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 Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
		SIMPLE CYCLE MODE		
BYPASS-1	Combustion Turbine 201.7 MW ABB GT24	NO_x	100.6 (325.3)	521.5
		CO	158.1 (187.5)	703.1
		SO_2	28.0 (101.4)	149.1
		VOC	27.2 (96.6)	144.1
		PM_{10}	19.7 (61.8)	101.4
	OR			
	Combustion Turbine 187.5 MW Westinghouse 501FC	NO_x	104.5 (291.3)	525.0
		CO	153.1 (228.1)	697.6
		SO_2	29.1 (90.9)	149.7
		VOC	17.0 (20.9)	75.9
		PM_{10}	12.7 (60.3)	72.8
	OR			
	Combustion Turbine 172.4 MW General Electric Frame 142.0 7FA	NO_x	57.9 (308.5)	343.8
		CO	53.2 (95.9)	248.4
		SO_2	26.7 (96.3)	
		VOC	12.7 (12.9)	55.7
		PM_{10}	13.4 (17.5)	60.2
BYPASS-2	Combustion Turbine 201.7 MW ABB GT24	NO_x	100.6 (325.3)	521.5
		CO	158.1 (187.5)	703.1
		SO_2	28.0 (101.4)	149.1

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
		VOC	27.2 (96.6)	144.1
		PM_{10}	19.7 (61.8)	101.4
	OR			
	Combustion Turbine	NO_x	104.5 (291.3)	525.0
	187.5 MW	CO	153.1 (228.1)	697.6
	Westinghouse 501FC	SO_2	29.1 (90.9)	149.7
		VOC	17.0 (20.9)	75.9
		PM_{10}	12.7 (60.3)	72.8
	OR			
	Combustion Turbine	NO_x	57.9 (308.5)	343.8
	172.4 MW	CO	53.2 (95.9)	248.4
	General Electric Frame 7FA	SO_2	26.7 (96.3)	142.0
		VOC	12.7 (12.9)	55.7
		PM_{10}	13.4 (17.5)	60.2
	COMBINED CYCLE MODE			
HRSG-1	Combustion Turbine	NO_x	133.1 (352.8)	662.1
	201.7 MW	CO	158.1 (187.5)	703.1
	ABB GT24	SO_2	32.8 (104.7)	169.5
	and	VOC	40.9 (99.7)	200.3
	Heat Recovery Steam Generator 325.0 MMBtu/hr	PM_{10}	23.8 (65.9)	119.4
	OR			
	Combustion Turbine	NO_x	138.0 (324.1)	671.4
	187.5 MW	CO	153.1 (228.1)	697.6
	Westinghouse 501FC	SO_2	34.2 (95.9)	172.0

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
	and	VOC	34.3	(39.9)	152.3
	Heat Recovery Steam	PM_{10}	16.8	(61.5)	89.7
	Generator 325.0 MMBtu/hr				
	OR				
	Combustion Turbine	NO_x	91.4	(342.0)	490.5
	172.4 MW	CO	68.6	(136.1)	324.8
	General Electric Frame 7FA	SO_2	31.8	(101.4)	164.3
	and	VOC	32.8	(33.0)	143.7
	Heat Recovery Steam	PM_{10}	17.5	(21.6)	78.1
	Generator 325.0 MMBtu/hr				
HRSG-2	Combustion Turbine	NO_x	133.1	(352.8)	662.1
	201.7 MW	CO	158.1	(187.5)	703.1
	ABB GT24	SO_2	32.8	(104.7)	169.5
	and	VOC	40.9	(99.7)	200.3
	Heat Recovery Steam	PM_{10}	23.8	(65.9)	119.4
	Generator 325.0 MMBtu/hr				
	OR				
	Combustion Turbine	NO_x	138.0	(324.1)	671.4
	187.5 MW	CO	153.1	(228.1)	697.6
	Westinghouse 501FC	SO_2	34.2	(95.9)	172.0
	and	VOC	34.3	(39.9)	152.3
	Heat Recovery Steam	PM_{10}	16.8	(61.5)	89.7
	Generator 325.0 MMBtu/hr				
	OR				
	Combustion Turbine	NO_x	91.4	(342.0)	490.5

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
	172.4 MW General Electric Frame 7FA and Heat Recovery Steam Generator 325.0 MMBtu/hr	CO	68.6	(136.1)	324.8
		SO_2	31.8	(101.4)	164.3
		VOC	32.8	(33.0)	143.7
		PM_{10}	17.5	(21.6)	78.1
OTHER EQUIPMENT					
STEAM-1	Emergency Steam Generator 19.9 MMBtu/hr	NO_x	5.97		1.31
		CO	0.80		0.18
		SO_2	1.12		0.25
		THC	0.23		0.05
		PM_{10}	0.30		0.07
GEN-1	Emergency Electric Generator Diesel-Fired 750 kW	NO_x	15.75		3.45
		CO	1.88		0.41
		SO_2	0.40		0.09
		THC	0.41		0.09
		PM_{10}	0.34		0.07
GEN-2	Emergency Electric Generator Diesel-Fired 750 kW	NO_x	15.75		3.45
		CO	1.88		0.41
		SO_2	0.40		0.09
		THC	0.41		0.09
		PM_{10}	0.34		0.07
TANK-1	Distillate Fuel Oil Storage Tank 650,000 gallon capacity	VOC	3.27		0.25

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

(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_2 - sulfur dioxide
VOC - volatile organic compounds as defined in General Rule 101.1
THC - total hydrocarbons
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 combined-cycle allowables) shall be computed by multiplying the maximum heat input capacity for each unit (325 MMBtu/hr) times the emission factors listed in Special Condition No. 7.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

24 Hrs/day 7 Days/week 52 Weeks/year or 8,760 Hrs/year

Hourly limits in parentheses are only in effect during periods when the turbines are fired with distillate fuel oil. Distillate fuel oil firing is limited to 720 hours per rolling 12-month period.

Dated _____