Permit Numbers 42179, PSDTX955M1, and N021M1

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.

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission Rates *		
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY	
Turbine and Duct Burner (Hourly Limits)					
GTG/HRSG-1	Turbine/HRSG No. 1 (Combustion Turbine with 475 MMBtu/hr Duct Burner) (Normal Operation)	NO_x CO PM_{10} VOC SO_2 NH_3 H_2SO_4	32.1 346.0 29.4 26.9 31.4 28.0 4.8		
GTG/HRSG 2	Turbine/HRSG No. 2 (Combustion Turbine with 475 MMBtu/hr Duct Burner) [Normal Operation]	NO_x CO PM_{10} VOC SO_2 NH_3 H_2SO_4	32.1 346.0 29.4 26.9 31.4 28.0 4.8		
GTG/HRSG 3	Turbine/HRSG No. 3 (Combustion Turbine with 475 MMBtu/hr Duct Burner) [Normal Operation]	NO_x CO PM_{10} VOC SO_2 NH_3 H_2SO_4	32.1 346.0 29.4 26.9 31.4 20.0 4.8		

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * Ib/hr TPY		
Auxiliary Boilers (Hourly Limits)					
AUXBOIL1-2	Auxiliary Steam Boiler No. 1 or 2 (Rated at 430 MMBtu/hr) (The emission rates shown apply only when one of the units are in operation) [Normal Operation]	NO_x CO PM_{10} VOC $SO2$ H_2SO_4	22.8 26.2 7.6 7.6 6.23 0.95		
AUXBOIL1-2	Auxiliary Steam Boiler Nos. 1 and 2 (The emission rates shown apply only when both units are in operation) [Normal Operations] (4)	NO_x CO PM_{10} VOC SO_2 H_2SO_4	45.6 52.4 15.2 15.2 12.5 1.9		
AUXBOIL3	Auxiliary Steam Boiler No. 3 (Rated at 430 MMBtu/hr) [Normal Operations]	NO_x CO PM_{10} VOC SO_2 H_2SO_4	22.8 26.2 7.6 7.6 6.23 0.95		
Turbines, Duct Burners, and Auxiliary Boilers (Combined Annual Limits)					
GTG/HRSG1 - 3 and AUXBOIL1 - 3	Turbine/HRSG1 through 3 and Auxiliary Boilers 1 through 3	NO_x^{**} CO^{**} PM_{10}^{**} VOC^{**} SO_2 NH_3 H_2SO_4		372.0 1377.0 263.0 145.1 31.4 298.8 4.8	

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contamin Name (3)	ant <u>Emissio</u> lb/hr	n Rates * TPY
Turbines, Duct Operations)	Burners, and Auxiliary Boilers	(Maintenance,	Start-up and	Shutdown
GTG/HRSG 1	Turbine/HRSG No. 1 (Combustion Turbine with 475 MMBtu/hr Duct Burner) (3-Hour Average Limit During Maintenance, Start-up, and Shutdown Operations) (5)	NO_x CO PM_{10} VOC SO_2 NH_3 H_2SO_4	1286.2 698.0 29.4 26.9 31.4 28.0 4.8	
GTG/HRSG 2	Turbine/HRSG No. 2 (Combustion Turbine with 475 MMBtu/hr Duct Burner) (3-Hour Average Limit During Maintenance, Start-up, and Shutdown Operations) (5)	NO_x CO PM_{10} VOC SO_2 NH_3 H_2SO_4	1286.2 698.0 29.4 26.9 31.4 28.0 4.8	
GTG/HRSG 3	Turbine/HRSG No. 3 (Combustion Turbine with 475 MMBtu/hr Duct Burner) [3-Hour Average Limit During Maintenance, Start-up, and Shutdown Operations] (5)	NO_x CO PM_{10} VOC SO_2 NH_3 H_2SO_4	1286.2 698.0 29.4 26.9 31.4 20.0 4.8	
AUXBOIL1-2	Auxiliary Steam Boiler No. 1 or 2 (Rated at 430 MMBtu/hr) [3-Hour Average Limit during Maintenance, Start-up, and Shutdown Operations] (5)	$\begin{array}{ccc} P & NO_x & PM_{10} & PM_{10$	93.8 26.2 7.6 7.6 6.23 0.95	

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
AUXBOIL1-2	Auxiliary Steam Boiler No. 1 and 2 [Each Rated at 430 MMBtu/hr (The emission rates shown apply only when both units are operating. 3-Hour Average Limit during Planned Maintenance, Start and Shutdown Operations] (5)	NO_x CO PM_{10})VOC SO_2 H_2SO_4	197.6 52.4 15.2 15.2 12.46 1.90	
AUXBOIL3	Auxiliary Steam Boiler No. 3 (Rated at 430 MMBtu/hr) [3-Hour Average Limit during Maintenance, Start-up, and Shutdown Operations] (5) Cooling Tower 1	$\begin{array}{c} NO_x \\ CO \\ PM_{10} \\ VOC \\ SO_2 \\ H_2SO_4 \end{array}$	93.8 26.2 7.6 7.6 6.23 0.95	
COOLTWR1	Cooling Tower 1	PM ₁₀	1.22	3.13
LUBEOILFUG	Lubricating Oil System Fugitives (6)	VOC	0.101	0.44
FUELGASFUG	Fuel Gas System (6)	VOC	0.18	0.79
NH3FUG	Ammonia Fugitives (6)	NH ₃	0.011	0.05
OILDEMIST	Oil Mist Eliminator (All turbines)	VOC	0.024	0.12

⁽¹⁾ Emission point identification - either specific equipment designation or emission point number from a plot plan.

CO - carbon monoxide

 PM_{10} - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no

PM greater than 10 microns is emitted.

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

SO₂ - sulfur dioxide

NH₃ - ammonia

H₂SO₄ - sulfuric acid mist

⁽²⁾ Specific point source names. For fugitive sources use area name or fugitive source name.

⁽³⁾ NO_x - total oxides of nitrogen

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EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

- (4) The combined emission rates for Auxiliary Boilers 1 and 2 are only applicable when both units are operational.
- (5) Planned Maintenance, Start-up, and Shutdown (MSS) emissions do not affect annual limits.
- (6) Fugitive emissions are an estimate only
- * The maximum lb/hr NO_x emission rate is based upon a rolling three-hour average concentration. The lb/hr NO_x emission rate listed above represents a maximum three-hour average pound per hour emission rate.
- ** The NO_x, CO, and PM₁₀ emissions regulated under PSD-TX-955 permit authorization.

The NO_x and VOC emissions regulated under N021 permit authorization.



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