

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Nos. 34824 and PSD-TX-877

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 Rates</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
101	GE-7FA Turbine	NO <sub>x</sub>	103.0	
		CO	139.0	
		VOC	5.0	
		PM <sub>10</sub>	17.0	
		SO <sub>2</sub>	15.7	
101	GE-7FA Turbine plus Duct Burner 547.0	NO <sub>x</sub>		141.3
		CO	138.6	504.0
		VOC	13.4	50.0
		PM <sub>10</sub>	22.0	92.5
		SO <sub>2</sub>	19.7	6.6
101-OV	Turbine Oil Mist Vent (4)	VOC	0.23	1.00
102	GE-7FA Turbine	NO <sub>x</sub>	103.0	
		CO	139.0	
		VOC	5.0	
		PM <sub>10</sub>	17.0	
		SO <sub>2</sub>	15.7	
102	GE-7FA Turbine plus Duct Burner	NO <sub>x</sub>	141.3	547.0
		CO	138.6	504.0
		VOC	13.4	50.0
		PM <sub>10</sub>	22.0	92.5
		SO <sub>2</sub>	19.7	6.6
102-OV	Turbine Oil Mist Vent (4)	VOC	0.23	1.0

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

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

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

## AIR CONTAMINANTS DATA

Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY **
103	Auxiliary Package Boiler (5) 11.2	NO <sub>x</sub>	21.9	
		CO	29.7	15.2
		VOC	1.7	2.7
		PM <sub>10</sub>	2.0	2.5
		SO <sub>2</sub>	3.4	0.2
104	Auxiliary Package Boiler (5) 11.2	NO <sub>x</sub>	21.9	
		CO	29.7	15.2
		VOC	1.7	2.7
		PM <sub>10</sub>	2.0	2.5
		SO <sub>2</sub>	3.4	0.2
105	Diesel Generator (6)	NO <sub>x</sub>	14.1	0.7
		CO	4.8	0.2
		VOC	0.3	0.02
		PM <sub>10</sub>	0.4	0.02
		SO <sub>2</sub>	2.3	0.12
105-T	Fuel Oil Storage Tank	VOC	<0.01	<0.01
106	Firewater Pump Engine (6) 0.58	NO <sub>x</sub>	11.6	
		CO	2.3	0.12
		VOC	0.3	0.02
		PM <sub>10</sub>	0.2	0.01
		SO <sub>2</sub>	0.1	<0.01
106-T	Fuel Oil Storage Tank	VOC	<0.01	<0.01
FUG	Fugitive Emissions (7)	VOC	0.03	0.13
107	Cooling Tower (8)	PM <sub>10</sub>	3.2	14.0

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

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

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

- (1) Emission point identification - either specific equipment designation or emission point number (EPN) 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 General Rule 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.
- (4) Turbine oil mist vent emissions are an estimate only based on estimates from mist vent eliminator manufacturer data.
- (5) Annual emission rates for Auxiliary Boilers (EPNs 103 and 104) are based on continuous operation at 10 percent load. Any emissions above the annual allowable emission rates listed shall be offset by an equal or greater reduction in annual emissions from one or both Turbine and Duct Burner Units (EPNs 101 and/or 102).
- (6) Emissions are based on normal operation of 100 operating hours per year.
- (7) Fugitive emissions are an estimate based on component count and applicable fugitive emission factors.
- (8) Cooling tower PM<sub>10</sub> emissions are an estimate only based on manufacturers test data.

\* Emission rates are based on an operating schedule of 8,760 hours/year.

\*\* Compliance with the annual emission limits shall be based on a rolling 12-month year rather than the calendar year.

Dated\_\_\_\_\_