

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 41941 and PSDTX948

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)	Emission Rates	
			lb/hr	TPY*
Turbine Only (Hourly Limits)				
STACK1	GE-7FA Turbine 1A	NO _x	64.0	
		CO	32.0	
		VOC	3.0	
		PM/PM ₁₀ /PM _{2.5}	13.2	
		SO ₂	27.17	
		H ₂ SO ₄	3.33	
STACK2	GE-7FA Turbine 1B	NO _x	64.0	
		CO	32.0	
		VOC	3.0	
		PM/PM ₁₀ /PM _{2.5}	13.2	
		SO ₂	27.17	
		H ₂ SO ₄	3.33	
Turbine Only (Maintenance, Startup, and Shutdown)				
STACK1	GE-7FA Turbine 1A	NO _x	275.0	
		CO	2890.0	
		VOC	183.0	
		PM/PM ₁₀ /PM _{2.5}	18.0	
		SO ₂	15.4	
		H ₂ SO ₄	1.89	
STACK2	GE-7FA Turbine 1B	NO _x	275.0	
		CO	2890.0	
		VOC	183.0	
		PM/PM ₁₀ /PM _{2.5}	18.0	
		SO ₂	15.4	
		H ₂ SO ₄	1.89	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY*
Turbine and Duct Burner (Hourly Limits)				
STACK1	GE-7FA Turbine 1A with 300 MM Btu/hr Duct Burner	NO _x	88.0	
		CO	62.0	
		VOC	4.7	
		PM/PM ₁₀ /PM _{2.5}	16.2	
		SO ₂	31.5	
		H ₂ SO ₄	3.85	
STACK2	GE-7FA Turbine 1B with 300 MM Btu/hr Duct Burner	NO _x	88.0	
		CO	62.0	
		VOC	4.7	
		PM/PM ₁₀ /PM _{2.5}	16.2	
		SO ₂	31.5	
		H ₂ SO ₄	3.85	
Turbine and Duct Burner (Annual Limits)				
STACK1 and STACK2	GE-7FA Turbine 1A with 300 MM Btu/hr Duct Burner and GE-7FA Turbine 1B with 300 MM Btu/hr Duct Burner	NO _x		604.08
		CO		416.50
		VOC		39.26
		PM/PM ₁₀ /PM _{2.5}		129.69
		SO ₂		36.42
		H ₂ SO ₄		4.46
CTG1A-OV	Turbine 1A Oil Mist Vent (4)	VOC	0.03	0.13
		PM/PM ₁₀ /PM _{2.5}	0.03	0.13
CTG1B-OV	Turbine 1B Oil Mist Vent (4)	VOC	0.03	0.13
		PM/PM ₁₀ /PM _{2.5}	0.03	0.13
TOSHIBA	Steam Turbine Oil Mist Vent	VOC	0.03	0.13
		PM/PM ₁₀ /PM _{2.5}	0.03	0.13
FWP-1	Firewater Pump Engine (5)	NO _x	1.74	0.10
		CO	0.16	0.01

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			lb/hr	TPY*
		VOC	0.10	0.01
		PM/PM ₁₀ /PM _{2.5}	0.05	<0.01
		SO ₂	0.12	0.01
		H ₂ SO ₄	0.02	<0.01
TANK-1	Diesel Storage Tank	VOC	0.025	<0.01
D-GEN	Generator Engine	NO _x	29.93	0.18
		CO	0.33	0.02
		VOC	0.02	<0.01
		PM/PM ₁₀ /PM _{2.5}	0.03	<0.01
		SO ₂	0.18	0.01
		H ₂ SO ₄	0.03	<0.01
D-GEN FUG	Generator Engine Crankcase	VOC	0.01	<0.01
		PM/PM ₁₀ /PM _{2.5}	0.01	<0.01
FUG-1	Natural Gas, Condensate, and Oil Fugitives (6)	VOC	0.76	3.33
		H ₂ S	<0.01	<0.01
CTOWER-1	Cooling Tower 1	PM/PM ₁₀ /PM _{2.5}	2.45	10.72
		HOCl	0.06	0.28
		HCl	0.04	0.19
		H ₂ SO ₄	<0.01	<0.01
		VOC	0.02	0.07
LOADING	Natural Gas Condensate Truck Loading	VOC	10.86	<0.01
		H ₂ S	0.10	<0.01
SCAVTK1	Hydrogen Scavenging Tank Vent for Unit 1A	VOC	0.03	0.13
		PM/PM ₁₀ /PM _{2.5}	0.03	0.13
SCAVTK2	Hydrogen Scavenging Tank Vent for Unit 1B	VOC	0.03	0.13
		PM/PM ₁₀ /PM _{2.5}	0.03	0.13
CONDTK-1	Condensate Storage Tank No. 1	VOC	0.09	0.36
		H ₂ S	<0.01	<0.01

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- (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 an 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 - particulate matter
- PM₁₀ - particulate matter equal to or less than 10 microns in diameter
- PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
- CO - carbon monoxide
- H₂SO₄ - sulfuric acid
- H₂S - hydrogen sulfide
- HCl - hydrochloric acid
- HOCl - hypochlorous acid
- (4) Turbine oil mist vent emissions are an estimate only based on estimates from mist vent eliminatory manufacturer data.
- (5) Emissions are based on normal operation of 120 operating hours per year.
- (6) Fugitive emissions are an estimate based on component count and applicable fugitive emission factors.

Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

* Compliance with annual emission limits is based on a rolling 12-month period.

Dated: August 19, 2010