# Permit No. 19637/PSD-TX-767M2

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	<u>Emission</u>	Rates
<u>*</u> <u>Point No</u> (3)	. (EPN) (1) lb/hr (4)	Name (2) TPY (5)		Name
Case I:	Turbine and Duct Burner Firing	Simultaneously		
CG-1	18 MW (ISO) Westinghouse Model 191 Gas Turbine with 183 MMBtu/hr Fired Duct Burner	$NO_{x}$ $CO$ $VOC$ $PM$ $SO_{2}$	41.4 38.0 3.7 7.5 4.6	181 166 16 24 20
CG-2	18 MW (ISO) Westinghouse Model 191 Gas Turbine with 183 MMBtu/hr Fired Duct Burner	$NO_{x}$ $CO$ $VOC$ $PM$ $SO_{2}$	41.4 38.0 3.7 7.5 4.6	181 166 16 24 20
CG-3	Fugitive VOC (6)	VOC	0.4	2

<sup>\*</sup> Emission rates are based on and the facilities are limited by a maximum operating schedule of 8,760 hours per year.

## Case II: Duct Burner Firing Only

CG-1	375 MMBtu/hr (HHV)	$NO_x$	56.2	38
	Duct Burner	CO	37.5	26
		VOC	6.0	4
		PM	12.5	6
		$SO_2$	8.8	6

# AIR CONTAMINANTS DATA

<u>*</u>	Source	Air Contaminant	<u>Emission</u>	Rates
EPN (1)	Name (2)	Name (3)	lb/hr (4)	TPY
<u>(5)</u>				
CG-2	375 MMBtu/hr (HHV) Duct Burner	NO <sub>x</sub> CO	56.2 37.5	38 26
		VOC	6.0	4
		PM	12.5	6
		SO <sub>2</sub>	8.8	6
	sions from the combined G-2) in stand alone mode a		uct Burners	(EPNs
	Two 375 MMBtu/hr (HHV Duct Burners	$\begin{array}{c} \text{NO}_{x} \\ \text{CO} \\ \text{VOC} \\ \text{PM} \\ \text{SO}_{2} \end{array}$		38 26 4 6
CG-3	Fugitive VOC (6)	VOC	0.4	<1
a	n rates are based on, and alone mode and a maximum vear for both units combin	operating schedule o		
Case III:	Turbine Only Firing			
CG-1	18 MW (ISO) Westinghouse Model 191 Gas Turbine	NO <sub>x</sub> CO VOC	23.1 23.4 0.8	101 102 4

PM

 $SO_2$ 

1.5

0.2

7

<1

#### AIR CONTAMINANTS DATA

-volatile organic compounds as

	Source	Air Contaminant	<u>Emission</u>	Rates
<u>*</u> EPN (1) (5)	Name (2)	Name (3)	lb/hr (4	) TPY
CG-2	18 MW (ISO) Westinghouse Model 191 Gas Turbine	$NO_{\times}$ $CO$ $VOC$ $PM$ $SO_{2}$	23.1 23.4 0.8 1.5 0.2	101 102 4 7 <1
CG-3	Fugitive VOC (6)	VOC	0.4	2

<sup>\*</sup> Emission rates are based on, and limited by, the turbines in stand alone mode and a maximum operating schedule of 8,760 hours per year.

Compliance with the annual emission limits and operating schedules is based on a rolling 365 day year rather than the calendar year.

(1) Emission point identification - emission point number from plot plan.

(2) Specific point source name.

ISO - Rated electric output at
International Standards Organization
standard day conditions of 59°F,
1 atmosphere, and 60 percent
relative humidity.
HHV - high heating value

(3) VOC defined in General Rule 101.1

 $NO_x$  - total oxides of nitrogen

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

PM - particulate matter

CO - carbon monoxide

(4) Turbine maximum hourly emissions based on minimum ambient temperature.

(5) Turbine annual emissions based on base load at average annual

## AIR CONTAMINANTS DATA

*	Source	Air Contaminant	<u>Emission Rates</u>
<u>~</u> EPN (1)	Name (2)	Name (3)	lb/hr (4) TPY
(5)			

ambient temperature of 68°F.

(6) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

Dated	
Ducca	