

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

AIR CONTAMINANTS DATA				
Emission Rates *	Source	Air Contaminant	<u>Emission</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	
TPY**				
S21	Corn Day Bin Baghouse	PM/PM <sub>10</sub>	0.23	1.01
S30	Hammermill Baghouse	PM/PM <sub>10</sub>	2.40	10.51
S70	DDGS Cooler Baghouse	PM/PM <sub>10</sub>	1.11	4.88
		VOC	2.45	10.73
S90	DDGS Loading Baghouse	PM/PM <sub>10</sub>	0.76	3.42
S10	Boiler Nos.1 and 2	PM/PM <sub>10</sub>	1.82	7.99
		NO <sub>x</sub>	4.80	10.51
		SO <sub>2</sub>	0.14	0.63
		CO	9.60	42.05
		VOC	1.32	5.78
S11	Regenerative Thermal Oxidizer and Dryers	PM/PM <sub>10</sub>	4.08	17.88
		NO <sub>x</sub>	10.00	43.80
		SO <sub>2</sub>	12.56	55.00
		CO	11.43	50.05
		VOC	3.67	16.09
S40	Fermentation Scrubber (5)	VOC	11.39	49.88
SEP11	Biomethanator Flare	NO <sub>x</sub>	0.22	0.56
		CO	1.18	3.11
		VOC	0.17	0.44

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## AIR CONTAMINANTS DATA

<u>Emission Rates *</u>	Source	Air Contaminant	<u>Emission</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr TPY**</u>	
SEP22	Truck and Rail Loadout Flare	NO <sub>x</sub>	0.35	0.77
		CO	1.92	4.21
		VOC	8.95	4.89
T61	Denatured Ethanol Storage Tank	VOC	0.93	0.40
T62	Denatured Ethanol Storage Tank	VOC	0.93	0.40
T63	200 Proof Ethanol Tank	VOC	0.12	0.46
T64	Denaturant Gasoline Tank	VOC	0.53	1.73
T65	190 Proof Ethanol Tank	VOC	0.12	0.44
F20	Emergency Truck Dump	PM	0.32	1.40
		PM <sub>10</sub>	0.08	0.35
F50	Product Loading (4) (Truck Loading Fugitives)	VOC	3.42	2.61
F75	WDGS Storage	VOC	2.07	2.56
S100	Emergency Fire Water Pump	PM/PM <sub>10</sub>	0.10	0.01
		NO <sub>x</sub>	2.19	0.33
		SO <sub>2</sub>	0.25	0.04
		CO	0.11	0.02
		VOC	0.06	0.01
F100	Equipment Leak Fugitives (4)	VOC	0.31	1.34

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- (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 PM<sub>10</sub>.  
PM<sub>10</sub> - 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<sub>x</sub> - total oxides of nitrogen  
CO - carbon monoxide  
SO<sub>2</sub> - sulfur dioxide
- (4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
- (5) The site-wide allowable emissions of HAPs will be less than 10 tpy for any one HAP and less than 25 tpy for all HAPS. Compliance with these allowable is demonstrated by meeting the requirements of the applicable special conditions and permit application.

- \* 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 August 26, 2008