

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Nos. 40040 and PSD-TX-923

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

### HOURLY EMISSION LIMITS

#### Case I: Natural Gas Firing - Base Load

STACK1,	Gas Turbine ABB GT 24	NO <sub>x</sub>	34.0
STACK2,		CO	21.0 (254.0)
STACK3, or		VOC	2.6
STACK4		SO <sub>2</sub>	4.2
		PM <sub>10</sub>	20.0
		NH <sub>3</sub>	25.2

#### Case II: Natural Gas Firing - Evaporative Cooling and Steam Injection Mode

STACK1,	Gas Turbine ABB GT 24	NO <sub>x</sub>	34.0
STACK2,		CO	105.0
STACK3, or		VOC	20.1
STACK4		SO <sub>2</sub>	5.2
		PM <sub>10</sub>	24.3
		NH <sub>3</sub>	24.7

#### Case III: Fuel Oil Firing

STACK1,	Gas Turbine ABB GT 24	NO <sub>x</sub>	77.0
STACK2,		CO	52.0 (310.0)
STACK3, or		VOC	16.0
STACK4		SO <sub>2</sub>	111.0
		PM <sub>10</sub>	112.0

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## AIR CONTAMINANTS DATA

Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
		NH <sub>3</sub>	31.1	

## ANNUAL EMISSION LIMITS

STACK1,	Gas Turbine ABB GT 24	NO <sub>x</sub>	152.8
STACK2,		CO	204.7
STACK3, or		VOC	33.1
STACK4		SO <sub>2</sub>	53.3
		PM <sub>10</sub>	119.6
		NH <sub>3</sub>	104.7

- (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) VOC - volatile organic compounds as defined in 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 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. The allowables listed apply to each of the four gas turbine stacks. The CO hourly limits listed in parentheses apply during operation of the turbines at 50 percent of base load.

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AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emission Rates</u>					
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>				
<u>24</u>	Hrs/day	<u>7</u>	Days/week	<u>52</u>	Weeks/year	or	<u>8,760</u>	Hrs/year