EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 87153 and PSDTX877

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 Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
101	GE-7FA Turbine	NO_x (9)	63.0	-
		CO	139.0	-
		VOC	5.0	-
		PM_{10}	17.0	-
		SO_2	15.7	-
		NO_x (10)	370.0	-
		CO (10)	820.0	-
		VOC (10)	8.5	-
101	GE-7FA Turbine plus Duct Burner	NO_x (10)	370.0	-
		NO_x (9)	103.2	400.0
		CO (10)	820.0	-
		CO	138.6	504.0
		VOC (10)	8.5	-
		VOC	13.4	50.0
		PM_{10}	22.0	92.5
		SO_2	19.7	6.6
101-OV	Turbine Oil Mist Vent (4)	VOC	0.23	1.00
102	GE-7FA Turbine	NO_x (9)	63.0	-
		CO	139.0	-
		VOC	5.0	-
		PM_{10}	17.0	-
		SO_2	15.7	-
		NO_x (10)	370.0	-
		CO (10)	820.0	-
		VOC (10)	8.5	-

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
102	GE-7FA Turbine plus Duct Burner	NO_x (10)	370.0	-
		NO_x (9)	103.2	400.0
		CO (10)	820.0	-
		CO	138.6	504.0
		VOC (10)	8.5	-
		VOC	13.4	50.0
		PM_{10}	22.0	92.5
		SO_2	19.7	6.6
102-OV	Turbine Oil Mist Vent (4)	VOC	0.23	1.0
103	Auxiliary Package Boiler (5)	NO_x	21.9	11.2
		CO	29.7	15.2
		VOC	1.7	2.7
		PM_{10}	2.0	2.5
		SO_2	3.4	0.2
104	Auxiliary Package Boiler (5)	NO_x	21.9	11.2
		CO	29.7	15.2
		VOC	1.7	2.7
		PM_{10}	2.0	2.5
		SO_2	3.4	0.2
105	Diesel Generator (6)	NO_x	14.1	0.7
		CO	4.8	0.2
		VOC	0.3	0.02
		PM_{10}	0.4	0.02
		SO_2	2.3	0.12
105-T	Fuel Oil Storage Tank	VOC	<0.01	<0.01
106	Firewater Pump Engine (6)	NO_x	11.6	0.58
		CO	2.3	0.12
		VOC	0.3	0.02
		PM_{10}	0.2	0.01
		SO_2	0.1	<0.01
106-T	Fuel Oil Storage Tank	VOC	<0.01	<0.01

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
FUG	Fugitive Emissions (7)	VOC	0.03	0.13
107	Cooling Tower (8)	PM_{10}	3.2	14.0
108	Condensate Cooling Tower (8)	PM_{10}	<0.01	<0.01
		VOC	1.00	1.00

(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 Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
CO - carbon monoxide
SO_2 - sulfur dioxide
PM_{10} - 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_{10} emissions are an estimate only based on manufacturers test data.
(9) The NO_x emission rate for the CTG and CTG with duct burners is based upon a three hour averaging period.
(10) Routine maintenance, startup, and shutdown (MSS) emission rate. Annual ton per year emission limit includes MSS emissions.

* 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.

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

Dated March 15, 2010