Emission Sources - Maximum Allowable Emission Rates

Permit Number 49140

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)
15-36-3	Hydrogen Reactor Feed Preheater	CO	0.51	2.24
		NO_x	0.61	2.66
		SO_2	0.09	0.38
		VOC	0.03	0.15
		PM	0.05	0.20
		PM_{10}	0.05	0.20
		$PM_{2.5}$	0.05	0.20
20-36-1	Pentane Reactor Furnace	CO	2.47	10.82
		NO_x	2.94	12.88
		SO_2	0.42	1.84
		VOC	0.16	0.71
		PM	0.22	0.98
		PM_{10}	0.22	0.98
		$PM_{2.5}$	0.22	0.98
3-95-3	FCCU No.3 3 Regenerator Vent	CO	214.82	940.93
		NO_x	141.13	261.79
		SO_2	49.13	107.59
		VOC	6.76	29.63
		H_2SO_4	16.53	72.39
		PM	57.92	253.69
		PM_{10}	57.92	253.69
		$PM_{2.5}$	57.92	253.69
69-95-6	Storage Tank 6	VOC	0.38	1.16

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68-95-9	Storage Tank 9	VOC	0.25	0.54
68-95-10	Storage Tank 10	VOC	0.25	0.55
68-95-26	Storage Tank 26	VOC	0.27	0.72
68-95-27	Storage Tank 27	VOC	0.27	0.71
68-95-32	Storage Tank 32	VOC	0.47	1.38
68-95-33	Storage Tank 33	VOC	0.74	1.85
68-95-43	Storage Tank 43	VOC	0.69	1.67
68-95-78	Storage Tank 78	VOC	3.89	10.01
68-95-79	Storage Tank 79	VOC	0.13	0.02
68-95-83	Storage Tank 83	VOC	0.62	1.69
68-95-85	Storage Tank 85	VOC	0.22	0.36
68-95-86	Storage Tank 86	VOC	0.17	0.25
68-95-87	Storage Tank 87	VOC	0.23	0.26
68-95-215	Storage Tank 215	VOC	4.54	11.94
68-95-219	Storage Tank 219	VOC	0.39	0.72
68-95-406	Storage Tank 409	VOC	3.89	10.25
68-95-7	Storage Tank 7	VOC	1.24	0.11
68-95-41	Storage Tank 41	VOC	0.08	0.02
68-95-42	Storage Tank 42	VOC	0.08	0.04
68-95-45	Storage Tank 45	VOC	0.08	0.18
68-95-46	Storage Tank 46	VOC	0.08	0.16
68-95-51	Storage Tank 51	VOC	0.02	0.02
68-95-53	Storage Tank 53	VOC	0.08	0.20
68-95-54	Storage Tank 54	VOC	1.31	2.48
68-95-55	Storage Tank 55	VOC	0.15	0.04
68-95-201	Storage Tank 201	VOC	5.72	0.96
68-95-202	Storage Tank 202	VOC	4.53	1.42
68-95-203	Storage Tank 203	VOC	5.20	1.10
68-95-204	Storage Tank 204	VOC	5.20	1.42

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68-95-224	Storage Tank 224	VOC	0.02	0.02
68-95-400	Storage Tank 400	VOC	0.38	0.03
68-95-405	Storage Tank 405	VOC	0.33	0.04
86-FUG	Tank Truck Loading Losses	VOC	1.17	0.01
86-0-0	Tank Truck Loading Fugitives (5)	VOC	0.94	4.13
87-0-0	Railcar Loading Fugitives (5)	VOC	0.95	1.14
54-22-1	Cooling Tower (6)	VOC	2.23	9.75
		PM	1.99	8.72
		PM_{10}	1.99	8.72
		$PM_{2.5}$	1.03	4.51
54-22-1	Cooling Tower (7)	VOC	3.15	13.80
		PM	0.56	2.47
		PM_{10}	0.56	2.47
		$PM_{2.5}$	0.29	1.28

(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
H_2SO_4 - sulfuric acid
(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) Prior to expansion of the cooling tower authorized with FCC Gas Plant, TCEQ Project 267681.
(7) After expansion of the cooling tower authorized with FCC Gas Plant, TCEQ Project 267681.

Date: May 30, 2018