Emission Sources - Maximum Allowable Emission Rates

Permit Number 19784

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)
88-97-101	Thermal Oxidizer (Dock No. 2)	VOC	5.33	
		NO_x	4.20	
		CO	5.76	
		PM	0.52	
		PM_{10}	0.52	
		$PM_{2.5}$	0.52	
		SO_2	0.04	
88-97-102	Thermal Oxidizer (Dock No. 3) (6)	VOC	5.33	
		NO_x	4.20	
		CO	5.76	
		PM	0.52	
		PM_{10}	0.52	
		$PM_{2.5}$	0.52	
		SO_2	0.04	
88-61-3	Vapor Combustor Unit (Dock No. 4) (6)	VOC	5.33	
		Benzene	1.29	
		NO_x	9.14	
		CO	18.24	
		PM	0.49	
		PM_{10}	0.49	
		$PM_{2.5}$	0.49	
		SO_2	0.04	

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88-61-2	Vapor Combustor Unit (Dock No. 4) (7)	VOC	2.94	
		Benzene	1.29	
		NO_x	5.06	
		CO	10.11	
	Combined Caps	VOC		2.12
		Benzene		0.16
		NO_x		5.81
		CO		11.61
		PM		0.31
		PM_{10}		0.31
		$PM_{2.5}$		0.31
		SO_2		0.03
88-11-DOCK	Dock Loading Loss Cap	VOC	53.29	13.48
		Benzene	4.80	0.64
88-0-0	Piping Fugitives (5)	VOC	1.08	4.74
		Benzene	0.18	0.79
88-95-102	Aviation Gasoline Tank 102	VOC	4.05	
		Benzene	0.01	
88-95-112	Aviation Gasoline Tank 112	VOC	2.93	
		Benzene	0.01	
	Combined Cap	VOC		20.85
		Benzene		0.01
88-95-103	Benzene Tank 103	Benzene	0.60	
88-95-123	Benzene Tank 123	Benzene	1.59	
	Combined Cap	Benzene		4.99
88-95-104	Cyclohexane Tank 104	VOC	1.48	
88-95-106	Cyclohexane Tank 106	VOC	1.48	
88-95-114	Cyclohexane Tank	VOC	0.80	

Emission Sources - Maximum Allowable Emission Rates

	114			
	Combined Cap	VOC		10.19
88-95-105	Naphtha Tank 105	VOC	1.46	
		Benzene	0.03	
88-95-109	Naphtha Tank 109	VOC	1.37	
		Benzene	0.03	
	Combined Cap	VOC		7.97
		Benzene		0.15
88-95-110	Kerosene Tank 110	VOC	4.77	1.49
		Benzene	0.01	0.01
88-95-111	Tank 111	VOC	0.41	1.10
88-95-113	Tank 113	VOC	4.93	15.95
		Benzene	0.09	0.28
88-95-115	Xylenes Tank 115	VOC	0.35	
88-95-121	Xylenes Tank 121	VOC	0.45	
	Combined Cap	VOC		0.72
88-95-119	Tank 119	VOC	1.30	5.15
		Benzene	0.01	0.02
88-95-130	Crude Oil Tank 130	VOC	4.53	
		Benzene	0.02	
88-95-131	Crude Oil Tank 131	VOC	4.53	
		Benzene	0.02	
88-95-132	Crude Oil Tank 132	VOC	5.45	
		Benzene	0.02	
	Combined Cap	VOC		12.16
		Benzene		0.04
88-95-136	BTX Tank No. 136	VOC	0.45	0.52
		Benzene	0.30	0.35
88-95-137	DAC Tank No. 137	VOC	0.58	1.25

Emission Sources - Maximum Allowable Emission Rates

		Benzene	0.29	0.63
88-95-SSM	Tank Maintenance	VOC	678.80	2.85
		Benzene	36.80	0.25
		NO_x	2.04	0.08
		CO	10.50	0.42
88-62-002	Central Flare	VOC	3.50	0.04
		Benzene	0.01	0.01
		NO_x	3.45	0.04
		CO	6.89	0.09

(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) EPN 88-61-3 serves Dock 3 until installation of the new thermal oxidizer designated as EPN 88-97-102.
(7) EPN 88-61-2 serves Dock 4 until the vapor combustor designated as EPN 88-61-3 is installed at Dock 4.

Date: October 30, 2014