EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 41953 and PSDTX951

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**
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_2SO_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_2SO_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_2SO_4	2.2	

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY**
U4	GE-7FA Turbine	NO_x	62.2	
		CO	31.7	
		VOC	3.1	
		PM_{10}	14.2	
		SO_2	28.4	
		H_2SO_4	2.2	
U5	GE-7FA Turbine	NO_x	62.2	
		CO	31.7	
		VOC	3.1	
		PM_{10}	14.2	
		SO_2	28.4	
		H_2SO_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_2SO_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_2SO_4	4.56	
U2	GE-7FA Turbine with 550 MMBtu/hr Duct Burner	NO_x	106.25	
		CO	75.75	

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY**
		VOC	11.85	
		PM_{10}	22.06	
		SO_2	36.17	
		H_2SO_4	4.56	
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_2SO_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_2SO_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_2SO_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_2SO_4	4.56	

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * 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_2SO_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	3.16	0.19
		CO	0.17	0.02
		VOC	0.10	0.01
		PM_{10}	0.06	0.01
		SO_2	0.36	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

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(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) NO_x - total oxides of nitrogen
CO - carbon monoxide
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code ' 101.1.
PM_{10} - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.
SO_2 - sulfur dioxide
H_2SO_4 - 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 PM_{10} emissions are an estimate only based on manufacturers test data.
(7) The maximum 24-hour average hourly PM_{10} 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 October 29, 2010