

Emission Sources - Maximum Allowable Emission Rates

Permit Number 75702

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)
GH-FUG	Grain Fugitives (5)	PM	1.05	0.81
S-20	Unloading Baghouse	PM	2.06	9.01
		PM ₁₀	2.06	9.01
		PM _{2.5}	2.06	9.01
SS-FUG	Scalping Fugitives (5)	PM ₁₀	0.03	0.02
S-30	Hammermilling Baghouse	PM	0.77	3.38
		PM ₁₀	0.77	3.38
		PM _{2.5}	0.77	3.38
S-40	Fermentation Scrubber	PM	0.15	0.63
		PM ₁₀	0.15	0.63
		PM _{2.5}	0.15	0.63
		VOC	9.30	40.73
S-110A	Boiler Stack 1	PM	1.14	4.99
		PM ₁₀	1.14	4.99
		PM _{2.5}	1.14	4.99
		NO _x	3.00	9.86
		SO ₂	0.09	0.39
		CO	5.25	23.00
		VOC	0.83	3.61

S-110B	Boiler Stack 2	PM	1.14	4.99
--------	----------------	----	------	------

Emission Sources - Maximum Allowable Emission Rates

		PM ₁₀	1.14	4.99
		PM _{2.5}	1.14	4.99
		NO _x	3.00	9.86
		SO ₂	0.09	0.39
		CO	5.25	23.00
		VOC	0.83	3.61
S-10	Dryers A and B and RTO	PM	4.44	19.44
		PM ₁₀	4.44	19.44
		PM _{2.5}	4.44	19.44
		NO _x	10.00	43.78
		CO	7.84	34.35
		VOC	4.13	18.08
		SO ₂	6.52	27.62
S-80	Cooling Tower	PM	0.62	2.74
		PM ₁₀	0.62	2.74
		PM _{2.5}	0.62	2.74
EQ-FUG	Equipment Leak Fugitives (5)	VOC	0.43	1.86
S-50	Truck/Rail Loadout Flare	NO _x	0.85	1.57
		CO	4.60	8.32
		VOC	6.85	9.22
		SO ₂	0.00	0.00
S-60	Biomethanator Flare (6)	NO _x	0.45	1.95
		CO	2.38	10.41
		VOC	0.33	1.46
T-1	190 Proof Ethanol Tank	VOC	0.30	0.55
T-2	200 Proof Ethanol Tank	VOC	0.30	0.56
T-3	Denaturant Gasoline Tank	VOC	0.48	1.65
T-4	Denatured Ethanol	VOC	0.13	0.33

Emission Sources - Maximum Allowable Emission Rates

	and 1 Tank			
T-5	Denatured Ethanol and 2 Tank	VOC	0.13	0.33
T-6	Corrosion Inhibitor Tank	VOC	0.00	0.00
T-Oil	Oil Separation Tanks	VOC	1.77	<0.01
PV-FUG	Process Vent Fugitives (5)	VOC	0.16	0.71
LD-FUG	Loading Fugitives (5)	VOC	4.59	6.07
LD-OIL	Oil Separation Loading	VOC	1.39	0.07
S-100	Emergency Water Pump Engine	PM	0.06	0.02
		PM ₁₀	0.06	0.02
		PM _{2.5}	0.06	0.02
		NO _x	3.45	0.86
		CO	0.18	0.05
		VOC	0.09	0.02
		SO ₂	0.39	0.10
WD-FUG	Wet DGS Fugitives (5)	VOC	0.79	3.44
MSS_EP	MSS Activities for Equipment Painting	VOC	7.00	0.07
MSS_FERM	MSS Activities at Fermentation	VOC	15.09	0.15
MSS_DIST	MSS Activities at Distillation	VOC	18.21	0.09
MSS_TANK	MSS Activities at Tank Farm	VOC	9.93	0.10
MSS_LOAD	MSS Activities at Ethanol Loading	VOC	1.66	0.01
MSS_OIL	MSS Activities at Oil Separation	VOC	1.77	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

Emission Sources - Maximum Allowable Emission Rates

- (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) Emission rate when biomethanator system is producing biogas and biomethanator flare is operating.

Date: February 23, 2017