Emission Sources - Maximum Allowable Emission Rates

Permit Number 56134

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)
HTRSTK	Process Heater 751	NO_x	2.14	9.38
		VOC	0.34	1.49
		CO	0.68	2.98
		SO_2	0.06	0.25
		PM	0.24	1.06
		PM_{10}	0.24	1.06
		$PM_{2.5}$	0.24	1.06
HTRSTK	Process Heater 752	NO_x	0.86	3.75
		VOC	0.14	0.60
		CO	0.27	1.19
		SO_2	0.02	0.10
		PM	1.00	0.42
		PM_{10}	1.00	0.42
		$PM_{2.5}$	1.00	0.42
HTRSTK	Process Heater 753	NO_x	0.51	2.24
		VOC	0.08	0.35
		CO	1.48	6.49
		SO_2	0.01	0.06
		PM	0.06	0.25
		PM_{10}	0.06	0.25

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	0.06	0.25
HTRSTK	Process Heater 754	NO_x	2.55	11.15
		VOC	0.40	1.77
		CO	0.81	3.54
		SO_2	0.07	0.30
		PM	0.29	1.26
		PM_{10}	0.29	1.26
		$PM_{2.5}$	0.29	1.26
HTRSTK	Process Heater 756	NO_x	2.42	10.60
		VOC	0.38	1.68
		CO	0.77	3.36
		SO_2	0.07	0.29
		PM	0.27	1.19
		PM_{10}	0.27	1.19
		$PM_{2.5}$	0.27	1.19
CTW	Non-Contact Cooling Tower	PM	0.97	4.25
		PM_{10}	0.97	4.25
		$PM_{2.5}$	0.97	4.25
FL1 (6)	Flare Pilot and Sweep	NO_x	0.04	0.16
		VOC	0.03	0.14
		CO	0.31	1.38
		SO_2	0.01	0.01
MDEA-TK	Amine Tank	VOC	0.01	0.01
FUG (5)	Process Piping Fugitives	VOC	0.76	3.33
		CO	8.21	35.95

Emission Sources - Maximum Allowable Emission Rates

POX1PH	POX1 Cold Start-Up Burner	NO_x	0.87	0.15
		VOC	0.05	0.01
		CO	0.73	0.12
		SO_2	0.01	0.01
		PM	0.07	0.01
		PM_{10}	0.07	0.01
		$PM_{2.5}$	0.07	0.01
POX2PH	POX2 Cold Start-Up Burner	NO_x	0.87	0.15
		VOC	0.05	0.01
		CO	0.73	0.12
		SO_2	0.01	0.01
		PM	0.07	0.01
		PM_{10}	0.07	0.01
		$PM_{2.5}$	0.07	0.01
POX1	POX1 CO_2 Start-Up	CO	8.19	0.30
POX2	POX2 CO_2 Start-Up	CO	8.19	0.30
STRP-OVHD	Stripper Overhead	CO	51.87	5.35
FL1 (6)	Plant MSS Venting to Flare	NO_x	34.61	1.20
		VOC	12.99	0.08
		CO	1,200.00	39.15
		SO_2	0.41	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

Emission Sources - Maximum Allowable Emission Rates

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

(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) Total emissions from the Flare (EPN FL1) are the sum of the pilot and sweep, and venting to flare emissions.

Date: August 10, 2015