

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 81765

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 Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
F-1	Grain Day Silo	PM ₁₀	0.43	1.88
F-2	Hammermill Building	PM ₁₀	1.89	2.06
F-3	Preparation Day Silo	PM ₁₀	0.43	1.88
F-4	Milled Grain Transport	PM ₁₀	0.43	1.88
S-1	Mash Preparation Scrubber	VOC	3.75	16.43
		HAP (5)	0.48	2.10
S-2	Fermentation Scrubber	VOC	7.60	33.29
		HAP (5)	0.80	3.51
S-3	Distillation Scrubber	VOC	2.40	10.51
		HAP (5)	0.54	2.37
VJ-1	Distillation Evaporator	VOC	0.12	0.53
VJ-2	Final Evaporator	VOC	0.12	0.53
D-1	DDGS Drying/Thermal Oxidizer No. 1	PM/PM ₁₀	3.08	13.49
		VOC	3.00	13.14
		HAP (5)	0.40	1.77
		NO _x	5.40	23.65
		CO	4.40	19.27
		SO ₂	1.29	5.65
D-2	DDGS Drying/Thermal Oxidizer No. 2	PM/PM ₁₀	3.08	13.49
		VOC	3.00	13.14
		HAP (5)	0.40	1.77
		NO _x	5.40	23.65
		CO	4.40	19.27

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		SO ₂	1.29	5.65
T-101	Daily Test Tank No. 1	VOC	0.34	0.30
		HAP (5)	0.01	0.01
T-102	Daily Test Tank No. 2	VOC	0.34	0.30
		HAP (5)	0.01	0.01
T-103	Anhydrous Ethanol Tank	VOC	0.40	0.47
		HAP (5)	0.01	0.01
T-104	Denaturant Tank	VOC	0.51	1.55
		HAP (5)	0.03	0.08
T-105	Denatured Alcohol Tank	VOC	0.41	0.52
		HAP (5)	0.01	0.01
FL-1	Ethanol Barge Loading Flare	VOC	2.61	0.61
		HAP (5)	0.03	0.01
		NO _x	0.55	0.41
		CO	2.20	1.65
		SO ₂	0.06	0.05
F-5	DDGS Storage Filter	PM ₁₀	0.43	1.88
B-1	Boiler Nos. 1 and 2	PM ₁₀	2.32	10.18
		VOC	1.68	7.36
		HAP (5)	0.56	2.54
		NO _x	3.12	13.67
		CO	11.23	49.19
		SO ₂	4.91	21.50
FL-2	Loading and Biomethanation Flare	VOC	0.62	0.15
		HAP (5)	0.02	0.01
		NO _x	1.03	0.62
		CO	4.12	2.49
		SO ₂	11.27	4.96
LFG-1	Truck Loading Fugitives (4)	VOC	1.56	1.81
		HAP (5)	0.01	0.02
FG-1	Process Fugitives - Mash	VOC	0.03	0.14

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	Prep Area (4)	HAP (5)	0.02	0.07
FG-2	Process Fugitives - Fermentation Area (4)	VOC	0.09	0.38
		HAP (5)	0.01	0.02
FG-3	Process Fugitives - Distillation Area (4)	VOC	0.90	3.92
		HAP (5)	0.05	0.20
FG-4	Process Fugitives - Storage Tank Area (4)	VOC	0.26	1.15
		HAP (5)	0.01	0.06
FG-5	Process Fugitives - Wastewater Area (4)	VOC	0.01	0.01
		HAP (5)	0.01	0.01
T-106	Wastewater Tank	VOC	0.01	0.01
CT-1	Cooling Tower	VOC	1.68	7.68
F-6	Lime Silo	PM ₁₀	0.43	1.88
E-1	Fire Water Pump Engine	PM ₁₀	0.66	0.10
		VOC	0.75	0.11
		HAP (5)	0.01	0.01
		NO _x	9.30	1.40
		CO	2.00	0.30
		SO ₂	0.62	0.09

(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) Exempt Solvent - Those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compound.

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

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NO _x	-	total oxides of nitrogen
SO ₂	-	sulfur dioxide
PM	-	particulate matter, suspended in the atmosphere, including PM ₁₀ and PM _{2.5}
PM ₁₀	-	particulate matter equal to or less than 10 microns in diameter
PM _{2.5}	-	particulate matter equal to or less than 2.5 microns in diameter
CO	-	carbon monoxide
HAP	-	any air contaminant (pollutant) listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) The sitewide allowable emissions of HAPs will be less than 10 tons per year (tpy) for any one HAP and less than 25 tpy for all HAPS. Compliance with these allowables is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.

- * 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 or 8,760 Hrs/year

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

2008

Dated February 8,