

Emission Sources - Maximum Allowable Emission Rates

Permit Number GHGPSDTX102

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			
CBY51b	Phase I (6) GE 7FA Simple Cycle	N ₂ O (5)	1
		CH ₄ (5)	6
		CO ₂ (5)	327,766
		CO ₂ e	328,104
CBY52b	Phase I (6) GE 7FA Simple Cycle	N ₂ O (5)	1
		CH ₄ (5)	6
		CO ₂ (5)	327,766
		CO ₂ e	328,104
CBY51 and CBY51b	Phase II (7) GE 7FA Combined Cycle + Simple Cycle	N ₂ O (5)	2
		CH ₄ (5)	23
		CO ₂ (5)	1,204,201
		CO ₂ e	1,205,444
CBY52 and CBY52b	Phase II (7) GE 7FA Combined Cycle + Simple Cycle	N ₂ O (5)	2
		CH ₄ (5)	23
		CO ₂ (5)	1,204,201
		CO ₂ e	1,205,444
Option 2			

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CBY51b	Phase I (6) GE 7HA Simple Cycle	N ₂ O (5)	1
		CH ₄ (5)	9
		CO ₂ (5)	477,247
		CO ₂ e	477,740
CBY52b	Phase I (6) GE 7HA Simple Cycle	N ₂ O (5)	1
		CH ₄ (5)	9
		CO ₂ (5)	477,247
		CO ₂ e	477,740
CBY51 and CBY51b	Phase II (7) GE 7HA Combined Cycle + Simple Cycle	N ₂ O (5)	3
		CH ₄ (5)	31
		CO ₂ (5)	1,658,338
		CO ₂ e	1,660,052
CBY52 and CBY52b	Phase II (7) GE 7HA Combined Cycle + Simple Cycle	N ₂ O (5)	3
		CH ₄ (5)	31
		CO ₂ (5)	1,658,338
		CO ₂ e	1,660,052
Option 3			
CBY51b	Phase I (6) Siemens F5 Simple Cycle	N ₂ O (5)	1
		CH ₄ (5)	6
		CO ₂ (5)	342,927
		CO ₂ e	343,281
CBY52b	Phase I (6) Siemens F5 Simple Cycle	N ₂ O (5)	1
		CH ₄ (5)	6
		CO ₂ (5)	342,927
		CO ₂ e	343,281

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CBY51 and CBY51b	Phase II (7) Siemens F5 Combined Cycle + Simple Cycle	N ₂ O (5)	3
		CH ₄ (5)	25
		CO ₂ (5)	1,319,406
		CO ₂ e	1,320,768
CBY52 and CBY52b	Phase II (7) Siemens F5 Combined Cycle + Simple Cycle	N ₂ O (5)	3
		CH ₄ (5)	25
		CO ₂ (5)	1,319,406
		CO ₂ e	1,320,768
Option 4			
CBY51b	Phase I (6) MHI 501G Simple Cycle	N ₂ O (5)	1
		CH ₄ (5)	8
		CO ₂ (5)	426,760
		CO ₂ e	427,201
CBY52b	Phase I (6) MHI 501G Simple Cycle	N ₂ O (5)	1
		CH ₄ (5)	8
		CO ₂ (5)	426,760
		CO ₂ e	427,201
CBY51 and CBY51b	Phase II (7) MHI 501G Combined Cycle + Simple Cycle	N ₂ O (5)	3
		CH ₄ (5)	28
		CO ₂ (5)	1,484,639
		CO ₂ e	1,486,172
CBY52 and CBY52b	Phase II (7) MHI 501G Combined Cycle + Simple Cycle	N ₂ O (5)	3
		CH ₄ (5)	28
		CO ₂ (5)	1,484,639
		CO ₂ e	1,486,172

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Ancillary Emissions			
AUX-BLR	Auxiliary Boiler	N ₂ O (5)	<1
		CH ₄ (5)	<1
		CO ₂ (5)	18,716
		CO ₂ e	18,736
FUG-NGAS	Natural Gas Fugitives	CH ₄ (5)	19
		CO ₂ e	469
FUG-SF ₆	Circuit Breaker Insulation Fugitives	SF ₆ (5)	<1
		CO ₂ e	17
FUG-MSS	Miscellaneous MSS Activities	CH ₄ (5)	8
		CO ₂ 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) CH₄ - methane
CO₂ - carbon dioxide
CO₂e - carbon dioxide equivalents based on the following Global Warming Potentials (11/2014): CO₂ (1), N₂O (298), CH₄ (25), and SF₆ (22,800).
N₂O - nitrous oxide
SF₆ - 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