

Emission Sources - Maximum Allowable Emission Rates

Permit Number 9346 and PSDTX612M2

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 (4) (5)	TPY (4) (6)
CG801	Replacement Gas Turbine Only	NO _x	17.46	76.48
		NO _x (7)	170.00	-
		CO	31.89	139.67
		CO (7)	450.00	-
		VOC	1.89	8.26
		VOC (7)	15.5	-
		SO ₂	0.66	2.91
		PM	4.50	19.71
		PM ₁₀	4.50	19.71
		PM _{2.5}	3.90	17.08
		H ₂ SO ₄	0.07	0.29
		HAPs	0.60	-
CG802	Replacement Gas Turbine Only	NO _x	17.46	76.48
		NO _x (7)	170.00	-
		CO	31.89	139.67
		CO (7)	450.00	-
		VOC	1.89	8.26
		VOC (7)	15.5	-
		SO ₂	0.66	2.91
		PM	4.50	19.71

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		PM ₁₀	4.50	19.71
		PM _{2.5}	3.90	17.08
		H ₂ SO ₄	0.07	0.29
		HAPs	0.60	-
CG803	Replacement Gas Turbine Only	NO _x	17.46	76.48
		NO _x (7)	170.00	-
		CO	31.89	139.67
		CO (7)	450.00	-
		VOC	1.89	8.26
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		PM	4.50	19.71
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		PM _{2.5}	3.90	17.08
		H ₂ SO ₄	0.07	0.29
		HAPs	0.60	-
CG804	Replacement Gas Turbine Only	NO _x	17.46	76.48
		NO _x (7)	170.00	-
		CO	31.89	139.67
		CO (7)	450.00	-
		VOC	1.89	8.26
		VOC (7)	15.5	-
		SO ₂	0.66	2.91
		PM	4.50	19.71
		PM ₁₀	4.50	19.71

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		PM _{2.5}	3.90	17.08
		H ₂ SO ₄	0.07	0.29
		HAPs	0.60	-
CG801	Replacement Gas Turbine and Duct Burner Firing	NO _x	18.68	81.83
		NO _x (7)	171.22	-
		CO	38.53	168.74
		CO (7)	456.64	-
		VOC	2.55	11.17
		VOC (7)	16.16	-
		SO ₂	0.76	3.34
		PM	5.74	25.12
		PM ₁₀	5.74	25.12
		PM _{2.5}	5.14	22.50
		H ₂ SO ₄	0.08	0.33
		HAPs	0.91	-
CG802	Replacement Gas Turbine and Duct Burner Firing	NO _x	18.68	81.83
		NO _x (7)	171.22	-
		CO	38.53	168.74
		CO (7)	456.64	-
		VOC	2.55	11.17
		VOC (7)	16.16	-
		SO ₂	0.76	3.34
		PM	5.74	25.12
		PM ₁₀	5.74	25.12
		PM _{2.5}	5.14	22.50

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		H ₂ SO ₄	0.08	0.33
		HAPs	0.91	-
CG803	Replacement Gas Turbine and Duct Burner Firing	NO _x	18.68	81.83
		NO _x (7)	171.22	-
		CO	38.53	168.74
		CO (7)	456.64	-
		VOC	2.55	11.17
		VOC (7)	16.16	-
		SO ₂	0.76	3.34
		PM	5.74	25.12
		PM ₁₀	5.74	25.12
		PM _{2.5}	5.14	22.50
		H ₂ SO ₄	0.08	0.33
		HAPs	0.91	-
CG804	Replacement Gas Turbine and Duct Burner Firing	NO _x	18.68	81.83
		NO _x (7)	171.22	-
		CO	38.53	168.74
		CO (7)	456.64	-
		VOC	2.55	11.17
		VOC (7)	16.16	-
		SO ₂	0.76	3.34
		PM	5.74	25.12
		PM ₁₀	5.74	25.12
		PM _{2.5}	5.14	22.50
		H ₂ SO ₄	0.08	0.33

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		HAPs	0.91	-
BO1	New Boiler 1	NO _x	5.50	17.95
		NO _x (7)	165.00	-
		CO	20.35	66.41
		CO (7)	203.50	-
		VOC	2.20	7.18
		VOC (7)	22.00	-
		SO ₂	0.39	1.26
		PM	4.40	14.36
		PM ₁₀	2.75	8.97
		PM _{2.5}	1.65	5.38
		H ₂ SO ₄	0.04	0.13
		HAPs	1.02	-
		NH ₃	2.47	8.07
BO2	New Boiler 2	NO _x	5.50	17.95
		NO _x (7)	165.00	-
		CO	20.35	66.41
		CO (7)	203.50	-
		VOC	2.20	7.18
		VOC (7)	22.00	-
		SO ₂	0.39	1.26
		PM	4.40	14.36
		PM ₁₀	2.75	8.97
		PM _{2.5}	1.65	5.38
		H ₂ SO ₄	0.04	0.13

Emission Sources - Maximum Allowable Emission Rates

		HAPs	1.02	-
		NH ₃	2.47	8.07
BO3	New Boiler 3	NO _x	5.50	17.95
		NO _x (7)	165.00	-
		CO	20.35	66.41
		CO (7)	203.50	-
		VOC	2.20	7.18
		VOC (7)	22.00	-
		SO ₂	0.39	1.26
		PM	4.40	14.36
		PM ₁₀	2.75	8.97
		PM _{2.5}	1.65	5.38
		H ₂ SO ₄	0.04	0.13
		HAPs	1.02	-
		NH ₃	2.47	8.07
CG801, CG802, CG803, CG804, BO1, BO2, BO3	Site-wide HAPs	Total HAPs	-	23.3
		Any single HAP	-	10.0
MSS-Fug	Maintenance Fugitive Emissions	VOC	16.2	0.04
Fug -Ammonia	Fugitive Ammonia Emissions	NH ₃	0.01	0.06

- (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
NH₃ - ammonia
SO₂ - sulfur dioxide
CO - carbon monoxide

Emission Sources - Maximum Allowable Emission Rates

- 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
- H₂SO₄ - sulfuric acid
- HAPs - Hazardous Air Pollutants

- (4) The pound per hour (lb/hr) and ton per year (tpy) emission limits specified in the MAERT for this facility includes emissions from the facility during both normal operations and planned MSS activities, unless otherwise noted.
- (5) For each pollutant whose emissions during planned MSS activities are measured using a CEMS, the MSS lb/hr limits apply only during each clock hour that includes one or more minutes of MSS activities. During all other clock hours, the normal lb/hr limits apply.
- (6) Compliance with annual emission limits is based on a rolling 12-month period.
- (7) MSS hourly emission limit only. The tpy emission limit specified in the MAERT for this facility includes emissions from the facility during both normal operations and planned MSS activities.

Date: September 5, 2013