

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 121917 and PSDTX1422

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)
CT-1	Combustion Turbine 1	PM	10.19	11.81
		PM ₁₀	10.19	11.81
		PM _{2.5}	10.19	11.81
		NO _x	78.20	105.37
		NO _x (MSS)	108.68	
		CO	47.70	718.18
		CO (MSS)	2681.94	
		SO ₂	6.47	2.02
		VOC	6.00	82.78
		VOC (MSS)	307.10	
		H ₂ SO ₄	0.99	0.31
CT-2	Combustion Turbine 2	PM	10.19	11.81
		PM ₁₀	10.19	11.81
		PM _{2.5}	10.19	11.81
		NO _x	78.20	105.37
		NO _x (MSS)	108.68	
		CO	47.70	718.18
		CO (MSS)	2681.94	
		SO ₂	6.47	2.02
		VOC	6.00	82.78
		VOC (MSS)	307.10	
		H ₂ SO ₄	0.99	0.31

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CT-3	Combustion Turbine 3	PM	10.19	11.81
		PM ₁₀	10.19	11.81
		PM _{2.5}	10.19	11.81
		NO _x	78.20	105.37
		NO _x (MSS)	108.68	
		CO	47.70	718.18
		CO (MSS)	2681.94	
		SO ₂	6.47	2.02
		VOC	6.00	82.78
		VOC (MSS)	307.10	
		H ₂ SO ₄	0.99	0.31
CT-4	Combustion Turbine 4	PM	10.19	11.81
		PM ₁₀	10.19	11.81
		PM _{2.5}	10.19	11.81
		NO _x	78.20	105.37
		NO _x (MSS)	108.68	
		CO	47.70	718.18
		CO (MSS)	2681.94	
		SO ₂	6.47	2.02
		VOC	6.00	82.78
		VOC (MSS)	307.10	
		H ₂ SO ₄	0.99	0.31

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FGH-1	Fuel Gas Heater 1	PM	0.04	0.18
		PM ₁₀	0.04	0.18
		PM _{2.5}	0.04	0.18
		NO _x	0.06	0.3
		CO	0.44	1.9
		SO ₂	<0.01	0.01
		VOC	0.03	0.12
FGH-2	Fuel Gas Heater 2	PM	0.02	0.025
		PM ₁₀	0.02	0.025
		PM _{2.5}	0.02	0.025
		NO _x	0.03	0.036
		CO	0.21	0.3
		SO ₂	<0.01	<0.01
		VOC	0.01	0.02
FGH-3	Fuel Gas Heater 3	PM	0.02	0.025
		PM ₁₀	0.02	0.025
		PM _{2.5}	0.02	0.025
		NO _x	0.03	0.036
		CO	0.21	0.3
		SO ₂	<0.01	<0.01
		VOC	0.01	0.02
FGH-4	Fuel Gas Heater 4	PM	0.02	0.025
		PM ₁₀	0.02	0.025
		PM _{2.5}	0.02	0.025
		NO _x	0.03	0.036
		CO	0.21	0.3
		SO ₂	<0.01	<0.01
		VOC	0.01	0.02
FGH-5	Fuel Gas Heater 5	PM	0.02	0.025

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		PM ₁₀	0.02	0.025
		PM _{2.5}	0.02	0.025
		NO _x	0.03	0.036
		CO	0.21	0.3
		SO ₂	<0.01	<0.01
		VOC	0.01	0.02
FP-1	Fire Water Pump	PM	0.07	0.02
		PM ₁₀	0.07	0.02
		PM _{2.5}	0.07	0.02
		NO _x	1.50	0.38
		CO	0.14	0.03
		SO ₂	0.33	0.08
		VOC	0.09	0.02
CT1LO-VNT	Combustion Turbine 1 Lube Oil Vent	PM	0.06	0.26
		PM ₁₀	0.06	0.26
		PM _{2.5}	0.06	0.26
		VOC	0.06	0.26
CT2LO-VNT	Combustion Turbine 2 Lube Oil Vent	PM	0.06	0.26
		PM ₁₀	0.06	0.26
		PM _{2.5}	0.06	0.26
		VOC	0.06	0.26
CT3LO-VNT	Combustion Turbine 3 Lube Oil Vent	PM	0.06	0.26
		PM ₁₀	0.06	0.26
		PM _{2.5}	0.06	0.26
		VOC	0.06	0.26
CT4LO-VNT	Combustion Turbine 4 Lube Oil Vent	PM	0.06	0.26
		PM ₁₀	0.06	0.26
		PM _{2.5}	0.06	0.26
		VOC	0.06	0.26

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MSS-FUG1, MSS-FUG2, MSS-FUG3, and MSS-FUG4 (5)	Maintenance Fugitives Turbine 1 thru 4	NO _x	<0.01	<0.01
		CO	<0.01	<0.01
		PM	0.04	<0.01
		PM ₁₀	0.04	<0.01
		PM _{2.5}	0.04	<0.01
		VOC	6.19	0.06

(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

SO₂ - sulfur dioxide

PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented

PM₁₀ - 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

H₂SO₄ - sulfuric acid

(4) 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.

Date: February 2, 2018