### EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

## Permit No. 32881/PSD-TX-875

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 F</u>	<u>Rates *</u>
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		SIMPLE CYCLE MODE		
BYPASS-1	Combustion Turbine	$NO_x$	99.0 (308.5)	509.0
	174.2 MW	CO	53.2 (95.9)	248.4
	General Electric F 142.0	Frame 7FA	SO <sub>2</sub> 26.7	(96.3)
		VOC	12.7 (12.9)	55.7
		$PM_{10}$	9.0 (17.5)	
		(front-half only)		
		$PM_{10}$	18.0 (34.0)	84.6
		(front and I	back-half)	
BYPASS-2	Combustion Turbine	$NO_x$	99.0 (308.5)	509.0
	174.2 MW	CO	53.2 (95.9)	
	General Electric F 142.0	Frame 7FA	SO <sub>2</sub> 26.7	(96.3)
	142.0	VOC	12.7 (12.9)	55.7
		$PM_{10}$	9.0 (17.5)	42.5
		(front-half	only)	
		PM <sub>10</sub>	18.0 (34.0)	84.6
		(front and I	back-half)	
	C	COMBINED CYCLE MODE		
HRSG-1	Combustion Turbine	$NO_x$	132.5 (342.0)	655.8
	174.2 MW	CO	96.2 (136.1)	435.7
	General Electric F 164.3	Frame 7FA	SO <sub>2</sub> 31.8	(101.4)

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Emission	Source	Air Contaminant	<b>Emission R</b>	ates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
	and Heat Recovery Stea Generator 325.0 MM		22.1 (38.1)	60.4
HRSG-2	Combustion Turbine 174.2 MW General Electric F 164.3 and Heat Recovery Stea Generator 325.0 MM	VOC .m PM <sub>10</sub>	32.8 (33.0) 13.1 (21.6)	435.7 (101.4) 143.7
		PM <sub>10</sub> (front and OTHER EQUIPMENT	22.1 (38.1)	102.6
TANK-1	Distillate Fuel Oil 0.25 650,000 gallon cap	Storage Tank	VOC 3.27	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)  $NO_x$  total oxides of nitrogen
  - CO carbon monoxide
  - SO<sub>2</sub> sulfur dioxide
  - VOC volatile organic compounds as defined in General Rule 101.1
  - $PM_{10}$  particulate matter less than 10 microns. It shall be assumed that no particulate matter greater than 10 microns in diameter is emitted.
- (4) The allowable emission rates for the heat recovery steam generator duct burners (i.e. the HRSG duct burner contribution to total

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heat input capa	allowables) shall be computed by multiplying the maximum acity for each unit (325 MMBtu/hr) times the emission in Special Condition No. 7.
	are based on and the facilities are limited by the um operating schedule:
<u>24</u> Hrs/day Hrs/year	7 Days/week <u>52</u> Weeks/year or <u>8,760</u>
modes: natur	rate limits are listed for distinct turbine fuel-usage al gas firing and distillate fuel oil firing (in Distillate fuel oil firing is limited to 720 hours per h period.
turbines firing	n rate limits listed on the table are based on the natural gas for 8,040 hours per year and fuel oil for f the year (720 hours).
	Dated