Permit Numbers 87225 and PSDTX1198

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	on Source Air Contaminant <u>Emission Rates *</u>				
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**	
SIEMENS TUF	RBINE OPTION				
CTG-CC-1	Siemens SGT6-5000F Turbine Stack Combined Cycle w/ Duct Burner 468 MMBtu/hr Firing 4,000 hr/yr	CO CO [Startup/Shutdown] NO _x NO _x [Startup/Shutdown] PM/PM ₁₀ SO ₂ VOC VOC [Startup/Shutdown] H ₂ SO ₄ NH ₃	96.80 3184.50 22.00 148.50 15.40 4.03 13.20 306.90 0.62 40.70	1059.55 119.01 52.70 15.05 105.69 2.30 152.02	
CTG-CC-2	Siemens SGT6-5000F Turbine Stack Combined Cycle w/ Duct Burner 468 MMBtu/hr Firing 4,000 hr/yr	CO CO [Startup/Shutdown] NO _x NO _x [Startup/Shutdown] PM/PM ₁₀ SO ₂ VOC VOC [Startup/Shutdown] H ₂ SO ₄ NH ₃	96.80 3184.50 22.00 148.50 15.40 4.03 13.20 306.90 0.62 40.70	1059.55 119.01 52.70 15.05 105.69 2.30 152.02	
CTG-SC-1	Siemens SGT6-5000F By-pass Stack Simple Cycle	CO CO [Startup/Shutdown] NO _x NO _x [Startup/Shutdown] PM/PM ₁₀	22.00 1032.24 79.20 67.32 11.00 3.46	157.47 100.98 14.65 3.99	

		SO_2 VOC VOC [Startup/Shutdown] H_2SO_4	3.30 52.80 0.53	10.06 0.61
CTG-SC-2	Siemens SGT6-5000F By-pass Stack Simple Cycle	CO CO [Startup/Shutdown] NO _x NO _x [Startup/Shutdown] PM/PM ₁₀ SO ₂ VOC VOC VOC [Startup/Shutdown] H ₂ SO ₄	22.00 1032.24 79.20 67.32 11.00 3.46 3.30 52.80 0.53	157.47 100.98 14.65 3.99 10.06 0.61
GE TURBINES	OPTION	1 - :	1	
CTG-CC-1	GE 7FA Turbine Stack Combined Cycle w/ Duct Burner 468 MMBtu/hr Firing 4,000 hr/yr	CO CO [Startup/Shutdown] NOx NOx [Startup/Shutdown] PM/PM ₁₀ SO ₂ VOC VOC [Startup/Shutdown] H ₂ SO ₄ NH ₃	77.88 1782.00 19.14 242.00 27.01 3.63 8.80 105.16 0.56 28.16	553.88 97.32 104.08 13.36 39.54 2.05 114.54
CTG-CC-2	GE 7FA Turbine Stack Combined Cycle w/ Duct Burner 468 MMBtu/hr Firing 4,000 hr/yr	CO CO [Startup/Shutdown] NO _x NO _x [Startup/Shutdown] PM/PM ₁₀ SO ₂ VOC VOC [Startup/Shutdown] H ₂ SO ₄	77.88 1782.00 19.14 242.00 27.01 3.63 8.80 105.16 0.56 28.16	553.88 97.32 104.08 13.36 39.54 2.05 114.54

	NH ₃	

Emission	Source	Air Contaminant	Emission Rate			ontaminant <u>Emission Ra</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**			
	1	T	<u> </u>				
CTG-SC-1	GE 7FA	CO	34.10	84.48			
	By-pass Stack	CO [Startup/Shutdown]	345.58				
	Simple Cycle	NO _x	68.20	96.96			
		NO _x	117.22				
		[Startup/Shutdown]	18.00	22.50			
		PM/PM ₁₀	2.94	3.50			
		SO ₂	3.30	7.09			
		VOC	24.40				
		VOC	0.45	0.54			
		[Startup/Shutdown]					
		H ₂ SO ₄					
CTG-SC-2	GE 7FA	CO	34.10	84.48			
	By-pass Stack	CO [Startup/Shutdown]	345.58				
	Simple Cycle	NO _x	68.20	96.96			
		NO _x	117.22				
		[Startup/Shutdown]	18.00	22.50			
		PM/PM ₁₀	2.94	3.50			
		SO ₂	3.30	7.09			
		VOC	24.40				
		VOC	0.45	0.54			
		[Startup/Shutdown]					
		H ₂ SO ₄					
	ANT EQUIPMENTS						
CTWR	Plant Cooling Tower	PM/PM ₁₀	4.68	20.50			
IAC-1	Inlet Air Chiller Cooling Tower	PM/PM ₁₀	0.27	1.18			
IAC-2	Inlet Air Chiller Cooling Tower	PM/PM ₁₀	0.27	1.18			
AUX-1	Auxiliary Boiler	CO	1.96	8.58			

NO _x	0.53	2.32
PM/PM ₁₀	0.53	2.32
SO ₂	0.03	0.13
VOC	0.32	1.40

AIR CONTAMINANTS DATA						
Emission Source Air Contaminant Emission Rates *						
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**		
ENG-1	Diesel-fired Firewater Engine	CO	1.67	0.42		
		NO _x	7.75	1.94		
		PM/PM ₁₀	0.55	0.14		
		SO ₂	0.51	0.13		
		VOC	0.63	0.16		
ENG-2	Diesel-fired Emergency	СО	1.88	0.47		
	Engine	NO _x	35.24	8.81		
		PM/PM ₁₀	0.17	0.04		
		SO ₂	0.12	0.03		
		VOC	1.88	0.47		
TK-1	Lube Oil Tank	VOC	1.88	0.01		
TK-2	Waste Oil Tank	VOC	0.24	<0.01		
TK-ENG1	ENG-1 Fuel Tank	VOC	0.04	<0.01		
TK-ENG2	ENG-2 Fuel Tank	VOC	0.24	<0.01		
OWSEP	API Separator	VOC	<0.01	0.01		
WO-LOAD	Waste Oil Loadout	VOC	0.09	<0.01		
FUG-1	Site Fugitives (4)	VOC	0.41	1.78		
HTR-1	Line Heater 1	СО	0.99	4.34		
		NO _x	1.18	5.17		

		PM/PM ₁₀ SO ₂ VOC	0.09 0.01 0.06	0.39 0.04 0.26
HTR-2	Line Heater 2	CO NO _x PM/PM ₁₀ SO ₂ VOC	0.99 1.18 0.09 0.01 0.06	4.34 5.17 0.39 0.04 0.26
LOR-1	Lube Oil Reservoir Vapor	VOC	<0.01	0.01
	Extractor Vent	PM	<0.01	0.01
LOR-2	Lube Oil Reservoir Vapor	VOC	<0.01	0.01
	Extractor Vent	PM	<0.01	0.01
LOR-3	Lube Oil Reservoir Vapor	VOC	<0.01	0.01
	Extractor Vent	PM	<0.01	0.01

- (1) Emission point identification either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources, use an 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

SO₂ - sulfur dioxide

PM - particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$

 $\mbox{PM}_{\mbox{\tiny 2.5}}~$ - ~ particulate matter equal to or less than 2.5 microns in diameter

PM₁₀ - particulate matter equal to or less than 10 microns in diameter

CO - carbon monoxide

H₂SO₄ - sulfuric acid

NH₃ - ammonia

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- * Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day Days/week	_Weeks/year or <u>8,760</u> Hrs/year
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** Compliance with annual emission limits is based on a rolling 12-month period.

Dated February 3, 2010