EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 78440

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)
S20	Unloading Baghouse	PM/PM_{10}	1.65	7.21
S30	Hammermill Baghouse	PM/PM_{10}	0.96	4.20
S70	DDGS Cooler Baghouse	PM/PM_{10}	1.03	4.51
		VOC	1.55	6.81
S90	DDGS Loading Baghouse	PM/PM_{10}	0.31	1.37
S110A	Boiler Stack 1	PM/PM_{10}	0.91	3.99
		NO_x	2.40	5.26
		SO_2	0.07	0.32
		CO	4.20	18.40
		VOC	0.66	2.89
S110B	Boiler Stack 2	PM/PM_{10}	0.91	3.99
		NO_x	2.40	5.26
		SO_2	0.07	0.32
		CO	4.20	18.40
		VOC	0.66	2.89
S10	Regenerative Thermal Oxidizer and Dryers	PM/PM_{10}	6.67	19.47
		NO_x	10.00	24.09
		SO_2	10.03	43.95
		CO	6.89	30.17

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		VOC	2.22	9.73
S40	Fermentation Scrubber	VOC	11.42	50.00
		PM/PM_{10}	0.14	0.60
S60	Biomethanator Flare	NO_x	0.45	1.95
		CO	2.38	10.41
		VOC	0.33	1.46
S50	Ethanol Loadout Flare	NO_x	0.85	3.74
		CO	4.60	20.13
		VOC	0.65	2.83
T1	190 Proof Storage Tank	VOC	0.12	0.53
T2	200 Proof Storage Tank	VOC	0.12	0.53
T3	Denaturant Storage Tank	VOC	0.37	1.63
T4	Denatured Ethanol Storage 1	VOC	0.09	0.38
T5	Denatured Ethanol Storage 2	VOC	0.09	0.38
T6	Corrosion Inhibitor	VOC	0.01	0.01
PL-FUG	Product Loading (5) (Truck Loading Fugitives)	VOC	1.33	5.84
S100	Emergency Fire Water Pump	PM/PM_{10}	0.06	0.01
		NO_x	3.45	0.86
		SO_2	0.39	0.10
		CO	0.18	0.05
		VOC	0.09	0.02
EQ-FUG	Equipment Leak	VOC	2.02	8.84

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	Fugitives (5)			
GH-FUG and RL-FUG	Grain and DDGS Fugitives	PM/PM_{10}	0.92/0.41	4.01/1.81
PV-FUG	Insig. Process Vents	VOC	0.15	0.65
WD-FUG	Wetcake Fugitives	VOC PM/PM_{10}	0.95 0.01/0.001	4.14 0.03/0.005
MAINTENANCE, STARTUP, AND SHUTDOWN (MSS) EMISSIONS				
MSS_EP	Equipment Painting	VOC	3.32	0.02
MSS_FERM	Fermentation Equipment	VOC	15.08	0.18
MSS_DIST	Distillation Equipment	VOC	18.21	0.07
MSS_TANK	Tank Farm	VOC	21.59	1.51
MSS_LOAD	Ethanol Loading Operation	VOC	1.66	0.01
MSS_S100	Firewater Pump	VOC NO_x CO PM_{10}	0.01 0.01 0.01 0.01	0.01 0.01 0.01 0.01

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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
CO - carbon monoxide
(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.

Date: _____