Permit Number 38659 and PSDTX922

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, sources, and related activities. 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	
		(3)	lbs/hour	TPY (4)
CTG-1	Turbine No. 1 (GE 7241FA) Combustion Turbine/HRSG	Combined-Cycle Gas Turbine Only Operation (Maximum Hourly Limits)		
	Stack	NO _x	63.00	
		СО	51.70	
		voc	3.00	
		PM/PM ₁₀ /PM _{2.5}	18.00	
		SO ₂	2.50	
		Combined-Cycle Gas Turbine MSS Operations (Maximum Hourly Limits)		
		NO _x	250.00	
		со	2100.00	
		voc	183.00	
		PM/PM ₁₀ /PM _{2.5}	20.00	
		SO ₂	2.80	
		Combined-Cycle Gas Turbii (Maximum Hourly Limits)	ne with HRSG Du	ct Burner
		NO _x	79.00	
		СО	67.70	
		VOC	5.00	
		PM/PM ₁₀ /PM _{2.5}	20.00	
		SO ₂	2.80	

CTG-2 Turbine No. 2 (GE 7241FA) Combustion Turbine/HRSG	Combined-Cycle Gas Turbin (Maximum Hourly Limits)	ne Only Operation		
	Stack	NO _X	63.00	
		со	51.70	
		VOC	3.00	
		PM/PM ₁₀ /PM _{2.5}	18.00	
		SO ₂	2.50	
		Combined-Cycle Gas Turbine MSS Operations (Maximum Hourly Limits)		
		NO _X	250.00	
		со	2100.00	
		VOC	183.00	
		PM/PM ₁₀ /PM _{2.5}	20.00	
		SO ₂	2.80	
		Combined-Cycle Gas Turbine with HRSG Duct Burner (Maximum Hourly Limits)		
		NOx	79.00	
	со	67.70		
		VOC	5.00	
		PM/PM ₁₀ /PM _{2.5}	20.00	
		SO ₂	2.80	

11.117-3	` '	Combined-Cycle Gas Turbine Only Operation (Maximum Hourly Limits)		
	Stack	NO _X	63.00	

CO 51.70 VOC 3.00 PM/PM ₁₀ /PM _{2.5} 18.00 SO ₂ 2.50 Combined-Cycle Gas Turbine MSS Operations (Maximum Hourly Limits) NO _X 250.00 CO 2100.00 VOC 183.00 PM/PM ₁₀ /PM _{2.5} 20.00 SO ₂ 2.80 Combined-Cycle Gas Turbine with HRSG Duct Burner (Maximum Hourly Limits) NO _X 79.00		
PM/PM ₁₀ /PM _{2.5}	СО	51.70
SO ₂ 2.50	VOC	3.00
Combined-Cycle Gas Turbine MSS Operations (Maximum Hourly Limits) NO _x 250.00 CO 2100.00 VOC 183.00 PM/PM ₁₀ /PM _{2.5} 20.00 SO ₂ 2.80 Combined-Cycle Gas Turbine with HRSG Duct Burner (Maximum Hourly Limits)	PM/PM ₁₀ /PM _{2.5}	18.00
Maximum Hourly Limits	SO ₂	2.50
CO 2100.00 VOC 183.00 PM/PM ₁₀ /PM _{2.5} 20.00 SO ₂ 2.80 Combined-Cycle Gas Turbine with HRSG Duct Burner (Maximum Hourly Limits)	Combined-Cycle Gas T (Maximum Hourly Limit	Turbine MSS Operations ts)
VOC 183.00 PM/PM ₁₀ /PM _{2.5} 20.00 SO ₂ 2.80 Combined-Cycle Gas Turbine with HRSG Duct Burner (Maximum Hourly Limits)	NO _X	250.00
PM/PM ₁₀ /PM _{2.5} 20.00 SO ₂ 2.80 Combined-Cycle Gas Turbine with HRSG Duct Burner (Maximum Hourly Limits)	СО	2100.00
SO ₂ 2.80 Combined-Cycle Gas Turbine with HRSG Duct Burner (Maximum Hourly Limits)	VOC	183.00
Combined-Cycle Gas Turbine with HRSG Duct Burner (Maximum Hourly Limits)	PM/PM ₁₀ /PM _{2.5}	20.00
(Maximum Hourly Limits)	SO ₂	2.80
NO _X 79.00	Combined-Cycle Gas T (Maximum Hourly Limit	urbine with HRSG Duct Burner ts)
	NO _x	79.00
CO 67.70	СО	67.70
VOC 5.00	VOC	5.00
PM/PM ₁₀ /PM _{2.5} 20.00	PM/PM ₁₀ /PM _{2.5}	20.00
SO ₂ 2.80	SO ₂	2.80

CTG-4	Turbine No. 4 (GE 7241FA) Combustion Turbine/HRSG Stack			
		NO _X	63.00	
		СО	51.70	
		voc	3.00	

PM/PM ₁₀ /PM _{2.5}	18.00
SO ₂	2.50
Combined-Cycle Gas Turb Hourly Limits)	ine MSS Operations (Maximum
NO _X	250.00
СО	2100.00
VOC	183.00
PM/PM ₁₀ /PM _{2.5}	20.00
SO ₂	2.80
Combined-Cycle Gas Turb (Maximum Hourly Limits)	ine with HRSG Duct Burner
NO _X	79.0
СО	67.7
voc	5.0
PM/PM ₁₀ /PM _{2.5}	20.0
SO ₂	2.8

	Combined Annual Limits Turbines plus duct burners	Combined Normal Operating and MSS Annu (Maximum Annual Limits)		ual Emissions
		NOx		1137.20
		СО		946.00
		VOC		65.10
		PM/PM ₁₀ /PM _{2.5}		331.40
		SO ₂		42.70

Ancillary Sources (Ancillary Sources (Hourly and Annual Limits)				
F-1 (5)	Natural Gas, Lube/Hydraulic Oil, and Seal Oil Piping for Units 1 through 4	VOC	0.88	3.66	
LO-RSV-CT1	Reservoir for Unit 1	voc	0.08	0.18	
		PM/PM ₁₀ /PM _{2.5}	0.08	0.18	
LO-RSV-CT2	Vent for Main Lube Oil Reservoir for Unit 2	voc	0.08	0.18	
Combustion Turbine	PM/PM ₁₀ /PM _{2.5}	0.08	0.18		
LO-RSV-CT3	Vent for Main Lube Oil Reservoir for Unit 3 Combustion Turbine	voc	0.08	0.18	
		PM/PM ₁₀ /PM _{2.5}	0.08	0.18	
LO-RSV-CT4	Vent for Main Lube Oil Reservoir for Unit 4	voc	0.08	0.18	
	Combustion Turbine	PM/PM ₁₀ /PM _{2.5}	0.08	0.18	
LO-RSV-ST1	LO-RSV-ST1 Vent for Main Lube Oil Reservoir for Steam Turbine 1	voc	0.08	0.18	
	Treservoir for Steam Turbine 1	PM/PM ₁₀ /PM _{2.5}	0.08	0.18	
LO-RSV-ST2	Vent for Main Lube Oil Reservoir for Steam Turbine 2	voc	0.08	0.18	
		PM/PM ₁₀ /PM _{2.5}	0.08	0.18	

LO-DTR-CT1	Sump Vent for Unit 1	voc	0.04	0.09
		PM/PM ₁₀ /PM _{2.5}	0.04	0.09
LO-DTR-CT2	Sump Vent for Unit 2	voc	0.04	0.09
		PM/PM ₁₀ /PM _{2.5}	0.04	0.09
LO-DTR-CT3	Sump Vent for Unit 3	voc	0.04	0.09
		PM/PM ₁₀ /PM _{2.5}	0.04	0.09
Sump Vent for Unit 4	voc	0.04	0.09	
	PM/PM ₁₀ /PM _{2.5}	0.04	0.09	

LO-DTR-ST1	Bearing Lube Oil Detrainment Sump Vent for Steam Turbine	voc	0.04	0.09
	1	PM/PM ₁₀ /PM _{2.5}	0.04	0.09
LO-DTR-ST2	Bearing Lube Oil Detrainment Sump Vent for Steam Turbine	voc	0.04	0.09
	2	PM/PM ₁₀ /PM _{2.5}	0.04	0.09
EG2 (6)	Emergency Generator Diesel Engine (Catepillar-2937 hp)	NO _X	41.87	18.34
	Engine (Gatepinal 2007 hp)	со	4.05	1.77
		voc	1.13	0.49
		PM/PM ₁₀ /PM _{2.5}	0.57	0.25
		SO ₂	1.10	0.48
		H ₂ SO ₄	0.17	0.07
EG2-LUBE	Emergency Generator Diesel Engine Crankcase Vent (Catepillar-2937 hp)	voc	0.13	0.57
		PM/PM ₁₀ /PM _{2.5}	0.13	0.11
EG2-DSLTK	Diesel Storage Tank (1200gal)	voc	0.51	0.01
EG2-DSLFUG (5)	Diesel Piping Fugitives	voc	< 0.01	< 0.01
SO-RSV-CT1	Seal Oil Reservoir Vent for Gas Turbine Generator 1	voc	0.04	0.09
	ous ruibine deficituoi 1	PM/PM ₁₀ /PM _{2.5}	0.04	0.09
SO-RSV-CT2	Seal Oil Reservoir Vent for Gas Turbine Generator 2	voc	0.04	0.09
	Ods Turbine Generator 2	PM/PM ₁₀ /PM _{2.5}	0.04	0.09
SO-RSV-CT3	Seal Oil Reservoir Vent for	voc	0.04	0.09
	Gas Turbine Generator 3	PM/PM ₁₀ /PM _{2.5}	0.04	0.09
SO-RSV-CT4	Seal Oil Reservoir Vent for Gas Turbine Generator 4	voc	0.04	0.09
	Jus Turbine Generator 4	PM/PM ₁₀ /PM _{2.5}	0.04	0.09
SO-RSV-ST1	Seal Oil Reservoir Vent for Steam Turbine Generator 1	voc	0.04	0.09
	Steam Farbine Ocherator 1	PM/PM ₁₀ /PM _{2.5}	0.04	0.09
	•	•		

SO-RSV-ST2	Seal Oil Reservoir Vent for Steam Turbine Generator 2	voc	0.04	0.09
		PM/PM ₁₀ /PM _{2.5}	0.04	0.09

- (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 Title 30 Texas Administrative Code § 101.1

H₂SO₄ - sulfuric acid

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented

 PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented

PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter

CO - carbon monoxide

- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) Emergency Generator Diesel Engine limited to 876 hours of operation annually.

Date: February 13, 2012