Permit Numbers 45642, PSDTX979M2, and N036M2

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	
			lbs/hour	TPY (4)
Turbine	e and Duct Burner Hou	rly Emission Rates (Normal and	d MSS Operations) (8)	
We 725	CTG1/HRSG1	NO _x (6)	24.30	-
	Westinghouse 501F + 725 MMBtu/hr Duct	NO _x (MSS)	350.00	-
	Burner	CO (6)	291.80	-
		CO (MSS)	3500.00	-
		VOC	35.70	-
		VOC (MSS)	183.49	-
		PM/PM ₁₀ (7)	33.90	-
		SO ₂	31.90	-
		NH ₃	25.20	-
		NH ₃ (MSS)	50.00	-
		H ₂ SO ₄	4.89	-
		(NH ₄) ₂ SO ₄	6.59	-
	CTG2/HRSG2 Westinghouse 501F + 725 MMBtu/hr Duct Burner	NO _x (6)	24.30	-
		NO _x (MSS)	350.00	-
		CO (6)	291.80	-
		CO (MSS)	3500.00	-
		VOC	35.70	-
		VOC (MSS)	183.49	-
		PM/PM ₁₀ (7)	33.90	-
		SO ₂	31.90	-
		NH ₃	25.20	-
		NH ₃ (MSS)	50.00	-
		H ₂ SO ₄	4.89	-
		(NH ₄) ₂ SO ₄	6.59	-

Project Number: 324481

	CTG3/HRSG3 Westinghouse 501F + 725 MMBtu/hr Duct Burner	NO _x (6)	24.30	-
		NO _x (MSS)	350.00	-
		CO (6)	291.80	-
		CO (MSS)	3500.00	-
		VOC	35.70	-
		VOC (MSS)	183.49	-
		PM/PM ₁₀ (7)	33.90	-
		SO ₂	31.90	-
		NH ₃	25.20	-
		NH ₃ (MSS)	50.00	-
		H ₂ SO ₄	4.89	-
		(NH ₄) ₂ SO ₄	6.59	-
ST-4	CTG4/HRSG4 Westinghouse 501F + 725 MMBtu/hr Duct Burner	NO _x (6)	24.30	-
		NO _x (MSS)	350.00	-
		CO (6)	291.80	-
		CO (MSS)	3500.00	-
		VOC	35.70	-
		VOC (MSS)	183.49	-
		PM/PM ₁₀ (7)	33.90	-
		SO ₂	31.90	-
		NH ₃	25.20	-
		NH ₃ (MSS)	50.00	-
		H ₂ SO ₄	4.89	-
		(NH ₄) ₂ SO ₄	6.59	-

Tu	rbine and DB - Combine	d Annual Limits (Normal a	and MSS Operations) (9	9)
ST-1, ST-2, ST-3, and ST-4	CTG1/HRSG1, CTG2/HRSG2, CTG3/HRGS3, CTG4/HRSG4	NOx	-	304.3
		со	-	1981.0
		VOC	-	61.6
		PM/PM ₁₀ (7)	-	377.5
		SO ₂	-	30.0
		NH ₃	-	341.4
		H ₂ SO ₄	-	4.59
		(NH ₄) ₂ SO ₄	-	6.18
ST-5	CTG5/HRSG5	NO _x	19.50	64.74
	Siemens FD2 + 725 MMBtu/hr Duct Burner	NO _x (MSS)	350.00	-
		СО	281.0	289.15
		CO (MSS)	3500.00	-
		VOC	35.4	15.16
		VOC (MSS)	183.5	-
		PM/PM ₁₀ /PM _{2.5} (7)	29.7	74.80
		SO ₂	36.8	4.79
		NH ₃	25.2	83.88
		NH₃ (MSS)	50.00	-
		H ₂ SO ₄	5.64	0.73
		(NH ₄) ₂ SO ₄	7.60	0.99
CWT	Cooling Tower	РМ	3.13	10.96
		PM ₁₀	1.75	6.96
		PM _{2.5}	1.75	6.96
PIPEFUG	Piping Fugitives	VOC	0.23	1.00
		NH ₃	0.12	0.52
LUBEFUG	Turbine Lubrication Fugitives	VOC	0.04	0.17
MSSFUG	MSS-Related Fugitives (10)	NO _x	0.01	0.01

Project Number: 324481

MSSFUG	MSSFUG MSS-Related Fugitives	СО	0.01	0.01
		VOC	4.25	0.02
		PM	0.21	0.05
		PM ₁₀	0.21	0.05
		PM _{2.5}	0.21	0.05
		NH ₃	2.66	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

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

PM₁₀ - 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

 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) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) The maximum lb/hr NO_x and CO emission rates are based upon a rolling three-hour average.
- (7) The PM/PM₁₀ values include (NH₄)₂SO₄ emissions.
- (8) 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.
- (9) The tpy emission limit for this facility includes emission from the facility during both normal operations and planned MSS activities.
- (10) These limits include hourly emissions from ILE activity (See Attachment A of the Special Conditions).

Date:	March 3, 2021	

Project Number: 324481