

Emission Sources - Maximum Allowable Emission Rates

Permit Number 80052

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)
176-1	Unit 176 No. 1 Flare-Pilot Fuel Only	VOC	0.01	0.04
		CO	0.89	3.92
		NO _x	0.10	0.46
		SO ₂	0.01	0.01
176-2	Unit 176 No. 2 Flare-Pilot Fuel Only	VOC	0.01	0.04
		CO	0.89	3.92
		NO _x	0.10	0.46
		SO ₂	0.01	0.01
178-1	Unit 178 No. 1 Flare-Pilot Fuel Only	VOC	0.02	0.09
		CO	2.09	9.14
		NO _x	0.24	1.07
		SO ₂	0.01	0.01
178-2	Unit 178 No. 2 Flare-Pilot Fuel Only	VOC	0.02	0.09
		CO	2.09	9.14
		NO _x	0.24	1.07
		SO ₂	0.01	0.01
FUG178	Unit 178 Fugitives (5)	VOC	3.95	17.31
		H ₂ S	0.07	0.33
Heater H-3	Unit 178 Heater No. 3	VOC	0.18	0.81
		CO	2.82	12.37

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		NO _x	3.36	14.73
		PM ₁₀	0.26	1.12
		H ₂ S	0.01	0.01
		SO ₂	0.02	0.09
Heater H-4	Unit 178 Heater No. 4	VOC	0.15	0.64
		CO	2.22	9.74
		NO _x	2.65	11.59
		PM ₁₀	0.20	0.88
		H ₂ S	0.01	0.01
		SO ₂	0.02	0.07
AOS 176-1, AOS 178-1, AOS 178-2	AOS emissions from Compressor Maintenance	VOC	140.92	73.02
		NO _x	39.83	20.64
		CO	216.75	112.30
		H ₂ S	1.63	0.85
		SO ₂	150.72	78.10
	AOS emissions from Transformer Maintenance	VOC	487.80	8.40
		NO _x	137.89	2.37
		CO	750.28	12.92
		H ₂ S	5.66	0.10
		SO ₂	521.74	8.98
	AOS emissions from Process Train Maintenance	VOC	71.14	7.68
		NO _x	20.11	2.17
		CO	109.43	11.82
		H ₂ S	0.83	0.09
		SO ₂	76.10	8.22

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- (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
PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
CO - carbon monoxide
H₂S - hydrogen sulfide
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

Date: April 23, 2015