

Emission Sources - Maximum Allowable Emission Rates

Permit Number 3102

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)
Production Emission Rates				
Tank 502	Internal Floating Roof Storage Tank 502	VOC	0.50	1.65
Tank 506	Internal Floating Roof Storage Tank 506	VOC	0.47	1.54
Tank 508	Fixed Roof Storage Tank 508	VOC	4.04	3.13
Tank 509	Fixed Roof Storage Tank 509	VOC	5.03	4.12
Tank 510	Fixed Roof Storage Tank 510	VOC	1.68	0.03
RAILFUG	Railcar Loading Fugitives (5)	VOC	49.80	8.28
TRUCKFUG	Truck Loading Fugitives (5)	VOC	11.68	0.07
FU-1	Fugitives (5)	VOC	1.93	8.45
F-3	Flare No. 3	VOC	17.82	0.46
		CO	6.03	0.26
		NO _x	0.84	0.04
		SO ₂	0.01	0.01
		H ₂ S	0.01	0.01

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F-4	Flare No. 4	VOC	40.09	16.78
		CO	13.49	5.75
		NO _x	1.87	0.80
		SO ₂	0.01	0.01
		H ₂ S	0.01	0.01
Maintenance Startup and Shutdown (MSS) Emission Rates				
IFR-TK	IFR Tanks	VOC	8.19	0.56
FXR-TK	Fixed Roof Tanks	VOC	8.24	0.17
PRES-TK	Pressure Tanks	VOC	9.04	2.22
F-3	Flare No. 3 (6)	VOC	289.91	4.84
		CO	84.98	1.50
		NO _x	42.57	0.73
		SO ₂	0.44	0.03
F-4	Flare No. 4 (6)	VOC	289.91	4.84
		CO	84.98	1.50
		NO _x	42.57	0.73
		SO ₂	0.44	0.03
P-EQUIP	Pump/Rotating Equipment Maintenance	VOC	1.90	0.24
VACUUM TRUCK	Controlled Vacuum Truck Loading (VP > 0.5 psia)	VOC	0.02	0.03
	Uncontrolled Vacuum Truck Loading (VP < 0.5 psia)	VOC	1.86	0.84
CLEAN LINE	Pigging/Line Clearing	VOC	1.87	0.06

- (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.

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- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- NO_x - total oxides of nitrogen
- CO - carbon monoxide
- SO₂ - sulfur dioxide
- H₂S - hydrogen sulfide
- (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) The hourly emission rate represents the combined hourly emission rates from both flares.

Date: September 26, 2013