Emission Sources - Maximum Allowable Emission Rates

Permit Number 3635A

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 (5)	
			lbs/hour	TPY (4)
EP1	Boiler 1 Stack 25.2 MMBtu/hr (Natural Gas and Biogas Combustion)	PM	0.31	--
		PM_{10}	0.31	--
		$PM_{2.5}$	0.31	--
		VOC	0.23	--
		NO_X	1.07	--
		SO_2	6.73	--
		CO	3.45	--
EP2	Boiler 2 Stack 25.2 MMBtu/hr (Natural Gas Combustion)	PM	0.19	--
		PM_{10}	0.19	--
		$PM_{2.5}$	0.19	--
		VOC	0.14	--
		NO_X	2.47	--
		SO_2	0.01	--
		CO	2.08	--
EP3	Boiler 3 Stack 25.2 MMBtu/hr (Natural Gas Combustion)	PM	0.19	--
		PM_{10}	0.19	--
		$PM_{2.5}$	0.19	--
		VOC	0.14	--
		NO_X	2.47	--
		SO_2	0.01	--

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		CO	2.08	--
EP4	Boiler 4 Stack 25.2 MMBtu/hr (Natural Gas Combustion)	PM	0.19	--
		PM_{10}	0.19	--
		$PM_{2.5}$	0.19	--
		VOC	0.14	--
		NO_X	2.47	--
		SO_2	0.01	--
		CO	2.08	--
EP5	Boiler 5 Stack 28.35 MMBtu/hr (Natural Gas and Biogas Combustion)	PM	0.30	--
		PM_{10}	0.30	--
		$PM_{2.5}$	0.30	--
		VOC	0.22	--
		NO_X	3.97	--
		SO_2	6.49	--
		CO	3.33	--
EP6	Boiler 6 Stack 28.35 MMBtu/hr (Natural Gas and Biogas Combustion)	PM	0.30	--
		PM_{10}	0.30	--
		$PM_{2.5}$	0.30	--
		VOC	0.22	--
		NO_X	3.97	--
		SO_2	6.49	--
		CO	3.33	--
EP9	Boiler 9 Stack 33.6 MMBtu/hr (Natural Gas Combustion)	PM	0.25	--
		PM_{10}	0.25	--
		$PM_{2.5}$	0.25	--

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		VOC	0.18	--
		NO_X	3.29	--
		SO_2	0.02	--
		CO	2.77	--
EP21	Boiler 10 Stack 37.8 MMBtu/hr (Natural Gas Combustion)	PM	0.04	--
		PM_{10}	0.04	--
		$PM_{2.5}$	0.04	--
		VOC	0.15	--
		NO_X	0.37	--
		SO_2	0.02	--
		CO	2.65	--
EP7	Blood Dryer Furnace Cyclone Stack 5.5 MMBtu/hr (Natural Gas Combustion)	PM	0.04	--
		PM_{10}	0.04	--
		$PM_{2.5}$	0.04	--
		VOC	0.03	--
		NO_X	0.54	--
		SO_2	<0.01	--
		CO	0.45	--
EP8	Bone Dryer Furnace Cyclone Stack 20.0 MMBtu/hr (Natural Gas Combustion)	PM	0.15	--
		PM_{10}	0.15	--
		$PM_{2.5}$	0.15	--
		VOC	0.11	--
		NO_X	1.96	--
		SO_2	0.01	--
		CO	1.64	--

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	Total Annual Emissions from Natural Gas (Boilers 1, 2, 3, 4, 5, 6, 9, 10 and the Blood and Bone Dryer Furnaces)	PM	--	3.80
		PM_{10}	--	3.80
		$PM_{2.5}$	--	3.80
		VOC	--	2.75
		NO_X	--	50.00
		SO_2	--	0.30
		CO	--	42.00
	Total Annual Emissions from Biogas (Boilers 1, 5, and 6)	PM	--	2.11
		PM_{10}	--	2.11
		$PM_{2.5}$	--	2.11
		VOC	--	1.52
		NO_X	--	27.70
		SO_2	--	45.32
		CO	--	23.27
B7	Blood Dryer Cyclone Stack (Blood Drying)	PM	1.87	4.10
		PM_{10}	1.87	4.10
		$PM_{2.5}$	0.32	0.70
		H_2S	0.12	0.27
		NH_3	0.92	2.02
B8	Bone Dryer Cyclone Stack (Bone Drying)	PM	3.94	12.31
		PM_{10}	3.94	12.31
		$PM_{2.5}$	0.67	2.09
EP10	Flare Pilot and Lagoon Flare	PM	<0.01	0.01
		PM_{10}	<0.01	0.01
		$PM_{2.5}$	<0.01	0.01

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		VOC	6.87	3.44
		NO_X	6.80	3.53
		SO_2	23.91	11.96
		CO	13.53	6.84
		H_2S	0.25	0.13
EPS1	Packed-Bed Room Air Scrubber Stack (Room Air and Cookers)	Odors	--	--
EP11	Hammermills Fugitive Emissions	PM	0.21	0.71
		PM_{10}	0.21	0.71
		$PM_{2.5}$	0.04	0.12
EP12	Blood Pneumatic Cyclone Vent	PM	1.71	7.51
		PM_{10}	1.71	7.51
		$PM_{2.5}$	0.29	1.28
EP13	Blood Meal Bin Vent Stack	PM	0.04	0.08
		PM_{10}	0.01	0.02
		$PM_{2.5}$	<0.01	<0.01
EP14	Forsberg Cyclone 1 Vent	PM	1.54	6.76
		PM_{10}	1.54	6.76
		$PM_{2.5}$	0.26	1.15
EP15	Forsberg Cyclone 2 Vent	PM	1.54	6.76
		PM_{10}	1.54	6.76
		$PM_{2.5}$	0.26	1.15
EP16	MBM Bin Vents Stack	PM	0.07	0.21
		PM_{10}	0.02	0.05
		$PM_{2.5}$	<0.01	0.01

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EP17	Gel Bone Bin Vent Stack	PM	0.02	0.06
		PM_{10}	0.01	0.02
		$PM_{2.5}$	<0.01	<0.01
EP18	Blood Meal Loadout Chute (Rail or Truck)	PM	0.33	0.01
		PM_{10}	0.08	<0.01
		$PM_{2.5}$	0.01	<0.01
EP19	MBM Loadout Chute (Rail or Truck)	PM	0.33	0.28
		PM_{10}	0.08	0.07
		$PM_{2.5}$	0.01	0.01
EP20	Gel Bone Loadout	PM	0.33	0.08
		PM_{10}	0.08	0.02
		$PM_{2.5}$	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) 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
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
CO - carbon monoxide
H_2S - hydrogen sulfide
NH_3 - ammonia
(4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
(5) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit.

Date: June 30, 2020