Emission Sources - Maximum Allowable Emission Rates

Permit Number 22088

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)
BP	Brine Pit Losses	VOC	0.55	2.42
F-1	Degassing Flare No. 1	CO	0.29	1.29
		NOx	0.15	0.65
		SO2	0.01	0.01
		VOC	0.01	0.02
F-2	Degassing Flare No. 2	CO	0.29	1.29
		NOx	0.15	0.65
		SO2	0.01	0.01
		VOC	0.01	0.02
FLR-N	Truck Loading from Truck Disconnects via Flare N (6)	CO	0.25	0.45
		NOx	0.13	0.23
		SO2	0.01	0.01
		VOC	0.97	1.66
FLR-S	Truck Loading from Truck Disconnects via Flare S (6)	CO	0.25	0.45
		NOx	0.13	0.23
		SO2	0.01	0.01
		VOC	0.97	1.66
G-1	Area 3 Generator	CO	0.79	0.04
		NOx	3.66	0.18
		PM10	0.26	0.01
		PM2.5	0.26	0.01
		SO2	0.24	0.01

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		VOC	0.29	0.01
G-2	Area 4 Generator	CO	0.79	0.04
		NOx	3.66	0.18
		PM10	0.26	0.01
		PM2.5	0.26	0.01
		SO2	0.24	0.01
		VOC	0.29	0.01
G-3	Area 8 Generator	CO	0.79	0.04
		NOx	3.66	0.18
		PM10	0.26	0.01
		PM2.5	0.26	0.01
		SO2	0.24	0.01
		VOC	0.29	0.01
G-4	Office Generator	CO	1.44	0.07
		NOx	6.67	0.33
		PM10	0.47	0.02
		PM2.5	0.47	0.02
		SO2	0.44	0.02
		VOC	0.53	0.03
G-5	Brine Generator	CO	2.04	0.1
		NOx	9.46	0.47
		PM10	0.67	0.03
		PM2.5	0.67	0.03
		SO2	0.63	0.03
		VOC	0.75	0.04
FE-1	Firewater Engine	CO	4.13	0.21
		NOx	18.00	0.90
		PM10	0.53	0.03
		PM2.5	0.53	0.03

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		SO2	6.07	0.3
		VOC	0.53	0.03
H-1	Water Heater	CO	0.29	1.26
		NOx	0.34	1.5
		PM10	0.03	0.11
		PM2.5	0.03	0.11
		SO2	0.01	0.01
		VOC	0.02	0.08
H-3	Water Heater	CO	0.29	1.26
		NOx	0.34	1.5
		PM10	0.03	0.11
		PM2.5	0.03	0.11
		SO2	0.01	0.01
		VOC	0.02	0.08
H-4	Water Heater	CO	0.29	1.26
		NOx	0.34	1.5
		PM10	0.03	0.11
		PM2.5	0.03	0.11
		SO2	0.01	0.01
		VOC	0.02	0.08
H-5	N Ethylene Regen Heater	CO	0.28	1.23
		NOx	0.33	1.46
		PM10	0.03	0.11
		PM2.5	0.03	0.11
		SO2	0.01	0.01
		VOC	0.02	0.08
H-7	N Propylene Regen Heater	CO	0.22	0.97
		NOx	0.26	1.16
		PM10	0.02	0.09

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		PM2.5	0.02	0.09
		SO2	0.01	0.01
		VOC	0.02	0.06
H-8	S Propylene Regen Heater	CO	0.12	0.54
		NOx	0.15	0.64
		PM10	0.01	0.05
		PM2.5	0.01	0.05
		SO2	0.01	0.01
		VOC	0.01	0.04
H-9	Propane Regen Gas Heater	CO	0.4	1.75
		NOx	0.47	2.08
		PM10	0.04	0.16
		PM2.5	0.04	0.16
		SO2	0.01	0.01
		VOC	0.03	0.11
H-10	S Ethylene Regen Heater	CO	0.33	1.44
		NOx	0.39	1.72
		PM10	0.03	0.13
		PM2.5	0.03	0.13
		SO2	0.01	0.01
		VOC	0.02	0.09
WELL-GAS	Well Degassing	VOC	0.6	2.61
FUG-NW-A1	North Well Process Fugitives (5)	VOC	1.22	5.36
FUG-NW-A2	North Well Process Fugitives (5)	VOC	2.64	11.55
FUG-NW-B1	North Well Process Fugitives (4)	VOC	12.95	56.73

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FUG-NW-B2	North Well Process Fugitives (5)	VOC	19.1	83.65
FUG-SW1	South Well Process Fugitives (5)	VOC	16.15	70.72
FUG-SW2	South Well Process Fugitives (5)	VOC	31.85	139.52
FUG-TERM1	Terminal Process Process Fugitives (5)	VOC	47.63	208.64
FUG-TERM2	Terminal Process Process Fugitives (5)	VOC	138.79	607.93
FUG-ETHYL	FUG-ETHYL (5)	VOC	2.40	10.53
FUG-R-LOAD1	Rail Loading Process Fugitives	VOC	5.83	25.44
FUG-R-LOAD2	Rail Loading Process Fugitives	VOC	21.57	94.39
H-11	Ethylene Regen Heater	NOx	0.09	0.39
		CO	0.77	3.37
		VOC	0.05	0.22
		PM	0.07	0.31
		PM10	0.07	0.31
		PM2.5	0.07	0.31
		SO2	0.01	0.04
H-12	Ethylene Regen Heater	NOx	0.09	0.20
		CO	0.77	1.69
		VOC	0.05	0.11
		PM	0.07	0.15
		PM10	0.07	0.15
		PM2.5	0.07	0.15

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		SO2	0.01	0.02
DES-MSS	Desiccant Dehy MSS	VOC	1.39	0.01
SUL-MSS	Sulfur Treater MSS	VOC	1.72	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
(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) The emission rates represent emissions associated with loading operations from this permitted unit. These emissions shall not occur simultaneously from these two flares. Each flare is owned and operated by the holder of this permit under TCEQ Air Account ID No. CI-0022-A.

Date: March 27, 2015