EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Nos. 41166 and PSD-TX-939

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 (4)	TPY
Hourly Allowables - Normal Operation				
E-ST 1	G-Frame with SCR Technology and Natural Gas-Fired 243.3 million Btu/hour HRSG	NO_x	91.9	
		CO	143.4	
		VOC	12.3	
		PM_{10}	30.1	
		SO_2	41.8	
		H_2SO_4	5.1	
		NH_3	37.8	
E-ST 2	G-Frame with SCR Technology and Natural Gas-Fired 243.3 million Btu/hour HRSG	NO_x	91.9	
		CO		143.4
		VOC	12.3	
		PM_{10}	30.1	
		SO_2	41.8	
		H_2SO_4	5.1	
		NH_3	37.8	
Hourly Allowables - Reduced Load Operation One of two 254 MW_e CTs at 35 percent to 74 percent Load				
E-ST 1, and E-ST 2,	G-Frame with SCR Technology without Natural Gas-Fired 243.3 million Btu/hour HRSG	NO_x	386.9	
		CO	3028.9	
		VOC	333.4	
		PM_{10}	24.3	
		SO_2	18.2	
		H_2SO_4	2.2	
		NH_3	20.5	

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr (4)	TPY
Annual Allowables - Normal or Reduced Load Operation (5)				
Two 254 MW_e CTs -				
E-ST 1, and E-ST 2,	G-Frame with SCR Technology and with Natural Gas-Fired 243.3 million Btu/hour HRSG	NO_x		708.7
		CO		1128.6
		VOC		103.0
		PM_{10}		230.9
		SO_2		161.6
		H_2SO_4	19.8	
		NH_3		291.5
E-CTOWERW		PM_{10}	0.0020	0.0086
E-CTOWERE		PM_{10}	0.0020	0.0086
E-GEN	310-KW Emergency Generator	NO_x	17.14	0.700
		CO	1.12	0.05
		VOC	0.2	0.008
		PM_{10}	0.16	0.007
		SO_2	0.0022	0.0001
E-PUMP	250-Horsepower Emergency Firewater Pump	NO_x	2.4	0.096
		CO	1.053	0.042
		VOC	0.28	0.011
		PM_{10}	0.14	0.0055
		SO_2	0.84	0.034
E-TANK7	300-Gallon Diesel Storage Tank	VOC	0.0080	0.0001
E-TANK1	15,000-Gallon Ammonia (30 percent) Storage Tank	NH_4OH	0.0273	0.2937

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr (4)	TPY
E-TANK2	250-Gallon Ammonia (5 percent) Storage Tank	NH_4OH	0.0393	0.0025
E-TANK3	3,000-Gallon Sulfuric Acid (93 percent) Storage Tank	H_2SO_4	0.0001	0.0003
E-TANK4	1,000-Gallon Sodium Hypochlorite (7 - 16 percent) Storage Tank	NaOCl	0.0047	0.375
E-TANK5	Hydrazine (35 percent) Storage Tank	N_2H_4	0.0089	0.0007
E-TANK6	Hydrazine (35 percent) Storage Tank	N_2H_4	0.0089	0.0007
E-PIPFUG	Piping Fugitive Area	VOC	0.11	0.5
		NH_3	0.322	1.41

(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 30 Texas Administrative Code Section 101.1
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
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 particulate matter greater than 10 microns is emitted.
CO - carbon monoxide
NH_3 - ammonia
H_2SO_4 - sulfuric acid
NaOC1 - sodium hypochlorite
N_2H_4 - solution of up to 35 percent hydrazine in water
NH_4OH - ammonium hydroxide

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(4) The concentration limits for the gas turbines listed in the permit conditions apply and may be a more stringent requirement than the mass emission rate limits listed in this table.

(5) These emissions are permitted under PSD.

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

24 Hrs/day 7 Days/week 52 Weeks/year or 8,760 Hrs/year

Dated August 10, 2000