EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 77039 and PSD-TX-1060

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	TPY**
SCENARIO 1: GENERAL ELECTRIC PG7121 (EA) AND 165 MMBTU/HR DUCT BURNER				
CTDB1-A	CT/HRSG Unit 1-A,	NO_x	23.7	---
	75 MW Gas Turbine	CO	74.5	---
	165 MMBtu/hr Duct Burner	SO_2	2.0	---
		PM/PM_{10}	12.4	---
		VOC	3.7	---
		H_2SO_4	0.3	---
		NH_3	12.3	---
		HCHO	0.4	---
		Toluene	0.2	---
CTDB1-B	CT/HRSG Unit 1-B,	NO_x	23.7	---
	75 MW Gas Turbine	CO	74.5	---
	165 MMBtu/hr Duct Burner	SO_2	2.0	---
		PM/PM_{10}	12.4	---
		VOC	3.7	---
		H_2SO_4	0.3	---
		NH_3	12.3	---
		HCHO	0.4	---
		Toluene	0.2	---
CTDB2-A	CT/HRSG Unit 2-A,	NO_x	23.7	---
	75 MW Gas Turbine	CO	74.5	---
	165 MMBtu/hr Duct Burner	SO_2	2.0	---
		PM/PM_{10}	12.4	---
		VOC	3.7	---
		H_2SO_4	0.3	---
		NH_3	12.3	---
		HCHO	0.4	---
		Toluene	0.2	---

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY**
CTDB2-B	CT/HRSG Unit 2-B, 75 MW Gas Turbine 165 MMBtu/hr Duct Burner	NO_x	23.7	---
		CO	74.5	---
		SO_2	2.0	---
		PM/PM_{10}	12.4	---
		VOC	3.7	---
		H_2SO_4	0.3	---
		NH_3	12.3	---
		HCHO	0.4	---
		Toluene	0.2	---
SCENARIO 2: GENERAL ELECTRIC PG7121 (EA) OPERATING WITHOUT DUCT BURNER				
CTDB1-A	CT/HRSG Unit 1-A, 75 MW Gas Turbine	NO_x	20.4	---
		CO	61.3	---
		SO_2	1.7	---
		PM/PM_{10}	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, 75 MW Gas Turbine	NO_x	20.4	---
		CO	61.3	---
		SO_2	1.7	---
		PM/PM_{10}	10.5	---
		VOC	2.1	---
		H_2SO_4	0.2	---
		NH_3	10.8	---
		HCHO	0.3	---
		Toluene	0.2	---

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY**
CTDB2-A	CT/HRSG Unit 2-A, 75 MW Gas Turbine	NO_x	20.4	---
		CO	61.3	---
		SO_2	1.7	---
		PM/PM_{10}	10.5	---
		VOC	2.1	---
		H_2SO_4	0.2	---
		NH_3	10.8	---
		HCHO	0.3	---
		Toluene	0.2	---
CTDB2-B	CT/HRSG Unit 2-B, 75 MW Gas Turbine	NO_x	20.4	---
		CO	61.3	---
		SO_2	1.7	---
		PM/PM_{10}	10.5	---
		VOC	2.1	---
		H_2SO_4	0.2	---
		NH_3	10.8	---
		HCHO	0.3	---
		Toluene	0.2	---
ANNUAL EMISSIONS GENERAL ELECTRIC PG7121 (EA) AND 165 MMBTU/HR DUCT BURNER				
CTDB1-A	CT/HRSG Unit 1-A, 75 MW Gas Turbine 165 MMBtu/hr Duct Burner	NO_x	---	84.3
		CO	---	264.0
		SO_2	---	7.0
		PM/PM_{10}	---	50.7
		VOC	---	12.3
		H_2SO_4	---	0.8
		NH_3	---	42.2
		HCHO	---	1.3
		Toluene	---	0.6

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY**
CTDB1-B	CT/HRSG Unit 1-B, 75 MW Gas Turbine 165 MMBtu/hr Duct Burner	NO_x	---	84.3
		CO	---	264.0
		SO_2	---	7.0
		PM/PM_{10}	---	50.7
		VOC	---	12.3
		H_2SO_4	---	0.8
		NH_3	---	42.2
		HCHO	---	1.3
		Toluene	---	0.6
CTDB2-A	CT/HRSG Unit 2-A, 75 MW Gas Turbine 165 MMBtu/hr Duct Burner	NO_x	---	84.3
		CO	---	264.0
		SO_2	---	7.0
		PM/PM_{10}	---	50.7
		VOC	---	12.3
		H_2SO_4	---	0.8
		NH_3	---	42.2
		HCHO	---	1.3
		Toluene	---	0.6
CTDB2-B	CT/HRSG Unit 2-B, 75 MW Gas Turbine 165 MMBtu/hr Duct Burner	NO_x	---	84.3
		CO	---	264.0
		SO_2	---	7.0
		PM/PM_{10}	---	50.7
		VOC	---	12.3
		H_2SO_4	---	0.8
		NH_3	---	42.2
		HCHO	---	1.3
		Toluene	---	0.6
AUX1	Auxiliary Boiler Unit 1 17 MMBtu/hr	NO_x	0.7	1.9
		CO	1.1	2.9
		SO_2	0.02	0.07

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY**
		PM/PM_{10}	0.2	0.5
		VOC	0.3	0.8
AUX2	Auxiliary Boiler Unit 2 17 MMBtu/hr	NO_x	0.7	1.9
		CO	1.1	2.9
		SO_2	0.02	0.07
		PM/PM_{10}	0.2	0.5
		VOC	0.3	0.8
EG1	Emergency Generator Unit 1	NO_x	27.3	1.7
		CO	7.3	0.5
		SO_2	0.5	0.03
		PM	0.6	0.04
		PM_{10}	0.5	0.03
		VOC	0.8	0.05
EG2	Emergency Generator Unit 2	NO_x	27.3	1.7
		CO	7.3	0.5
		SO_2	0.5	0.03
		PM	0.6	0.04
		PM_{10}	0.5	0.03
		VOC	0.8	0.05
FWP1	Fire Water Pump Unit 1	NO_x	11.3	0.7
		CO	2.5	0.2
		SO_2	0.2	0.01
		PM/PM_{10}	0.8	0.05
		VOC	0.9	0.05
FWP2	Fire Water Pump Unit 2	NO_x	11.3	0.7
		CO	2.5	0.2
		SO_2	0.2	0.01
		PM/PM_{10}	0.8	0.05
		VOC	0.9	0.05

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	Emission Rates * TPY**
CD1	Cooling Tower Cell 1	PM	0.6	2.3
		PM_{10}	0.3	1.2
CD2	Cooling Tower Cell 2	PM	0.6	2.3
		PM_{10}	0.3	1.2
CD3	Cooling Tower Cell 3	PM	0.6	2.3
		PM_{10}	0.3	1.2
CD4	Cooling Tower Cell 4	PM	0.6	2.3
		PM_{10}	0.3	1.2
CD5	Cooling Tower Cell 5	PM	0.6	2.3
		PM_{10}	0.3	1.2
CD6	Cooling Tower Cell 6	PM	0.6	2.3
		PM_{10}	0.3	1.2
CD7	Cooling Tower Cell 7	PM	0.6	2.3
		PM_{10}	0.3	1.2
CD8	Cooling Tower Cell 8	PM	0.6	2.3
		PM_{10}	0.3	1.2

(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.
(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 - particulate matter, suspended in the atmosphere, including PM_{10}.
PM_{10} - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

H_2SO_4 - sulfuric acid
NH_3 - ammonia
HCHO - formaldehyde

* 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.