

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Nos. 41774 and PSD-TX-945

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

#### **Turbine Only (Hourly Limits)**

CTG-1 (GE 7241 FA Turbine)	Turbine No. 1	NO <sub>x</sub> (4)	92.0
	CO (4)	54.9	
	PM <sub>10</sub> (4)	19.3	
	VOC (4)	3.4	
	SO <sub>2</sub>	30.0	
CTG-2 (GE 7241 FA Turbine)	Turbine No. 2	NO <sub>x</sub> (4)	92.0
	CO (4)	54.9	
	PM <sub>10</sub> (4)	19.3	
	VOC (4)	3.4	
	SO <sub>2</sub>	30.0	
CTG-3 (GE 7241 FA Turbine)	Turbine No. 3	NO <sub>x</sub> (4)	92.0
	CO (4)	54.9	
	PM <sub>10</sub> (4)	19.3	
	VOC (4)	3.4	
	SO <sub>2</sub>	30.0	

#### **Turbine and Duct Burner (Hourly Limit)**

CTG-1 (GE 7241 FA Turbine with 160 MMBtu/hr Duct Burner)	Turbine/HRSG No. 1	NO <sub>x</sub> (4)	115.2
		CO (4)	83.9
		PM <sub>10</sub> (4)	23.6
	VOC (4)	6.8	
	SO <sub>2</sub>	34.0	
	H <sub>2</sub> SO <sub>4</sub>	5.2	

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## AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
CTG-2 (GE 7241 FA Turbine with 160 MMBtu/hr Duct Burner)	Turbine/HRSG No. 2	NO <sub>x</sub> (4)	115.2	
		CO (4)	83.9	
		PM <sub>10</sub> (4)	23.6	
		VOC (4)	6.8	
		SO <sub>2</sub>	34.0	
		H <sub>2</sub> SO <sub>4</sub>	5.2	
CTG-3 (GE 7241 FA Turbine with 160 MMBtu/hr Duct Burner)	Turbine/HRSG No. 3	NO <sub>x</sub> (4)	115.2	
		CO (4)	83.9	
		PM <sub>10</sub> (4)	23.6	
		VOC (4)	6.8	
		SO <sub>2</sub>	34.0	
		H <sub>2</sub> SO <sub>4</sub>	5.2	
Turbine and Duct Burner (Combined Annual Limits for Three Turbines with Duct Burners)				
CTG-1 through 3 through 3 (GE 7241 FA CO Turbines with 160 MMBtu/hr Duct Burners)	Turbine/HRSG Nos. 1	NO <sub>x</sub> (4)		926.7
		CO (4)	528.6	
		PM <sub>10</sub> (4)		264.3
		VOC (4)	48.6	
		SO <sub>2</sub>	36.3	
	H <sub>2</sub> SO <sub>4</sub>		5.7	
FUG	Fugitives	VOC (4)	0.12	0.52
CLT-1	Cooling Tower 1	PM <sub>10</sub> (4)	1.07	4.8
CLT-2	Cooling Tower 2	PM <sub>10</sub> (4)	1.07	4.8
CLT-3	Cooling Tower 3	PM <sub>10</sub> (4)	1.07	4.8
LOV-1	Lube Oil Vent Demister 1	PM <sub>10</sub> (4)	0.07	0.29
LOV-2	Lube Oil Vent Demister 2	PM <sub>10</sub> (4)	0.07	0.29
LOV-3	Lube Oil Vent Demister 3	PM <sub>10</sub> (4)	0.07	0.29

(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) NO<sub>x</sub> - total oxides of nitrogen

CO - carbon monoxide

PM<sub>10</sub> - 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.

VOC - volatile organic compounds as defined in 30 Texas Administrative Code Section 101.1

SO<sub>2</sub> - sulfur dioxide

H<sub>2</sub>SO<sub>4</sub> - sulfuric acid. SO<sub>2</sub> and sulfur trioxide (SO<sub>3</sub>) conversion across the duct burner was assumed to be 10 percent (by weight), and all of the SO<sub>3</sub> was assumed to be converted to particulate in the form of H<sub>2</sub>SO<sub>4</sub> mist.

(4) These emissions were permitted under PSD and State.

\* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

8,760 Hrs/year

Dated\_\_\_\_\_