Emission Sources - Maximum Allowable Emission Rates

Permit Number 144829

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)
HTR-1	Fired Heater #1	NO_x	5.0	22.0
		CO	7.2	31.4
		VOC	0.83	3.6
		PM	1.2	5.0
		PM_{10}	1.2	5.0
		$PM_{2.5}$	1.2	5.0
		SO_2	0.1	<0.1
		HAPs	0.28	1.2
HTR-2	Fired Heater #2	NO_x	5.0	22.0
		CO	7.2	31.4
		VOC	0.83	3.6
		PM	1.2	5.0
		PM_{10}	1.2	5.0
		$PM_{2.5}$	1.2	5.0
		SO_2	0.1	<0.1
		HAPs	0.28	1.2
HTR-3	Fired Heater #3	NO_x	5.0	22.0
		CO	7.2	31.4
		VOC	0.83	3.6
		PM	1.2	5.0
		PM_{10}	1.2	5.0
		$PM_{2.5}$	1.2	5.0
		SO_2	0.1	<0.1
		HAPs	0.28	1.2

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TO-1	Amine Units/Thermal Oxidizer	NO_x	7.11	7.0
		CO	6.0	5.9
		VOC	0.40	0.38
		PM	0.54	0.53
		PM_{10}	0.54	0.53
		$PM_{2.5}$	0.54	0.53
		SO_2	188.34	83.0
		H_2SO_4	0.91	6.7
		HAPs	0.13	0.13
FLR-1	Warm/Cold Gas Flare (purge and pilot)	NO_x	0.24	1.0
		CO	0.93	4.1
		VOC	0.96	4.2
FLR-2	Marine Flare (purge, pilot, inert events)	NO_x	249.03	6.5
		CO	991.78	26.0
		VOC	25.71	27.0
		SO_2	0.01	0.01
GEN-1	Standby NG Generator #1	NO_x	3.8	0.19
		CO	14.0	0.72
		VOC	3.0	0.15
		$PM_{2.5}$	0.79	0.04
		PM_{10}	0.79	0.04
		PM	0.79	0.04
		SO_2	0.01	0.001
		HAPs	2.0	0.1
GEN-2	Standby NG Generator #2	NO_x	3.8	0.19
		CO	14.0	0.72
		VOC	3.0	0.15
		$PM_{2.5}$	0.79	0.04
		PM_{10}	0.79	0.04

Emission Sources - Maximum Allowable Emission Rates

		SO2	0.01	0.001
		HAPs	2.0	0.1
GEN-3	Standby NG Generator #3	NOx	3.8	0.19
		CO	14.0	0.72
		VOC	3.0	0.15
		$PM_{2.5}$	0.79	0.04
		PM_{10}	0.79	0.04
		PM	0.79	0.04
		SO_2	0.01	0.001
		HAPs	2.0	0.1
GEN-4	Standby NG Generator #4	NOx	3.8	0.19
		CO	14.0	0.72
		VOC	3.0	0.15
		$PM_{2.5}$	0.79	0.04
		PM_{10}	0.79	0.04
		PM	0.79	0.04
		SO_2	0.01	0.001
		HAPs	2.0	0.1
GEN-5	Standby NG Generator #5	NO_x	3.8	0.19
		CO	14.0	0.72
		VOC	3.0	0.15
		$PM_{2.5}$	0.79	0.04
		PM_{10}	0.79	0.04
		PM	0.79	0.04
		SO_2	0.01	0.001
		HAPs	2.0	0.1
GEN-6	Standby NG Generator #6	NO_x	3.8	0.19
		CO	14.0	0.72
		VOC	3.0	0.15

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	0.79	0.04
		PM_{10}	0.79	0.04
		PM	0.79	0.04
		SO_2	0.01	0.001
		HAPs	2.0	0.1
FWP-1	Fire Water Pump #1	NO_x	3.3	0.16
		CO	0.85	0.043
		VOC	0.11	0.0055
		$PM_{2.5}$	0.1	0.0049
		PM_{10}	0.1	0.0049
		PM	0.1	<0.01
		SO_2	0.006	0.0003
		HAPs	0.01	<0.01
FWP-2	Fire Water Pump #2	NO_x	3.3	0.16
		CO	0.85	0.043
		VOC	0.11	0.0055
		$PM_{2.5}$	0.1	0.0049
		PM_{10}	0.1	0.0049
		PM	0.1	<0.01
		SO_2	0.006	0.0003
		HAPs	0.01	<0.01
FWP-3	Fire Water Pump #3	NO_x	3.3	0.16
		CO	0.85	0.043
		VOC	0.11	0.0055
		$PM_{2.5}$	0.1	0.0049
		PM_{10}	0.1	0.0049
		SO_2	0.006	0.0003
DGEN-1	Standby Diesel Generator	NO_x	4.1	0.21
		CO	0.41	0.021

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		VOC	0.047	0.0024
		$PM_{2.5}$	0.04	0.002
		PM_{10}	0.04	0.002
		SO_2	0.0067	0.00033
TNK-1	Condensate Tank	VOC	0.88	3.8
FUG	Fugitive Emissions (5)	VOC	3.56	3.9
		HAPs	0.16	0.69
DTNK-1	Diesel Tank 600 gallons	VOC	4.9E-05	2.1E-04
DTNK-2	Diesel Tank 600 gallons	VOC	4.9E-05	2.1E-04
DTNK-3	Diesel Tank 600 gallons	VOC	4.9E-05	2.1E-04

(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
H_2SO_4 - sulfuric acid mist
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
HAPs - hazardous air pollutants
(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: _____