	0.01	0.01
		Monochlorobenzene	0.18	0.01
		o-Dichlorobenzene	0.01	0.01
		p-Dichlorobenzene	0.01	0.01
		Carbon Tetrachloride	0.01	0.01
		Chloroform	0.01	0.01
		Total VOC	0.33	0.08
		CO	0.17	0.01
		Cl_2	0.01	0.01
		HCl	3.83	0.64
		Methylene Chloride	0.01	0.01
HCl-MSSATM /HCL-MSSNH3	Ammonia Reaction Test	Ammonia	0.04	0.01
HCl-MSSCNT /MR1-COPRG	MR 1 CO Purging	CO	1.00	0.01

Emission Sources - Maximum Allowable Emission Rates

		NO$_x$	0.28	0.01
HCl-MSSCNT /MR3-COPRG	MR III CO Purging	CO	1.00	0.01
		NO$_x$	0.28	0.01
HCl-MSSCNT /TDI1-COPRG	TDI I CO Purging	CO	0.04	0.01
		NO$_x$	0.01	0.01
HCl-MSSCNT /TDI2-COPR	TDI II CO Purging	CO	0.04	0.01
		NO$_x$	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
   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
   HCl - hydrogen chloride
   H$_2$SO$_4$ - -sulfuric 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) See Attachment Footnote 1 in Special Conditions for HCl-MSSCNT.

Date: January 31, 2014