Permit Numbers 45642, PSDTX979M1, and N036M1

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	Emission Rates	
		Name (3)	lbs/hour	TPY (4)
Turbine and Duct Bu	rner (Hourly Limits)		,	
ST-1	CTG1/HRSG1 (Westinghouse 501F Turbine with 725 MMBtu/hr Duct Burner)	NO _x (5)	24.30	
		СО	291.80	
	Third Base Barriery	PM ₁₀ (6)	33.90	
		VOC	35.70	
		SO ₂	31.90	
		NH ₃	25.20	
		H ₂ SO ₄	4.89	
		(NH ₄) ₂ SO ₄	6.59	
ST-2	CTG2/HRSG2 (Westinghouse 501F Turbine with 725 MMBtu/hr Duct Burner)	NO _x (5)	24.30	
		СО	291.80	
		PM ₁₀ (6)	33.90	
		VOC	35.70	
		SO ₂	31.90	
		NH₃	25.20	
		H₂SO₄	4.89	
		(NH ₄) ₂ SO ₄	6.59	

(CTG3/HRSG3 (Westinghouse 501F Turbine with 725 MMBtu/hr Duct Burner)	NO _x (5)	24.30	
		СО	291.80	
	Thin Bear Barrier,	PM ₁₀ (6)	33.90	
		VOC	35.70	
		SO ₂	31.90	
		NH₃	25.20	
		H ₂ SO ₄	4.89	
		(NH ₄) ₂ SO ₄	6.59	
ST-4	CTG4/HRSG4 (Westinghouse 501F	NO _x (5)	24.30	
	Turbine with 725 MMBtu/hr Duct Burner)	СО	291.80	
	IVIIVIBIANII Bact Barriery	PM ₁₀ (6)	33.90	
		VOC	35.70	
		SO ₂	31.90	
		NH₃	25.20	
		H ₂ SO ₄	4.89	
		(NH ₄) ₂ SO ₄	6.59	

ST-1	CTG1/HRSG1 (Westinghouse 501F Turbine with 725 MMBtu/hr Duct Burner)	NO _x (5)	350.00	
		СО	3500.00	
	William Back Barriery	PM ₁₀ (6)	33.90	
		VOC	183.49	
		SO ₂	31.90	
		NH₃	50.00	
		H ₂ SO ₄	4.89	
		(NH ₄) ₂ SO ₄	6.59	
ST-2	CTG2/HRSG2 (Westinghouse 501F Turbine with 725 MMBtu/hr Duct Burner)	NO _x (5)	350.00	
		СО	3500.00	
		PM ₁₀ (6)	33.90	
		VOC	183.49	
		SO ₂	31.90	
		NH₃	50.00	
		H ₂ SO ₄	4.89	
		(NH ₄) ₂ SO ₄	6.59	

ST-3	CTG3/HRSG3 (Westinghouse 501F Turbine with 725 MMBtu/hr Duct Burner)	NO _x (5)	350.00	
		СО	3500.00	
William Baot Barrony	PM ₁₀ (6)	33.90		

		1/00	100.40	
		VOC	183.49	
		SO ₂	31.90	
		NH_3	50.00	
		H ₂ SO ₄	4.89	
		(NH ₄) ₂ SO ₄	6.59	
ST-4	ST-4 CTG4/HRSG4 (Westinghouse 501F Turbine with 725 MMBtu/hr Duct Burner) -	NO _x (5)	350.00	
		СО	3500.00	
		PM ₁₀ (6)	33.90	
		VOC	183.49	
		SO ₂	31.90	
		NH_3	50.00	
		H ₂ SO ₄	4.89	
		(NH ₄) ₂ SO ₄	6.59	

Turbines and Duct Burners (Combined Annual Limits) (8)				
ST-1, ST-2, ST-3, and ST-4 CTG/HRSG1, CTG/HRSG2, CTG/HRSG3, and CTG/HRSG4		NO _x (9)		304.3
	CO (9)		1981.0	
		PM ₁₀ (6) (9)		377.5
		VOC (9)		61.6

_			
	SO ₂		30.0
	NH_3		341.4
	H ₂ SO ₄		4.59
	(NH ₄) ₂ SO ₄		6.18
Cooling Tower (10)	PM ₁₀	5.26	18.4
Piping Fugitives (10)	VOC	0.22	0.98
	NH ₃	0.53	2.3
Turbine Lubrication Fugitives (10)	VOC	0.032	0.14
MSS-Related	NO _x	<0.01	<0.01
r agilives (11)	СО	<0.01	<0.01
	VOC	3.52	0.02
	PM ₁₀ /PM _{2.5}	0.11	0.04
	NH₃	2.66	0.004
	Piping Fugitives (10) Turbine Lubrication Fugitives (10)	NH_{3} $H_{2}SO_{4}$ $(NH_{4})_{2}SO_{4}$ $Cooling Tower (10)$ $Piping Fugitives (10)$ VOC NH_{3} $Turbine Lubrication Fugitives (10)$ $MSS-Related Fugitives (11)$ CO VOC $PM_{10}/PM_{2.5}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

(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 carbon monoxide

 PM_{10} - total particulate matter (PM) equal to or less than 10 microns in diameter, including

PM_{2.5}, as represented

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

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

 SO_2 - sulfur dioxide NH_3 - ammonia H_2SO_4 - sulfuric acid $(NH_4)_2SO_4$ - ammonium sulfate

- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (5) The maximum lb/hr NO_x emission rate is based upon a rolling three-hour average concentration.
- (6) The PM/PM₁₀ values include $(NH_4)_2SO_4$ emissions.
- (7) For each pollutant whose emissions during planned MSS activities are measured using a CEMS, the MSS lb/hr limits apply only during each clock hour that includes one or more minutes of MSS activities. During all other clock hours, the normal lb/hr limits apply.
- (8) The tpy emission limit specified in the MAERT for this facility includes emissions from the facility during both normal operations and planned MSS activities.
- (9) The NO_X , CO, and PM_{10} emissions are regulated under PSDTX979 permit authorization. The NO_X and VOC emissions from ST-1, ST-2, ST-3, and ST-4 are regulated under N036 permit authorization.
- (10) The pound per hour and ton per year emission limits specified in the MAERT for this facility includes emissions from the facility during both normal operations and planned MSS activities.
- (11) These limits include hourly emissions from ILE activity (See Attachment A).

Date: December 9, 2011