Permit Numbers 77039 and PSDTX1060

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 Point No. (1)	Source Name (2)	Air Contamina Name (3)	a <u>nt</u>	Emission Ra	i <u>tes *</u> lb/hr	TPY**
SCENARIO 1: GE	NERAL ELECTRI	C PG7121 (EA)) WITH DUCT BUR	NER		
CTDB1-A	CT/HRSG Unit 1 75 MW Gas Turb 110 MM Btu/hr D	oine	NO_x CO SO_2 $PM/PM_{10}/PM_{2.5}$ VOC H_2SO_4 NH_3 $HCHO$ $Toluene$		22.6 70.1 1.87 11.8 3.2 0.21 12.3 0.4 0.2	
CTDB1-B	CT/HRSG Unit 1 75 MW Gas Turk 110 MM Btu/hr D	oine	NO _x CO SO ₂ PM/PM ₁₀ /PM _{2.5} VOC H ₂ SO ₄ NH ₃ HCHO Toluene	- - - - - - - - - - - - - - - - - - -	22.6 70.1 1.87 11.8 3.2 0.21 12.3 0.4 0.2	
CTDB2-A	CT/HRSG Unit 2 75 MW Gas Turk 80 MM Btu/hr Du	oine	NO_x CO SO_2 $PM/PM_{10}/PM_{2.5}$ VOC H_2SO_4 NH_3 $HCHO$		22.0 67.7 1.82 11.4 2.9 0.3 12.3	

Emission	Source	Air Contaminant	Emission Ra	ates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
(1)				
		Toluene	0.2	
CTDB2-B	CT/HRSG Unit 2-B	NO_x	22.0	
	75 MW Gas Turbine	CO	67.7	
	80 MM Btu/hr Duct Burne	er SO ₂	1.82	
		PM/PM ₁₀ /PM _{2.5}	11.4	
		VOC	2.9	
		H_2SO_4	0.3	
		NH₃	12.3	
		HCHO	0.4	
		Toluene	0.2	
SCENARIO	2: GENERAL ELECTRIC PG71	21 (EA) WITHOUT DUCT BUR	NER	
CTDB1-A	CT/HRSG Unit 1-A	NO_x	20.4	
	75 MW Gas Turbine	СО	61.3	
		SO_2	1.7	
		PM/PM ₁₀ /PM _{2.5}	10.5	
		VOC	2.1	
		H_2SO_4	0.2	
		NH_3	10.8	
		HCHO	0.3	
		Toluene	0.2	
CTDB1-B	CT/HRSG Unit 1-B	NO_x	20.4	
	75 MW Gas Turbine	CO	61.3	
		SO_2	1.7	
		PM/PM ₁₀ /PM _{2.5}	10.5	
		VOC	2.1	
		H_2SO_4	0.2	
		NH_3	10.8	
		НСНО	0.3	
		Toluene	0.2	
CTDB2-A	CT/HRSG Unit 2-A 75 MW Gas Turbine	NO_x	20.4	

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Ra lb/hr	tes <u>*</u> TPY**
CTDB2-B	CT/HRSG Unit 2-B 75 MW Gas Turbine	CO SO_2 $PM/PM_{10}/PM_{2.5}$ VOC H_2SO_4 NH_3 HCHO Toluene NO_x CO SO_2 $PM/PM_{10}/PM_{2.5}$ VOC H_2SO_4 NH_3 HCHO Toluene	61.3 1.7 10.5 2.1 0.2 10.8 0.3 0.2 20.4 61.3 1.7 10.5 2.1 0.2 10.8 0.3	
	3: GENERAL ELECTRIC P OR SHUTDOWN (4)			IANCE,
CTDB1-A	CT/HRSG Unit 1-A 75 MW Gas Turbine 110 MM Btu/hr Duct Burr	NO_x CO SO_2 $PM/PM_{10}/PM_{2.5}$ VOC H_2SO_4 NH_3 $HCHO$ $Toluene$	500 1,000 60 1.7 10.5 0.2 10.8 0.3 0.2	
CTDB1-B	CT/HRSG Unit 1-B 75 MW Gas Turbine 110 MM Btu/hr Duct Burr	NO _x CO ner SO ₂	500 1,000 60	

Emission Point No. (1)		Air Contaminant Name (3)	Emission Rates * Ib/hr TPY**	
		$PM/PM_{10}/PM_{2.5}$ VOC H_2SO_4 NH_3 HCHO Toluene	1.7 10.5 0.2 10.8 0.3 0.2	
CTDB2-A	CT/HRSG Unit 2-A 75 MW Gas Turbine 80 MM Btu/hr Duct Burne	NO_x CO SO_2 $PM/PM_{10}/PM_{2.5}$ VOC H_2SO_4 NH_3 $HCHO$ $Toluene$	600 1,000 60 1.7 10.5 0.2 10.8 0.3 0.2	
CTDB2-B	CT/HRSG Unit 2-B 75 MW Gas Turbine 80 MM Btu/hr Duct Burne	NO_x CO SO_2 $PM/PM_{10}/PM_{2.5}$ VOC H_2SO_4 NH_3 $HCHO$ $Toluene$	600 1,000 60 1.7 10.5 0.2 10.8 0.3 0.2	
ANNUAL EMISSIONS GENERAL ELECTRIC PG7121 (EA) WITH DUCT BURNER				
CTDB1-A	CT/HRSG Unit 1-A 75 MW Gas Turbine 110 MM Btu/hr Duct Burn	NO_x CO SO_2 $PM/PM_{10}/PM_{2.5}$ VOC H_2SO_4	81.5 252.5 6.8 49.0 10.9 0.75	

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Ralb/hr	ates * TPY**
		NH₃ HCHO Toluene	 	42.2 1.275 0.55
CTDB1-B	CT/HRSG Unit 1-B 75 MW Gas Turbine 110 MM Btu/hr Duct Burr	NO_x CO SO_2 $PM/PM_{10}/PM_{2.5}$ VOC H_2SO_4 NH_3 $HCHO$ $Toluene$	 	81.5 252.5 6.8 49.0 10.9 0.75 42.2 1.275 0.55
CTDB2-A	CT/HRSG Unit 2-A 75 MW Gas Turbine 80 MM Btu/hr Duct Burne	NO_x CO er SO_2 $PM/PM_{10}/PM_{2.5}$ VOC H_2SO_4 NH_3 $HCHO$ $Toluene$	 	80.0 246.2 6.6 48.0 10.1 0.75 41.4 1.275 0.55
CTDB2-B	CT/HRSG Unit 2-B 75 MW Gas Turbine 80 MM Btu/hr Duct Burne	NO_x CO SO_2 $PM/PM_{10}/PM_{2.5}$ VOC H_2SO_4 NH_3 $HCHO$ $Toluene$	 	80.0 246.2 6.6 48.0 10.1 0.75 41.4 1.275 0.55
AUX1	Auxiliary Boiler Unit 1	NO_x	0.68	1.9

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Ra lb/hr	ates * TPY**
	17 MMBtu/hr	CO SO_2 $PM/PM_{10}/PM_{2.5}$ VOC	1.02 0.02 0.17 0.27	2.9 0.07 0.48 0.76
AUX2	Auxiliary Boiler Unit 2 17 MMBtu/hr	NO_x CO SO_2 $PM/PM_{10}/PM_{2.5}$ VOC	0.68 1.02 0.02 0.17 0.27	1.9 2.9 0.07 0.48 0.76
EG1	Emergency Generator U	$\begin{array}{ccc} \text{Jnit 1} & \text{NO}_{\text{x}} \\ & \text{CO} \\ & \text{SO}_{2} \\ & \text{PM} \\ & \text{PM}_{10}/\text{PM}_{2.5} \\ & \text{VOC} \end{array}$	27.3 7.25 0.43 0.59 0.49 0.77	1.7 0.5 0.03 0.04 0.03 0.05
EG2	Emergency Generator U	Jnit 2 NO_x CO SO_2 PM $PM_{10}/PM_{2.5}$ VOC	27.3 7.25 0.43 0.59 0.49 0.77	1.7 0.5 0.03 0.04 0.03 0.05
FWP1	Fire Water Pump Unit 1	NO_x CO SO_2 $PM/PM_{10}/PM_{2.5}$ VOC	11.22 2.42 0.13 0.79 0.89	0.7 0.2 0.01 0.05 0.05
CD1 through CD 12	Cooling Tower Cells 1 through 12	PM PM ₁₀ /PM _{2.5}	1.5 0.8	6.7 3.3

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

⁽²⁾ Specific point source names. For fugitive sources, use an area name or fugitive source name.

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	<u>Emissio</u>	Emission Rates *	
Point No.	Name (2)	Name (3)	lb/hr	TPY**	
(1)					

(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

PM - particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}

 $\mbox{PM}_{\mbox{\tiny 10}}$ - particulate matter equal to or less than 10 microns in diameter

PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter

CO - carbon monoxide

- (4) Startup, shutdown, or maintenance events shall not exceed the time limits of Special Condition No. 2; emissions shall be averaged over the entire event.
- * 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 February 8, 2010