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. Only one of the three options specified (Options 1.A., 1.B. or 1.C.) is authorized by this permit

Emission	Source	Air Contaminant	Emission Rates *		
Point No. (1)	Name (2)	Name (3)	lb/hr (4) TPY		
Option 1.A. Hourly Allo for each of four 177.9	owables (5) MW _e CTs - Normal Operation				
EA-ST 1, EA-ST 2, EA-ST 3, and EA-ST 4	F-Frame with DLN Technology an without HRSG duct burner	$\begin{array}{c} \text{d} \text{NO}_{\text{x}} \\ \text{CO} \\ \text{VOC} \\ \text{PM}_{10} \\ \text{SO}_{2} \\ \text{SO}_{4} 3.2 \end{array}$	63.1 31.2 2.9 21.3 26.2		
EA-ST 1, EA-ST 2, EA-ST 3, and EA-ST 4	F-Frame with DLN Technology an with natural gas-fired 143.5 million Btu/hour HRSG		76.2 45.7 7.3 22.6 28.2		
-	owables 7.9 MW _e CTs at a time ion at 35 to 49 Percent Load				
EA-ST 1, EA-ST 2, EA-ST 3, and EA-ST 4	F-Frame with DLN Technology an without HRSG duct burner	d NO_x CO VOC PM_{10} SO_2 SO_4 1.7	237.5 175.0 9.9 22.6 13.8		

Emission	Source	Air	Contaminant	<u>Emission</u>	
Point No. (1)	Name (2)		Name (3)	lb/hr (4)	<u>TPY</u>
	l Annual Allowables (5) CTs - Normal Operation and tion				
EA-ST 1, EA-ST 2, EA-ST 3, and EA-ST 4	F-Frame with DLN Technolog with natural gas-fired 143.5 r Btu/hour HRSG	-	VOC PM ₁₀ SO ₂	26.8	1126.4 612.5 89.4 353.3 218.7
Option 1.B. Hourly All for each of four 173.5	owables (5) MW _e CTs - Normal Operation				
EB-ST 1, EB-ST 2, EB-ST 3, and EB-ST 4	F-Frame SCR Technology an natural gas-fired 143.5 millio Btu/hour HRSG		NOx CO VOC PM ₁₀ SO ₂ 43.7 NH ₃	69.7 102.5 7.4 22.2 30.1	
,	owables 3.5 MW _e CTs at a time tion at 35 to 74 Percent Load				
EB-ST 1, EB-ST 2, EB-ST 3, and EB-ST 4	F-Frame with SCR Technolog and without natural gas-fired 143.5 million Btu/hour HRSG			137.6 1683.7 185.3 18.2 12.3	
			NH_3	11.4	

Emission Point No. (1)	Source Name (2)	Air	Contaminant Name (3)	Emission lb/hr (4)	Rates *
	Annual Allowables (5) CTs - Normal Operation and tion				
EB-ST 1, EB-ST 2, EB-ST 3, and EB-ST 4	F-Frame with SCR Technology with natural gas-fired 143.5 m Btu/hour HRSG		VOC PM ₁₀ SO ₂	29.1	1103.5 1633.6 122.9 341.0 237.7
Option 1.C. Hourly Allefor each of two 236.3	owables (5) MW _e CTs - Normal Operation				
EC-ST 1, and EC-ST 2,	G-Frame with SCR Technology and natural gas-fired 275.8 mi Btu/hour HRSG		NO_x CO VOC PM_{10} SO_2 $_45.1$ NH_3	91.9 143.4 12.3 30.1 41.8	
_	owables 6.3 MW _e CTs at a time tion at 35 to 74 percent Load				
EC-ST 1, and EC-ST 2,	G-Frame with SCR Technology without natural gas-fired 275.8 million Btu/hour HRSG	, H₂SO,	NO_x CO VOC PM_{10} SO_2 $_4$ 2.2 NH_3	386.9 3028.9 333.4 24.3 18.2	

Emission	Source	Air Contaminant	ninant <u>Emission Rates</u>					
Point No. (1)	Name (2)	Name (3)	lb/hr (4)	TPY				
	d Annual Allowables (5) is - Normal Operation and tion							
EC-ST 1, and EC-ST 2,	G-Frame with SCR Technology a with natural gas-fired 275.8 milli Btu/hour HRSG		19.8	708.7 1128.6 103.0 230.9 161.6				
For each of two Coo	ling Towers							
E-CTOWERW and E-CTOWERE		PM ₁₀	0.0020	0.0086				
For each of two 755	Horsepower Emergency Genera	tors						
E-DGENW and E-DGENE		NO_x CO VOC PM_{10} SO_2	17.50 2.11 0.33 0.20 2.55	0.700 0.085 0.013 0.008 0.102				
Allowables for each of two 182 Horsepower Emergency Firewater Pumps								
E-DPUMBW and E-DPUMPE		NO_x CO VOC PM_{10} SO_2	1.98 0.53 0.31 0.10 0.65	0.080 0.021 0.012 0.004 0.026				

Emission	Source	Air Contaminant <u>[</u>		Emission Rates *			
Point No. (1)	Name (2)		Name (3)	lb/hr (4)	<u>TPY</u>		
For each of two 1,00	0 gallon Diesel Storage Tanks						
E-TANK6, E and W			VOC	0.0258	0.0005		
For each of two 300 gallon Diesel Storage Tanks							
E-TANK7, E and W			VOC	0.0080	0.0001		
For each of two 15,0	00 gallon Ammonia (30 percen	t) Sto	orage Tanks				
E-TANK1, E and W			NH ₄ OH	0.2937	0.0273		
For each of two 250	gallon Ammonia (5 percent) St	orag	e Tanks				
E-TANK2, E and W			NH ₄ OH	0.0393	0.0025		
For each of two 3,00	0 gallon Sulfuric Acid (93 perc	ent) :	Storage Tanks				
E-TANK3, E and W			H ₂ SO ₄	0.0003	0.0001		
For each of two 1,00	0 gallon Sodium Hypochlorite	(7-16	percent) Storage Ta	anks			
E-TANK4, E and W			NaOCI	0.375	0.0047		
For each of two Hyd	razine (35 percent) Storage Taı	nks					
E-TANK5, E and W			N_2H_4	0.0089	0.0007		
For each of two Hear	ters and Piping Fugitive Areas						
E-EFUGW and E-EFUGE	Λ.	NH₃	NO_x CO VOC PM_{10} SO_2 0.322	0.0001 0.0001 0.0965 0.0001 0.0001 1.41	0.0004 0.0004 0.4221 0.0001 0.0001		

- (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

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.

CO - carbon monoxide

NH₃ - ammonia

H₂SO₄ - sulfuric acid

NaOC1 - sodium hypochlorite

N₂H₄ - 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/dav	7	Da	ys/week	52	Weeks/	year c	or 8	,760	Hrs/	/ear

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