

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. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	
TPY**				
GH-FUG	Handling Fugitives (4)	PM	2.56	3.05
		PM ₁₀	1.43	1.70
S-20	Unloading Baghouse	PM/PM ₁₀	2.00	8.45
SS-FUG	Scalping Fugitives (4)	PM	0.40	1.20
		PM ₁₀	0.40	1.20
S-30	Hammermilling Baghouse	PM/PM ₁₀	0.91	3.87
S-70	Drying/Cooling Baghouse	PM/PM ₁₀	1.13	4.79
		VOC	2.51	9.69
RL-FUG	DDGS Storage and Loading Fugitives (4)	PM	2.58	0.70
		PM ₁₀	0.87	0.24
S-90	DDGS Loadout Baghouse	PM/PM ₁₀	0.38	0.49
S-40	Fermentation Scrubber	PM	0.12	0.53
		PM ₁₀	0.07	0.28
		VOC	11.80	50.00
S-110A	Boiler Stack 1	PM/PM ₁₀	0.91	3.99
		NO _x	2.40	5.26
		SO ₂	0.07	0.32
		CO	6.00	26.28
		VOC	0.66	2.89

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	
<u>TPY**</u>				
S-110B	Boiler Stack 2	PM/PM ₁₀	0.91	3.99
		NO _x	2.40	5.26
		SO ₂	0.07	0.32
		CO	6.00	26.28
		VOC	0.66	2.89
S-10	Dryers A and B and RTO	PM/PM ₁₀	4.20	16.22
		NO _x	10.00	43.80
		CO	11.02	42.57
		VOC	4.96	19.17
		SO ₂	9.51	36.76
F-80	Cooling Tower	PM/PM ₁₀	3.13	13.70
		VOC	0.01	0.04
EQ-FUG	Equipment Leak Fugitives (4)	VOC	1.17	5.11
		NH ₃	0.08	0.35
S-50	Truck/Rail Loadout Flare	PM/PM ₁₀	0.01	0.01
		NO _x	0.42	0.36
		CO	3.53	2.75
		VOC	8.08	0.44
		SO ₂	0.01	0.01
S-60	Methanator Flare	PM/PM ₁₀	0.01	0.01
		NO _x	0.45	0.15
		CO	2.38	0.63
		VOC	0.33	0.09
		SO ₂	0.01	0.01
T-1	190 Proof Ethanol Tank	VOC	1.04	0.46
T-2	200 Proof Ethanol Tank	VOC	0.10	0.46
T-3	Denaturant Gasoline Tank	VOC	0.62	1.63

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	
<u>TPY**</u>				
T-4	Denatured Ethanol and 1 Tank	VOC	0.58	0.37
T-5	Denatured Ethanol and 2 Tank	VOC	0.48	0.37
T-6	Corrosion Inhibitor Tank	VOC	1.08	0.01
S-100	Emergency Water Pump Engine	PM/PM ₁₀	0.06	0.01
		NO _x	3.45	0.52
		CO	0.18	0.03
		VOC	0.09	0.01
		SO ₂	0.39	0.06
LD-FUG	Loading Fugitives (4)	VOC	25.86	1.74
PV-FUG	Process Vent Fugitives (4)	VOC	0.15	0.65
WD-FUG	Wet DGS Fugitives (4)	VOC	0.39	1.72

- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources, use an area name or fugitive source name.
- (3) PM - particulate matter, suspended in the atmosphere, including PM₁₀.
 PM₁₀ - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.
 VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 NO_x - total oxides of nitrogen
 CO - carbon monoxide
 SO₂ - sulfur dioxide
 NH₃ - ammonia
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

- * Emission rates are based on and the facilities are limited by the following maximum operating schedule:

24 Hrs/day 7 Days/week 52 Weeks/year

- ** Compliance with annual emission limits is based on a rolling 12-month period.

Dated October 31, 2008