

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 160538 and PSDTX1582

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered 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 covered by this permit.

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
CBY51	Combustion Turbine 1 (5) Simple Cycle	NO _x	38.10	65.14
		CO	29.54	113.53
		CO (MSS)	256.70	
		VOC	7.25	24.33
		VOC (MSS)	62.83	
		PM	19.28	27.49
		PM ₁₀	19.28	27.49
		PM _{2.5}	19.28	27.49
		SO ₂	10.81	10.16
		H ₂ SO ₄	7.12	6.69
		NH ₃	51.31	95.64
CBY51	Combustion Turbine 1 (5) Combined Cycle	NO _x	32.29	122.86
		NO _x (MSS)	43.96	
		CO	34.40	150.29
		CO (MSS)	533.40	
		VOC	5.63	24.28
		VOC (MSS)	76.83	
		PM	37.33	95.99
		PM ₁₀	37.33	95.99
		PM _{2.5}	37.33	95.99
		SO ₂	12.90	24.07
		H ₂ SO ₄	9.31	16.23
		NH ₃	41.83	156.99
CBY51-LOV	CTG Lube Oil Vent	VOC	<0.01	0.01
		PM	<0.01	0.01
		PM ₁₀	<0.01	0.01

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		PM _{2.5}	<0.01	0.01
CBYST-LOV	Steam Turbine 1 Lube Oil Vent	VOC	<0.01	0.01
		PM	<0.01	0.01
		PM ₁₀	<0.01	0.01
		PM _{2.5}	<0.01	0.01
AUX-BLR	Auxiliary Boiler	NO _x	3.25	3.25
		CO	3.29	3.29
		VOC	0.48	0.48
		PM	0.66	0.66
		PM ₁₀	0.66	0.66
		PM _{2.5}	0.66	0.66
		SO ₂	0.25	0.12
GAS-HTR	Dewpoint Heater	NO _x	0.12	0.51
		CO	0.36	1.57
		VOC	0.03	0.14
		PM	0.05	0.21
		PM ₁₀	0.05	0.21
		PM _{2.5}	0.05	0.21
		SO ₂	0.03	0.06
C-TOWER1	Cooling Tower	PM	24.21	106.03
		PM ₁₀	0.08	0.33
		PM _{2.5}	<0.01	<0.01
GEN	Diesel Generator Combined Cycle Option	NO _x	2.20	0.55
		CO	11.51	2.88
		VOC	0.18	0.05
		PM	0.10	0.02
		PM ₁₀	0.10	0.02
		PM _{2.5}	0.10	0.02
		SO ₂	0.02	0.01
GENSC	Diesel Generator Simple Cycle Option	NO _x	1.98	0.50
		CO	10.36	2.59

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		VOC	0.16	0.04
		PM	0.09	0.02
		PM ₁₀	0.09	0.02
		PM _{2.5}	0.09	0.02
		SO ₂	0.02	0.01
DSL-TNK	Diesel Generator Tank	VOC	0.02	<0.01
FUG-SCR	Ammonia Fugitives (6)	NH ₃	0.02	0.10
FUG-NGAS	Natural Gas Fugitives (6)	VOC	<0.01	0.01
FUG-MSS	Planned Maintenance Activity Fugitives	NO _x	<0.01	<0.01
		CO	<0.01	<0.01
		VOC	0.12	<0.01
		PM	0.05	<0.01
		PM ₁₀	0.05	<0.01
		PM _{2.5}	0.05	<0.01
		NH ₃	<0.01	<0.01

- (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)
 - NO_x - total oxides of nitrogen
 - CO - carbon monoxide
 - VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 - PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}
 - PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}
 - PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
 - SO₂ - sulfur dioxide
 - H₂SO₄ - sulfuric acid
 - MSS - maintenance, startup, and shutdown
 - NH₃ - ammonia
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (5) Planned maintenance, startup and shutdown (MSS) emissions for all pollutants are authorized even if not specifically identified as MSS. During any clock hour that includes one or more minutes of planned MSS that pollutant's maximum hourly emission rate shall apply during that clock hour.
- (6) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date: _____

Emission Sources - Maximum Allowable Emission Rates

Permit Number GHGPDTX204

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	
			lbs/hour	TPY (4)
CBY51	Combustion Turbine 1 Simple Cycle	N ₂ O (5)	-	2
		CH ₄ (5)	-	16
		CO ₂ (5)	-	864,837
		CO ₂ e	-	865,716
CBY51	Combustion Turbine 1 Combined Cycle	N ₂ O (5)	-	4
		CH ₄ (5)	-	38
		CO ₂ (5)	-	2,052,556
		CO ₂ e	-	2,054,642
AUX-BLR	Auxiliary Boiler	N ₂ O (5)	-	<1
		CH ₄ (5)	-	<1
		CO ₂ (5)	-	10,415
		CO ₂ e	-	10,426
GAS-HTR	Dewpoint Heater	N ₂ O (5)	-	<1
		CH ₄ (5)	-	<1
		CO ₂ (5)	-	4,966
		CO ₂ e	-	4,971
GEN	Diesel Generator Combined Cycle Option	N ₂ O (5)	-	<1
		CH ₄ (5)	-	<1
		CO ₂ (5)	-	590
		CO ₂ e	-	592
GENSC	Diesel Generator Simple Cycle Option	N ₂ O (5)	-	<1
		CH ₄ (5)	-	<1
		CO ₂ (5)	-	528
		CO ₂ e	-	530

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FUG-NGAS	Natural Gas Fugitives	CH ₄ (5)	-	3
		CO ₂ (5)	-	<1
		CO ₂ e	-	56
SF6FUG	SF6 Insulated Equipment	CO ₂ e	-	24
		SF ₆	-	<1
FUG-MSS	Planned Maintenance Activity Fugitives	CH ₄ (5)	-	<1
		CO ₂ (5)	-	<1
		CO ₂ e	-	3

- (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) N₂O - nitrous oxide
CH₄ - methane
CO₂ - carbon dioxide
CO₂e - carbon dioxide equivalents based on the following Global Warming Potentials (1/2015):
CO₂ (1), N₂O (298), CH₄ (25), SF₆ (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) Emission rate is given for informational purposes only and does not constitute enforceable limit.

Date: _____