### EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

## Permit Number 41941 and PSDTX948

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, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

### AIR CONTAMINANTS DATA

urbine 1A	NO <sub>x</sub> CO VOC PM/PM <sub>10</sub> /PM <sub>2.5</sub> SO <sub>2</sub>	64.0 32.0 3.0 13.2	
	CO VOC PM/PM <sub>10</sub> /PM <sub>2.5</sub>	32.0 3.0 13.2	-
	CO VOC PM/PM <sub>10</sub> /PM <sub>2.5</sub>	32.0 3.0 13.2	-
	VOC PM/PM <sub>10</sub> /PM <sub>2.5</sub>	3.0 13.2	
	PM/PM <sub>10</sub> /PM <sub>2.5</sub>	13.2	-
			1
	SO <sub>2</sub>		-
		27.17	-
	H <sub>2</sub> SO <sub>4</sub>	3.33	-
urbine 1B	NO <sub>x</sub>	64.0	-
	СО	32.0	-
	VOC	3.0	-
	PM/PM <sub>10</sub> /PM <sub>2.5</sub>	13.2	-
	SO <sub>2</sub>	27.17	-
	H <sub>2</sub> SO <sub>4</sub>	3.33	-
up, and Shu	itdown)		
urbine 1A	NO <sub>x</sub>	275.0	-
	СО	2890.0	-
	VOC	183.0	-
	PM/PM <sub>10</sub> /PM <sub>2.5</sub>	18.0	-
	SO <sub>2</sub>	15.4	-
	H <sub>2</sub> SO <sub>4</sub>	1.89	-
urbine 1B	NO <sub>x</sub>	275.0	-
	СО	2890.0	-
	VOC	183.0	-
	PM/PM <sub>10</sub> /PM <sub>2.5</sub>	18.0	-
	SO <sub>2</sub>	15.4	-
	H <sub>2</sub> SO <sub>4</sub>	1.89	-
	urbine 16	CO VOC PM/PM <sub>10</sub> /PM <sub>2.5</sub> SO <sub>2</sub>	CO     2890.0       VOC     183.0       PM/PM <sub>10</sub> /PM <sub>2.5</sub> 18.0       SO <sub>2</sub> 15.4

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W	GE-7FA Turbine 1A with 300 MM Btu/hr Duct Burner	NO <sub>x</sub>	88.0	-
		СО	62.0	_
		VOC	4.7	-
		PM/PM <sub>10</sub> /PM <sub>2.5</sub>	16.2	-
		SO <sub>2</sub>	31.5	_
		H <sub>2</sub> SO <sub>4</sub>	3.85	_
	GE-7FA Turbine 1B	NO <sub>x</sub>	88.0	-
	with 300 MM Btu/hr Duct Burner	СО	62.0	-
	Buot Burror	VOC	4.7	-
		PM/PM <sub>10</sub> /PM <sub>2.5</sub>	16.2	-
		SO <sub>2</sub>	31.5	-
		H <sub>2</sub> SO <sub>4</sub>	3.85	-
Turbine and Duct Burr	ner (Annual Limits)	l	<u> </u>	
	GE-7FA Turbine 1A with 300 MM Btu/hr	NO <sub>x</sub>	-	604.08
	Duct Burner and GE- 7FA Turbine 1B with 300 MM Btu/hr Duct Burner	CO	-	416.5
300 MM B		VOC	-	39.26
		PM/PM <sub>10</sub> /PM <sub>2.5</sub>	-	129.69
		SO <sub>2</sub>	-	36.42
		H <sub>2</sub> SO <sub>4</sub>	-	4.46
CTG1A-OV	Turbine 1A Oil Mist	VOC	0.03	0.13
	Vent (5)	PM/PM <sub>10</sub> /PM <sub>2.5</sub>	0.03	0.13
CTG1B-OV	Turbine 1B Oil Mist Vent (5)	VOC	0.03	0.13
		PM/PM <sub>10</sub> /PM <sub>2.5</sub>	0.03	0.13
TOSHIBA	Steam Turbine Oil Mist Vent	VOC	0.03	0.13
		PM/PM <sub>10</sub> /PM <sub>2.5</sub>	0.03	0.13
	Firewater Pump Engine (6)	NO <sub>x</sub>	1.74	0.1
		СО	0.16	0.01
		VOC	0.1	0.01
		PM/PM <sub>10</sub> /PM <sub>2.5</sub>	0.05	<0.01
		SO <sub>2</sub>	0.12	0.01
		H <sub>2</sub> SO <sub>4</sub>	0.02	<0.01
TANK-1	Diesel Storage Tank	VOC	0.02	<0.01

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FUG-1 Natural Gas, Condensate, and Oi Fugitives (7)		VOC	0.76	3.33
		H <sub>2</sub> S	<0.01	<0.01
CTOWER-1 Cooling T	Cooling Tower 1	PM/PM <sub>10</sub> /PM <sub>2.5</sub>	2.45	10.72
		HOCI	0.06	0.28
		HCI	0.04	0.19
		H <sub>2</sub> SO <sub>4</sub>	<0.01	<0.01
		VOC	0.02	0.07
LOADING Natural Gas Condensate Truck Loading	VOC	10.86	<0.01	
		H <sub>2</sub> S	0.1	<0.01
SCAVTK1 Hydrogen Scavenging Tank Vent for Unit 1A	VOC	0.03	0.13	
		PM/PM <sub>10</sub> /PM <sub>2.5</sub>	0.03	0.13
SCAVTK2 Hydrogen Scavenging Tank Vent for Unit 1B	VOC	0.03	0.13	
		PM/PM <sub>10</sub> /PM <sub>2.5</sub>	0.03	0.13
CONDTK-1	CONDTK-1 Condensate Storage Tank No. 1	VOC	0.12	0.30
		H <sub>2</sub> S	<0.01	<0.01

(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.

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

 $NO_x$ - total oxides of nitrogen

- sulfur dioxide  $SO_2$ 

- total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented PM

 $PM_{10}$ - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as

represented

- particulate matter equal to or less than 2.5 microns in diameter  $PM_{2.5}$ 

CO - carbon monoxide hydrogen sulfide H<sub>2</sub>S hydrochloric acid HCI hypochlorous acid HOCI

sulfuric acid H<sub>2</sub>SO<sub>4</sub>

(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.

- (5) Turbine oil mist vent emissions are an estimate only based on estimates from mist vent eliminatory manufacturer
- Emissions are based on normal operation of 120 operating hours per year.
- (7) Fugitive emissions are an estimate based on component count and applicable fugitive emission factors.

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