Emission Sources - Maximum Allowable Emission Rates

Permit Number 100114

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 (4)	
			lbs/hour	TPY (5)
LIQFLARE	Liquefaction Flare	NO_x	903.04	5.14
		CO	1803.00	10.25
		SO_2	<0.01	0.02
		VOC	398.24	5.15
LIQFWP-1	Fire Water Pump 1	NO_x	3.25	0.16
		CO	0.85	0.04
		PM	0.10	<0.01
		PM_{10}	0.10	<0.01
		$PM_{2.5}$	0.10	<0.01
		SO_2	0.01	<0.01
		H_2SO_4	<0.01	<0.01
		VOC	0.11	0.01
LIQFWP-2	Fire Water Pump 2	NO_x	3.25	0.16
		CO	0.85	0.04
		PM	0.10	<0.01
		PM_{10}	0.10	<0.01
		$PM_{2.5}$	0.10	<0.01
		SO_2	0.01	<0.01
		H_2SO_4	<0.01	<0.01
		VOC	0.11	0.01
LIQFWP-3	Fire Water Pump 3	NO_x	3.25	0.16

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		CO	0.85	0.04
		PM	0.10	<0.01
		PM_{10}	0.10	<0.01
		$PM_{2.5}$	0.10	<0.01
		SO_2	0.01	<0.01
		H_2SO_4	<0.01	<0.01
		VOC	0.11	0.01
LIQEG-1	Emergency Generator 1 (DQFAH)	NO_x	1.38	0.03
		CO	2.00	0.05
		PM	0.05	<0.01
		PM_{10}	0.05	<0.01
		$PM_{2.5}$	0.05	<0.01
		SO_2	0.02	<0.01
		H_2SO_4	<0.01	<0.01
		VOC	0.13	<0.01
		NH_3	0.51	0.01
LIQEG-2	Emergency Generator 2 (DQFAH)	NO_x	1.38	0.03
		CO	2.00	0.05
		PM	0.05	<0.01
		PM_{10}	0.05	<0.01
		$PM_{2.5}$	0.05	<0.01
		SO_2	0.02	<0.01
		H_2SO_4	<0.01	<0.01
		VOC	0.13	<0.01
		NH_3	0.51	0.01
LIQEG-3	Emergency Generator 3 (DQFAH)	NO_x	1.38	0.03

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		CO	2.00	0.05
		PM	0.05	<0.01
		PM_{10}	0.05	<0.01
		$PM_{2.5}$	0.05	<0.01
		SO_2	0.02	<0.01
		H_2SO_4	<0.01	<0.01
		VOC	0.13	<0.01
		NH_3	0.51	0.01
LIQEG-4	Emergency Generator 4 (DQFAH)	NO_x	1.38	0.03
		CO	2.00	0.05
		PM	0.05	<0.01
		PM_{10}	0.05	<0.01
		$PM_{2.5}$	0.05	<0.01
		SO_2	0.02	<0.01
		H_2SO_4	<0.01	<0.01
		VOC	0.13	<0.01
		NH_3	0.51	0.01
LIQEG-5	Emergency Generator – Guard House/Admin Area (DQDAA)	NO_x	3.50	0.09
		CO	0.79	0.02
		PM	0.04	<0.01
		PM_{10}	0.04	<0.01
		$PM_{2.5}$	0.04	<0.01
		SO_2	0.01	<0.01
		H_2SO_4	<0.01	<0.01
		VOC	0.05	<0.01
LIQEG-6	Emergency Generator – Dock 2	NO_x	2.64	0.07

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		CO	0.18	<0.01
		PM	0.02	<0.01
		PM_{10}	0.02	<0.01
		$PM_{2.5}$	0.02	<0.01
		SO_2	<0.01	<0.01
		H_2SO_4	<0.01	<0.01
		VOC	0.02	<0.01
LIQEG-7	Train 4 - Emergency Generator 4 (DQFAH)	NO_x	1.38	0.03
		CO	2.00	0.05
		PM	0.05	<0.01
		PM_{10}	0.05	<0.01
		$PM_{2.5}$	0.05	<0.01
		SO_2	0.02	<0.01
		H_2SO_4	<0.01	<0.01
		VOC	0.13	<0.01
		NH_3	0.51	0.01
LIQEAC-1	Emergency Air Compressor (QSX15)	NO_x	1.87	0.05
		CO	1.73	0.04
		PM	0.10	<0.01
		PM_{10}	0.10	<0.01
		$PM_{2.5}$	0.10	<0.01
		SO_2	0.01	<0.01
		H_2SO_4	<0.01	<0.01
		VOC	0.10	<0.01
		NH_3	0.06	<0.01
LIQEAC-2	Train 4 - Emergency Air Compressor	NO_x	1.87	0.05

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		CO	1.73	0.04
		PM	0.10	<0.01
		PM_{10}	0.10	<0.01
		$PM_{2.5}$	0.10	<0.01
		SO_2	0.01	<0.01
		H_2SO_4	<0.01	<0.01
		VOC	0.10	<0.01
		NH_3	0.06	<0.01
LEGT-1	Emergency Generator Tank 1	VOC	0.01	<0.01
LEGT-2	Emergency Generator Tank 2	VOC	0.01	<0.01
LEGT-3	Emergency Generator Tank 3	VOC	0.01	<0.01
LEGT-4	Emergency Generator Tank 4	VOC	0.01	<0.01
LEGT-5	Emergency Generator Tank 5	VOC	0.01	<0.01
LEGT-6	Emergency Generator Tank 6	VOC	0.01	<0.01
LEGT-7	Emergency Generator Tank 7 – Train 4	VOC	0.01	<0.01
LEACT-1	Backup Air Compressor Tank 1	VOC	0.01	<0.01
LEACT-2	Backup Air Compressor Tank 2 - Train 4	VOC	0.01	<0.01
LFWPT-1	Diesel Firewater Tank 1	VOC	0.01	<0.01
LFWPT-2	Diesel Firewater Tank 2	VOC	0.01	<0.01
LFWPT-3	Diesel Firewater Tank 3	VOC	0.01	<0.01
FUG-LIQ123	Fugitives Train 1 – Train 3 (6)	VOC	1.16	4.69
FUG-LIQ4	Fugitives Train 4 (6)	VOC	0.39	1.57
11K-30 12K-30 13K-30 14K-30 11K-31 12K-31	Propane Compressors Lube Oil Vent Propane Compressors Lube Oil Vent Propane Compressors Lube Oil Vent Propane Compressors Lube Oil Vent LP MR Compressors Lube Oil Vent LP MR Compressors Lube Oil Vent	PM	0.03	0.11
		PM_{10}	0.03	0.11
13K-31 14K-31	LP MR Compressors Lube Oil Vent LP MR Compressors Lube Oil Vent			

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		$PM_{2.5}$	0.03	0.11
		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) 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 mist
NH3 - ammonia
(4) Planned startup and shutdown (SS) lbs/hour emissions for all pollutants are authorized even if not specifically identified as SS.
(5) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period. Annual emission rates for each source include planned SS emissions.
(6) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date: February 6, 2018