Emission Sources - Maximum Allowable Emission Rates

Permit Number 83550

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)
The emission rates shown below are effective until the combined cycle electric generating unit authorized via Standard Permit No. 95640 becomes operational. Standard Permit No. 95640 authorizes modifications to be made to Combustion Turbine 2 in order to convert it to a combined cycle electric generating unit.				
HCCT1	Combustion Turbine 1 - General Electric (GE) 7EA, 73.1 MW (approx)	CO	58.45	
		CO (5)	467.60	
		NO_X	34.57	
		NO_X (5)	96.04	
		VOC	9.35	
		VOC (5)	33.40	
		PM_{10}	13.94	
		SO_2	1.47	
		H_2SO_4	0.11	
HCCT2	Combustion Turbine 2 - General Electric (GE) 7EA, 73.1 MW (approx)	CO	58.45	
		CO (5)	467.60	
		NO_X	34.57	
		NO_X (5)	96.04	
		VOC	9.35	
		VOC (5)	33.40	
		PM_{10}	13.94	
		SO_2	1.47	

Emission Sources - Maximum Allowable Emission Rates

		H_2SO_4	0.11	
HCCT1/HCCT2	Combustion Turbine 1 and Combustion Turbine 2	CO		99.37
		NO_X		45.23
		VOC		12.79
		PM_{10}		15.86
		SO_2		1.67
		H_2SO_4		0.13
LUBVNT1	Combustion Turbine 1 Lube Vent	PM_{10}	0.05	0.06
		VOC	0.05	0.06
LUBVNT2	Combustion Turbine 2 Lube Vent	PM_{10}	0.05	0.06
		VOC	0.05	0.06
HCHTR1	Fuel Gas Pre-heater 1	NO_X	0.39	1.72
		CO	0.33	1.45
		VOC	0.02	0.10
		PM_{10}	0.03	0.13
		SO_2	<0.01	0.01
		H_2SO_4	<0.01	<0.01
HCHTR2	Fuel Gas Pre-heater 2	NO_X	0.39	1.72
		CO	0.33	1.45
		VOC	0.02	0.10
		PM_{10}	0.03	0.13
		SO_2	<0.01	0.01
		H_2SO_4	<0.01	<0.01
MSS-FUG1/MSS-FUG2	Fugitive Emissions from Maintenance	VOC	0.08	<0.01

Emission Sources - Maximum Allowable Emission Rates

		PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
MSS-CEMS1/ MSS-CEMS2	Fugitives from CEMS Calibration	NO_X	<0.01	<0.01
		CO	<0.01	<0.01
The emission rates shown below are effective after the combined cycle electric generating unit authorized via Standard Permit No. 95640 becomes operational. Combustion Turbine 2 will no longer be authorized in this permit.				
HCCT1	Combustion Turbine 1 - General Electric (GE) 7EA, 73.1 MW (approx)	CO	58.45	49.69
		CO (5)	467.60	
		NO_X	34.57	22.62
		NO_X (5)	96.04	
		VOC	9.35	6.40
		VOC (5)	33.40	
		PM_{10}	13.94	7.93
		SO_2	1.47	0.84
		H_2SO_4	0.11	0.07
LUBVNT1	Combustion Turbine 1 Lube Vent	PM_{10}	0.05	0.06
		VOC	0.05	0.06
LUBVNT2	Combustion Turbine 2 Lube Vent	PM_{10}	0.05	0.06
		VOC	0.05	0.06
HCHTR1	Fuel Gas Pre-heater 1	NO_X	0.39	1.72
		CO	0.33	1.45
		VOC	0.02	0.10
		PM_{10}	0.03	0.13
		SO_2	<0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

		H_2SO_4	<0.01	<0.01
HCHTR2	Fuel Gas Pre-heater 2	NO_X	0.39	1.72
		CO	0.33	1.45
		VOC	0.02	0.10
		PM_{10}	0.03	0.13
		SO_2	<0.01	0.01
		H_2SO_4	<0.01	<0.01
MSS-FUG1/MSS-FUG2	Fugitive Emissions from Maintenance Activities	VOC	0.08	<0.01
		PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
MSS-CEMS1/ MSS-CEMS2	Fugitives from CEMS Calibration	NO_X	<0.01	<0.01
		CO	<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) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
PM - particulate matter
PM_{10} - particulate matter equal to or less than 10 microns in diameter
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
H_2SO_4 - sulfuric acid

(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
(5) Start-up, shutdown, and combustion tuning emission rates.

Date: _____