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, 3, 3A, 3B and 3C	Three Gas-Fired Solar Centaur Turbines, Equipment Nos. 082-CM12.001, 082-CM12.002 and 082-CM12.003 exhausting to an Unfired Heat Recovery Unit (HRU) with two exhaust stacks EPNs 2 and 3, each turbine may exhaust thru its HRU bypass stack EPNs 3A, 3B and 3C	CO	16.56	68.60
		CO (6)	24.42	
		NO_x	22.84	93.04
		PM	0.90	3.66
		PM_{10}	0.90	3.66
		$PM_{2.5}$	0.90	3.66
		SO_2	1.85	7.56
		VOC	0.91	3.70
4, 5 and 5A	Solar Centaur Turbine Equipment No. 058-CM12.051 exhausting thru a gas fired HRU with two exhaust stacks, EPNs 4 and 5 and an HRU bypass stack EPN 5A.	CO	7.05	30.85
		CO (6)	15.14	
		NO_x	10.74	46.82
		PM	1.66	7.27
		PM_{10}	1.66	7.27
		$PM_{2.5}$	1.66	7.27
		SO_2	0.64	2.81
		VOC	0.47	2.04

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HRU3 and HRU3A	Solar Centaur Turbine, Equipment No. 058-CM12.010 exhausting thru an unfired HRU with stack EPN HRU3 or HRU bypass stack EPN HRU3A	CO	3.29	13.95
		CO (6)	15.96	
		NO_x	3.24	13.40
		PM	0.36	1.48
		PM_{10}	0.36	1.48
		$PM_{2.5}$	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 (5)	VOC	26.12	11.44
		PM	2.29	10.01
		PM_{10}	0.87	3.82
		$PM_{2.5}$	0.87	3.82
CT-1	Isobutane Cooling Tower (5)	VOC	4.00	1.75
		PM	0.35	1.53
		PM_{10}	0.35	1.53
		$PM_{2.5}$	0.35	1.53
CT-2	DeC3 Cooling Tower (5)	VOC	3.24	1.42
		PM	0.14	0.62
		PM_{10}	0.14	0.62
		$PM_{2.5}$	0.14	0.62
WSAC-1	Wet Surface Cooler (5)	PM	0.12	0.52
		PM_{10}	0.04	0.20
		$PM_{2.5}$	0.04	0.20

(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
SO_2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - 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) Increased allowable emission rate during the turbine startup, shutdown and water wash.

Date: August 20, 2021