Emission Sources - Maximum Allowable Emission Rates

Permit Number 95666

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)
B1	Boiler No. 1 (21 MMBtu/hr) (natural gas, biogas, or tallow)	PM	1.46	6.41
		PM_{10}	1.46	6.41
		$PM_{2.5}$	1.46	6.41
		VOC	0.14	0.61
		NO_X	3.13	13.69
		CO	1.73	7.57
		SO_2	9.88	43.27
		H_2S	0.19	0.84
B2	Boiler No. 2 (21 MMBtu/hr) (natural gas or biogas)	PM	0.16	0.69
		PM_{10}	0.16	0.69
		$PM_{2.5}$	0.16	0.69
		VOC	0.14	0.61
		NO_X	2.06	9.02
		CO	1.73	7.57
		SO_2	9.88	43.27
		H_2S	0.19	0.84
B3	Boiler No. 3 (21 MMBtu/hr) (natural gas or biogas)	PM	0.16	0.69
		PM_{10}	0.16	0.69
		$PM_{2.5}$	0.16	0.69
		VOC	0.14	0.61

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		NO_X	2.06	9.02
		CO	1.73	7.57
		SO_2	9.88	43.27
		H_2S	0.19	0.84
B4	Boiler No. 4 (21 MMBtu/hr) (natural gas or biogas)	PM	0.16	0.69
		PM_{10}	0.16	0.69
		$PM_{2.5}$	0.16	0.69
		VOC	0.14	0.61
		NO_X	2.06	9.02
		CO	1.73	7.57
		SO_2	9.88	43.27
		H_2S	0.19	0.84
B5	Boiler No. 5 (25.2 MMBtu/hr) (natural gas or tallow)	PM	1.76	7.69
		PM_{10}	1.76	7.69
		$PM_{2.5}$	1.76	7.69
		VOC	0.14	0.60
		NO_X	3.75	16.43
		CO	2.08	9.09
		SO_2	0.06	0.25
B6	Boiler No. 6 (42 MMBtu/hr) (low NO_X burner) (natural gas)	PM	0.31	1.37
		PM_{10}	0.31	1.37
		$PM_{2.5}$	0.31	1.37
		VOC	0.23	0.99
		NO_X	2.06	9.02
		CO	3.46	15.15

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		SO_2	0.02	0.11
D1S1	Blood Dryer Scrubber Stack (8.7 MMBtu/hr, natural gas) (high-intensity odor packed-bed scrubber)	PM	6.10	4.87
		PM_{10}	6.10	4.87
		$PM_{2.5}$	2.95	2.35
		VOC	0.05	0.21
		NO_X	1.54	6.74
		CO	1.38	6.06
		SO_2	0.01	0.02
		NH_3	3.00	2.40
		H_2S	0.40	0.32
		Odors (5)	--	--
S2S3	Plant Air Scrubber Stack (offal handling and cooking operations, high-intensity odor packed-bed scrubber, and plant air scrubber)	Odors (5)	--	--
D2	Bone Dryer (22 MMBtu/hr) (natural gas)	PM	6.00	26.28
		PM_{10}	3.50	15.33
		$PM_{2.5}$	0.16	0.72
		VOC	0.12	0.52
		NO_X	3.61	15.80
		CO	7.92	34.69
		SO_2	0.01	0.06
D3	Bone Dryer Cyclone Loadout (fugitive emissions)	PM	0.05	<0.01
		PM_{10}	0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
SH1	Shakers (fugitive emissions)	PM	9.00	17.70

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		PM_{10}	6.98	13.72
		$PM_{2.5}$	1.19	2.33
12	Meat and Bone Meal Storage Bin Bagfilter	PM	0.15	0.66
		PM_{10}	0.15	0.66
		$PM_{2.5}$	0.15	0.66
72	Dried Blood Storage Bin Bagfilter	PM	0.03	0.15
		PM_{10}	0.03	0.15
		$PM_{2.5}$	0.03	0.15
76A	Loadout Bagfilter (dried blood, gel bone, and meat and bone meal loadouts)	PM	0.07	0.30
		PM_{10}	0.07	0.30
		$PM_{2.5}$	0.07	0.30
L1	Dried Blood Loadout (fugitive emissions)	PM	0.17	0.01
		PM_{10}	0.04	<0.01
		$PM_{2.5}$	0.01	<0.01
L2	Gel Bone Loadout (fugitive emissions)	PM	0.20	0.02
		PM_{10}	0.05	0.01
		$PM_{2.5}$	0.01	<0.01
L3	Meat and Bone Meal Loadout (fugitive emissions)	PM	0.18	0.10
		PM_{10}	0.04	0.02
		$PM_{2.5}$	0.01	<0.01
F1	Flare (biogas combustion 876 hours and propane pilot 8,760 hours)	VOC	<0.01	<0.01
		NO_X	2.75	1.21
		CO	23.61	10.34
		SO_2	32.84	14.38
		H_2S	0.35	0.15

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(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
NH_3 - ammonia
(4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
(5) Odors shall be maintained at a minimal level.

Date: May 18, 2012