

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 49293 and PSD-TX-1015

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. 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 *	
			lb/hr	TPY**

MAXIMUM HOURLY EMISSIONS

HRSG-1	Westinghouse/Siemens Model SW501F Gas Turbine with 416.5 MMBtu/hr Duct Burner	NO _x	45.40	--
		CO	109.40	--
		VOC	13.80	--
		SO ₂	7.10	--
		PM ₁₀	26.90	--
		NH ₃	16.80	--
		H ₂ SO ₄	1.30	--
		(NH ₄) ₂ SO ₄	7.70	--
HRSG-2	Westinghouse/Siemens Model SW501F Gas Turbine with 416.5 MMBtu/hr Duct Burner	NO _x	45.40	--
		CO	109.40	--
		VOC	13.80	--
		SO ₂	7.10	--
		PM ₁₀	26.90	--
		NH ₃	16.80	--
		H ₂ SO ₄	1.30	--
		(NH ₄) ₂ SO ₄	7.70	--
HRSG-3	Westinghouse/Siemens Model SW501F Gas Turbine with 416.5 MMBtu/hr Duct Burner	NO _x	45.40	--
		CO	109.40	--
		VOC	13.80	--
		SO ₂	7.10	--
		PM ₁₀	26.90	--
		NH ₃	16.80	--
		H ₂ SO ₄	1.30	--
		(NH ₄) ₂ SO ₄	7.70	--

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MAXIMUM ANNUAL LIMITS ALL 3 UNITS COMBINED

HRSG-1, HRSG-2, and HRSG-3 Combined	Westinghouse/Siemens I Model SW501F Gas Turbines with 416.5 MMBtu/hr Duct Burners	NO _x	--	504.00
		CO	--	1080.00
		VOC	--	112.80
		SO ₂	--	19.80
		PM ₁₀	--	275.40
		NH ₃	--	186.60
		H ₂ SO ₄	--	3.60
		(NH ₄) ₂ SO ₄	--	4.80
LVCTG-1	Gas Turbine 1 Lube Oil Vent	VOC	0.04	0.19
LVCTG-2	Gas Turbine 2 Lube Oil Vent	VOC	0.04	0.19
LVCTG-3	Gas Turbine 3 Lube Oil Vent	VOC	0.04	0.19
LVSTG-1	Steam Turbine 1 Lube Oil Vent	VOC	0.03	0.11
LVSTG-2	Steam Turbine 2 Lube Oil Vent	VOC	0.03	0.11
LVSTG-3	Steam Turbine 3 Lube Oil Vent	VOC	0.03	0.11
CT-001	Cooling Tower No. 1	PM ₁₀	1.01	4.43
CT-002	Cooling Tower No. 2	PM ₁₀	1.01	4.43
CT-003	Cooling Tower No. 3	PM ₁₀	1.01	4.43
EMGEN-1	1,350-hp Emergency Generator No. 1	NO _x	41.90	2.10
		CO	9.02	0.45
		VOC	3.33	0.17
		SO ₂	2.77	0.14
		PM ₁₀	2.97	0.15

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FWPUMP-1	300-hp Fire Water Pump No. 1	NO _x	9.30	0.47
		CO	2.00	0.10
		VOC	0.74	0.04
		SO ₂	0.62	0.03
		PM ₁₀	0.66	0.03
TK-DSL1	Diesel Tank No. 1 (540 gal)	VOC	0.03	<0.01
TK-DSL2	Diesel Tank No. 2 (120 gal)	VOC	0.01	<0.01
TK-ACID	Acid Storage Tank	H ₂ SO ₄	<0.01	<0.01
TK-BASE	Base Storage Tank	Caustic	<0.01	<0.01
FUG-P	Natural Gas Piping Fugitives	VOC	0.35	1.52
FUG-NH ₃	Ammonia Fugitives	NH ₃	<0.01	<0.01

(1) Emission point identification - either specific equipment designation or emission point number from a plot plan.

(2) Specific point source names. For fugitive sources, use an area name or fugitive source name.

- (3) NO_x - total oxides of nitrogen
CO - carbon monoxide
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
SO₂ - sulfur dioxide
PM₁₀ - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.
NH₃ - ammonia
H₂SO₄ - sulfuric acid mist
(NH₄)₂SO₄ - ammonium sulfate

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

____Hrs/day __Days/week __Weeks/year or 8,760 Hrs/year

** Compliance with annual emission limits is based on a rolling 12-month period.

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Dated December 6, 2002