

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 79890

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)	<u>Emission Rates *</u>	
			lb/hr	TPY**
RP-FUG	Receiving Pit (4)	PM	0.10	0.02
		PM <sub>10</sub>	0.01	0.01
GH-FUG	Handling Fugitives (4)	PM	6.83	1.68
		PM <sub>10</sub>	3.81	0.94
S1	Grain Unloading/Milling Baghouse	PM/PM <sub>10</sub>	2.49	10.92
S3	Fermentation Scrubber	VOC	7.79	33.00
		HAPs	(5)	
		PM	0.07	0.29
		PM <sub>10</sub>	0.04	0.15
S5	Boiler Nos.1 and 2	PM/PM <sub>10</sub>	1.14	4.99
		NO <sub>x</sub>	3.00	6.57
		CO	5.25	23.00
		VOC	0.83	3.61
		HAPs	(5)	
		SO <sub>2</sub>	2.25	0.39
S8	Cooling Tower (4)	PM/PM <sub>10</sub>	0.31	1.36
		VOC	1.04	4.55
S9	Evaporative Cooler (4)	PM/PM <sub>10</sub>	0.05	0.22
		VOC	0.17	0.74
EQ-FUG	Equipment Leak Fugitives (4)	VOC	0.88	3.87
		HAPs	(5)	

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

## AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
S6	Truck and Rail Loadout Flare	NO <sub>x</sub>	0.27	0.24
		CO 2.26	1.76	
		VOC 6.33	2.66	
		HAPs	(5)	
		SO <sub>2</sub> 0.01	0.01	
S4	ATM Flare	NO <sub>x</sub>	0.16	0.70
		CO 0.82	3.60	
		VOC 0.11	0.50	
		SO <sub>2</sub> 0.01	0.01	
TF-1	Off Spec Tank	VOC	0.07	0.24
		HAPs	(5)	
TF-2	200 Proof Ethanol Tank	VOC	0.07	0.24
		HAPs	(5)	
TF-3	Denaturant Gasoline Tank	VOC	0.33	0.91
		HAPs	(5)	
TF-4	Denatured Ethanol No. 1 Tank	VOC	0.19	0.23
		HAPs	(5)	
TF-5	Denatured Ethanol No. 2 Tank	VOC	0.19	0.23
		HAPs	(5)	
TF-6	Thin Stillage Tank	VOC	0.01	0.03
TF-7	Syrup Tank	VOC	0.01	0.03
TF-8	Cook Water Tank	VOC	0.01	0.04
TF-9	Liquifaction Tank No. 1	VOC	0.14	0.62
TF-10	Liquifaction Tank No. 2	VOC	0.14	0.62
TF-11	Whole Stillage Tank	VOC	0.01	0.05

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

## AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
S7	Emergency Water Pump Engine	PM/PM <sub>10</sub>	0.46	0.11
		NO <sub>x</sub>	6.45	1.61
		CO	1.39	0.35
		VOC	0.51	0.13
		SO <sub>2</sub>	0.43	0.11
LD-FUG	Loading Emissions (4)	VOC	16.65	7.00
		HAPs	(5)	
WD-FUG	Wet WDGS Storage Fugitives (4)	VOC	0.43	1.89
		HAPs	(5)	

- 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  
HAPs - hazardous air pollutants as defined in Title 40 Code of Federal Regulations Part 63, Subpart C.  
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 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

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

Dated March 15, 2007