

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 41953 and PSD-TX-951

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	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
Turbine Only (Hourly Limits)				
U1	GE-7FA Turbine	NO _x	62.2	
		CO	31.7	
		VOC	3.1	
		PM ₁₀	14.2	
		SO ₂	28.4	
		H ₂ SO ₄	2.2	
U2	GE-7FA Turbine	NO _x	62.2	
		CO	31.7	
		VOC	3.1	
		PM ₁₀	14.2	
		SO ₂	28.4	
		H ₂ SO ₄	2.2	
U3	GE-7FA Turbine	NO _x	62.2	
		CO	31.7	
		VOC	3.1	
		PM ₁₀	14.2	
		SO ₂	28.4	
		H ₂ SO ₄	2.2	
U4	GE-7FA Turbine	NO _x	62.2	
		CO	31.7	
		VOC	3.1	
		PM ₁₀	14.2	
		SO ₂	28.4	
		H ₂ SO ₄	2.2	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
U5	GE-7FA Turbine	NO _x	62.2	
		CO	31.7	
		VOC	3.1	
		PM ₁₀	14.2	
		SO ₂	28.4	
		H ₂ SO ₄	2.2	
U6	GE-7FA Turbine	NO _x	62.2	
		CO	31.7	
		VOC	3.1	
		PM ₁₀	14.2	
		SO ₂	28.4	
		H ₂ SO ₄	2.2	
Turbine and Duct Burner (Hourly Limits)				
U1	GE-7FA Turbine with 550 MMBtu/hr Duct Burner	NO _x	106.25	
		CO	75.75	
		VOC	11.85	
		PM ₁₀	22.06	
		SO ₂	36.17	
		H ₂ SO ₄	4.56	
U2	GE-7FA Turbine with 550 MMBtu/hr Duct Burner	NO _x	106.25	
		CO	75.75	
		VOC	11.85	
		PM ₁₀	22.06	
		SO ₂	36.17	
		H ₂ SO ₄	4.56	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
U3	GE-7FA Turbine with 550 MMBtu/hr Duct Burner	NO _x	106.25	
		CO	75.75	
		VOC	11.85	
		PM ₁₀	22.06	
		SO ₂	36.17	
		H ₂ SO ₄	4.56	
U4	GE-7FA Turbine with 550 MMBtu/hr Duct Burner	NO _x	106.25	
		CO	75.75	
		VOC	11.85	
		PM ₁₀	22.06	
		SO ₂	36.17	
		H ₂ SO ₄	4.56	
U5	GE-7FA Turbine with 550 MMBtu/hr Duct Burner	NO _x	106.25	
		CO	75.75	
		VOC	11.85	
		PM ₁₀	22.06	
		SO ₂	36.17	
		H ₂ SO ₄	4.56	
U6	GE-7FA Turbine with 550 MMBtu/hr Duct Burner	NO _x	106.25	
		CO	75.75	
		VOC	11.85	
		PM ₁₀	22.06	
		SO ₂	36.17	
		H ₂ SO ₄	4.56	

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Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY **
Combined Turbine and Duct Burner (Annual Limits)				
U1 through U6 Combined Emissions	GE-7FA Turbines with 550 MMBtu/hr Duct Burners	NO _x		1927.1
		CO		1152.1
		VOC		152.7
		PM ₁₀		392.6
		SO ₂		285.5
		H ₂ SO ₄		27.8
FUG	Piping Fugitives (4)	VOC	1.25	5.49
EMGEN	Emergency Diesel Generator (5)	NO _x	30.49	1.83
		CO	6.99	0.42
		VOC	0.90	0.05
		PM ₁₀	0.89	0.05
		SO ₂	5.14	0.31
WTRPMP	Firewater Pump Engine (5)	NO _x	7.75	0.47
		CO	1.67	0.10
		VOC	0.62	0.04
		PM ₁₀	0.55	0.03
		SO ₂	0.51	0.03
CT-1	Cooling Tower (6)	PM ₁₀	27.54 (7)	18.93
CT-2	Cooling Tower (6)	PM ₁₀	27.54 (7)	18.93
LUBE1	Lube Oil Demisters (8)	PM ₁₀	0.04	0.17

(1) Emission point identification - either specific equipment designation or emission point number

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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
 - CO - carbon monoxide
 - 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.
 - H₂SO₄ - sulfuric acid mist
- (4) Fugitive emissions are an estimate based on component count and applicable fugitive emission factors.
- (5) Emissions are based on normal operation of 120 operating hours per year.
- (6) Cooling tower PM₁₀ emissions are an estimate only based on manufacturers test data.
- (7) The maximum 24-hour average hourly PM₁₀ emission rate is 4.32 lb/hr for each cooling tower.
- (8) Turbine oil mist vent emissions are an estimate only based on estimates from mist vent eliminator manufacturer data.

* Emission rates are based on an operating schedule of 8,760 hours/year.

** Compliance with the annual emission limits is based on a rolling 12-month year rather than the calendar year.

Dated March 14, 2003