Emission Sources - Maximum Allowable Emission Rates

Permit Number 18926

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)
TK-9	16 through 18 percent HAN Reactor Tank Evacuation	Inorganics	0.01	0.01
TK-11	Acid Neutralization Tank	Inorganics	0.27	0.10
TK-22	Nitric Acid Storage Tank	Nitric Acid	0.61	0.01
TK-25	LVHP2 Tank 25 Vent	VOC	0.03	0.03
TK-29	LVHP1 Tank 29 Vent	VOC	0.03	0.02
TK-32	IVHP Tank 32 Vent	VOC	0.01	0.02
TK-110	SVHP Tank 110 Vent	VOC	0.01	0.02
EVS-1	Bleach Scrubber	Cl_2	0.01	0.04
		Br_2	0.01	0.01
SS-1	Scrubber No. 1	VOC	0.09	0.14
		Inorganics	0.01	0.01
	Process Cleanout (6)	VOC	0.01	0.01
		Inorganics	0.01	0.01
	Scrubber Fluid Replacement (6)	HCl	0.01	0.01
SS-2	Scrubber No. 2	VOC	0.27	0.10
		Inorganics	0.01	0.01
WH-1	Water Heater No. 1	VOC	0.01	0.01
		PM	0.01	0.02
		PM_{10}	0.01	0.02
		$PM_{2.5}$	0.01	0.02

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		SO_2	0.01	0.01
		NO_x	0.16	0.68
		CO	0.04	0.19
WH-2	Water Heater No. 2	VOC	0.01	0.02
		PM	0.01	0.03
		PM_{10}	0.01	0.03
		$PM_{2.5}$	0.01	0.03
		SO_2	0.01	0.01
		NO_x	0.08	0.36
		CO	0.07	0.30
WH-3	Water Heater No. 3	VOC	0.01	0.01
		PM	0.01	0.02
		PM_{10}	0.01	0.02
		$PM_{2.5}$	0.01	0.02
		SO_2	0.01	0.01
		NO_x	0.16	0.68
		CO	0.04	0.18
WH-4	Water Heater No. 4	VOC	0.01	0.02
		PM	0.01	0.03
		PM_{10}	0.01	0.03
		$PM_{2.5}$	0.01	0.03
		SO_2	0.01	0.01
		NO_x	0.18	0.79
		CO	0.08	0.34
WH-5	Water Heater No. 5	VOC	0.01	0.02

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		PM	0.01	0.03
		PM_{10}	0.01	0.03
		$PM_{2.5}$	0.01	0.03
		SO_2	0.01	0.01
		NO_x	0.08	0.35
		CO	0.07	0.29
WH-6	Water Heater No. 6	VOC	0.01	0.01
		PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
		SO_2	0.01	0.01
		NO_x	0.08	0.36
		CO	0.02	0.10
PLANT FUG 1	Fugitives (5)	VOC	0.01	0.04
		Inorganics	0.01	0.01
PLANT FUG 2	Fugitives	VOC	0.50	0.09
		Inorganics	0.04	0.01
		Cl_2	0.01	0.01
		Br_2	0.01	0.01
		PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
MSS-CR	Cell Rebuilds (6)	VOC	0.01	0.01
		Inorganics	0.01	0.01
MSS-FR	Filter Replacement (6)	VOC	0.01	0.01

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		Inorganics	0.01	0.01
MSS-SR	Scrubber Fluid Replacement (6)	HCl	0.04	0.01
		NaOH	0.01	0.01
MSS-EM	Eductor Maintenance (6)	Inorganics	0.01	0.01
MSS-PM	Pump Maintenance (6)	VOC	0.01	0.01
		Inorganics	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) Inorganics - include hydrochloric acid, sulfuric acid, hydrobromic acid, hydrofluoric acid, fluoboric acid, nitric acid, hydroxylamine, sodium hydroxide, sodium hypochlorite, and bromine.

Cl_2	- chlorine
Br_2	- bromine
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
HCl	- hydrogen chloride
NaOH	- sodium hydroxide

(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) Startup, shutdown, and maintenance operation only.

Date: November 10, 2015