Emission Sources - Maximum Allowable Emission Rates

Permit Number 108182

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 (4)	
			lbs/hour	TPY
PHR1	Combustion Turbine 1	NO_x	49.92	-
		CO	30.39	-
		CO (MSS) (6)	405.18	-
		VOC	2.31	-
		PM	6.10	-
		PM_{10}	6.10	-
		$PM_{2.5}$	4.40	-
		SO_2	2.49	-
		H_2SO_4	0.11	-
		HCHO	0.20	-
PHR2	Combustion Turbine 2	NO_x	49.92	-
		CO	30.39	-
		CO (MSS) (6)	405.18	-
		VOC	2.31	-
		PM	6.10	-
		PM_{10}	6.10	-
		$PM_{2.5}$	4.40	-
		SO_2	2.49	-
		H_2SO_4	0.11	-
		HCHO	0.20	-

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PHR3	Combustion Turbine 3	NO_x	49.92	-
		CO	30.39	-
		CO (MSS) (6)	405.18	-
		VOC	2.31	-
		PM	6.10	-
		PM_{10}	6.10	-
		$PM_{2.5}$	4.40	-
		SO_2	2.49	-
		H_2SO_4	0.11	-
		HCHO	0.20	-
PHR4	Combustion Turbine 4	NO_x	49.92	-
		CO	30.39	-
		CO (MSS) (6)	405.18	-
		VOC	2.31	-
		PM	6.10	-
		PM_{10}	6.10	-
		$PM_{2.5}$	4.40	-
		SO_2	2.49	-
		H_2SO_4	0.11	-
		HCHO	0.20	-
PHR5	Combustion Turbine 5	NO_x	49.92	-
		CO	30.39	-
		CO (MSS) (6)	405.18	-
		VOC	2.31	-
		PM	6.10	-

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		PM_{10}	6.10	-
		$PM_{2.5}$	4.40	-
		SO_2	2.49	-
		H_2SO_4	0.11	-
		HCHO	0.20	-
PHR6	Combustion Turbine 6	NO_x	49.92	-
		CO	30.39	-
		CO (MSS) (6)	405.18	-
		VOC	2.31	-
		PM	6.10	-
		PM_{10}	6.10	-
		$PM_{2.5}$	4.40	-
		SO_2	2.49	-
		H_2SO_4	0.11	-
		HCHO	0.20	-
CTCAP	Combustion Turbine Annual CAP	NO_x	-	149.54
		CO	-	187.64
		VOC	-	9.44
		PM	-	24.92
		PM_{10}	-	24.92
		$PM_{2.5}$	-	17.97
		SO_2	-	10.17
		H_2SO_4	-	0.45
		HCHO	-	0.82
FGHTR	Fuel Gas Heater	NO_x	1.94	2.55

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		CO	0.97	1.28
		VOC	0.10	0.13
		PM	0.13	0.17
		PM_{10}	0.13	0.17
		$PM_{2.5}$	0.13	0.17
		SO_2	0.03	0.04
PHR1-LOV	Turbine 1 Lube Oil Vent	PM	0.02	0.02
		PM_{10}	0.02	0.02
		$PM_{2.5}$	0.01	0.01
PHR2-LOV	Turbine 2 Lube Oil Vent	PM	0.02	0.02
		PM_{10}	0.02	0.02
		$PM_{2.5}$	0.01	0.01
PHR3-LOV	Turbine 3 Lube Oil Vent	PM	0.02	0.02
		PM_{10}	0.02	0.02
		$PM_{2.5}$	0.01	0.01
PHR4-LOV	Turbine 4 Lube Oil Vent	PM	0.02	0.02
		PM_{10}	0.02	0.02
		$PM_{2.5}$	0.01	0.01
PHR5-LOV	Turbine 5 Lube Oil Vent	PM	0.02	0.02
		PM_{10}	0.02	0.02
		$PM_{2.5}$	0.01	0.01
PHR6-LOV	Turbine 6 Lube Oil Vent	PM	0.02	0.02
		PM_{10}	0.02	0.02
		$PM_{2.5}$	0.01	0.01
FUG-NGAS	Fugitives: Natural Gas (5)	VOC	0.30	1.33

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FUG-MSS	Miscellaneous MSS Activities (5)	NO_x	0.01	0.01
		CO	0.01	0.01
		VOC	83.95	0.75
		PM	1.23	0.01
		PM_{10}	0.30	0.01
		$PM_{2.5}$	0.14	0.01
		SO_2	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 - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$
PM_{10} - 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
CO - carbon monoxide
HCHO - formaldehyde
H_2SO_4 - sulfuric acid
(4) The pound per hour and ton per year 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. Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
(6) CO startup emissions shall be determined by multiplying the total fuel flow during a startup by 200 ppm startup emission factor.

Date: June 28, 2019