

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 111393 and PSDTX1368

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	
			lb/hr (4)	TPY (5)
U1-STK	Combustion Turbine Unit 1 (MHI J)/HRSG/ Duct Burners	NO _x	24.54	139.59
		NO _x (MSS)	213.29	-
		CO	30.05	900.06
		CO (MSS)	3760.35	-
		VOC	17.17	529.16
		VOC (MSS)	2220.00	-
		PM	18.48	56.90
		PM ₁₀	18.48	56.90
		PM _{2.5}	18.48	56.90
		SO ₂	9.44	9.72
		NH ₃	31.93	131.45
		H ₂ SO ₄	4.34	4.46
		(NH ₄) ₂ SO ₄	5.84	6.02
CT1LOV-VNT	Combustion Turbine Unit 1 Lube Oil Vent	VOC	0.06	0.27
		PM	0.06	0.27
		PM ₁₀	0.06	0.27
		PM _{2.5}	0.06	0.27
ST1LOV-VNT	Steam Turbine 1 Lube Oil Vent	VOC	0.06	0.27
		PM	0.06	0.27
		PM ₁₀	0.06	0.27

Emission Sources - Maximum Allowable Emission Rates

		PM _{2.5}	0.06	0.27
COOLTWR 1	Cooling Tower	PM	1.24	5.43
		PM ₁₀	0.74	3.22
		PM _{2.5}	<0.01	0.01
AUXBLR1	Auxiliary Boiler	NO _x	1.21	0.91
		NO _x (MSS)	2.86	-
		CO	4.07	3.05
		CO (MSS)	13.70	-
		VOC	0.59	0.44
		PM	0.82	0.61
		PM ₁₀	0.82	0.61
		PM _{2.5}	0.82	0.61
		SO ₂	0.30	0.06
VOC-FUG	VOC Fugitives (6)	VOC	0.14	0.62
NH ₃ -FUG	Ammonia Fugitives (6)	NH ₃	0.06	0.25
FWP1-STK	Fire Water Pump	NO _x	1.50	0.08
		CO	0.14	0.01
		VOC	0.09	0.01
		PM	0.07	<0.01
		PM ₁₀	0.07	<0.01
		PM _{2.5}	0.07	<0.01
		SO ₂	<0.01	<0.01
DSL-TK1	Diesel Tank 1	VOC	0.02	<0.01
MSS-FUG	Planned Maintenance Activities (6)	NO _x	<0.01	<0.01
		CO	<0.01	<0.01

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	VOC	11.80	0.81
	PM	0.10	0.01
	PM ₁₀	0.10	0.01
	PM _{2.5}	0.10	0.01
	NH ₃	<0.01	<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
- H₂SO₄ - sulfuric acid
- (NH₄)₂SO₄ - ammonium sulfate
- NH₃ - ammonia
- (4) Planned maintenance, startup and shutdown (MSS) lb/hr emissions for all pollutants are authorized even if not specifically identified as MSS. During any clock hour that includes one or more minutes of planned MSS, that pollutant's maximum hourly emission rate shall apply during that clock hour.
- (5) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (6) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date: November 20, 2014