

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 77549

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**
B-1	Natural Gas Fired Boiler No. 1	PM	0.57	2.50
		PM <sub>10</sub>	0.14	0.62
		VOC	0.41	1.81
		NO <sub>x</sub>	0.75	3.29
		CO	2.63	11.50
		SO <sub>2</sub>	0.05	0.20
B-2	Natural Gas Fired Boiler No. 2	PM	0.57	2.50
		PM <sub>10</sub>	0.14	0.62
		VOC	0.41	1.81
		NO <sub>x</sub>	0.75	3.29
		CO	2.63	11.50
		SO <sub>2</sub>	0.05	0.20
GS-1, GS-2	Grain Storage	PM	1.90	8.33
		PM <sub>10</sub>	0.48	2.10
C10	Grain Handling Emissions	PM	1.67	7.32
		PM <sub>10</sub>	1.67	7.32
C20	Grain Milling Emissions	PM	0.75	3.29
		PM <sub>10</sub>	0.75	3.29
C30	Fermentation Scrubber	VOC	8.57	37.51
		PM	0.08	0.33
		PM <sub>10</sub>	0.04	0.17

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
C40	Regenerative Thermal Oxidizer / Dryers Nos.1 and 2	PM	4.64	20.28
		PM <sub>10</sub>	3.03	13.29
		VOC	2.60	11.41
		NO <sub>x</sub>	9.58	41.99
		CO	10.01	43.88
		SO <sub>2</sub>	4.01	17.57
WDG	Wet Distillers Grain Handling (4)	VOC	0.08	0.36
C60	Cooling Cyclone	VOC	1.54	6.73
		PM	1.20	5.26
		PM <sub>10</sub>	1.20	5.26
C70	DDGS Loading Controlled Emissions	PM	0.16	0.70
		PM <sub>10</sub>	0.16	0.70
DDGSSTORFUG	DDGS Storage Fugitives (4)	PM	0.11	0.48
		PM <sub>10</sub>	0.03	0.12
DDGSLOADFUG	DDGS Loading Fugitives (4)	PM	0.43	1.88
		PM <sub>10</sub>	0.15	0.64
C80	Ethanol Loadout Flare	VOC	1.41	1.61
		NO <sub>x</sub>	0.22	0.51
		CO	1.18	2.79
		SO <sub>2</sub>	0.01	0.01
C90	Biomethanator Flare (5)	VOC	0.33	0.09
		NO <sub>x</sub>	0.45	0.15
		CO	2.38	0.63
		SO <sub>2</sub>	0.01	0.01
		PM	0.01	0.01
		PM <sub>10</sub>	0.01	0.01
ETHLOAD	Ethanol Loadout Fugitives (4)	VOC	0.52	0.21
ETHPLNTFUG	Equipment Leak Fugitives (4)	VOC	0.50	2.19

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		NH <sub>3</sub>	0.01	0.01
TRICANSYS	Tricanter System Fugitives (4)	VOC	0.73	3.17
CT-1	Cooling Tower No.1	PM	0.21	0.90
		PM <sub>10</sub>	0.21	0.90
		VOC	0.76	3.31
T-01	Denatured Ethanol Storage Tank No.1	VOC	0.04	0.16
T-02	Denatured Ethanol Storage Tank No. 2	VOC	0.04	0.16
T-03	Ethanol Storage Tank (Shift Tank, undenatured)	VOC	0.07	0.30
T-04	Denaturant (Gas) Storage Tank	VOC	0.38	1.23
T-05	Ethanol Storage Tank (Shift Tank, undenatured)	VOC	0.07	0.30
T-07	Ammonia Storage Tank	NH <sub>3</sub>	0.01	0.01

- (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) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1  
 NO<sub>x</sub> - total oxides of nitrogen  
 SO<sub>2</sub> - sulfur dioxide  
 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 particulate matter greater than 10 microns is emitted.  
 CO - carbon monoxide  
 NH<sub>3</sub> - ammonia
- (4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
- (5) Emission rate includes emissions from pilot flame operating 8,760 hours per year.

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

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

24 Hrs/day 7 Days/week 52 Weeks/year or 8,760 Hrs/year

Dated March 3, 2009