

Emission Sources - Maximum Allowable Emission Rates

Permit Number 157145

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 (7)	
			lbs/hour	TPY (4)
B1	Boiler No. 1 Stack (25.20 MMBtu/hr) (Natural gas or Biogas)	PM	0.25	--
		PM ₁₀	0.25	--
		PM _{2.5}	0.25	--
		SO ₂	3.29	--
		NO _x	1.67	--
		CO	2.81	--
		VOC	0.18	--
B2	Boiler No. 2 Stack (25.20 MMBTU/hr) (Natural gas)	PM	0.18	--
		PM ₁₀	0.18	--
		PM _{2.5}	0.18	--
		SO ₂	0.01	--
		NO _x	1.20	--
		CO	2.02	--
		VOC	0.13	--
B3	Boiler No. 3 Stack (25.20 MMBtu/hr) (Natural gas or Biogas)	PM	0.25	--
		PM ₁₀	0.25	--
		PM _{2.5}	0.25	--
		SO ₂	3.29	--
		NO _x	1.67	--
		CO	2.81	--
		VOC	0.18	--
B4	Boiler No. 4 Stack (32.659 MMBtu/hr) (Natural gas)	PM	0.24	--
		PM ₁₀	0.24	--
		PM _{2.5}	0.24	--

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		SO ₂	0.02	--
		NO _x	1.56	--
		CO	2.61	--
		VOC	0.17	--
B5	Boiler No. 5 Stack (32.659 MMBtu/hr) (Natural gas)	PM	0.24	--
		PM ₁₀	0.24	--
		PM _{2.5}	0.24	--
		SO ₂	0.02	--
		NO _x	0.33	--
		CO	1.21	--
		VOC	0.17	--
B6	Boiler No. 6 Stack (32.659 MMBtu/hr) (Natural gas)	PM	0.24	--
		PM ₁₀	0.24	--
		PM _{2.5}	0.24	--
		SO ₂	0.02	--
		NO _x	0.33	--
		CO	1.21	--
		VOC	0.17	--
B7	Boiler No. 7 Stack (32.659 MMBtu/hr) (Natural gas)	PM	0.24	--
		PM ₁₀	0.24	--
		PM _{2.5}	0.24	--
		SO ₂	0.02	--
		NO _x	0.33	--
		CO	1.21	--
		VOC	0.17	--
B8	Boiler No. 8 Stack (2.10 MMBtu/hr) (Natural gas)	PM	0.02	--
		PM ₁₀	0.02	--
		PM _{2.5}	0.02	--
		SO ₂	<0.01	--

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		NO _x	0.02	--
		CO	0.08	--
		VOC	0.01	--
	Total Annual Emissions from Natural Gas (Boiler Nos. B1, B2, B3, B4, B5, B6, B7, B8)	PM	--	6.72
		PM ₁₀	--	6.72
		PM _{2.5}	--	6.72
		SO ₂	--	0.53
		NO _x	--	44.20
		CO	--	74.26
		VOC	--	4.86
	Total Annual Emissions from Biogas (Boiler Nos. B1 and B3)	PM	--	1.59
		PM ₁₀	--	1.59
		PM _{2.5}	--	1.59
		SO ₂	--	20.52
		NO _x	--	10.45
		CO	--	17.56
		VOC	--	1.15
A1	Packed bed Scrubber No. 1 Stack (Room air and Rendering Cooker)	PM	0.02	0.03
		PM ₁₀	0.02	0.03
		PM _{2.5}	<0.01	0.01
A2	Packed Bed Scrubber No. 2 Stack (Room air and Blood Dryer)	PM	<0.01	0.02
		PM ₁₀	<0.01	0.02
		PM _{2.5}	<0.01	<0.01
		SO ₂	<0.01	<0.01
		NO _x	<0.01	<0.01
		CO	<0.01	<0.01
		VOC	<0.01	<0.01
		H ₂ S	<0.01	<0.01
		NH ₃	<0.01	0.01

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		Odor (6)	--	--
BF1	Blood Meal Bin Vent Filter Stack	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
LO1	Truck Loadout (5)	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
F1	Biogas Emergency Flare with Propane Pilot	SO ₂	23.43	0.95
		NO _x	3.77	0.33
		CO	7.48	0.46
		VOC	3.79	0.20
		H ₂ S	0.25	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) 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
 - H₂S - hydrogen sulfide
 - NH₃ - ammonia
- (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) Odors shall be maintained at a minimum level.
- (7) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit.

Date: December 10, 2019