

# 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 Emergency Flare	NO <sub>x</sub>	596.16	12.46
		CO	1190.16	24.88
		VOC	248.75	6.53
LIQFWP-1	Fire Water Pump 1	NO <sub>x</sub>	4.12	0.21
		CO	3.80	0.19
		PM	0.22	0.01
		PM <sub>10</sub>	0.22	0.01
		PM <sub>2.5</sub>	0.22	0.01
		SO <sub>2</sub>	<0.01	<0.01
		H <sub>2</sub> SO <sub>4</sub>	<0.01	<0.01
		VOC	0.22	0.01
LIQFWP-2	Fire Water Pump 2	NO <sub>x</sub>	4.12	0.21
		CO	3.80	0.19
		PM	0.22	0.01
		PM <sub>10</sub>	0.22	0.01
		PM <sub>2.5</sub>	0.22	0.01
		SO <sub>2</sub>	<0.01	<0.01
		H <sub>2</sub> SO <sub>4</sub>	<0.01	<0.01
		VOC	0.22	0.01
LIQEG-1	Liquefaction Emergency Generator 1	NO <sub>x</sub>	7.55	0.19

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		CO	4.34	0.11
		PM	0.25	<0.01
		PM <sub>10</sub>	0.25	<0.01
		PM <sub>2.5</sub>	0.25	<0.01
		SO <sub>2</sub>	<0.01	<0.01
		H <sub>2</sub> SO <sub>4</sub>	<0.01	<0.01
		VOC	0.40	0.0099
LIQEG-2	Liquefaction Emergency Generator 2	NO <sub>x</sub>	7.55	0.19
		CO	4.34	0.11
		PM	0.25	<0.01
		PM <sub>10</sub>	0.25	<0.01
		PM <sub>2.5</sub>	0.25	<0.01
		SO <sub>2</sub>	<0.01	<0.01
		H <sub>2</sub> SO <sub>4</sub>	<0.01	<0.01
		VOC	0.40	0.0099
LIQEG-3	Liquefaction Emergency Generator 3	NO <sub>x</sub>	7.55	0.19
		CO	4.34	0.11
		PM	0.25	<0.01
		PM <sub>10</sub>	0.25	<0.01
		PM <sub>2.5</sub>	0.25	<0.01
		SO <sub>2</sub>	<0.01	<0.01
		H <sub>2</sub> SO <sub>4</sub>	<0.01	<0.01
		VOC	0.40	0.0099
LIQEG-4	Liquefaction Emergency Generator 4	NO <sub>x</sub>	7.55	0.19
		CO	4.34	0.11

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		PM	0.25	<0.01
		PM <sub>10</sub>	0.25	<0.01
		PM <sub>2.5</sub>	0.25	<0.01
		SO <sub>2</sub>	<0.01	<0.01
		H <sub>2</sub> SO <sub>4</sub>	<0.01	<0.01
		VOC	0.40	0.0099
LIQEG-5	Emergency Generator – Guard House/Admin Area	NO <sub>x</sub>	7.55	0.19
		CO	4.34	0.11
		PM	0.25	<0.01
		PM <sub>10</sub>	0.25	<0.01
		PM <sub>2.5</sub>	0.25	<0.01
		SO <sub>2</sub>	<0.01	<0.01
		H <sub>2</sub> SO <sub>4</sub>	<0.01	<0.01
		VOC	0.40	0.0099
LIQEAC-1	Emergency Air Compressor	NO <sub>x</sub>	1.87	0.05
		CO	1.73	0.04
		PM	0.10	<0.01
		PM <sub>10</sub>	0.10	<0.01
		PM <sub>2.5</sub>	0.10	<0.01
		SO <sub>2</sub>	<0.01	<0.01
		H <sub>2</sub> SO <sub>4</sub>	<0.01	<0.01
		VOC	0.10	0.0025
LIQEG-6	Emergency Generator – Dock 2	NO <sub>x</sub>	2.50	0.06
		CO	2.30	0.06
		PM	0.13	<0.01

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		PM <sub>10</sub>	0.13	<0.01
		PM <sub>2.5</sub>	0.13	<0.01
		SO <sub>2</sub>	<0.01	<0.01
		H <sub>2</sub> SO <sub>4</sub>	<0.01	<0.01
		VOC	0.13	0.0033
LEGT-1	Diesel Emergency Generator Tank 1	VOC	<0.01	0.00058
LEGT-2	Diesel Emergency Generator Tank 2	VOC	<0.01	0.00058
LEGT-3	Diesel Emergency Generator Tank 3	VOC	<0.01	0.00058
LEGT-4	Diesel Emergency Generator Tank 4	VOC	<0.01	0.00058
LEGT-5	Diesel Guard House/Admin Area Generator Tank 5	VOC	<0.01	0.00058
LEACT-1	Diesel Emergency Air Compressor Tank 1	VOC	<0.01	0.00058
LEGT-6	Diesel Emergency Generator – Dock 2 Tank 6	VOC	<0.01	0.00058
LFWPT-1	Diesel Firewater Tank 1	VOC	0.02	0.00042
LFWPT-2	Diesel Firewater Tank 2	VOC	0.02	0.00042
FUG-LIQ	Fugitives (6)	VOC	0.08	0.34

- (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<sub>x</sub>
  - total oxides of nitrogen
- SO<sub>2</sub>
  - sulfur dioxide
- PM
  - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented
- PM<sub>10</sub>
  - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented
- PM<sub>2.5</sub>
  - particulate matter equal to or less than 2.5 microns in diameter
- CO
  - carbon monoxide

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H<sub>2</sub>SO<sub>4</sub> - sulfuric acid mist

- (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: March 24, 2015