

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 46603

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**

#### NORMAL OPERATIONS MAXIMUM HOURLY EMISSION RATES

GEN1	Gas Turbine Unit 1 Dresser-Rand T6-EA 418 134.6 MW	CO	37.0
		NO <sub>x</sub>	21.4
		PM <sub>10</sub>	3.8
		SO <sub>2</sub>	0.3
		VOC	2.1
		NH <sub>3</sub>	6.2
GEN2	Gas Turbine Unit 2 Dresser-Rand T6-EA 418 134.6 MW	CO	37.0
		NO <sub>x</sub>	21.4
		PM <sub>10</sub>	3.8
		SO <sub>2</sub>	0.3
		VOC	2.1
		NH <sub>3</sub>	6.2
GEN3	Gas Turbine Unit 3 Dresser-Rand T6-EA 418 134.6 MW	CO	37.0
		NO <sub>x</sub>	21.4
		PM <sub>10</sub>	3.8
		SO <sub>2</sub>	0.3
		VOC	2.1
		NH <sub>3</sub>	6.2
GEN4	Gas Turbine Unit 4 Dresser-Rand T6-EA 418 134.6 MW	CO	37.0
		NO <sub>x</sub>	21.4
		PM <sub>10</sub>	3.8
		SO <sub>2</sub>	0.3
		VOC	2.1
		NH <sub>3</sub>	6.2

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## AIR CONTAMINANTS DATA

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

## START-UP/SHUTDOWN MAXIMUM HOURLY EMISSION RATES

GEN1	Gas Turbine Unit 1 Dresser-Rand T6-EA 418 134.6 MW	CO	48.0
		NO <sub>x</sub>	24.0
		PM <sub>10</sub>	0.1
		SO <sub>2</sub>	0.1
		VOC	3.6
GEN2	Gas Turbine Unit 2 Dresser-Rand T6-EA 418 134.6 MW	CO	48.0
		NO <sub>x</sub>	24.0
		PM <sub>10</sub>	0.1
		SO <sub>2</sub>	0.1
		VOC	3.6
GEN3	Gas Turbine Unit 3 Dresser-Rand T6-EA 418 134.6 MW	CO	48.0
		NO <sub>x</sub>	24.0
		PM <sub>10</sub>	0.1
		SO <sub>2</sub>	0.1
		VOC	3.6
GEN4	Gas Turbine Unit 4 Dresser-Rand T6-EA 418 134.6 MW	CO	48.0
		NO <sub>x</sub>	24.0
		PM <sub>10</sub>	0.1
		SO <sub>2</sub>	0.1
		VOC	3.6

## STANDBY COMBUSTORS MAXIMUM HOURLY EMISSION RATES

GEN1	Gas Turbine Unit 1 (3 Standby Combustors)	CO	0.39
		NO <sub>x</sub>	0.12
		PM <sub>10</sub>	0.10
		SO <sub>2</sub>	0.10
		VOC	0.03
GEN2	Gas Turbine Unit 2	CO	0.39

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

	(3 Standby Combustors)	NO <sub>x</sub>	0.12
		PM <sub>10</sub>	0.10
		SO <sub>2</sub>	0.10
		VOC	0.03
GEN3	Gas Turbine Unit 3 (3 Standby Combustors)	CO	0.39
		NO <sub>x</sub>	0.12
		PM <sub>10</sub>	0.10
		SO <sub>2</sub>	0.10
		VOC	0.03
GEN4	Gas Turbine Unit 4 (3 Standby Combustors)	CO	0.39
		NO <sub>x</sub>	0.12
		PM <sub>10</sub>	0.10
		SO <sub>2</sub>	0.10
		VOC	0.03

## MAXIMUM ANNUAL EMISSION RATES ALL FOUR UNITS COMBINED

GEN1 - GEN4 Combined	Gas Turbine Units 1 - 4 Dresser-Rand T6-EA 418 134.6 MW	CO		242.72
		NO <sub>x</sub>		156.68
		PM <sub>10</sub>		26.88
		SO <sub>2</sub>		2.12
		VOC		14.16
		NH <sub>3</sub>		43.40
CT	Non Contact Cooling Tower	PM <sub>10</sub>	0.20	0.90

(1) Emission point identification - either specific equipment designation or emission point number

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

from a plot plan.

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

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

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

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

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.

CO - carbon monoxide

NH<sub>3</sub> - ammonia

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

\_\_\_\_\_Hrs/day \_\_\_\_\_Days/week \_\_\_\_\_Weeks/year or 8,760 Hrs/year

\*\* Compliance with annual emission limits is based on a rolling 12-month period. Annual limits are calculated based upon 3,500 hours of normal operations and 5,260 hours of standby operations.

Dated May 15, 2002