## Emission Sources - Maximum Allowable Emission Rates

## Permit Number GHGPSDTX122

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
		Name (3)	TPY (4)
Option 1			
1	Combustion Turbine 1/ Duct	CO <sub>2</sub> (5)	1,563,232
	Burner 1 (GE 7HA.01, 2x1)	CH <sub>4</sub> (5)	427
		N <sub>2</sub> O (5)	3.17
		CO <sub>2</sub> e	1,574,841
2	Combustion Turbine 2/ Duct	CO <sub>2</sub> (5)	1,563,232
	Burner 2 (GE 7HA.01, 2x1)	CH <sub>4</sub> (5)	427
		N <sub>2</sub> O (5)	3.17
		CO <sub>2</sub> e	1,574,841
Option 2	•		
1	Combustion Turbine 1/ Duct	CO <sub>2</sub> (5)	1,933,759
	Burner 1 (GE 7HA.02, 2x1)	CH <sub>4</sub> (5)	367
		N <sub>2</sub> O (5)	3.92
		CO <sub>2</sub> e	1,944,091
2	Combustion Turbine 2/ Duct	CO <sub>2</sub> (5)	1,933,759
	Burner 2 (GE 7HA.02, 2x1)	CH <sub>4</sub> (5)	367
		N <sub>2</sub> O (5)	3.92
		CO <sub>2</sub> e	1,944,091
Option 3	•	•	•
1	Combustion Turbine 1/ Duct	CO <sub>2</sub> (5)	1,388,349
	Burner 1 (GE 7FA.05, 2x1)	CH <sub>4</sub> (5)	920
	,	N <sub>2</sub> O (5)	2.81
		CO <sub>2</sub> e	1,412,194

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2	Combustion Turbine 2/ Duct	CO <sub>2</sub> (5)	1,388,349
	Burner 2 (GE 7FA.05, 2x1)	CH <sub>4</sub> (5)	920
		N <sub>2</sub> O (5)	2.81
		CO <sub>2</sub> e	1,412,194
Option 4	,		<u>'</u>
1	Combustion Turbine 1/ Duct	CO <sub>2</sub> (5)	1,434,703
	Burner 1 (MHI 501GAC, 2x1)	CH <sub>4</sub> (5)	812
	,	N <sub>2</sub> O (5)	2.91
		CO <sub>2</sub> e	1,455,867
2	Combustion Turbine 2/ Duct	CO <sub>2</sub> (5)	1,434,703
	Burner 2 (MHI 501GAC, 2x1)	CH <sub>4</sub> (5)	812
	,	N <sub>2</sub> O (5)	2.91
		CO <sub>2</sub> e	1,455,867
Option 5	·	<u> </u>	·
1	Combustion Turbine 1/ Duct	CO <sub>2</sub> (5)	1,434,703
	Burner 1 [MHI 501GAC,	CH <sub>4</sub> (5)	812
	two 1x1]	N <sub>2</sub> O (5)	2.91
		CO₂e	1,455,867
2	Combustion Turbine 2/ Duct	CO <sub>2</sub> (5)	1,434,703
	Burner 2 [MHI 501GAC,	CH <sub>4</sub> (5)	812
	two 1x1]	N <sub>2</sub> O (5)	2.91
		CO₂e	1,455,867
Option 6	·	<u> </u>	·
1	Combustion Turbine 1/ Duct	CO <sub>2</sub> (5)	1,496,689
	Burner 1 [Siemens SCC6-8000H(1.4),	CH <sub>4</sub> (5)	619
	2x1]	N <sub>2</sub> O (5)	3.03
		CO <sub>2</sub> e	1,513,068
2	Combustion Turbine 2/ Duct	CO <sub>2</sub> (5)	1,496,689
	Burner 2 [Siemens SCC6-8000H(1.4),	CH <sub>4</sub> (5)	619
	2x1]	N <sub>2</sub> O (5)	3.03

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		CO <sub>2</sub> e	1,513,068
3	Auxiliary Boiler	CO <sub>2</sub> (5)	38,427
		CH <sub>4</sub> (5)	0.72
		N <sub>2</sub> O (5)	0.066
		CO <sub>2</sub> e	38,465
4	Emergency Generator	CO <sub>2</sub> (5)	228
		CH <sub>4</sub> (5)	0.01
		N <sub>2</sub> O (5)	0.01
		CO <sub>2</sub> e	229
5	Fire Pump Engine	CO <sub>2</sub> (5)	43
		CH <sub>4</sub> (5)	0.01
		N <sub>2</sub> O (5)	0.01
		CO <sub>2</sub> e	43
10	Dew Point Heater	CO <sub>2</sub> (5)	5,124
		CH <sub>4</sub> (5)	0.09
		N <sub>2</sub> O (5)	0.01
		CO <sub>2</sub> e	5,129
11	Fugitive Emissions - Natural	CH <sub>4</sub> (5)	0.01
	Gas	CO <sub>2</sub> e	0.34
11	Fugitive Emissions – Circuit	SF <sub>6</sub> (5)	0.01
	Breakers	CO <sub>2</sub> e	1.03

(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)  $CO_2$  - carbon dioxide  $N_2O$  - nitrous oxide  $CH_4$  - methane

SF<sub>6</sub> - sulfur hexafluoride

CO<sub>2</sub>e - carbon dioxide equivalents based on the following Global Warming Potentials (1/2015): CO<sub>2</sub> (x), N<sub>2</sub>O (298), CH<sub>4</sub> (25), SF<sub>6</sub> (22,800), HFC (various), PFC (various)

- (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) Emission rate is given for informational purposes only and does not constitute enforceable limit.

Date: March 18, 2016
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