

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Nos. 38191 and PSD-TX-906

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 (4)
	TPY		

### Hourly Allowables for each Stack

#### Natural Gas-Fueled Normal Operation and Operation at Reduced Load

STACK 1,	Combined Cycle Gas Turbine	NO <sub>x</sub>	34
STACK 2,	ABB Model GT24, with	CO	254
STACK 3,	HRSG 270 MW <sub>e</sub> , each	VOC	20.2
and STACK 4		PM <sub>10</sub>	24
		SO <sub>2</sub>	5
		NH <sub>3</sub>	26.8

#### Emergency/Standby No. 2 Fuel Oil Operation

(With no more than three units operating at the same time)

STACK 1,	Combined Cycle Gas Turbine	NO <sub>x</sub>	75
STACK 2,	ABB Model GT24, with	CO	310
STACK 3,	HRSG 270 MW <sub>e</sub> , each	VOC	16
and STACK 4		PM <sub>10</sub>	111
		SO <sub>2</sub>	109
		NH <sub>3</sub>	31.8

### Annual Allowables (Natural Gas and No. 2 Fuel Oil Use) for each Stack

STACK 1,	Combined Cycle Gas Turbine	NO <sub>x</sub>	164
STACK 2,	ABB Model GT24, with	CO	274
STACK 3,	HRSG 270 MW <sub>e</sub> , each	VOC	34.1
and STACK 4		PM <sub>10</sub>	124

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr (4)	TPY
		SO <sub>2</sub>		56
		NH <sub>3</sub>		119.2
Fugitives A	Ammonia Handling	NH <sub>3</sub>	0.281	1.2
Tank 1	Fuel Oil Storage	VOC	0.07	0.3
Tank 2	Fuel Oil Storage	VOC	0.07	0.3

(1) Emission point identification - either specific equipment designation or emission point number from plot plan. Allowables listed are for each of the four turbines (stacks): STACK 1, STACK 2, STACK 3, and STACK 4.

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

(3) VOC - volatile organic compounds as defined in General Rule 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

(4) The concentration limits for the gas turbines listed in the permit conditions apply and may be a more stringent requirement than the mass emission rate limits listed in this table.

\* Annual 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

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Emission *	Source	Air Contaminant	Emission Rates
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr (4)TPY</u>

Dated\_\_\_\_\_