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_2SO_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_2SO_4	9.31	16.23
		NH_3	41.83	156.99

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0.01				
		PM	<0.01	0.01
		PM_{10}	<0.01	0.01
		$PM_{2.5}$	<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

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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
		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 PM_{10} and $PM_{2.5}$
PM_{10} - 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
SO_2 - sulfur dioxide
H_2SO_4 - sulfuric acid
MSS - maintenance, startup, and shutdown
NH_3 - ammonia

Emission Sources - Maximum Allowable Emission Rates

(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: March 17, 2021

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_2O (5)	-	2
		CH_4 (5)	-	16
		CO_2 (5)	-	864,837
		CO_2e	-	865,716
CBY51	Combustion Turbine 1 Combined Cycle	N_2O (5)	-	4
		CH_4 (5)	-	38
		CO_2 (5)	-	2,052,556
		CO_2e	-	2,054,642
AUX-BLR	Auxiliary Boiler	N_2O (5)	-	<1
		CH_4 (5)	-	<1
		CO_2 (5)	-	10,415
		CO_2e	-	10,426
GAS-HTR	Dewpoint Heater	N_2O (5)	-	<1
		CH_4 (5)	-	<1
		CO_2 (5)	-	4,966
		CO_2e	-	4,971
GEN	Diesel Generator Combined Cycle Option	N_2O (5)	-	<1
		CH_4 (5)	-	<1
		CO_2 (5)	-	590
		CO_2e	-	592

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<1				
		CH_4 (5)	-	<1
		CO_2 (5)	-	528
		CO_2e	-	530
FUG-NGAS	Natural Gas Fugitives	CH_4 (5)	-	3
		CO_2 (5)	-	<1
		CO_2e	-	56
SF6FUG	SF6 Insulated Equipment	CO_2e	-	24
		SF_6	-	<1
FUG-MSS	Planned Maintenance Activity Fugitives	CH_4 (5)	-	<1
		CO_2 (5)	-	<1
		CO_2e	-	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) N_2O - nitrous oxide
CH_4 - methane
CO_2 - carbon dioxide
CO_2e - carbon dioxide equivalents based on the following Global Warming Potentials (1/2015): CO_2 (1), N_2O (298), CH_4 (25), SF_6 (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: March 17, 2021