Emission Sources - Maximum Allowable Emission Rates

Permit Number 6051 and PSDTX55M3

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)
BOZURN	Power Steam Boiler/ Zurn Auxiliary Boiler (Max 50 MMBtu/hr) (Avg 28 MMBtu/hr)	VOC	0.27	0.66
		NOx	4.90	12.02
		CO	4.12	10.10
		SO_2	0.70	1.72
		PM	0.37	0.91
		PM_{10}	0.37	0.91
		$PM_{2.5}$	0.37	0.91
CLOAD	Condensate Loading	VOC	4.71	20.61
CMK201C	Compressor Engine 3 Waukesha L-7042GSI (1,200-Horsepower)	VOC	0.26	1.14
		NOx	2.65	11.61
		CO	5.29	23.17
		SO_2	0.14	0.61
		PM	0.20	0.88
		PM_{10}	0.20	0.88
		$PM_{2.5}$	0.20	0.88
CMK201D	Compressor Engine 4 Waukesha L-7042GSI (1,200-Horsepower)	VOC	0.26	1.14
		NOx	2.65	11.61
		CO	5.29	23.17
		SO_2	0.14	0.61
		PM	0.20	0.88
		PM_{10}	0.20	0.88
		$PM_{2.5}$	0.20	0.88

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CMK201E	Compressor Engine 5 Waukesha L-7042GSI (1,200-Horsepower)	VOC	0.26	1.14
		NOx	2.65	11.61
		CO	5.29	23.17
		SO_2	0.14	0.61
		PM	0.20	0.88
		PM_{10}	0.20	0.88
		$PM_{2.5}$	0.20	0.88
CT-1	Cooling Tower (5)	VOC	0.70	3.07
EMPFWPUMP	Firewater Pump Engine	VOC	0.09	0.04
		NOx	1.10	0.48
		CO	0.24	0.11
		SO_2	0.07	0.03
		PM	0.08	0.04
		PM_{10}	0.08	0.04
		$PM_{2.5}$	0.08	0.04
FL-CPLT	Cold Plant Flare (Emissions from Pilots Only)	VOC	0.01	0.01
		NOx	0.03	0.14
		CO	0.16	0.70
		SO_2	0.01	0.01
FL-FLD	Well Flowline/Field Flare	VOC	5.84	22.09
		NOx	0.55	2.12
		CO	2.82	10.91
		SO_2	0.01	0.01
FL-PROC	Plant Process Flare (Emissions from Pilots Only)	VOC	0.01	0.01
		NOx	0.03	0.13
		CO	0.16	0.70
		SO_2	0.01	0.01
H-102	Inhibitor Oil Tank Bottoms Heater (15 MMBtu/hr)	VOC	0.08	0.35
		NOx	1.47	6.44

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		CO	1.24	5.43
		SO_2	0.21	0.92
		PM	0.11	0.48
		PM_{10}	0.11	0.48
		$PM_{2.5}$	0.11	0.48
REGNHR	Molecular Sieve Regenerator Gas Heater (7.5 MMBtu/hr)	VOC	0.04	0.18
		NOx	0.74	3.24
		CO	0.62	2.72
		SO_2	0.10	0.44
		PM	0.06	0.26
		PM_{10}	0.06	0.26
		$PM_{2.5}$	0.06	0.26
SITEFUG	Site Piping Fugitives (5)	VOC	1.81	7.94
		H_2S	2.35	10.27
STABHR	Condensate Stabilizer Heater (15 MMBtu/hr)	VOC	0.08	0.35
		NOx	1.47	6.44
		CO	1.24	5.43
		SO_2	0.21	0.92
		PM	0.11	0.48
		PM_{10}	0.11	0.48
		$PM_{2.5}$	0.11	0.48
V-109	Tank V-109	VOC	<0.01	<0.01
V-216	Tank V-216	VOC	0.56	<0.01
V-217	Tank V-217	VOC	0.59	0.01
V-218	Tank V-218	VOC	0.02	0.01
V-516	Tank V-516	VOC	<0.01	<0.01
V-521	Tank V-521	VOC	17.33	0.19
WH2OPIT	Wastewater Pit	VOC	0.19	0.83
TURBOX501	Turbine 501 Exhaust (41.75 MMBtu/hr)	VOC	0.09	(6)

Emission Sources - Maximum Allowable Emission Rates

		NOx	16.67	(6)
		CO	41.68	(6)
		SO_2	0.58	(6)
		PM	0.28	(6)
		PM_{10}	0.28	(6)
		$PM_{2.5}$	0.28	(6)
WHRU501	Waste Heat Recovery Unit 501 Duct Burner (25 MMBtu/hr)	VOC	0.13	0.57
		NOx	2.45	10.73
		CO	2.06	9.02
		SO_2	0.35	1.53
		PM	0.19	0.83
		PM_{10}	0.19	0.83
		$PM_{2.5}$	0.19	0.83
TURBOX502	Turbine 502 Exhaust (41.75 MMBtu/hr)	VOC	0.09	(6)
		NOx	16.67	(6)
		CO	41.68	(6)
		SO_2	0.58	(6)
		PM	0.28	(6)
		PM_{10}	0.28	(6)
		$PM_{2.5}$	0.28	(6)
WHRU502	Waste Heat Recovery Unit 502 Duct Burner (25 MMBtu/hr)	VOC	0.13	0.57
		NOx	2.45	10.73
		CO	2.06	9.02
		SO_2	0.35	1.53
		PM	0.19	0.83
		PM_{10}	0.19	0.83
		$PM_{2.5}$	0.19	0.83
TURBOX503	Turbine 503 Exhaust (41.75 MMBtu/hr)	VOC	0.09	(6)
		NOx	16.67	(6)

Emission Sources - Maximum Allowable Emission Rates

		CO	41.68	(6)
		SO_2	0.58	(6)
		PM	0.28	(6)
		PM_{10}	0.28	(6)
		$PM_{2.5}$	0.28	(6)
WHRU503	Waste Heat Recovery Unit 503 Duct Burner (25 MMBtu/hr)	VOC	0.13	0.57
		NOx	2.45	10.73
		CO	2.06	9.02
		SO2	0.35	1.53
		PM	0.19	0.83
		PM_{10}	0.19	0.83
		$PM_{2.5}$	0.19	0.83
TURBOX501, TURBOX502, TURBOX503, WHRU501, WHRU502, and WHRU503	Emission Cap for all Turbines and Duct Burners Combined	VOC	0.62	2.72
		NOx	40.69	151.71
		CO	89.54	325.87
		SO_2	2.59	11.34
		PM	1.30	5.69
		PM_{10}	1.30	5.69
		$PM_{2.5}$	1.30	5.69

(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
(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.
(6) The annual emissions from the turbines shall not exceed the caps shown of the turbines plus the duct burners combined.

Emission Sources - Maximum Allowable Emission Rates

Date: April 22, 2021