

Emission Sources - Maximum Allowable Emission Rates

Permit Number 6798

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)
2	Solar Turbines (6)	CO	16.56	---
		NO _x	22.84	---
		PM ₁₀ /PM _{2.5}	0.90	---
		SO ₂	1.85	---
		VOC	0.91	---
3	Solar Turbines (6)	CO	16.56	---
		NO _x	22.84	---
		PM ₁₀ /PM _{2.5}	0.90	---
		SO ₂	1.85	---
		VOC	0.91	---
3A	Solar Turbine, Heat Bypass Equipment No. 082CM12001 (6)	CO	5.52	---
		NO _x	7.61	---
		PM ₁₀ /PM _{2.5}	0.30	---
		SO ₂	0.62	---
		VOC	0.30	---
3B	Solar Turbine, Heat Bypass Equipment No. 082CM12002 (6)	CO	5.52	---
		NO _x	7.61	---
		PM ₁₀ /PM _{2.5}	0.30	---
		SO ₂	0.62	---
		VOC	0.30	---

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3C	Solar Turbine, Heat Bypass Equipment No. 082CM12003 (6)	CO	5.52	---
		NO _x	7.61	---
		PM ₁₀ /PM _{2.5}	0.30	---
		SO ₂	0.62	---
		VOC	0.30	---
Solar Turbine Emission Cap for EPNs 2, 3, 3A, 3B, and 3C (6)		CO	---	67.21
		NO _x	---	93.04
		PM ₁₀ /PM _{2.5}	---	3.66
		SO ₂	---	7.56
		VOC	---	3.70
4	Solar Centaur Turbine with 55 MMBtu/hr Duct Burner Interim Rates (7) (8)	CO	6.40	---
		NO _x	14.30	---
		PM ₁₀	0.42	---
		SO ₂	0.04	---
		VOC	0.09	---
4	Solar Centaur Turbine with 62 MMBtu/hr Duct Burner Final Rates (7) (9)	CO	7.05	---
		NO _x	10.74	---
		PM ₁₀ /PM _{2.5}	1.66	---
		SO ₂	0.64	---
		VOC	0.47	---

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5	Solar Centaur Turbine with 55 MMBtu/hr Duct Burner Interim Rates (7) (8)	CO	6.40	---
		NO _x	14.30	---
		PM ₁₀ /PM _{2.5}	0.42	---
		SO ₂	0.04	---
		VOC	0.09	---
5	Solar Centaur Turbine with 62 MMBtu/hr Duct Burner Final Rates (7) (9)	CO	7.05	---
		NO _x	10.74	---
		PM ₁₀ /PM _{2.5}	1.66	---
		SO ₂	0.64	---
		VOC	0.47	---
5A	Centaur 4700 Turbine, Heat Bypass Equipment No. 058CM12051 Interim Rates (7) (8)	CO	5.69	---
		NO _x	4.66	---
		PM ₁₀ /PM _{2.5}	0.98	---
		SO ₂	0.63	---
		VOC	0.31	---
5A	Centaur 4700 Turbine, Heat Bypass Equipment No. 058CM12051 Final Rates (7) (9)	CO	5.69	---
		NO _x	4.66	---
		PM ₁₀ /PM _{2.5}	0.98	---
		SO ₂	0.63	---
		VOC	0.31	---

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Solar Centaur Turbine with 55 MMBtu/hr Duct Burner Emission Cap for EPNs 4, 5, and 5A. Interim Rates (7) (8)		CO	---	22.00
		NO _x	---	117.00
		PM ₁₀ /PM _{2.5}	---	3.66
		SO ₂	---	0.36
		VOC	---	0.73
Solar Centaur Turbine with 62 MMBtu/hr Duct Burner Emission Cap for EPNs 4, 5, and 5A. Final Rates (7) (9)		CO	---	30.47
		NO _x	---	46.82
		PM ₁₀ /PM _{2.5}	---	7.27
		SO ₂	---	2.81
		VOC	---	2.04
HRU3/HRU3A	Solar Centaur 50 Turbine and Heat Bypass, Equipment No. 058CM12010	CO	3.29	13.62
		NO _x	3.24	13.40
		PM ₁₀ /PM _{2.5}	0.36	1.48
		SO ₂	0.73	3.06
		VOC	0.19	0.78
F3	Fugitives (5)	VOC	2.88	12.59
F3A	Cooling Tower (8)	VOC	26.12	11.44
		PM	2.29	10.01
		PM ₁₀ /PM _{2.5}	0.87	3.82
CT-1	Isobutane Cooling Tower	VOC	4.00	1.75
		PM/PM ₁₀ /PM _{2.5}	0.35	1.53
CT-2	DeC3 Cooling Tower	VOC	3.24	1.42
		PM/PM ₁₀ /PM _{2.5}	0.14	0.62

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WSAC-1	Wet Surface Cooler (10)	PM	0.12	0.52
		PM ₁₀ /PM _{2.5}	0.04	0.20

- (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
- (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) Total emissions from EPNs 2, 3, 3A, 3B, and 3C shall not exceed the annual Solar Centaur Turbine Emission Cap.
- (7) Interim rates for EPNs 4, 5, and 5A shall apply until the installation of turbines authorized in the permit dated July 17, 2012. After installation of the turbines final emission rates shall apply.
- (8) Total emissions from EPNs 4, 5, and 5A shall not exceed the annual Solar Centaur Turbine with 55 MMBtu/hr Duct Burner Emission Cap.
- (9) Total emissions from EPNs 4, 5, and 5A shall not exceed the annual Solar Centaur Turbine with 62 MMBtu/hr Duct Burner Emission Cap.
- (10) PM₁₀/PM_{2.5} are included in PM emission rates.

Date: July 20, 2012