Permit Numbers 76990 and PSD-TX-1059

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.

Emission	Source	Air Contaminant	Emission	Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
SCENARIO 1: GE	NERAL ELECTRIC PG7121 (E	(A) AND 165 MMBTU/HR	DUCT BURNE	≣R
CTDB1-A	CT/HRSG Unit 1-A, 75 MW Gas Turbine 165 MMBtu/hr Duct Burner	NO_x CO SO_2 PM/PM_{10} VOC 3.5 H_2SO_4 0.2 NH_3 11.1 $HCHO$ $Toluene$	21.4 68.6 1.7 12.4 0.3 0.2	
CTDB1-B	CT/HRSG Unit 1-B, 75 MW Gas Turbine 165 MMBtu/hr Duct Burner	NO_x CO SO_2 PM/PM_{10} VOC 3.5 H_2SO_4 0.2 NH_3 11.1 $HCHO$ $Toluene$	21.4 68.6 1.7 12.4 0.3 0.2	
CTDB2-A	CT/HRSG Unit 2-A, 75 MW Gas Turbine 165 MMBtu/hr Duct Burner	$\begin{array}{c} NO_x \\ CO \\ SO_2 \\ PM/PM_{10} \\ VOC 3.5 \\ H_2SO_4 \ 0.2 \\ NH_3 11.1 \\ HCHO \\ \end{array}$	21.4 68.6 1.7 12.4 0.3	

Emission	Source	Air Contaminant	<u>Emission</u>	n Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
CTDB2-B	CT/HRSG Unit 2-B, 75 MW Gas Turbine 165 MMBtu/hr Duct Burner	Toluene NO_{x} CO SO_{2} PM/PM_{10} $VOC 3.5$ $H_{2}SO_{4} 0.2$ $NH_{3} 11.1$ $HCHO$ $Toluene$	0.2 21.4 68.6 1.7 12.4 0.3 0.2	
SCENARIO 2: G	ENERAL ELECTRIC PG7121 (E	EA) OPERATING WITHOU	T DUCT BUF	RNER
CTDB1-A	CT/HRSG Unit 1-A, 75 MW Gas Turbine	NO_x CO SO_2 1.5 PM/PM_{10}	18.5 55.4 10.4	
		VOC 1.9 H ₂ SO ₄ 0.2 NH ₃ 9.6 HCHO	 0.3	
		Toluene	0.2	
CTDB1-B	CT/HRSG Unit 1-B, 75 MW Gas Turbine	NO_x CO SO_2 1.5	18.5 55.4 	
		PM/PM_{10} VOC 1.9 $H_2SO_40.2$ $NH_3 9.6$	10.4 	
		HCHO Toluene	0.3 0.2	
CTDB2-A	CT/HRSG Unit 2-A,	NO _x	18.5	

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	<u>Emissio</u>	n Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
	75 MW Gas Turbine	CO	55.4	
		SO ₂ 1.5		
		PM/PM ₁₀	10.4	
		VOC 1.9		
		$H_2SO_40.2$		
		NH₃ 9.6		
		HCHO	0.3	
		Toluene	0.2	
CTDB2-B	CT/HRSG Unit 2-B,	NO_x	18.5	
	75 MW Gas Turbine	CO	55.4	
	To mit dae raibille	SO ₂ 1.5		
		PM/PM ₁₀	10.4	
		VOC 1.9		
		H ₂ SO ₄ 0.2		
		NH₃ 9.6		
		HCHO	0.3	
		Toluene	0.2	

SCENARIO 3: GENERAL ELECTRIC PG7121 (EA) DURING START-UP, SHUTDOWN, OR MAINTENANCE (4)

CTDB1-A	CT/HRSG Unit 1-A,	NO_x	600	
	75 MW Gas Turbine	CO	1000	
		VOC 60		
		SO_2 1.7		
		PM/PM ₁₀	10.5	
		H ₂ SO ₄ 0.2		
		NH₃ 10.8		
		HCHO	0.3	
		Toluene	0.2	
CTDB1-B	CT/HRSG Unit 1-B,	NO_x	600	

Emission	Source	Air Contaminant <u>Em</u>		sion Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**	
	75 MW Gas Turbine	CO VOC 60	1000		
		SO_2 1.7 PM/PM_{10} $H_2SO_40.2$ NH_3 10.8	10.5 		
		HCHO Toluene	0.3 0.2		
CTDB2-A	CT/HRSG Unit 2-A, 75 MW Gas Turbine	NO _x CO	600 1000		
	75 MW Gas Turbline	VOC SO ₂ 1.7	60 		
		PM/PM_{10} $H_2SO_4 0.2$ NH_3 10.8	10.5 		
		HCHO Toluene	0.3 0.2		
CTDB2-B	CT/HRSG Unit 2-B, 75 MW Gas Turbine	NO _x CO VOC 60	600 1000 		
		SO_2 1.7 PM/PM_{10} H_2SO_4 0.2 NH_3 10.8	10.5 		
		HCHO Toluene	0.3 0.2		

Emission	Source Air Contaminant <u>Em</u>		<u>Emissior</u>	mission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**	
CTDB1-A	CT/HRSG Unit 1-A,	NOx		77.1	
CIDBI-A	75 MW Gas Turbine	CO		245.0	
	165 MMBtu/hr Duct Burner	SO ₂		6.2	
		PM/PM ₁₀ VOC	 11.7	50.5	
		H ₂ SO ₄	0.7		
		NH ₃	39.9	1.0	
		HCHO Toluene		1.2 0.6	
CTDB1-B	CT/HRSG Unit 1-B, 75 MW Gas Turbine	NO _x CO		77.1 245.0	
	165 MMBtu/hr Duct Burner	SO ₂		6.2	
		PM/PM ₁₀	 11 7	50.5	
		VOC H ₂ SO ₄	11.7 0.7		
		NH ₃	39.9		
		HCHO Toluene		1.2 0.6	
		roldene		0.0	
CTDB2-A	CT/HRSG Unit 2-A, 75 MW Gas Turbine	NO _x CO		77.1 245.0	
	165 MMBtu/hr Duct Burner	SO ₂		6.2	
		PM/PM ₁₀		50.5	
		VOC H ₂ SO ₄	11.7 0.7		
		NH ₃	39.9		
		HCHO Toluene		1.2 0.6	
		roluerie		0.0	
CTDB2-B	CT/HRSG Unit 2-B,	NOx		77.1	
010020	75 MW Gas Turbine	CO		245.0	

Emission	Source	Air Contaminant	Emission F	Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
	165 MMBtu/hr Duct Burner	SO_2 PM/PM_{10} VOC H_2SO_4 NH_3	 11.7 0.7 39.9	6.2 50.5
		HCHO Toluene		1.2 0.6
AUX1	Auxiliary Boiler Unit 1 17 MMBtu/hr	NO_x CO SO_2 0.02 PM/PM_{10} VOC 0.3	0.7 1.1 0.07 0.2 0.8	1.9 2.9 0.5
AUX2	Auxiliary Boiler Unit 2 17 MMBtu/hr	NO _x CO SO ₂ 0.02 PM/PM ₁₀	0.7 1.1 0.07 0.2	1.9 2.9 0.5
EG1	Emergency Generator Unit	VOC 0.3 1 NO _x CO 7.3 SO ₂ 0.5 PM 0.6	0.8 27.3 0.5 0.03 0.04	1.7
EG2	Emergency Generator Unit	CO 7.3 SO ₂ 0.5 PM 0.6	0.03 0.05 27.3 0.5 0.03 0.04	1.7
FWP1	Fire Water Pump Unit 1	PM ₁₀ 0.5 VOC 0.8 NO _x CO 2.5	0.03 0.05 11.3 0.2	0.7

		SO ₂ PM/P VOC	M ₁₀	0.01 0.8 0.05	0.05
FWP2	Fire Water Pump Unit 2	CO SO ₂	NO _x 2.5 0.2	11.3 0.2 0.01	0.7
		PM/P VOC		0.8 0.05	0.05
CD1	Cooling Tower Cell 1	PM ₁₀	PM 0.3	0.6 1.2	2.3
CD2	Cooling Tower Cell 2	PM ₁₀	PM 0.3	0.6 1.2	2.3
CD3	Cooling Tower Cell 3	PM ₁₀	PM 0.3	0.6 1.2	2.3
CD4	Cooling Tower Cell 4	PM ₁₀	PM 0.3	0.6 1.2	2.3
CD5	Cooling Tower Cell 5	PM ₁₀	PM 0.3	0.6 1.2	2.3
CD6	Cooling Tower Cell 6	PM ₁₀	PM 0.3	0.6 1.2	2.3
CD7	Cooling Tower Cell 7	PM ₁₀	PM 0.3	0.6 1.2	2.3
CD8	Cooling Tower Cell 8	PM ₁₀	PM 0.3	0.6 1.2	2.3

⁽¹⁾ Emission point identification - either specific equipment designation or emission point number from a plot plan.

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES point source names. For fugitive sources, use an area name or fugitive sources.

(2)	Specific point source names. For fugitive sources, use an 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
	SO ₂ - sulfur dioxide
	PM ₁₀ - particulate matter equal to or less than 10 microns in diameter.
	H ₂ SO ₄ - sulfuric acid
	NH₃ - ammonia
	HCHO - formaldehyde
	The field is initial and the field is a field in the field is a field in the field is a field in the field in
*	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
**	Compliance with annual emission limits is based on a rolling 12-month period.
	Dated Fahruary 15 2000
	Dated February 15, 2006