

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 21945 and PSDTX813

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)
27A	Solar Centaur T4700S Turbine (Bypass Stack)	NO _x	7.47	29.52
		CO	5.43	21.33
		SO ₂	0.68	0.28
		PM	0.29	1.20
		PM ₁₀	0.29	1.20
		PM _{2.5}	0.29	1.20
		VOC	0.31	1.21
27B	Solar Centaur T4700S Turbine (Bypass Stack)	NO _x	7.47	29.52
		CO	5.43	21.33
		SO ₂	0.68	0.28
		PM	0.29	1.21
		PM ₁₀	0.29	1.21
		PM _{2.5}	0.29	1.21
		VOC	0.31	1.36

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27C	Solar Centaur T4700S Turbine (Bypass Stack)	NO _x	7.47	29.52
		CO	5.43	21.33
		SO ₂	0.68	0.28
		PM	0.29	1.20
		PM ₁₀	0.29	1.20
		PM _{2.5}	0.29	1.20
		VOC	0.31	1.21
27	Fired HRU contribution	NO _x	11.34	-
		CO	7.56	-
		SO ₂	7.61	-
		PM	1.89	-
		PM ₁₀	1.89	-
		PM _{2.5}	1.89	-
		VOC	1.89	-
		HCl	0.06	-
27	HRU- 3 Turbines and Fired HRU contribution (5)	NO _x	33.75	138.23
		CO	23.85	97.10
		SO ₂	9.64	34.21
		PM	2.77	11.89
		PM ₁₀	2.77	11.89
		PM _{2.5}	2.77	11.89
		VOC	2.8	11.9
		HCl	0.05	0.23
F20	DIB 1300 Unit (Area 113) Process Fugitives (6)	VOC	0.15	0.65

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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
HCl - hydrogen chloride
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
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Each turbine can exhaust through its own EPN or the Heat Recovery Unit (HRU), EPN 27. This limit represents the sum of the allowable emissions for EPNs 27A, 27B, 27C, and the emissions created in the HRU by firing additional fuel. Only the 'Fired HRU contribution' source represents additional emissions in EPN 27.
- (6) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date: November 21, 2016