

Emission Sources - Maximum Allowable Emission Rates

Permit Number 84349

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 (5)
BLR2	Boiler No. 2 Stack (26.67 MMBtu/hr) (Natural Gas or Natural Gas/Biogas blend)	PM	0.26	1.11
		PM ₁₀	0.26	1.11
		PM _{2.5}	0.26	1.11
		SO ₂	6.60	25.96
		NO _x	1.71	7.33
		CO	2.88	12.31
		VOC	0.19	0.81
		Odors (4)	--	--
BLR4	Boiler No. 4 Stack (34 MMBtu/hr) (Natural Gas)	PM	0.25	1.11
		PM ₁₀	0.25	1.11
		PM _{2.5}	0.25	1.11
		SO ₂	0.02	0.09
		NO _x	1.67	7.30
		CO	2.80	12.26
		VOC	0.18	0.80
BLR5	Boiler No. 5 Stack (41.84 MMBtu/hr) (Natural Gas)	PM	0.31	1.37
		PM ₁₀	0.31	1.37
		PM _{2.5}	0.31	1.37
		SO ₂	0.02	0.11
		NO _x	2.05	8.98
		CO	3.45	15.09
		VOC	0.23	0.99
BLR6	Boiler No. 6 Stack (41.84 MMBtu/hr) (Natural Gas)	PM	0.31	1.37
		PM ₁₀	0.31	1.37

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		PM _{2.5}	0.31	1.37
		SO ₂	0.02	0.11
		NO _x	2.05	8.98
		CO	3.45	15.09
		VOC	0.23	0.99
BLR7	Boiler No. 7 Stack (12.6 MMBtu/hr) (Natural Gas)	PM	0.09	0.41
		PM ₁₀	0.09	0.41
		PM _{2.5}	0.09	0.41
		SO ₂	0.01	0.03
		NO _x	0.62	2.71
		CO	1.04	4.54
		VOC	0.07	0.30
		Odors (4)	--	--
SCRBR	3-Stage Packed-Bed Scrubber System Stack (Room air and Rendering Cooker) (18 tph capacity cooker, two 9,000 cfm packed- bed scrubbers followed by a 100,000 cfm packed-bed room air scrubber)	Odors (4)	--	--
BIN1	Outdoor Meal Bin 1 Vent (Finished Meat and Bone Meal and Finished Bone Meal) (6)	PM	0.15	0.20
		PM ₁₀	0.05	0.05
		PM _{2.5}	0.01	0.01
BIN2	Outdoor Meal Bin 2 Vent (Finished Meat and Bone Meal and Finished Bone Meal) (6)	PM	0.15	0.20
		PM ₁₀	0.05	0.05
		PM _{2.5}	0.01	0.01
FUG LOAD1	Truck Loading (6)	PM	0.11	0.03
		PM ₁₀	0.01	0.01
		PM _{2.5}	<0.01	<0.01
FLR1	Flare (Flare and Natural Gas Pilot)	SO ₂	11.95	12.91
		NO _x	1.39	1.51

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		CO	11.93	12.86
		VOC	0.21	0.26
		H ₂ S	0.13	0.14
TT1	Storage Tallow Tank 1 (6)	VOC	0.06	0.14
TT2	Storage Tallow Tank 2 (6)	VOC	0.06	0.14
TT3	Storage Tallow Tank 3 (6)	VOC	0.06	0.14
TT4	Storage Tallow Tank 4 (6)	VOC	0.06	0.14
FUG LOAD2	Tallow Loading (6)	VOC	0.32	0.51
FUG TST	Settling Tallow Tank 1 and 2 (6)	VOC	0.26	0.90
DRYR1	Bone Meal Dryer Stack (14 MMBtu/hr) (Natural Gas)	PM	0.10	0.46
		PM ₁₀	0.10	0.46
		PM _{2.5}	0.10	0.46
		SO ₂	0.01	0.04
		NO _x	0.69	3.01
		CO	1.15	5.05
		VOC	0.08	0.33
BIN3	Meal Bin 3 Vent (Finished Bone Meal) (6)	PM	0.01	0.03
		PM ₁₀	<0.01	0.01
		PM _{2.5}	<0.01	<0.01
FUG GRND	Bone Meal Hammermill, Grinding, Screening, and Grinding Room Bin (6)	PM	0.10	0.31
		PM ₁₀	0.08	0.27
		PM _{2.5}	0.01	0.05

- (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

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H₂S - hydrogen sulfide

- (4) Odors shall be maintained at a minimal level.
- (5) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (6) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (7) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit.

Date: January 15, 2020