

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Nos. 41953 and PSD-TX-951

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**
Turbine Only (Hourly Limits)				
U1	GE-7FA Turbine	NO <sub>x</sub>	62.13	
		CO	30.62	
		VOC	2.96	
		PM <sub>10</sub>	18.00	
		SO <sub>2</sub>	26.41	
		H <sub>2</sub> SO <sub>4</sub>	4.04	
U2	GE-7FA Turbine	NO <sub>x</sub>	62.13	
		CO	30.62	
		VOC	2.96	
		PM <sub>10</sub>	18.00	
		SO <sub>2</sub>	26.41	
		H <sub>2</sub> SO <sub>4</sub>	4.04	
U3	GE-7FA Turbine	NO <sub>x</sub>	62.13	
		CO	30.62	
		VOC	2.96	
		PM <sub>10</sub>	18.00	
		SO <sub>2</sub>	26.41	
		H <sub>2</sub> SO <sub>4</sub>	4.04	
U4	GE-7FA Turbine	NO <sub>x</sub>	62.13	
		CO	30.62	
		VOC	2.96	
		PM <sub>10</sub>	18.00	
		SO <sub>2</sub>	26.41	
		H <sub>2</sub> SO <sub>4</sub>	4.04	

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Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY **
U5	GE-7FA Turbine	NO <sub>x</sub>	62.13	
		CO	30.62	
		VOC	2.96	
		PM <sub>10</sub>	18.00	
		SO <sub>2</sub>	26.41	
		H <sub>2</sub> SO <sub>4</sub>	4.04	
U6	GE-7FA Turbine	NO <sub>x</sub>	62.13	
		CO	30.62	
		VOC	2.96	
		PM <sub>10</sub>	18.00	
		SO <sub>2</sub>	26.41	
		H <sub>2</sub> SO <sub>4</sub>	4.04	
Turbine and Duct Burner (Hourly Limits)				
U1	GE-7FA Turbine with 550 MMBtu/hr Duct Burner	NO <sub>x</sub>	106.13	
		CO	74.62	
		VOC	11.76	
		PM <sub>10</sub>	28.66	
		SO <sub>2</sub>	33.72	
		H <sub>2</sub> SO <sub>4</sub>	5.16	
U2	GE-7FA Turbine with 550 MMBtu/hr Duct Burner	NO <sub>x</sub>	106.13	
		CO	74.62	
		VOC	11.76	
		PM <sub>10</sub>	28.66	
		SO <sub>2</sub>	33.72	
		H <sub>2</sub> SO <sub>4</sub>	5.16	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
U3	GE-7FA Turbine with 550 MMBtu/hr Duct Burner	NO <sub>x</sub>	106.13	
		CO	74.62	
		VOC	11.76	
		PM <sub>10</sub>	28.66	
		SO <sub>2</sub>	33.72	
		H <sub>2</sub> SO <sub>4</sub>	5.16	
U4	GE-7FA Turbine with 550 MMBtu/hr Duct Burner	NO <sub>x</sub>	106.13	
		CO	74.62	
		VOC	11.76	
		PM <sub>10</sub>	28.66	
		SO <sub>2</sub>	33.72	
		H <sub>2</sub> SO <sub>4</sub>	5.16	
U5	GE-7FA Turbine with 550 MMBtu/hr Duct Burner	NO <sub>x</sub>	106.13	
		CO	74.62	
		VOC	11.76	
		PM <sub>10</sub>	28.66	
		SO <sub>2</sub>	33.72	
		H <sub>2</sub> SO <sub>4</sub>	5.16	
U6	GE-7FA Turbine with 550 MMBtu/hr Duct Burner	NO <sub>x</sub>	106.13	
		CO	74.62	
		VOC	11.76	
		PM <sub>10</sub>	28.66	
		SO <sub>2</sub>	33.72	
		H <sub>2</sub> SO <sub>4</sub>	5.16	

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Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY **
Combined Turbine and Duct Burner (Annual Limits)				
U1 through U6	GE-7FA Turbines with	NO <sub>x</sub>		1946.22
Combined Emissions	550 MMBtu/hr Duct Burners	CO		1146.52
		VOC		152.47
		PM <sub>10</sub>		566.80
		SO <sub>2</sub>		289.73
		H <sub>2</sub> SO <sub>4</sub>	44.36	
FUG	Piping Fugitives (4)	VOC	1.25	5.49
GEN1	Black Start Generator No. 1 (5)	NO <sub>x</sub>	4.12	0.25
		CO 20.88	1.25	
		VOC 3.30	0.20	
		SO <sub>2</sub> 0.13	<0.01	
GEN2	Black Start Generator No. 2 (5)	NO <sub>x</sub>	4.12	0.25
		CO 20.88	1.25	
		VOC 3.30	0.20	
		SO <sub>2</sub> 0.13	<0.01	
GEN3	Black Start Generator No. 3 (5)	NO <sub>x</sub>	4.12	0.25
		CO 20.88	1.25	
		VOC 3.30	0.20	
		SO <sub>2</sub> 0.13	<0.01	
GEN4	Black Start Generator No. 4 (5)	NO <sub>x</sub>	4.12	0.25
		CO 20.88	1.25	
		VOC 3.30	0.20	
		SO <sub>2</sub> 0.13	<0.01	
GEN5	Black Start Generator No. 5 (5)	NO <sub>x</sub>	4.12	0.25
		CO 20.88	1.25	
		VOC 3.30	0.20	
		SO <sub>2</sub> 0.13	<0.01	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
GEN6	Black Start Generator No. 6 (5)	NO <sub>x</sub>	4.12	0.25
		CO	20.88	1.25
		VOC	3.30	0.20
		SO <sub>2</sub>	0.13	<0.01
EMGEN	Emergency Diesel Generator (5)	NO <sub>x</sub>	30.49	1.83
		CO	6.99	0.42
		VOC	0.90	0.05
		PM <sub>10</sub>	0.89	0.05
		SO <sub>2</sub>	5.14	0.31
WTRPMP	Firewater Pump Engine (5)	NO <sub>x</sub>	7.75	0.47
		CO	1.67	0.10
		VOC	0.62	0.04
		PM <sub>10</sub>	0.55	0.03
		SO <sub>2</sub>	0.51	0.03
CT-1	Cooling Tower (6)	PM <sub>10</sub>	4.23	18.93
CT-2	Cooling Tower (6)	PM <sub>10</sub>	4.23	18.93
LUBE1	Lube Oil Demisters (7)	PM <sub>10</sub>	0.04	0.17

(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

CO - carbon monoxide

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.

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

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- (4) Fugitive emissions are an estimate based on component count and applicable fugitive emission factors.
  - (5) Emissions are based on normal operation of 120 operating hours per year.
  - (6) Cooling tower PM<sub>10</sub> emissions are an estimate only based on manufacturers test data.
  - (7) Turbine oil mist vent emissions are an estimate only based on estimates from mist vent eliminator manufacturer data.
- \* Emission rates are based on an operating schedule of 8,760 hours/year.
- \*\* Compliance with the annual emission limits is based on a rolling 12-month year rather than the calendar year.

Dated \_\_\_\_\_