

Emission Sources - Maximum Allowable Emission Rates

Permit Number GHGPSDTX112

This table lists the maximum allowable emission rates of greenhouse gas (GHG) emissions, as defined in Title 30 Texas Administrative Code § 101.1, for all sources of GHG air contaminants on the applicant's property that are authorized 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 authorized by this permit.

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates
			TPY (4)
CTDB3-A	GE Model 7HA.02 Combustion Turbine (CT) and 770 MMBtu/hr Duct Burner	CO ₂	1,975,187
		CH ₄	37
		N ₂ O	3.7
		CO ₂ e	1,977,194
CTDB3-B	GE Model 7HA.02 CT and 770 MMBtu/hr Duct Burner	CO ₂	1,975,187
		CH ₄	37
		N ₂ O	3.7
		CO ₂ e	1,977,194
FWP2	Fire Water Pump 250 Horsepower Diesel Engine	CO ₂	16.4
		CH ₄	<0.1
		N ₂ O	<0.1
		CO ₂ e	16.5
EG3	2.0 MW Emergency Generator Diesel Engine	CO ₂	155.3
		CH ₄	<0.1
		N ₂ O	<0.1
		CO ₂ e	156
AUX3	Auxiliary Boiler 40 MMBtu/hr	CO ₂	20,494
		CH ₄	0.4
		N ₂ O	<0.1
		CO ₂ e	20,515
SF6-FUG	SF ₆ Insulated Equipment (5)	SF ₆	0.003
		CO ₂ e	66
NG-FUG	Natural Gas Piping Fugitives (5)	CH ₄	19
		CO ₂	1.7
		CO ₂ e	476.3
MSS FUG	Natural Gas Venting from CT Shutdown and CT, Small Equipment, and Component Maintenance (5)	CH ₄	0.1
		CO ₂	<0.1
		CO ₂ e	2.5
Total Sitewide GHG Emissions (6)		CO ₂	3,971,041

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	CH ₄	92.7
	N ₂ O	7.4
	SF ₆	0.003
	CO ₂ e	3,975,621

- (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) CO₂ - carbon dioxide
N₂O - nitrous oxide
CH₄ - methane
SF₆ - sulfur hexafluoride
CO₂e - carbon dioxide equivalents, based on the following Global Warming Potentials from 40 CFR Part 98, subpart A, Table A-1, effective January 1, 2015: CO₂ (1), CH₄ (25), N₂O (298), and SF₆ (22,800)
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period. Annual emission limits include both normal and maintenance, startup, and shutdown (MSS) emissions.
- (5) Fugitive emission rates are estimates and are enforceable through compliance with the applicable special conditions and permit application representations.
- (6) Total emissions include the potential to emit for all listed sources. Totals are given for informational purposes only and do not constitute emission limits.

Date: April 1, 2015