Emission Sources - Maximum Allowable Emission Rates

Permit Number 5144A

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)
1	Amine Regenerator Heater	CO	2.81	12.31
		NO_x	3.34	14.65
		PM	0.25	1.11
		PM_{10}	0.25	1.11
		$PM_{2.5}$	0.25	1.11
		SO_2	0.02	0.09
		VOC	0.18	0.81
3A	Glycol Regenerator Heater No. 1	CO	0.14	0.63
		NO_x	0.17	0.75
		PM	0.01	0.06
		PM_{10}	0.01	0.06
		$PM_{2.5}$	0.01	0.06
		SO_2	0.01	0.01
		VOC	0.01	0.04
4	Boiler	CO	1.03	4.53
		NO_x	1.23	5.39
		PM	0.09	0.41
		PM_{10}	0.09	0.41
		$PM_{2.5}$	0.09	0.41
		SO_2	0.01	0.03
		VOC	0.07	0.30

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5	Tail Gas Incinerator	CO	1.60	5.83
		H_2S	0.62	0.59
		NO_x	1.90	6.94
		PM	0.15	0.53
		PM_{10}	0.15	0.53
		$PM_{2.5}$	0.15	0.53
		SO_2	1164.11	1116.03
		VOC	0.08	0.34
6	Flare	CO	0.21	0.91
		H_2S	0.01	0.01
		NO_x	0.02	0.11
		SO_2	0.01	0.01
		VOC	0.01	0.03
7A	Waukesha L7042G 748-Horsepower Generator No. 1	CO	6.60	28.89
		NO_x	3.30	14.45
		PM	0.11	0.48
		PM_{10}	0.11	0.48
		$PM_{2.5}$	0.11	0.48
		SO_2	0.01	0.01
		VOC	0.28	1.23
		HAPs (6)	0.03	0.14
7B	Waukesha L7042G 748-Horsepower Generator No. 2	CO	6.60	28.89
		NO_x	3.30	14.45

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		PM	0.11	0.48
		PM_{10}	0.11	0.48
		$PM_{2.5}$	0.11	0.48
		SO_2	0.01	0.01
		VOC	0.28	1.23
		HAPs (6)	0.03	0.14
7C	Waukesha L5790G 613-Horsepower Generator No. 3	CO	5.41	23.68
		NO_x	2.70	11.84
		PM	0.09	0.39
		PM_{10}	0.09	0.39
		$PM_{2.5}$	0.09	0.39
		SO_2	0.01	0.01
		VOC	0.23	1.01
		HAPs (6)	0.03	0.12
9A	Glycol Regeneration Heater No. 2	CO	0.08	0.36
		NO_x	0.10	0.43
		PM	0.01	0.03
		PM_{10}	0.01	0.03
		$PM_{2.5}$	0.01	0.03
		SO_2	0.01	0.01
		VOC	0.01	0.02
32	Waukesha F1197G 162-Horsepower Gas Compressor	CO	5.00	21.90
		NO_x	5.00	21.90
		PM	0.02	0.10
		PM_{10}	0.02	0.10

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	0.02	0.10
		SO_2	0.01	0.01
		VOC	0.13	0.55
		HAPs (6)	0.02	0.08
33	Ajax DPC-230 230-Horsepower Gas Compressor	CO	1.22	5.33
		NO_x	2.23	9.77
		PM	0.10	0.42
		PM_{10}	0.10	0.42
		$PM_{2.5}$	0.10	0.42
		SO_2	0.01	0.01
		VOC	0.91	4.00
		HAPs (6)	0.15	0.67
34	Ajax DPC-360 360-Horsepower Gas Compressor	CO	1.11	4.87
		NO_x	5.00	21.90
		PM	0.15	0.64
		PM_{10}	0.15	0.64
		$PM_{2.5}$	0.15	0.64
		SO_2	0.01	0.01
		VOC	1.67	7.30
		HAPs (6)	0.24	1.04
35	Waukesha L7042G 748-Horsepower Gas Compressor	CO	6.60	28.89
		NO_x	3.30	14.45
		PM	0.11	0.48
		PM_{10}	0.11	0.48
		$PM_{2.5}$	0.11	0.48
		SO_2	0.01	0.01

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		VOC	0.28	1.23
		HAPs (6)	0.03	0.14
36	Caterpillar G3516LE 1,340-Horsepower Gas Compressor	CO	8.86	38.82
		NO_x	5.91	25.88
		PM	0.11	0.47
		PM_{10}	0.11	0.47
		$PM_{2.5}$	0.11	0.47
		SO_2	0.01	0.03
		VOC	1.54	6.73
		HAPs (6)	0.77	3.36
V-21	Amine Tank	VOC	0.01	0.01
V-27	Slop Oil Tank	VOC	0.01	0.01
S-PIT	Solution Pit	VOC	0.01	0.01
8	Process Fugitives (5)	H_2S	0.01	0.01
		VOC	0.20	0.86
TURB1	Microturbines Set 1	CO	1.20	5.27
		NO_x	0.46	1.99
		PM	0.08	0.33
		PM_{10}	0.08	0.33
		$PM_{2.5}$	0.08	0.33
		SO_2	0.01	0.02
		VOC	0.11	0.48
TURB3	Microturbines Set 3	CO	1.20	5.27

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		NO_x	0.46	1.99
		PM	0.08	0.33
		PM_{10}	0.08	0.33
		$PM_{2.5}$	0.08	0.33
		SO_2	0.01	0.02
		VOC	0.11	0.48
V-30	Produced Water Tank	H_2S	0.13	0.12
		VOC	0.02	0.09
L-1	Slop Oil Truck Loading	VOC	0.01	0.01
L-2	Produced Water Truck Loading	H_2S	0.04	0.01
		VOC	0.01	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) CO - carbon monoxide
HAP - hazardous air pollutants
H_2S - hydrogen sulfide
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.
(6) HAP emission rates are included in the VOC emission rates.

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Date: November 16, 2015