

# Emission Sources - Maximum Allowable Emission Rates

Permit Number GHGPSDTX104

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)
Option 1			
SRB51b	Phase I (6) GE 7FA Simple Cycle	N <sub>2</sub> O (5)	1
		CH <sub>4</sub> (5)	6
		CO <sub>2</sub> (5)	327,766
		CO <sub>2</sub> e	328,104
SRB52b	Phase I (6) GE 7FA Simple Cycle	N <sub>2</sub> O (5)	1
		CH <sub>4</sub> (5)	6
		CO <sub>2</sub> (5)	327,766
		CO <sub>2</sub> e	328,104
SRB51 and SRB51b	Phase II (7) GE 7FA Combined Cycle + Simple Cycle	N <sub>2</sub> O (5)	2
		CH <sub>4</sub> (5)	23
		CO <sub>2</sub> (5)	1,204,201
		CO <sub>2</sub> e	1,205,444
SRB52 and SRB52b	Phase II (7) GE 7FA Combined Cycle + Simple Cycle	N <sub>2</sub> O (5)	2
		CH <sub>4</sub> (5)	23
		CO <sub>2</sub> (5)	1,204,201
		CO <sub>2</sub> e	1,205,444
Option 2			

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SRB51b	Phase I (6) GE 7HA Simple Cycle	N <sub>2</sub> O (5)	1
		CH <sub>4</sub> (5)	9
		CO <sub>2</sub> (5)	477,247
		CO <sub>2</sub> e	477,740
SRB52b	Phase I (6) GE 7HA Simple Cycle	N <sub>2</sub> O (5)	1
		CH <sub>4</sub> (5)	9
		CO <sub>2</sub> (5)	477,247
		CO <sub>2</sub> e	477,740
SRB51 and SRB51b	Phase II (7) GE 7HA Combined Cycle + Simple Cycle	N <sub>2</sub> O (5)	3
		CH <sub>4</sub> (5)	31
		CO <sub>2</sub> (5)	1,658,338
		CO <sub>2</sub> e	1,660,052
SRB52 and SRB52b	Phase II (7) GE 7HA Combined Cycle + Simple Cycle	N <sub>2</sub> O (5)	3
		CH <sub>4</sub> (5)	31
		CO <sub>2</sub> (5)	1,658,338
		CO <sub>2</sub> e	1,660,052
Option 3			
SRB51b	Phase I (6) Siemens F5 Simple Cycle	N <sub>2</sub> O (5)	1
		CH <sub>4</sub> (5)	6
		CO <sub>2</sub> (5)	342,927
		CO <sub>2</sub> e	343,281
SRB52b	Phase I (6) Siemens F5 Simple Cycle	N <sub>2</sub> O (5)	1
		CH <sub>4</sub> (5)	6
		CO <sub>2</sub> (5)	342,927
		CO <sub>2</sub> e	343,281

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SRB51 and SRB51b	Phase II (7) Siemens F5 Combined Cycle + Simple Cycle	N <sub>2</sub> O (5)	3
		CH <sub>4</sub> (5)	25
		CO <sub>2</sub> (5)	1,319,406
		CO <sub>2</sub> e	1,320,768
SRB52 and SRB52b	Phase II (7) Siemens F5 Combined Cycle + Simple Cycle	N <sub>2</sub> O (5)	3
		CH <sub>4</sub> (5)	25
		CO <sub>2</sub> (5)	1,319,406
		CO <sub>2</sub> e	1,320,768
Option 4			
SRB51b	Phase I (6) MHI 501G Simple Cycle	N <sub>2</sub> O (5)	1
		CH <sub>4</sub> (5)	8
		CO <sub>2</sub> (5)	426,760
		CO <sub>2</sub> e	427,201
SRB52b	Phase I (6) MHI 501G Simple Cycle	N <sub>2</sub> O (5)	1
		CH <sub>4</sub> (5)	8
		CO <sub>2</sub> (5)	426,760
		CO <sub>2</sub> e	427,201
SRB51 and SRB51b	Phase II (7) MHI 501G Combined Cycle + Simple Cycle	N <sub>2</sub> O (5)	3
		CH <sub>4</sub> (5)	28
		CO <sub>2</sub> (5)	1,484,639
		CO <sub>2</sub> e	1,486,172
SRB52 and SRB52b	Phase II (7) MHI 501G Combined Cycle + Simple Cycle	N <sub>2</sub> O (5)	3
		CH <sub>4</sub> (5)	28
		CO <sub>2</sub> (5)	1,484,639
		CO <sub>2</sub> e	1,486,172

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Ancillary Emissions			
AUX-BLR	Auxiliary Boiler	N <sub>2</sub> O (5)	<1
		CH <sub>4</sub> (5)	<1
		CO <sub>2</sub> (5)	18,716
		CO <sub>2</sub> e	18,736
FUG-NGAS	Natural Gas Fugitives	CH <sub>4</sub> (5)	19
		CO <sub>2</sub> e	469
FUG-SF <sub>6</sub>	Circuit Breaker Insulation Fugitives	SF <sub>6</sub> (5)	<1
		CO <sub>2</sub> e	17
FUG-MSS	Miscellaneous MSS Activities	CH <sub>4</sub> (5)	8
		CO <sub>2</sub> e	205

- (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 (11/2014): 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 emission rates include maintenance, startup, and shutdown.
- (5) Emission rate is given for informational purposes only and does not constitute enforceable limit.
- (6) Phase I emission rates will not apply after completion of the initial compliance test for Phase II operations.
- (7) Phase II emission rates apply upon completion of the initial compliance test for Phase II operations.

Date: September 15, 2015