Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 119365 and PSDTX1410

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)
CTDB3-A	GE Model 7HA.02 Combustion Turbine (CT) and 835 MMBtu/hr Duct Burner	NO_x (Normal Operation) (5)	35.20	202.85
		NO_x (MSS Operation) (6)	512	
		CO (Normal Operation) (5)	42.87	898.07
		CO (MSS Operation) (6)	3818.5	
		VOC (Normal Operation) (5)	24.55	193.62
		VOC (MSS Operation) (6)	1,324	
		SO_2	23.93	26.87
		PM (7)	25.83	113.14
		PM_{10} (7)	25.83	113.14
		$PM_{2.5}$ (7)	25.83	113.14
		H_2SO_4	18.79	21.10
		$(NH_4)_2SO_4$	25.32	28.43
		NH_3	65.16	259.68
CTDB3-B	GE Model 7HA.02 CT and 835 MMBtu/hr Duct Burner	NO_x (Normal Operation) (5)	35.20	202.85
		NO_x (MSS Operation) (6)	512	
		CO (Normal Operation) (5)	42.87	898.07
		CO (MSS Operation) (6)	3818.5	
		VOC (Normal Operation) (5)	24.55	193.62
		VOC (MSS Operation) (6)	1,324	
		SO_2	23.93	26.87
		PM (7)	25.83	113.14
		PM_{10} (7)	25.83	113.14
		$PM_{2.5}$ (7)	25.83	113.14
		H_2SO_4	18.79	21.10
		$(NH_4)_2SO_4$	25.32	28.43
		NH_3	65.16	259.68

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
CT3-ALOV-VNT	CT 1 Lube Oil Vent	VOC	<0.01	0.013
		PM	<0.01	0.013
		PM_{10}	<0.01	0.013
		$PM_{2.5}$	<0.01	0.013
CT3-BLOV-VNT	CT 2 Lube Oil Vent	VOC	<0.01	0.013
		PM	<0.01	0.013
		PM_{10}	<0.01	0.013
		$PM_{2.5}$	<0.01	0.013
ST3LOV-VNT	Steam Turbine Lube Oil Vent	VOC	<0.01	0.013
		PM	<0.01	0.013
		PM_{10}	<0.01	0.013
		$PM_{2.5}$	<0.01	0.013
FWP2	Fire Water Pump 220 Horsepower Diesel Engine	NO_x	1.31	0.07
		CO	0.44	0.02
		VOC	0.05	<0.01
		PM	0.05	<0.01
		PM_{10}	0.05	<0.01
		$PM_{2.5}$	0.05	<0.01
		SO_2	<0.01	<0.01
EG3	Emergency Generator Diesel Engine	NO_x	21.85	1.09
		CO	1.99	0.10
		VOC	0.70	0.04
		PM	0.16	<0.01
		PM_{10}	0.16	<0.01
		$PM_{2.5}$	0.16	<0.01
		SO_2	0.02	<0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
AUX3	Auxiliary Boiler 40 MMBtu/hr (8)	NO_x	1.5	6.5
		CO	1.5	6.5
		VOC	0.22	0.96
		PM	0.20	0.88
		PM_{10}	0.20	0.88
		$PM_{2.5}$	0.20	0.88
		SO_2	0.23	0.25
NG-FUG	Natural Gas Fugitives (9)	VOC	0.05	0.22
NH3-FUG	Ammonia Fugitives (9)	NH_3	0.12	0.51
DSL-TK1	Diesel Fuel Storage Tank for Emergency Generator	VOC	0.08	<0.01
DSL-TK2	Diesel Fuel Storage Tank for Fire Pump Engine	VOC	0.01	<0.01
MSS FUG	Inherently Low-Emitting Maintenance Activities (9)	NO_x	<0.01	<0.01
		CO	<0.01	<0.01
		VOC	0.08	<0.01
		PM	0.09	0.02
		PM_{10}	0.09	0.02
		$PM_{2.5}$	0.09	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
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. 21. For pollutants whose emissions during planned MSS activities are measured using a CEMS, the MSS lbs/hr limits apply during each clock hour that includes one or more minutes

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of MSS activities. During all other clock hours, the normal lbs/hr limits apply. Annual emission limits include 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.

Draft Date: March 6, 2020