

Emission Sources - Maximum Allowable Emission Rates

Permit Number 101616

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)
FLR-5	Flare Routine	CO	0.87	3.80
		NO _x	0.43	1.90
		VOC	0.73	3.20
		H ₂ S	0.01	<0.01
	Controlled Planned Maintenance, Startup, and Shutdown (MSS) Emissions	CO	6.60	0.32
		NO _x	3.31	0.16
		VOC	48.01	5.52
F-07	Hot Oil Heater	CO	5.34	23.41
		NO _x	0.72	3.16
		VOC	0.09	0.38
		SO ₂	0.08	0.37
		PM	0.58	2.53
		PM ₁₀	0.58	2.53
		PM _{2.5}	0.58	2.53
		NH ₃	0.46	1.99
	Hot Oil Heater MSS	CO	42.76	1.54
		NO _x	2.63	0.09

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F-08	Hot Oil Heater	CO	5.34	23.41
		NO _x	0.72	3.16
		VOC	0.09	0.38
		SO ₂	0.08	0.37
		PM	0.58	2.53
		PM ₁₀	0.58	2.53
		PM _{2.5}	0.58	2.53
		NH ₃	0.46	1.99
	Hot Oil Heater MSS	CO	42.76	1.54
		NO _x	2.63	0.09
AU-4	Amine Still Vent	VOC	0.15	0.65
		H ₂ S	0.05	0.20
FUG-FRAC5	Train 5 Fugitives (5)	VOC	0.33	1.44
FUG-CT-9	Cooling Tower 9	PM	0.55	2.43
		PM ₁₀	0.17	0.73
		PM _{2.5}	0.17	0.73
		VOC	0.81	3.56
TK-2	Ucarsol Storage Tank	VOC	0.01	0.01
MSS-TRAIN5	Train 5 Uncontrolled Planned MSS Emissions	VOC	11.68	0.24

- (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
- SO₂ - sulfur dioxide
- PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
- PM₁₀ - 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

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CO	- carbon monoxide
NH ₃	- ammonia
H ₂ S	- 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.

Date: March 7, 2016