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	Source	Air Contaminant	Emission Rates *						
Point No. (1)	Name (2)	Name (3)	lb/hr (4)	TPY					
Hourly Allowables - Normal Operation									
E-ST 1	G-Frame with SCR Technology and Natural Gas-Fired 243.3 millior Btu/hour HRSG	NO _x	91.9						
		**	143.4						
		VOC	12.3						
		PM_{10}	30.1						
		SO_2	41.8						
	H	₂ SO 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						
		^	143.4						
		VOC	12.3						
	Bla/Hoar FireSo	PM ₁₀	30.1						
		SO_2	41.8						
	Haso	₂ SO ₄ 5.1	12.0						
	• ••	NH ₃	37.8						
			0.10						
	Reduced Load Operation								
One of two 254 MW _e CTs at 35 percent to 74 percent Load									
E-ST 1 and	G-Frame with SCR Technology	NO_x	386.9						
E-ST 2	without Natural Gas-Fired 243.3 million Btu/hour HRSG	CO	3028.9						
		VOC	333.4						
		PM_{10}	24.3						
		SO_2	18.2						
	H:	₂ SO ₄ 2.2	-						
		NH_3	20.5						

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 with Natural Gas-Fired 243.3 r Btu/hour HRSG		VOC PM ₁₀ SO ₂	19.8	708.7 1128.6 103.0 230.9 161.6			
E-CTOWER	Cooling Tower		PM ₁₀	10.55	44.83			
E-GEN		VOC PM ₁₀ SO ₂	NO _x CO 0.2 0.16 0.0022	17.14 1.12 0.008 0.007 0.0001	0.700 0.05			
E-PUMP	250-Horsepower Emergency Firewater Pump		NO_x CO VOC PM_{10} SO_2	2.4 1.053 0.28 0.14 0.84	0.096 0.042 0.011 0.0055 0.034			
E-TANK7	300-Gallon Diesel Storage Tan	k	VOC	0.0080	0.0010			
E-TANK1	15,000-Gallon Ammonia (30 pe Storage Tank	rcent)	NH₄OH	0.2937	0.0273			

AIR CONTAMINANTS DATA

Emission	Source Air Contaminant		Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr (4)	<u>TPY</u>
E-TANK2	250-Gallon Ammonia (5 percent) Storage Tank) NH₄OH	0.0393	0.0025
E-TANK3	3,000-Gallon Sulfuric Acid (93 po 0.0001 Storage Tank	ercent)	H ₂ SO ₄	0.0003
E-TANK4	1,000-Gallon Sodium Hypochlori 0.0047 (7 - 16 percent) Storage Tank	ite	NaOCI	0.375
E-TANK5	Hydrazine (35 percent) Storage	Tank N₂H₄	0.0089	0.0007
E-TANK6	Hydrazine (35 percent) Storage	Tank N₂H₄	0.0089	0.0007
E-PIPFUG	Piping Fugitive Area	VOC NH₃	0.11 0.322	0.5 1.41
E-AUXBLR	Auxiliary Boiler NO_x (E-AUXBLR is limited to a maximum CO of 124,567 MMBtu heat input per year, 0.34		8.5 10.4 VOC	3.7 4.6 0.77
	TPY limit is based on this)	PM/PM ₁₀ SO ₂ 2.02	1.1 0.88	0.48

- (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

SO₂ - 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

NH₃ - ammonia

H₂SO₄ - sulfuric acid

NaOC1 - sodium hypochlorite

 N_2H_4 - solution of up to 35 percent hydrazine in water

NH₄OH - ammonium hydroxide

- (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 September 6, 2001