

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 84289, PSDTX1125, and N75

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)
CTG-1	GE Combustion Turbine and Duct Burner	NO _x	20.68	95.97
		NO _x (5)	194.40	--
		CO	15.73	191.24
		CO (5)	2280.00	--
		VOC (6)	5.21	23.00
		VOC (5)	129.72	--
		SO ₂	59.90	23.29
		PM	16.94	59.02
		PM ₁₀	16.94	59.02
		PM _{2.5}	16.94	59.02
		H ₂ SO ₄	5.99	2.33
		NH ₃	45.78	177.48
CTG-2	GE Combustion Turbine and Duct Burner	NO _x	20.68	95.97
		NO _x (5)	194.40	--
		CO	15.73	191.24
		CO (5)	2280.00	--
		VOC (6)	5.21	23.00
		VOC (5)	129.72	--
		SO ₂	59.90	23.29
		PM	16.94	59.02
		PM ₁₀	16.94	59.02
		PM _{2.5}	16.94	59.02
		H ₂ SO ₄	5.99	2.33
		NH ₃	45.78	177.48
AUX-1	Auxiliary Boiler	NO _x	0.90	3.94
		CO	7.38	32.32
		PM	0.63	2.76
		PM ₁₀	0.63	2.76
		PM _{2.5}	0.63	2.76
		VOC (6)	0.50	2.19
		SO ₂	0.06	0.26

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CTWR-1	Cooling Tower	PM	1.45	6.35
		PM ₁₀	1.45	6.35
ENG-1	Diesel-Fired Emergency Generator Engine	NO _x	26.61	6.65
		CO	14.75	3.69
		VOC	1.89	0.47
		PM	1.88	0.47
		PM ₁₀	1.88	0.47
		PM _{2.5}	1.88	0.47
		SO ₂	0.33	0.08
ENG-2	Diesel-Fired Emergency Firewater Engine	NO _x	1.54	0.39
		CO	1.67	0.42
		VOC	0.63	0.16
		PM	0.55	0.14
		PM ₁₀	0.55	0.14
		PM _{2.5}	0.55	0.14
		SO ₂	0.51	0.13
TK-ENG1	ENG-1 Fuel Tank	VOC	0.14	0.01
TK-ENG2	ENG-2 Fuel Tank	VOC	0.01	0.01
OWSEP	API Separator	VOC	0.01	0.01
FUG-1	Site Fugitives (7)	VOC	0.04	0.16
		NH ₃	0.31	1.38
LOR-1	Lube Oil Reservoir Vapor Extractor Vent for (CTG1)	VOC	0.01	0.01
LOR-2	Lube Oil Reservoir Vapor Extractor Vent for (CTG2)	VOC	0.01	0.01
LOR-3	Lube Oil Reservoir Vapor Extractor Vent for (STG1)	VOC	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)
 - NO_x - total oxides of nitrogen
 - CO - carbon monoxide
 - VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code (TAC) § 101.1
 - SO₂ - sulfur dioxide
 - PM - particulate matter emissions, as defined in Title 30 TAC § 101.1, including PM₁₀ and PM_{2.5}
 - PM₁₀ - particulate matter emissions equal to or less than 10 microns in diameter, including PM_{2.5}
 - PM_{2.5} - direct particulate matter emissions equal to or less than 2.5 microns in diameter
 - NH₃ - ammonia
 - H₂SO₄ - sulfuric acid

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HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act of Title 40 Code of Federal Regulations Part 63, Subpart C

- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (5) Emission limits during startup, shutdown, and reduced load events. Startup, shutdown, and reduced load emissions are included in annual ton per year (TPY) emissions.
- (6) This limit includes 9.90 TPY of HAPs combined from both turbines (CTG1 and CTG2) and the auxiliary boiler (AUX-1).
- (7) Fugitive emission rates are estimates only and are should not be considered as a maximum allowable emission rate.

* Emission rates are based on and facilities are limited by the following maximum operating schedule:

____Hrs/day ____Days/week ____Weeks/year or 8,760 Hrs/year

Date: August 22, 2014