

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 110423 and PSDTX1366

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)
CT-1 (Option 1)	Unit 1 (GE 7FA.03) (Option 1) Normal Operation	NO _x	62.34	-
		CO	37.95	-
		VOC	13.28	-
		SO ₂	27.40	-
		PM	25.15	-
		PM ₁₀	25.15	-
		PM _{2.5}	25.15	-
		H ₂ SO ₄	12.59	-
CT-1 (Option 1)	Unit 1 (GE 7FA.03) (Option 1) MSS Operation	NO _x	66.50	-
		CO	477.60	-
		VOC	36.00	-
		SO ₂	27.40	-
		PM	25.15	-
		PM ₁₀	25.15	-
		PM _{2.5}	25.15	-
		H ₂ SO ₄	12.59	-

Emission Sources - Maximum Allowable Emission Rates

CT-1 (Option 1)	Unit 1 (GE 7FA.03) (Option 1) All Operation (Normal+MSS)	NO _x	-	52.68
		CO	-	132.27
		VOC	-	16.24
		SO ₂	-	20.57
		PM	-	22.98
		PM ₁₀	-	22.98
		PM _{2.5}	-	22.98
		H ₂ SO ₄	-	9.45
CT-2 (Option 1)	Unit 2 (GE 7FA.03) (Option 1) Normal Operation	NO _x	62.34	-
		CO	37.95	-
		VOC	13.28	-
		SO ₂	27.40	-
		PM	25.15	-
		PM ₁₀	25.15	-
		PM _{2.5}	25.15	-
		H ₂ SO ₄	12.59	-
CT-2 (Option 1)	Unit 2 (GE 7FA.03) (Option 1) MSS Operation	NO _x	66.50	-
		CO	477.60	-
		VOC	36.00	-
		SO ₂	27.40	-
		PM	25.15	-
		PM ₁₀	25.15	-
		PM _{2.5}	25.15	-
		H ₂ SO ₄	12.59	-
CT-2 (Option 1)	Unit 2 (GE 7FA.03) (Option 1)	NO _x	-	52.68

Emission Sources - Maximum Allowable Emission Rates

		CO	-	132.27
		VOC	-	16.24
		SO ₂	-	20.57
		PM	-	22.98
		PM ₁₀	-	22.98
		PM _{2.5}	-	22.98
		H ₂ SO ₄	-	9.45
CT-1 (Option 2)	Unit 1 (GE 7FA.05) (Option 2) Normal Operation	NO _x	63.62	-
		CO	38.73	-
		VOC	3.00	-
		SO ₂	28.33	-
		PM	26.83	-
		PM ₁₀	26.83	-
		PM _{2.5}	26.83	-
		H ₂ SO ₄	13.02	-
CT-1 (Option 2)	Unit 1 (GE 7FA.05) (Option 2) MSS Operation	NO _x	66.50	-
		CO	477.60	-
		VOC	36.00	-
		SO ₂	28.33	-
		PM	26.83	-
		PM ₁₀	26.83	-
		PM _{2.5}	26.83	-
		H ₂ SO ₄	13.02	-

Emission Sources - Maximum Allowable Emission Rates

CT-1 (Option 2)	Unit 1 (GE 7FA.05) (Option 2) All Operation (Normal+MSS)	NO _x	-	78.82
		CO	-	148.18
		VOC	-	11.25
		SO ₂	-	35.42
		PM	-	33.54
		PM ₁₀	-	33.54
		PM _{2.5}	-	33.54
		H ₂ SO ₄	-	16.27
CT-2 (Option 2)	Unit 2 (GE 7FA.05) (Option 2) Normal Operation	NO _x	63.62	-
		CO	38.73	-
		VOC	3.00	-
		SO ₂	28.33	-
		PM	26.83	-
		PM ₁₀	26.83	-
		PM _{2.5}	26.83	-
		H ₂ SO ₄	13.02	-
CT-2 (Option 2)	Unit 2 (GE 7FA.05) (Option 2) MSS Operation	NO _x	66.50	-
		CO	477.60	-
		VOC	36.00	-
		SO ₂	28.33	-
		PM	26.83	-
		PM ₁₀	26.83	-
		PM _{2.5}	26.83	-
		H ₂ SO ₄	13.02	-
CT-2 (Option 2)	Unit 2 (GE 7FA.05) (Option 2)	NO _x	-	78.82

Emission Sources - Maximum Allowable Emission Rates

		CO	-	148.18
		VOC	-	11.25
		SO ₂	-	35.42
		PM	-	33.54
		PM ₁₀	-	33.54
		PM _{2.5}	-	33.54
		H ₂ SO ₄	-	16.27
CTLV1	Combustion Turbine 1 Lube Oil Vent	VOC	0.09	0.40
		PM	0.09	0.40
		PM ₁₀	0.09	0.40
		PM _{2.5}	0.09	0.40
CTLV2	Combustion Turbine 2 Lube Oil Vent	VOC	0.09	0.40
		PM	0.09	0.40
		PM ₁₀	0.09	0.40
		PM _{2.5}	0.09	0.40
NGFUG	Natural Gas Fugitives	VOC	0.01	0.02
FWP (5)	250 Hp Diesel-fired, Fire Water Pump	NO _x	1.36	0.07
		CO	0.66	0.03
		VOC	0.03	<0.01
		SO ₂	0.03	<0.01
		PM	0.06	<0.01
		PM ₁₀	0.06	<0.01
		PM _{2.5}	0.06	<0.01
MSS FUG	MSS Fugitives	NO _x	<0.01	<0.01
		CO	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

		VOC	0.07	<0.01
		PM	0.09	0.02
		PM ₁₀	0.09	0.02
		PM _{2.5}	0.09	0.02

- (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}
 PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}
 PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
 CO - carbon monoxide
 H₂SO₄ sulfuric acid
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) The allowable emission rates include planned maintenance, startup, and shutdown activities.

Date: August 1, 2014