Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 125963 and PSDTX1442

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)	TPY (5)
Combustion Turbine (CT): Siemens Option				
1	Turbine 1 (Siemens 5000F)	NO_X	84.15	152.96
		NO_X (SS)	102.03	
		CO	28.27	157.41
		CO (SS)	453.03	
		SO_2	3.85	6.78
		VOC	3.3	18.13
		VOC (SS)	51.87	
		PM	9.83	17.30
		PM_{10}	9.83	17.30
		$PM_{2.5}$	9.83	17.30
		H_2SO_4	0.29	0.51
2	Turbine 2 (Siemens 5000F)	NO_X	84.15	152.96
		NO_X (SS)	102.03	
		CO	28.27	157.41
		CO (SS)	453.03	
		SO_2	3.85	6.78
		VOC	3.3	18.13
		VOC (SS)	51.87	
		PM	9.83	17.30
		PM_{10}	9.83	17.30
		$PM_{2.5}$	9.83	17.30
		H_2SO_4	0.29	0.51
3	Turbine 3 (Siemens 5000F)	NO_X	84.15	152.96

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		NO_X (SS)	102.03	
		CO	28.27	157.41
		CO (SS)	453.03	
		SO_2	3.85	6.78
		VOC	3.3	18.13
		VOC (SS)	51.87	
		PM	9.83	17.30
		PM_{10}	9.83	17.30
		$PM_{2.5}$	9.83	17.30
		H_2SO_4	0.29	0.51
4	Turbine 4 (Siemens 5000F)	NO_X	84.15	152.96
		NO_X (SS)	102.03	
		CO	28.27	157.41
		CO (SS)	453.03	
		SO_2	3.85	6.78
		VOC	3.3	18.13
		VOC (SS)	51.87	
		PM	9.83	17.30
		PM_{10}	9.83	17.30
		$PM_{2.5}$	9.83	17.30
		H_2SO_4	0.29	0.51
CT: General Electric Option				
1	Turbine 1 (General Electric 7FA.05TP)	NO_X	78.10	140.28
		NO_X (SS)	89.98	
		CO	37.40	171.07
		CO (SS)	399.52	
		SO_2	3.29	5.79
		VOC	3.63	25.73
		VOC (SS)	79.90	
		PM	8.04	14.15

Emission Sources - Maximum Allowable Emission Rates

		PM_{10}	8.04	14.15
		$PM_{2.5}$	8.04	14.15
		H_2SO_4	0.34	0.60
2	Turbine 2 (General Electric 7FA.05TP)	NO_X	78.10	140.28
		NO_X (SS)	89.98	
		CO	37.40	171.07
		CO (SS)	399.52	
		SO_2	3.29	5.79
		VOC	3.63	25.73
		VOC (SS)	79.90	
		PM	8.04	14.15
		PM_{10}	8.04	14.15
		$PM_{2.5}$	8.04	14.15
		H_2SO_4	0.34	0.60
3	Turbine 3 (General Electric 7FA.05TP)	NO_X	78.10	140.28
		NO_X (SS)	89.98	
		CO	37.40	171.07
		CO (SS)	399.52	
		SO_2	3.29	5.79
		VOC	3.63	25.73
		VOC (SS)	79.90	
		PM	8.04	14.15
		PM_{10}	8.04	14.15
		$PM_{2.5}$	8.04	14.15
		H_2SO_4	0.34	0.60
4	Turbine 4 (General Electric 7FA.05TP)	NO_X	78.10	140.28
		NO_X (SS)	89.98	
		CO	37.40	171.07
		CO (SS)	399.52	
		SO_2	3.29	5.79
		VOC	3.63	25.73

Emission Sources - Maximum Allowable Emission Rates

		VOC (SS)	79.90	
		PM	8.04	14.15
		PM_{10}	8.04	14.15
		$PM_{2.5}$	8.04	14.15
		H_2SO_4	0.34	0.60
Ancillary Equipment				
5	Dew Point Heater 1	NO_X	0.25	0.43
		CO	0.41	0.72
		SO_2	<0.01	0.01
		VOC	0.03	0.05
		PM	0.04	0.07
		PM_{10}	0.04	0.07
		$PM_{2.5}$	0.04	0.07
6	Dew Point Heater 2	NO_X	0.25	0.43
		CO	0.41	0.72
		SO_2	<0.01	0.01
		VOC	0.03	0.05
		PM	0.04	0.07
		PM_{10}	0.04	0.07
		$PM_{2.5}$	0.04	0.07
7	Dew Point Heater 3	NO_X	0.25	0.43
		CO	0.41	0.72
		SO_2	<0.01	0.01
		VOC	0.03	0.05
		PM	0.04	0.07
		PM_{10}	0.04	0.07
		$PM_{2.5}$	0.04	0.07
8	Dew Point Heater 4	NO_X	0.25	0.43
		CO	0.41	0.72
		SO_2	<0.01	0.01
		VOC	0.03	0.05

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		PM	0.04	0.07
		PM_{10}	0.04	0.07
		$PM_{2.5}$	0.04	0.07
9	Emergency Generator	NO_X	40.21	2.01
		CO	23.02	1.15
		SO_2	0.05	<0.01
		VOC	2.01	0.10
		PM	1.32	0.07
		PM_{10}	1.32	0.07
		$PM_{2.5}$	1.32	0.07
10	Fire Pump Engine	NO_X	4.71	0.24
		CO	0.01	<0.01
		SO_2	0.01	<0.01
		VOC	0.25	0.01
		PM	0.25	0.01
		PM_{10}	0.25	0.01
		$PM_{2.5}$	0.25	0.01
11	Diesel Tank – Emergency Generator	VOC	0.01	0.02
12	Diesel Tank – Fire Pump Engine	VOC	0.01	<0.01
13	Fugitives Emissions – Natural Gas(6)	VOC	<0.01	0.01
MSS FUG	MSS Fugitives (6)	NO_X	<0.01	<0.01
		CO	<0.01	<0.01
		VOC	1.56	0.02
		PM	0.24	0.04
		PM_{10}	0.24	0.04
		$PM_{2.5}$	0.24	0.04
LOV_1	Lube Oil Vent	VOC	0.09	0.39
LOV_2	Lube Oil Vent	VOC	0.09	0.39

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LOV_3	Lube Oil Vent	VOC	0.09	0.39
LOV_4	Lube Oil Vent	VOC	0.09	0.39

(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 - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - 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
H_2SO_4 - sulfuric acid mist
SS - startup and shutdown
(4) Planned maintenance, startup, and shutdown (MSS) lbs/hour emissions for all pollutants are authorized even if not specifically identified as MSS.
(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.
(6) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date: October 9, 2015