

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 47318 and PSD-TX-1009

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 Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY
CTG01	Combined Cycle Combustion Turbine Generator/HRSG Duct Burner No. 1 (100 Percent Load)	NO _x	43.7	191.4
		CO	62.6	274.2
		PM/PM ₁₀	25.4	111.0
		VOC	7.6	33.3
		SO ₂	13.3	58.3
		NH ₃	22.6	99.0
		H ₂ SO ₄ 1.3	5.8	
		Formaldehyde	0.87	1.01
		Ammonium Sulfate	1.4	5.9
CTG02	Combined Cycle Combustion Turbine Generator/HRSG Duct Burner No. 2 (100 Percent Load)	NO _x	43.7	191.4
		CO	62.6	274.2
		PM/PM ₁₀	25.4	111.0
		VOC	7.6	33.3
		SO ₂	13.3	58.3
		NH ₃	22.6	99.0
		H ₂ SO ₄ 1.3	5.8	
		Formaldehyde	0.87	1.01
		Ammonium Sulfate	1.4	5.9
CTG03	Combined Cycle Combustion Turbine Generator/HRSG Duct Burner No. 3 (100 Percent Load)	NO _x	43.7	191.4
		CO	62.6	274.2
		PM/PM ₁₀	25.4	111.0
		VOC	7.6	33.3
		SO ₂	13.3	58.3
		NH ₃	22.6	99.0
		H ₂ SO ₄ 1.3	5.8	
		Formaldehyde	0.87	1.01
		Ammonium Sulfate	1.4	5.9

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY
SUB	Auxiliary Boiler	NO _x	3.2	4.8
		CO	2.9	4.4
		PM/PM ₁₀	0.2	0.3
		VOC	0.94	0.25
		SO ₂	0.24	0.35
HTR01	Heater 01	NO _x	0.25	1.1
		CO	0.46	2.0
		PM/PM ₁₀	0.04	0.16
		VOC	0.25	1.0
		SO ₂	0.01	0.13
HTR02	Heater 02	NO _x	0.25	1.1
		CO	0.46	2.0
		PM/PM ₁₀	0.04	0.16
		VOC	0.25	1.0
		SO ₂	0.01	0.13
HTR03	Heater 03	NO _x	0.25	1.1
		CO	0.46	2.0
		PM/PM ₁₀	0.04	0.16
		VOC	0.25	1.0
		SO ₂	0.01	0.13
DEG	Diesel Standby Generator	NO _x	28.6	7.15
		CO	8.4	2.1
		PM/PM ₁₀	1.1	0.28
		VOC	0.71	0.19
		SO ₂	3.0	0.75
TK1	Sulfuric Acid Tank	H ₂ SO ₄	0.01	0.01
TKDEG	Diesel Storage Tank for Standby Generator	VOC	0.01	0.01
TKDFP	Diesel Storage Tank for	VOC	0.01	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
	Fire Water Pump			
DFP	Diesel Fire Water Pump	NO _x	3.91	0.98
		CO	0.17	0.05
		PM/PM ₁₀	0.04	0.01
		VOC	0.14	0.34
		SO ₂	0.39	0.1
CT1	Cooling Tower 1	PM/PM ₁₀	2.0	8.9
CT2	Cooling Tower 2	PM/PM ₁₀	2.0	8.9
CT3	Cooling Tower 3	PM/PM ₁₀	2.0	8.9

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

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

(3) NO_x - total oxides of nitrogen

CO - carbon monoxide

PM - particulate matter, suspended in the atmosphere, including PM₁₀.

PM₁₀ - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter 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

NOTE: NO_x, CO, VOC, SO₂ and PM₁₀ emissions regulated under PSD-TX-1009 permit authorization.

Dated _____