Permit Number 41008 and PSDTX936

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) Sou	ource Name (2)		Air Conta		t Name		Emission Rates
						bs/hour		TPY (4)
GT-HRSG 1			ustion Turbi		SE.			ele Gas Turbine only kimum Hourly Limits)
Γ		Turbin	VHRSG Sta NOx (5)	ack	60.00			
			CO (5)		29.00			
			VOC (5)		2.80			
			PM/PM ₁₀ /P	PM _{2.5} (5)	18.30			
			SO ₂ (5)		2.40			
			H ₂ SO ₄ (5)		0.27			
_								SS Operations urly Limits)
			NO _x (5)		250.00)		
			CO (5)		2100.0	00		
			VOC (5)		183.00)		
			PM/PM ₁₀ /P	PM _{2.5} (5)	21.00			
			SO ₂ (5)		2.40			
			H ₂ SO ₄ (5)		0.27			
_						HRSG du	ct bu	cle Gas Turbine with rner urly Limits)
			NO _x (5)		82.00			
			CO (5)		51.00			
			VOC (5)		5.60			
			PM/PM ₁₀ /P	PM _{2.5} (5)	21.00			
			SO ₂ (5)		2.70			

				H ₂ SO ₄ (5)		0.30			
GT-HRSG 2		PG724		ustion Turbine No. 2 (GE 41 [7FA]) Combustion			Combined-Cycle Gas Turbine only operation (Maximum Hourly Limits		
			Turbin	e/HRSG Sta	ack	60.00			
				CO (5)		29.00			
		voc	(5)		2.80	1		II	2.8
				PM/PM ₁₀ /F	PM _{2.5} (5)	18.30			
				SO ₂ (5)		2.40			
				H ₂ SO ₄ (5)		0.27			
	_						Gas Turbine I (Maximum Ho		
				NO _x (5)		250.00)		
				CO (5)		2100.0	00		
				VOC (5)		183.00)		
				PM/PM ₁₀ /F	PM _{2.5} (5)	21.00			
				SO ₂ (5)		2.40			
				H ₂ SO ₄ (5)		0.27			
							Combined-Cy HRSG duct be (Maximum Ho	urne	
				NO _x (5)		82.00			
				CO (5)		51.00			
				VOC (5)		5.60			
				PM/PM ₁₀ /P	PM _{2.5} (5)	21.00			
				SO ₂ (5)		2.70			
				H ₂ SO ₄ (5)		0.30			

GT-HRSG 3	Combustion Turbine No. 3 (GE	Combined-Cycle Gas Turbine only
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	PG724	1 [7FA]) Co	mbustion	1	operation (Max	imum Hourly Limits)
	Turbin	e/HRSG Sta	ack	60.00		
		CO (5)		29.00		
		VOC (5)		2.80		
		PM/PM ₁₀ /F	PM _{2.5} (5)	18.30		
		SO ₂ (5)		2.40		
		H ₂ SO ₄ (5)		0.27		
					Gas Turbine M (Maximum Hou	
		NO _× (5)		250.00		
		CO (5)		2100.0	0	
		VOC (5)		183.00		
PM/P	M ₁₀ /PN	M _{2.5} (5)	21.00			21
		SO ₂ (5)		2.40		
		H ₂ SO ₄ (5)		0.27		
					Combined-Cyc HRSG duct but (Maximum Hou	
		NO _× (5)		82.00		
		CO (5)		51.00		
		VOC (5)		5.60		
		PM/PM ₁₀ /F	PM _{2.5} (5)	21.00		
		SO ₂ (5)		2.70		
		H ₂ SO ₄ (5)		0.30		

GT-HRSG 4	Combustion Turbine No. 4 PG7241 [7FA]) Combustion		Combined-Cycle Gas Turbine only operation (Maximum Hourly Limits)		
	Turbine/HRSG Stack NO _x (5)	60.00			

CO (5)	29.00		
VOC (5)	2.80		
PM/PM ₁₀ /PM _{2.5} (5)	18.30		
SO ₂ (5)	2.40		
H ₂ SO ₄ (5)	0.27		
	1	Gas Turbine M (Maximum Hou	SS Operations urly Limits)
NO _x (5)	250.00)	
CO (5)	2100.0	00	
VOC (5)	183.00)	
PM/PM ₁₀ /PM _{2.5} (5)	21.00		
SO ₂ (5)	2.40		
H ₂ SO ₄ (5)	0.27		
		Combined-Cyc HRSG duct bu (Maximum Hou	
NO _x (5)	82.00		
CO (5)	51.00		
VOC (5)	5.60		
PM/PM ₁₀ /PM _{2.5} (5)	21.00		
SO ₂ (5)	2.70		
H ₂ SO ₄ (5)	0.30		

GT-HRSG 1, GT-HRSG 2, GT-HRSG 3, and GT-HRSG 4	PG7241 [7FA]) Combus ne/HRSG Stack No. 1,2 I		Limits for combined emissions from normal, MSS, and reduced load operation	
	 NO _x (5)			1126.00
	NO _x (7)	930.00		

		CO (5)		635.60
		VOC (5)		68.00
		PM/PM ₁₀ /PM _{2.5} (5)		342.40
		SO ₂ (5)		40.40
		H ₂ SO ₄ (5)		4.80
Ancillary Sources (Ho	urly and Annual Limits)		
CT-1	Cooling Tower No. 1	PM/PM ₁₀ (5)	18.70	81.70
		носі	0.04	0.17
		НСІ	0.03	0.12
		H ₂ SO ₄	< 0.01	< 0.01
		VOC (5)	0.02	0.07
CT-2	Cooling Tower No. 2	PM/PM ₁₀ (5)	18.70	81.70
		носі	0.04	0.17
		нсі	0.03	0.12
		H ₂ SO ₄	< 0.01	< 0.01
		VOC (5)	0.02	0.07
F-1	Natural Gas, Condensate, Lube Oil, and Seal Oil Piping for Units 1 thru 4	VOC (5)(6)	2.71	11.85
		H ₂ S (5)	< 0.01	< 0.01
LUBETNKCT1	Unit 1 Combustion Turbine Lube Oil	VOC (5)(6)	0.09	0.40
	Reservoir Vent	PM/PM ₁₀ /PM _{2.5} (5)(6)	0.09	0.40
LUBETNKCT2	Unit 2 Combustion Turbine Lube Oil	VOC (5)(6)	0.09	0.40
	Reservoir Vent	PM/PM ₁₀ /PM _{2.5} (5)(6)	0.09	0.40
LUBETNKCT3	Unit 3 Combustion Turbine Lube Oil	VOC (5)(6)	0.09	0.40
	Reservoir Vent	PM/PM ₁₀ /PM _{2.5} (5)(6)	0.09	0.40

LUBETNKCT4	Unit 4 Combustion Turbine Lube Oil	VOC (5)(6)	0.09	0.40
	Reservoir Vent	PM/PM ₁₀ /PM _{2.5} (5)(6)	0.09	0.40
LUBETNKST1	Steam Turbine No. 1 Lube Oil Reservoir	VOC (5)(6)	0.09	0.40
	Vent	PM/PM ₁₀ /PM _{2.5} (5)(6)	0.09	0.40
LUBETNKST2	Steam Turbine No. 2 Lube Oil Reservoir	VOC (5)(6)	0.09	0.40
	Vent	PM/PM ₁₀ /PM _{2.5} (5)(6)	0.09	0.40
LUBETNKEG2	Emergency Generator Engine	VOC (5)(6)	0.13	0.56
	No. 2 Lube Oil Reservoir Vent	PM/PM ₁₀ /PM _{2.5} (5)(6)	0.13	0.11
CONDENTK1	Natural Gas Condensate Storage	VOC (5)	0.12	0.50
	Tank No. 1 in Metering Yard	H ₂ S	0.01	0.01
LD-CONDTK1	Natural Gas Condensate Truck	VOC (5)	18.10	0.01
	Loading from Storage Tank No. 1	H ₂ S	0.01	0.01
SCAVTK1	Hydrogen Scavenging Tank	VOC (5)	0.01	0.01
	Vent for Unit 1 Seal Oil	PM/PM ₁₀ /PM _{2.5} (5)	0.01	0.01
SCAVTK2	Hydrogen Scavenging Tank	VOC (5)	0.01	0.01
	Vent for Unit 2 Seal Oil	PM/PM ₁₀ /PM _{2.5} (5)	0.01	0.01
SCAVTK3	Hydrogen Scavenging Tank	VOC (5)	0.01	0.01
	Vent for Unit 3 Seal Oil	PM/PM ₁₀ /PM _{2.5} (5)	0.01	0.01
SCAVTK4	Hydrogen Scavenging Tank	VOC (5)	0.01	0.01
	Vent for Unit 4 Seal Oil	PM/PM ₁₀ /PM _{2.5} (5)	0.01	0.01

⁽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 Project Number: 162542

H₂SO₄ - sulfuric acid

HOCl - hypochlorous acid HCl - hydrogen chloride H₂S - hydrogen sulfide

 NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$,

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) These emissions are authorized under Federal PSD and state permitting regulations.
- (6) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (7) MSS hourly emission limit only. The tpy emission limit represented in the MAERT for these facilities includes combined emissions from the facilities during normal operations, planned MSS activities. and reduced load operation.

Date: July 11, 2012