Emission Sources - Maximum Allowable Emission Rates

Permit Number 108411 and PSDTX1350

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)
1	MHI Model 501 GAC Combustion Turbine (CT) and 250 MMBtu/hr Duct Burner	NO_x (Normal Operation) (5)	23	160
		NO_x (MSS Operation) (6)	200	
		CO (Normal Operation) (5)	14	1,130
		CO (MSS Operation) (6)	3,020	
		VOC (Normal Operation) (5)	8.1	431
		VOC (MSS Operation) (6)	1,130	
		SO_2	4.4	9.3
		PM (7)	11	34
		PM_{10} (7)	11	34
		$PM_{2.5}$ (7)	11	34
		H_2SO_4	3.6	7.2
		$(NH_4)_2SO_4$	4.0	7.9
		NH_3	42	179
2	MHI Model 501 GAC CT and 250 MMBtu/hr Duct Burner	NO_x (Normal Operation) (5)	23	160
		NO_x (MSS Operation) (6)	200	
		CO (Normal Operation) (5)	14	1,130
		CO (MSS Operation) (6)	3,020	
		VOC (Normal Operation) (5)	8.1	431
		VOC (MSS Operation) (6)	1,130	
		SO_2	4.4	9.3
		PM (7)	11	34
		PM_{10} (7)	11	34
		$PM_{2.5}$ (7)	11	34
		H_2SO_4	3.6	7.2
		$(NH_4)_2SO_4$	4.0	7.9
		NH_3	42	179
3	Cooling Tower 235,000 gal/min	PM	14.7	64
		PM_{10}	0.90	3.9
		$PM_{2.5}$	0.01	0.03
4	Fire Water Pump 575 Horsepower Diesel Engine	NO_x	3.3	0.16
		CO	0.85	0.04

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		VOC	0.11	0.01
		PM	0.10	<0.01
		PM_{10}	0.10	<0.01
		$PM_{2.5}$	0.10	<0.01
		SO_2	0.01	<0.01
5	2.0 MW Emergency Generator Diesel Engine	NO_x	35.5	1.8
		CO	2.2	0.11
		VOC	0.81	0.04
		PM	0.18	0.01
		PM_{10}	0.18	0.01
		$PM_{2.5}$	0.18	0.01
		SO_2	0.04	<0.01
7	Auxiliary Boiler 90 MMBtu/hr (8)	NO_x	0.97	2.1
		CO	7.5	16
		VOC	0.49	1.1
		PM	0.68	1.5
		PM_{10}	0.68	1.5
		$PM_{2.5}$	0.68	1.5
		SO_2	0.05	0.12
8	Ammonia Fugitives (9)	NH_3	0.01	0.02
9	Diesel Fuel Storage Tank for Emergency Generator	VOC	0.01	<0.01
10	Diesel Fuel Storage Tank for Fire Pump Engine	VOC	0.01	<0.01
MISC-MSS	Inherently Low-Emitting Maintenance Activities (9)	NO_x	<0.01	<0.01
		CO	<0.01	<0.01
		VOC	1.7	0.02
		PM	0.17	0.02
		PM_{10}	0.17	0.02
		$PM_{2.5}$	0.17	0.02
		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 (TAC) § 101.1
SO_2 - sulfur dioxide

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PM - particulate matter emissions, as defined in Title 30 TAC § 101.1, including PM_{10} and $PM_{2.5}$
PM_{10} - particulate matter emissions equal to or less than 10 microns in diameter, including $PM_{2.5}$
$PM_{2.5}$ - direct particulate matter emissions equal to or less than 2.5 microns in diameter
NH_3 - ammonia
H_2SO_4 - sulfuric acid
$(NH_4)_2SO_4$ - ammonium sulfate

(4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
(5) Normal operation is defined in Special Condition No. 4.
(6) MSS operation is defined in Special Condition No. 23 and Attachment B. Annual emission limit includes both normal and MSS operation emissions.
(7) $PM/PM_{10}/PM_{2.5}$ includes H_2SO_4 and $(NH_4)_2SO_4$.
(8) Auxiliary boiler hourly and annual limits include both normal and MSS operation emissions.
(9) Fugitive emission rates are estimates and are enforceable through compliance with the applicable special conditions and permit application representations.

Date: April 29, 2014