Permit Numbers 1467 and PSDTX1090

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.

Emission	Source	Air Contaminant		n Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
S4-1	Westinghouse 69 MW Turbine Model W501-B6 with 124 MMBtu/hr Duct Burner	NO_x CO SO_2 VOC PM/PM_{10}	188 840 17 12 2	674 1,665 12 44 6
S4-2	Westinghouse 69 MW Turbine Model W501-B6 with 124 MMBtu/hr Duct Burner	NO_x CO SO_2 VOC PM/PM_{10}	188 840 17 12 2	674 1,665 12 44 6
UNIT 6 SIMPLE CYC	CLE			
SC-S6A	GE Frame 7EA Natural Gas Fired 70 MW Turbine, Typical High Load Operation (7) (Without Duct Burner)	NO_x CO VOC PM/PM_{10} SO_2 H_2SO_4	174 233 8 9 14 2	- - - -
SC-S6A	GE Frame 7EA Natural Gas Fired 70 MW Turbine Without Duct Burner - Startup, Shutdown, and Low Load Operation (8) (Limited to 2,500 hours per year)	NO_x CO VOC PM/PM_{10} SO_2 H_2SO_4	180 386 5 9 14 2	- - - -

Emission	Source	Air Contaminant	<u>Emissi</u>	on Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
SC-S6A	Annual Emissions from EPN SC-S	CO	-	283 (5) 363
		VOC PM/PM ₁₀	-	8 29
		SO ₂	_	13
		H ₂ SO ₄	-	2
SC-S6B	GE Frame 7EA Natural Gas Fired 70 MW Turbine, Typical High Load Operation (7) (Without Duct Burner)	NO_x CO VOC PM/PM_{10} SO_2 H_2SO_4	174 233 8 9 14 2	- - - -
SC-S6B	GE Frame 7EA Natural Gas Fired 70 MW Turbine Without Duct Burner - Startup, Shutdown, and Low Load Operation (8) (Limited to 2,500 hours per year)	NO_x CO VOC PM/PM_{10} SO_2 H_2SO_4	180 386 5 9 14 2	- - - - -
SC-S6B	Annual Emissions from EPN SC-S	$6B NO_x$ CO VOC PM/PM_{10} SO_2 H_2SO_4	- - - -	283 (5) 363 8 29 13 2

Emission	Source	Air Contaminant	<u>Emissio</u>	n Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY	
UNIT 6 COMBINED CYCLE					
CC-S6A	GE Frame 7EA Natural Gas Fired 70 MW Turbine, Typical	NO _x CO	42 326	- -	
	High Load Operation (7) (With 285 MMBtu/yr Duct Burner)	VOC PM/PM ₁₀	18 15	-	
		SO_2 H_2SO_4	20 3.8	-	
		NH ₃	20	-	
CC-S6A	GE Frame 7EA Natural Gas	NO _x	180	-	
	Fired 70 MW Turbine Startup, Shutdown, and	CO VOC	518 18	- -	
	Low Loads (8) (With 285 MMBtu/hr	PM/PM_{10} SO_2	15 20	-	
	Duct Burner)	H_2SO_4	3.8	-	
CC-S6A	Annual Emissions from EPN CC-Se	$6A NO_x$ CO VOC PM/PM_{10} SO_2 H_2SO_4 NH_3	- - - - -	165 (6) 456 25 38 16 3.1 50	
CC-S6B	GE Frame 7EA Natural Gas Fired 70 MW Turbine, Typical High Load Operations (7) (With 285 MMBtu/hr Duct Burner)	NO_x CO VOC PM/PM_{10} SO_2 H_2SO_4 NH_3	42 326 18 15 20 3.8 20	- - - - -	

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emissi</u> lb/hr	on Rates * TPY
CC-S6B	GE Frame 7EA Natural Gas Fired 70 MW Turbine Start-up, Shutdown, and Low Loads (8) (With 285 MMBtu/hr Duct Burner)	NO_x CO VOC PM/PM_{10} SO_2 H_2SO_4	180 518 18 15 20 3.8	- - - -
CC-S6B	Annual Emissions from EPN CC-S	S6B NO $_{\rm x}$ CO VOC PM/PM $_{ m 10}$ SO $_{ m 2}$ H $_{ m 2}$ SO $_{ m 4}$ NH $_{ m 3}$	- - - - -	165 (6) 456 25 38 16 3.1 50
FIRE	Firewater Pump Engine	NO_x CO VOC PM/PM_{10} SO_2 H_2SO_4	9.3 2.0 0.8 0.7 0.1 <0.1	0.9 0.2 <0.1 <0.1 <0.1 <0.1
OTD-1	Diesel Storage Tank 1	VOC	<0.1	<0.1
OTD-2	Diesel Storage Tank 2	VOC	<0.1	<0.1
OTD-3	Diesel Storage Tank 3	VOC	<0.1	<0.1
LO-1	Gas Turbine GT-6A Lube Oil Ven	t VOC PM/PM ₁₀	<0.1 <0.1	0.2 0.2
LO-2	Gas Turbine GT-6B Lube Oil Ven	t VOC PM/PM ₁₀	<0.1 <0.1	0.2 0.2
LO-3	Steam Turbine Lube Oil Vent	VOC PM/PM ₁₀	<0.1 <0.1	0.2 0.2
FUG-6	Unit 6 Piping Fugitives (9)	VOC	0.3	1.5

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission	Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		H₂S	<0.1	0.1
		NH_3	0.5	2.2
		Cl_2	<0.1	0.4
OTA-1	Ammonia Storage Tank 1	NH ₃	<0.1	0.4
CT-1467-4	Cooling Tower 4	PM	5.94	26.04
		PM_{10}	0.38	1.67
		PM _{2.5}	0.01	0.03
		HOCI (4)	<0.1	<0.1
CT-1467-6	Cooling Tower 6	PM	1.49	6.51
		PM_{10}	0.10	0.42
		PM _{2.5}	0.002	0.01
		HOCI (4)	<0.1	<0.1
FUG-4	Unit 4 Fugitives (9)	VOC	0.5	2.2
		Cl_2	0.08	0.35

- (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

H₂SO₄ sulfuric acid

H₂S - hydrogen sulfide

NH₃ - anhydrous ammonia

SO₂ - sulfur dioxide

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

PM - particulate matter suspended in the atmosphere, including PM₁₀

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

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

Cl₂ - chlorine

HOCI - hypochlorous acid

(4) Inorganic compounds calculated as HOCI.

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EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

- (5) For Unit 6, the annual NO_x emissions for Simple Cycle Operations assumes up to 2,500 hours of startup, shutdown, and low load operation per turbine.
- (6) For Unit 6, the annual NO_x emissions after HRSG installation is determined assuming a limitation of 2,500 hours of simple cycle operation and up to 2,500 hours of startup, shutdown, and low load operation per turbine.
- (7) High Load Operation is defined in Special Condition No. 6(A)(1).
- (8) Low Load Operation is defined in Special Condition No. 6(A)(2).
- (9) 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 24 Days/week 7 Weeks/year 52 or Hrs/year 8,760

Dated August 20, 2010