

# Emission Sources - Maximum Allowable Emission Rates

Permit Number GHGPSDTX124

This table lists the maximum allowable emission rates of greenhouse gas (GHG) emissions, as defined in Title 30 Texas Administrative Code § 101.1, for sources of air contaminants on the applicant's property authorized by this permit. 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)
Turbine Option 1 – GE			
DC-CTS5 DC-CTHS5	Unit 5 Turbine – GE 7FA.05 Combined Cycle	N <sub>2</sub> O (5)	2
		CH <sub>4</sub> (5)	24
		CO <sub>2</sub> (5)	1,283,747
		CO <sub>2</sub> e	1,285,052
DC-CTS6 DC-CTHS6	Unit 6 Turbine – GE 7FA.05 Combined Cycle	N <sub>2</sub> O (5)	2
		CH <sub>4</sub> (5)	24
		CO <sub>2</sub> (5)	1,283,747
		CO <sub>2</sub> e	1,285,052
Turbine Option 2 – Siemens			
DC-CTS5 DC-CTHS5	Unit 5 Turbine – Siemens SGT6-5000F(5)/(5)ee	N <sub>2</sub> O (5)	3
		CH <sub>4</sub> (5)	28
		CO <sub>2</sub> (5)	1,498,890
		CO <sub>2</sub> e	1,500,414
DC-CTS6 DC-CTHS6	Unit 6 Turbine – Siemens SGT6-5000F(5)/(5)ee	N <sub>2</sub> O (5)	3
		CH <sub>4</sub> (5)	28
		CO <sub>2</sub> (5)	1,498,890
		CO <sub>2</sub> e	1,500,414
Ancillary Emissions			
DC-ABS	Auxiliary Boiler	N <sub>2</sub> O (5)	<1
		CH <sub>4</sub> (5)	<1

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		CO <sub>2</sub> (5)	17,136
		CO <sub>2</sub> e	17154
DC-EDGV	Emergency Generator	N <sub>2</sub> O (5)	<1
		CH <sub>4</sub> (5)	<1
		CO <sub>2</sub> (5)	77
		CO <sub>2</sub> e	77
DC-DFPV	Fire Water Pump	N <sub>2</sub> O (5)	<1
		CH <sub>4</sub> (5)	<1
		CO <sub>2</sub> (5)	16
		CO <sub>2</sub> e	16
DC-NGFUG	Natural Gas Fugitives	CH <sub>4</sub> (5)	1
		CO <sub>2</sub> (5)	<1
		CO <sub>2</sub> e	33
DC-SF <sub>6</sub> FUG	SF <sub>6</sub> Insulated Equipment	SF <sub>6</sub> (5)	<1
		CO <sub>2</sub> e	23
DC-MSSFUG	Units 5 and 6 Planned Maintenance Activities Fugitives (5)	CH <sub>4</sub> (5)	6
		CO <sub>2</sub> (5)	<1
		CO <sub>2</sub> e	143

- (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) CH<sub>4</sub> - methane  
CO<sub>2</sub> - carbon dioxide  
CO<sub>2</sub>e - carbon dioxide equivalents based on the following Global Warming Potentials (1/2015):  
CO<sub>2</sub> (1), N<sub>2</sub>O (298), CH<sub>4</sub> (25), and SF<sub>6</sub> (22,800).  
N<sub>2</sub>O - nitrous oxide  
SF<sub>6</sub> - sulfur hexafluoride
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period. These annual limits apply only those emission rates associated with combined cycle operations including, MSS.
- (5) Emission rate is given for informational purposes only and does not constitute enforceable limit.

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Date: October 3, 2016