

Emission Sources - Maximum Allowable Emission Rates

Permit Number 56613, PSDTX706 and PSDTX709M1

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)
STKBRLR2	Boiler No. 2	VOC	1.30	5.67
		NO _x	12.96	56.76
		CO	19.78	86.65
		SO ₂	0.14	0.62
		PM	1.79	7.84
		PM ₁₀	1.79	7.84
		PM _{2.5}	1.79	7.84
STKBRLR3N	Boiler No. 3N	VOC	1.30	5.67
		VOC (6)	13.00	
		NO _x	2.16	9.46
		NO _x (6)	21.60	
		CO	12.96	56.76
		CO (6)	129.60	
		SO ₂	0.14	0.62
		PM	1.79	7.84
		PM ₁₀	1.79	7.84
		PM _{2.5}	1.79	7.84
		NH ₃	0.11	0.48
RTO	Regenerative Thermal Oxidizer	VOC	3.61	15.80
		NO _x	2.31	10.11
		CO	13.38	58.60
		SO ₂	0.01	0.01
		PM	0.01	0.07
		PM ₁₀	0.01	0.07
		PM _{2.5}	0.01	0.07

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FUG	Piping Fugitives (5)	VOC	0.16	0.72
BLR201	Boiler No. 201	VOC	1.23	5.20
		NO _x	21.1	92.4
		CO	18.3	80.0
		SO ₂	0.14	0.60
		PM	1.70	7.20
		PM ₁₀	1.70	7.20
		PM _{2.5}	1.70	7.20
202	Gas Turbine 202	NO _x	19.88	87.07
		CO	5.04	22.08
		VOC	0.21	0.92
		SO ₂	0.15	0.66
		PM	0.29	1.28
		PM ₁₀	0.29	1.28
		PM _{2.5}	0.29	1.28
203	Gas Turbine 203	NO _x	19.88	87.07
		CO	5.04	22.08
		VOC	0.21	0.92
		SO ₂	0.15	0.66
		PM	0.29	1.28
		PM ₁₀	0.29	1.28
		PM _{2.5}	0.29	1.28
FLARE	Elevated Flare (7)	VOC	40.73	39.97
		NO _x	23.66	22.79
		CO	47.24	45.50
		SO ₂	0.54	0.48
		H ₂ S	0.04	0.10
TEG1-FUG	TEG Dehydrator Unit 1 Fugitives (5)	VOC	0.04	0.17
		H ₂ S	0.01	0.01
TEG2-FUG	TEG Dehydrator Unit 2 Fugitives (5)	VOC	0.04	0.17
		H ₂ S	0.01	0.01
CRYO1	Cryogenic Unit No. 1	VOC	0.47	2.06

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		H ₂ S	0.01	0.01
LOFRPLT	Lean Oil Plant & Fractionation Plant Fugitives (5)	VOC	1.29	5.67
		H ₂ S	0.01	0.01
TKFARM	Tank Farm Fugitives (5)	VOC	0.66	2.88
		H ₂ S	0.01	0.01
TRKLOAD	Truck Loading Fugitives (5)	VOC	0.10	0.43
		H ₂ S	0.01	0.01

- (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
 CO - carbon monoxide
 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) Maximum allowable emission rates for maintenance, start-up, and shutdown, and reduced load (less than 30% operating capacity).
- (7) Standard Permit No. 101369 and PBR 101750 are referenced in NSR Permit No. 56613 and authorize EPN FLARE emissions in addition to quantities listed on the MAERT.

Date: May 28, 2015