

# Emission Sources - Maximum Allowable Emission Rates

Special Permit Number 18293

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)
Boiler 1	CUP Boiler 1 (5)	SO <sub>2</sub>	0.04	0.02
		NO <sub>x</sub>	7.83	3.92
		PM	0.42	0.21
		PM <sub>10</sub>	0.42	0.21
		PM <sub>2.5</sub>	0.42	0.21
		VOC	0.30	0.15
		CO	8.79	4.40
Boiler 2	CUP Boiler 2	SO <sub>2</sub>	0.04	0.18
		NO <sub>x</sub>	7.83	34.30
		PM	0.42	1.84
		PM <sub>10</sub>	0.42	1.84
		PM <sub>2.5</sub>	0.42	1.84
		VOC	0.30	1.31
		CO	8.79	38.50
Boiler 3	CUP Boiler 3 (5)	SO <sub>2</sub>	0.04	0.02
		NO <sub>x</sub>	7.83	3.92
		PM	0.42	0.21
		PM <sub>10</sub>	0.42	0.21
		PM <sub>2.5</sub>	0.42	0.21
		VOC	0.30	0.15
		CO	8.79	4.40

## Emission Sources - Maximum Allowable Emission Rates

GT-1-BP	Gas Turbine 1 Bypass Stack	SO <sub>2</sub>	0.18	-
		NO <sub>x</sub>	3.10	-
		PM	0.34	-
		PM <sub>10</sub>	0.34	-
		PM <sub>2.5</sub>	0.34	-
		VOC	1.80	-
		CO	3.15	-

## Emission Limits for Solar Turbine During Combined Heat &amp; Power (CHP) Mode Operations

GT-1-AC	Gas Turbine Absorption Chiller Stack	SO <sub>2</sub>	0.18	-
		NO <sub>x</sub>	3.10	-
		PM	0.34	-
		PM <sub>10</sub>	0.34	-
		PM <sub>2.5</sub>	0.34	-
		VOC	1.80	-
		CO	3.15	-

## Emission Limits For Solar Turbine During Simple Cycle

GT-1-BP	Gas Turbine 1 Bypass Stack (simple cycle mode) maximum 2,000 hours/year	SO <sub>2</sub>	0.18	0.18
		NO <sub>x</sub>	3.10	3.10
		PM	0.34	0.34
		PM <sub>10</sub>	0.34	0.34
		PM <sub>2.5</sub>	0.34	0.34
		VOC	1.80	1.80
		CO	3.15	3.15

## Annual Emission Limits for Solar Turbine

GT-1-BP/GT-1-AC	Gas Turbine 1 Bypass Stack and	SO <sub>2</sub>	-	0.79
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## Emission Sources - Maximum Allowable Emission Rates

		NO <sub>x</sub>	-	13.58
		PM	-	1.49
		PM <sub>10</sub>	-	1.49
		PM <sub>2.5</sub>	-	1.49
		VOC	-	7.88
		CO	-	13.80

- (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<sub>x</sub> - total oxides of nitrogen
- SO<sub>2</sub> - sulfur dioxide
- PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub>
- PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate greater than 10 microns is emitted.
- PM<sub>2.5</sub> - total 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 rates for EPNs Boiler 1 and Boiler 3 are based on and the facilities are limited to a maximum operating schedule of 1,000 hours per rolling 12-month period.

Date: August 14, 2012