

Emission Sources - Maximum Allowable Emission Rates

Permit Number 110025 and PSDTX1364

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 (4)	
			lb/hr	TPY (5)
GT-1	Alstom CTG (230.7 MW) + 409 MMBtu DB	NO _x	19.70	87.54
		NO _x (MSS)	56.00	-
		CO	11.90	68.57
		CO (TE)	43.53	-
		CO (MSS)	64.50	-
		VOC	6.80	74.36
		VOC (TE)	64.53	-
		VOC (MSS)	121.40	-
		PM	16.40	71.83
		PM ₁₀	16.40	71.83
		PM _{2.5}	16.40	71.83
		SO ₂	8.20	9.20
		NH ₃	25.20	110.38
		H ₂ SO ₄	2.60	11.39
		CH ₂ O	0.30	1.30

Emission Sources - Maximum Allowable Emission Rates

GT-2	Alstom 230.7 MW CTG + 409 MMBtu DB	NO _x	19.70	87.54
		NO _x (MSS)	56.00	-
		CO	11.90	68.57
		CO (TE)	43.53	-
		CO (MSS)	64.50	-
		VOC	6.80	74.36
		VOC (TE)	64.53	-
		VOC (MSS)	121.40	-
		PM	16.40	71.83
		PM ₁₀	16.40	71.83
		PM _{2.5}	16.40	71.83
		SO ₂	8.20	9.20
		NH ₃	25.20	110.38
		H ₂ SO ₄	2.60	11.39
		CH ₂ O	0.30	1.30
GT-3	Alstom 230.7 MW CTG + 409 MMBtu DB	NO _x	19.70	87.54
		NO _x (MSS)	56.00	-
		CO	11.90	68.57
		CO (TE)	43.53	-
		CO (MSS)	64.50	-
		VOC	6.80	74.36
		VOC (TE)	64.53	-
		VOC (MSS)	121.40	-
		PM	16.40	71.83
		PM ₁₀	16.40	71.83

Emission Sources - Maximum Allowable Emission Rates

		PM _{2.5}	16.40	71.83
		SO ₂	8.20	9.20
		NH ₃	25.20	110.38
		H ₂ SO ₄	2.60	11.39
		CH ₂ O	0.30	1.30
GT-4	Alstom 230.7 MW CTG + 409 MMBtu DB	NO _x	19.70	87.54
		NO _x (MSS)	56.00	-
		CO	11.90	68.57
		CO (TE)	43.53	-
		CO (MSS)	64.50	-
		VOC	6.80	74.36
		VOC (TE)	64.53	-
		VOC (MSS)	121.40	-
		PM	16.40	71.83
		PM ₁₀	16.40	71.83
		PM _{2.5}	16.40	71.83
		SO ₂	8.20	9.20
		NH ₃	25.20	110.38
		H ₂ SO ₄	2.60	11.39
		CH ₂ O	0.30	1.30
CT-1	Cooling Tower 1	PM	5.57	24.39
		PM ₁₀	0.25	1.09
		PM _{2.5}	0.25	1.09
CT-2	Cooling Tower 2	PM	5.57	24.39
		PM ₁₀	0.25	1.09

Emission Sources - Maximum Allowable Emission Rates

		PM _{2.5}	0.25	1.09
FWP-1	Emergency Firewater Pump 1	NO _x	2.43	0.06
		CO	0.57	0.01
		VOC	0.06	<0.01
		PM	0.09	<0.01
		PM ₁₀	0.09	<0.01
		PM _{2.5}	0.09	<0.01
		SO ₂	<0.01	<0.01
FWP-2	Emergency Firewater Pump 2	NO _x	2.43	0.06
		CO	0.57	0.01
		VOC	0.06	<0.01
		PM	0.09	<0.01
		PM ₁₀	0.09	<0.01
		PM _{2.5}	0.09	<0.01
		SO ₂	<0.01	<0.01
EG-1	Emergency Generator 1	NO _x	19.71	0.51
		CO	2.56	0.07
		VOC	0.20	0.01
		PM	0.38	0.01
		PM ₁₀	0.38	0.01
		PM _{2.5}	0.38	0.01
		SO ₂	0.01	<0.01
EG-2	Emergency Generator 2	NO _x	19.71	0.51
		CO	2.56	0.07
		VOC	0.20	0.01

Emission Sources - Maximum Allowable Emission Rates

		PM	0.38	0.01
		PM ₁₀	0.38	0.01
		PM _{2.5}	0.38	0.01
		SO ₂	0.01	<0.01
DIESEL-1	Diesel Storage Tank 1	VOC	0.05	<0.01
DIESEL-2	Diesel Storage Tank 2	VOC	0.05	<0.01
DIESEL-3	Diesel Storage Tank 3	VOC	0.05	<0.01
DIESEL-4	Diesel Storage Tank 4	VOC	0.05	<0.01
FUG-NH ₃	Ammonia Piping Fugitives (6)	NH ₃	0.88	3.85
FUG-NGAS	Natural Gas Fugitives (6)	VOC	0.13	0.58

- (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) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- NO_x - total oxides of nitrogen
- SO₂ - sulfur dioxide
- PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
- PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
- PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
- CO - carbon monoxide
- H₂SO₄ - sulfuric acid
- H₂CO - formaldehyde
- NH₃ - ammonia
- MSS - maintenance, startup, and shutdown emissions
- TE - transitional emissions
- (4) Planned maintenance, startup and shutdown (MSS) and transitional lb/hour emissions for all pollutants are authorized even if not specifically identified as MSS or transitional. During any clock hour that includes one or more minutes of planned MSS or transitional, that pollutant's maximum hourly emission rate shall apply during that clock hour.
- (5) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period. Annual emission rates for each source include planned MSS emissions and TE, unless otherwise noted.
- (6) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date: March 24, 2014