Emission Sources - Maximum Allowable Emission Rates

Permit Number 149233

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)
B1	Boiler 1 Stack (37.80 MM BTU/hr) Natural Gas	PM	0.29	--
		PM_{10}	0.29	--
		$PM_{2.5}$	0.29	--
		VOC	0.21	--
		NO_x	1.21	--
		SO_2	0.02	--
		CO	0.58	--
B2	Boiler 2 Stack (37.80 MM BTU/hr) Natural Gas	PM	0.29	--
		PM_{10}	0.29	--
		$PM_{2.5}$	0.29	--
		VOC	0.21	--
		NO_x	1.21	--
		SO_2	0.02	--
		CO	1.44	--
B3	Boiler 3 Stack (36.00 MM BTU/hr) Natural Gas & Biogas	PM	0.39	--
		PM_{10}	0.39	--
		$PM_{2.5}$	0.39	--
		VOC	0.28	--
		NO_x	1.31	--
		SO_2	0.14	--
		CO	1.33	--

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B4	Boiler 4 Stack (37.8 MM BTU/hr) Natural Gas	PM	0.29	--
		PM_{10}	0.29	--
		$PM_{2.5}$	0.29	--
		VOC	0.21	--
		NO_x	1.20	--
		SO_2	0.02	--
		CO	1.40	--
B5	Boiler 5 Stack (37.8 MM BTU/hr) Natural Gas	PM	0.29	-
		PM_{10}	0.29	-
		$PM_{2.5}$	0.29	-
		VOC	0.21	-
		NO_x	1.21	-
		SO_2	0.02	-
		CO	1.40	-
D1	Whey Dryer 1 Burner & Bagfilter Stack (6) (9.76 MM BTU/hr) Natural Gas	PM	1.95	--
		PM_{10}	1.95	--
		$PM_{2.5}$	1.95	--
		VOC	0.05	--
		NO_x	0.36	--
		SO_2	<0.01	--
		CO	1.81	--
D2A	Whey Dryer 2 Burner Stack (14.80 MM BTU/hr) Natural Gas	PM	0.11	--
		PM_{10}	0.11	--
		$PM_{2.5}$	0.11	--
		VOC	0.08	--
		NO_x	0.92	--
		SO_2	0.01	--
		CO	1.71	--
WB1	Whey Plant Boiler 1 Stack (21.00 MM BTU/hr)	PM	0.16	--

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		PM_{10}	0.16	--
		$PM_{2.5}$	0.16	--
		VOC	0.12	--
		NO_x	0.76	--
		SO_2	0.01	--
		CO	1.76	--
WB2	Whey Plant Boiler 2 Stack (21.00 MM BTU/hr) Natural Gas	PM	0.16	--
		PM_{10}	0.16	--
		$PM_{2.5}$	0.16	--
		VOC	0.12	--
		NO_x	0.76	--
		SO_2	0.01	--
		CO	1.76	--
	Total Annual Natural Gas Combustion (Boilers 1-5, Whey Plant Boilers 1 and 2, Whey Dryer 1, Whey Dryer 2 Burner, and Emergency Generators Radio and Server Rooms)	PM	--	7.60
		PM_{10}	--	7.60
		$PM_{2.5}$	--	7.60
		VOC	--	5.51
		NO_x	--	36.53
		SO_2	--	0.59
		CO	--	51.77
	Total Annual Biogas Combustion	PM	--	1.10
		PM_{10}	--	1.10
		$PM_{2.5}$	--	1.10
		VOC	--	0.79
		NO_x	--	2.89
		SO_2	--	0.55
		CO	--	2.94
D2B	Whey Dryer 2 Bagfilter Stack	PM	1.37	--
		PM_{10}	1.37	--

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		$PM_{2.5}$	1.37	--
D1 and D2B	Total Annual Cheese Plant Whey Drying Operations	PM	--	14.26
		PM_{10}	--	14.26
		$PM_{2.5}$	--	14.26
FUG	Biogas System Fugitives (7)	H_2S	<0.01	<0.01
BF1	Cooler/Conditioner Bagfilter Stack	PM	0.06	0.13
		PM_{10}	0.06	0.13
		$PM_{2.5}$	0.01	0.02
BF2	Popcorn Transfer Bagfilter Stack	PM	0.01	0.03
		PM_{10}	0.01	0.03
		$PM_{2.5}$	<0.01	<0.01
BF3	Popcorn Bin Bagfilter Stack	PM	0.01	0.03
		PM_{10}	0.01	0.03
		$PM_{2.5}$	<0.01	<0.01
BF4	Packaging Bin Bagfilter Stack	PM	0.02	0.03
		PM_{10}	0.02	0.03
		$PM_{2.5}$	<0.01	<0.01
BF5	Hammermill Aspiration Bagfilter Stack	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	<0.01	<0.01
BF6	Packaging Dust Bagfilter Stack	PM	0.02	0.03
		PM_{10}	0.02	0.03
		$PM_{2.5}$	<0.01	<0.01
WD1	Whey Plant Dryer Particulate Scrubber Exhaust Stack	PM	0.07	0.29
		PM_{10}	0.05	0.24
		$PM_{2.5}$	0.01	0.05
F1	Lagoon Flare 1 (Includes Natural Gas Pilot)	VOC	0.02	0.09
		NO_x	1.57	4.54
		SO_2	8.16	23.90

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		CO	13.45	38.92
		H_2S	0.09	0.25
E1	Emergency Generator Stack (100 hours/year)	PM	0.15	0.01
		PM_{10}	0.15	0.01
		$PM_{2.5}$	0.15	0.01
		VOC	0.87	0.04
		NO_x	3.48	0.17
		SO_2	0.72	0.04
		CO	0.46	0.02
E2	Emergency Generator Server Room	PM	0.02	-
		PM_{10}	0.02	-
		$PM_{2.5}$	0.02	-
		VOC	0.21	-
		NO_x	3.59	-
		SO_2	<0.01	-
		CO	0.57	-
E3	Emergency Generator Radio Room	PM	<0.01	-
		PM_{10}	<0.01	-
		$PM_{2.5}$	<0.01	-
		VOC	0.01	-
		NO_x	0.14	-
		SO_2	<0.01	-
		CO	0.04	-

(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
H_2S - hydrogen sulfide

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(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.
(6) Hourly emissions include emissions from the dryer in addition to products of combustion.
(7) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date: May 25, 2021