

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 100787 and PSDTX 1314

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)
OC4H310	PDH-1HeaterH-310	NOx	11.10	
		CO	8.58	
		SO2	2.59	
		PM10/PM2.5	0.93	
		VOC (6)	1.19	
		Ethylene	1.19	
		Propylene	0.46	
OC4H320	PDH-1 Heater H-320	NOx	13.80	
		CO	10.66	
		SO2	3.22	
		PM10/PM2.5	1.15	
		VOC (6)	1.48	
		Ethylene	1.48	
		Propylene	0.57	
OC4H330	PDH-1 Heater H-330	NOx	9.0	
		CO	6.95	
		SO2	2.10	
		PM10/PM2.5	0.75	
		VOC (6)	0.97	
		Ethylene	0.97	
		Propylene	0.37	

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OC4H340	PDH-1 Heater H-340	NOx	7.80	
		CO	6.03	
		SO2	1.82	
		PM10/PM2.5	0.65	
		VOC (6)	0.84	
		Ethylene	0.84	
		Propylene	0.32	
OC4H310 OC4H320 OC4H330 OC4H340	PDH-1 Heater H-310 PDH-1 Heater H-320 PDH-1 Heater H-330 PDH-1 Heater H-330 PDH-1 Heater H-340	NOx		152.21
		CO		141.13
		SO2		1.71
		PM10/PM2.5		15.22
		VOC (6)		19.63
		Ethylene		19.59
		Propylene		7.49
		Hg	0.01	0.01
		Pb	0.01	0.01
OC4F9551	Multi-Point Ground Flare FX-955 (Routine)	CO	41.95	104.71
		NOx	6.95	19.51
		VOC (6)	25.76	9.46
		Ethylene	0.12	0.04
		Propylene	8.36	3.05
		SO2	0.26	0.18
OC4F956	Mercox Elevated Flare FS-956	CO	0.41	1.79
		NOx	0.05	0.21
		VOC (6)	0.005	0.02
		SO2	0.01	0.01

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OC4F957	Small Elevated Flare FS-957	CO	0.34	1.49
		NOx	0.07	0.29
		VOC (6)	1.06	4.63
		Ethylene	0.01	0.01
		Propylene	0.20	0.89
		SO2	0.01	0.01
OC4CT900	Cooling Tower CT-900	VOC (6)	1.75	7.68
		Ethylene	0.02	0.08
		Propylene	1.73	7.60
		PM10/PM2.5	0.25	1.11
OC4FU2	PDH-1 Fugitives	VOC (6)	2.20	9.64
		Ethylene	0.01	0.03
		Propylene	0.58	2.52
		HCl	0.01	0.05
		Cl2	0.01	0.05
OC4SV485	CCR Vent Scrubber T-485	CO	0.67	2.93
		NOx	0.05	0.24
		HCl	0.04	0.19
		SO2	0.08	0.33
		Cl2	0.08	0.37
OC4DL460	Catalyst Fines Drum Loading, D-460	PM	1.82	0.17
OC4O470	Catalyst Addition Drum Hopper, D-470	PM	1.82	0.17
OC4ST122	Storage Tank V-122 Vent	VOC (6)	0.01	0.01
OC4ST905	HCl Storage Tank V-905	HCl	0.01	0.01
OC4GE860	Backup Generator DG-860	CO	3.34	0.17
		NOx	15.51	0.78
		SO2	1.03	0.05
		PM10/PM2.5	1.10	0.06
		VOC (6)	1.26	0.06

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.

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- (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
- H₂S - hydrogen sulfide
- 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
- CO - carbon monoxide
- HCl - hydrogen chloride
- Cl₂ - chlorine
- Hg - mercury
- Pb - lead
- (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) VOC includes speciated ethylene and propylene emissions.

Date: January 11, 2013