Emission Sources - Maximum Allowable Emission Rates

Permit Number 7989

[ex-556999] Draft!!

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.

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Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
SC-11	Thermal Oxidizer	CO	0.18	0.67
		H_2S	<0.01	<0.01
		HCl	<0.01	0.02
		NH_3	3.16	0.03
		NO_X	1.68	7.34
		PM	0.10	0.43
		PM_{10}	0.10	0.43
		$PM_{2.5}$	0.10	0.43
		SO_2	0.03	0.12
		VOC	3.19	13.98
T-202	Sulfa-Clear Tank T-202	VOC	0.08	--
T-203	Sulfa-Clear Tank T-203	VOC	0.08	--
T-204	Sulfa-Clear Tank T-204	VOC	0.08	--
T-205	Sulfa-Clear Tank T-205	VOC	0.08	--
T-202, T-203, T-204, and T-205	Sulfa-Clear Tanks T-202, T-203, T-204, and T-205	VOC	--	0.04
SC-8	HCl Storage Tank	HCl	0.02	0.01
HCLFUG	Equipment Fugitives - HCl Storage Tank (5)	HCl	0.01	0.03
FUGITIVE	Fugitive Emissions (5)	NH_3	0.05	0.22
		VOC	2.47	10.81
DC-1	Solids Handling - Reactor Building (R-10)	PM	0.03	0.11
		PM_{10}	0.03	0.11
		$PM_{2.5}$	0.03	0.11

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		VOC	0.01	0.01
DC-2	Solids Handling - Reactor Building (Main Plant Reactors)	PM	0.03	0.11
		PM_{10}	0.03	0.11
		$PM_{2.5}$	0.03	0.11
		VOC	0.01	0.01
DC-3	Solids Handling - South Plant (R-20)	PM	0.03	0.11
		PM_{10}	0.03	0.11
		$PM_{2.5}$	0.03	0.11
		VOC	0.01	0.01
WBOILER1	West Natural Gas Fired Boiler	CO	0.28	1.23
		NO_X	0.13	0.56
		PM	0.03	0.11
		PM_{10}	0.03	0.11
		$PM_{2.5}$	0.03	0.11
		SO_2	<0.01	0.01
		VOC	0.02	0.08
EBOILER2	East Natural Gas Fired Boiler	CO	0.28	1.23
		NO_X	0.13	0.56
		PM	0.03	0.11
		PM_{10}	0.03	0.11
		$PM_{2.5}$	0.03	0.11
		SO_2	<0.01	0.01
		VOC	0.02	0.08
HOTOIL	Hot Oil Heating System	CO	0.58	2.54
		NO_X	0.69	3.02
		PM	0.05	0.23
		PM_{10}	0.05	0.23

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		$PM_{2.5}$	0.05	0.23
		SO_2	<0.01	0.02
		VOC	0.04	0.17
RXTBLDG	Line Clearing and Aerosol Adhesive Labeling	PM	0.03	0.02
		PM_{10}	0.01	0.01
		$PM_{2.5}$	<0.01	<0.01
		VOC	0.71	0.70
SPLANT	Line Clearing	VOC	0.20	0.45
RXTBLDGMSS	Liquid Filter Maintenance	VOC	0.02	<0.01
SPLANTMSS	Liquid Filter Maintenance	VOC	0.02	<0.01
TXDEGAS-MSS	Tank Farm Maintenance - Tank Cleaning	VOC	0.15	<0.01
TNKFARMMSS	Tank Farm Maintenance - Tank Cleaning, Pump Repair	VOC	0.28	0.01
THERMOXMSS	Thermal Oxidizer Bypass of Storage Tank Vents	VOC	0.36	0.04
THERMOX-SU	Thermal Oxidizer Start-Up	CO	0.18	<0.01
		NO_X	0.22	<0.01
		PM	0.02	<0.01
		PM_{10}	0.02	<0.01
		$PM_{2.5}$	0.02	<0.01
		SO_2	<0.01	<0.01
		VOC	0.01	<0.01

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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) CO - carbon monoxide
HCl - hydrogen chloride
H_2S - hydrogen sulfide
NH_3 - ammonia
NO_X - total oxides of nitrogen
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
SO_2 - sulfur dioxide
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
(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: 2016