

# Emission Sources - Maximum Allowable Emission Rates

Permit Number GHGPSDTX41M1

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)
TURB1	Natural Gas-Fired Simple Cycle Turbine	CO <sub>2</sub>	532,007.00
		CH <sub>4</sub>	125.00
		N <sub>2</sub> O	13.30
		CO <sub>2</sub> e	539,094
EMERGEN	Diesel Emergency Generator	CO <sub>2</sub>	128.00
		CH <sub>4</sub>	0.01
		N <sub>2</sub> O	No Numerical Limit Established (6)
		CO <sub>2</sub> e	128
NGHEATR-2	Natural Gas-Fired Fuel Gas Heater	CO <sub>2</sub>	1,479.00
		CH <sub>4</sub>	0.03
		N <sub>2</sub> O	0.03
		CO <sub>2</sub> e	1,488
SF6-FUG	Fugitive SF <sub>6</sub> Circuit Breaker Emissions (5)	SF <sub>6</sub>	No Numerical Limit Established (7)
		CO <sub>2</sub> e	No Numerical Limit Established (7)
NG-FUG	Natural Gas Fugitives (5)	CH <sub>4</sub>	No Numerical Limit Established (7)
		CO <sub>2</sub> e	No Numerical Limit Established (7)
TURB2	Natural Gas-Fired Simple Cycle Turbine	CO <sub>2</sub>	532,007.00
		CH <sub>4</sub>	125.00
		N <sub>2</sub> O	13.30
		CO <sub>2</sub> e	539,094
TURB3	Natural Gas-Fired Simple	CO <sub>2</sub>	532,007.00

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		CH <sub>4</sub>	125.00
		N <sub>2</sub> O	13.30
		CO <sub>2</sub> e	539,094
TURB4	Natural Gas-Fired Simple Cycle Turbine	CO <sub>2</sub>	532,007.00
		CH <sub>4</sub>	125.00
		N <sub>2</sub> O	13.30
		CO <sub>2</sub> e	539,094
EMERGEN2	Emergency Diesel Generator	CO <sub>2</sub>	128.00
		CH <sub>4</sub>	0.01
		N <sub>2</sub> O	No Numerical Limit Established (6)
		CO <sub>2</sub> e	128
EMERGEN3	Emergency Diesel Generator	CO <sub>2</sub>	128.00
		CH <sub>4</sub>	0.01
		N <sub>2</sub> O	No Numerical Limit Established (6)
		CO <sub>2</sub> e	128
EMERGEN4	Emergency Diesel Generator	CO <sub>2</sub>	128.00
		CH <sub>4</sub>	0.01
		N <sub>2</sub> O	No Numerical Limit Established (6)
		CO <sub>2</sub> e	128
NGHEATR-2A	Natural Gas-Fired Fuel Gas Heater	CO <sub>2</sub>	1,479.00
		CH <sub>4</sub>	0.03
		N <sub>2</sub> O	0.03
		CO <sub>2</sub> e	1,488
NGHEATR-3	Natural Gas-Fired Fuel Gas Heater	CO <sub>2</sub>	1,479.00

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		CH <sub>4</sub>	0.03
		N <sub>2</sub> O	0.03
		CO <sub>2</sub> e	1,488
NGHEATR-4	Natural Gas-Fired Fuel Gas Heater	CO <sub>2</sub>	1,479.00
		CH <sub>4</sub>	0.03
		N <sub>2</sub> O	0.03
		CO <sub>2</sub> e	1,488
Total Sitewide GHG Emissions (8)		CO <sub>2</sub>	2,134,456
		CH <sub>4</sub>	511.1
		N <sub>2</sub> O	53.4
		SF <sub>6</sub>	0.01
		CO <sub>2</sub> e	2,163,366

- (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) CO<sub>2</sub> - carbon dioxide  
N<sub>2</sub>O - nitrous oxide  
CH<sub>4</sub> - methane  
SF<sub>6</sub> - sulfur hexafluoride  
CO<sub>2</sub>e - carbon dioxide equivalents based on the following Global Warming Potentials (11/2014):  
CO<sub>2</sub> (x), N<sub>2</sub>O (298), CH<sub>4</sub>(25), SF<sub>6</sub> (22,800)
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period. These rates include emissions from maintenance, startup, and shutdown.
- (5) Fugitive emission rates are estimates and are enforceable through compliance with the applicable special conditions and permit application representations.
- (6) No numerical limit established because emissions are 0.01 tons/yr or less.
- (7) Fugitive leak emissions from SF6-FUG and NG-FUG are estimated to be 0.011 TPY SF<sub>6</sub> and 249.66 TPY CO<sub>2</sub>e from SF6-FUG, and 0.22 TPY CO<sub>2</sub>, 11.0 TPY CH<sub>4</sub>, and 275.07 TPY CO<sub>2</sub>e from NG-FUG. In lieu of an emission limit, the emissions will be limited by implementing a design / work practice standard as specified in the Special Conditions.
- (8) 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: May 20, 2015