

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 75818

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. (EPN) (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
A1	Truck Grain Receiving	PM	3.41	1.00
		PM <sub>10</sub> 0.76	0.22	
B2	Rail Grain Receiving	PM	6.84	3.00
		PM <sub>10</sub> 1.67	0.67	
C3	Grain Handling/Storage	PM	0.29	3.66
		PM <sub>10</sub> 0.04	2.04	
D4	Milling	PM	3.01	6.60
		PM <sub>10</sub> 1.51	3.30	
E5	Regenerative Thermal Oxidizer	NO <sub>x</sub>	0.16	0.70
		SO <sub>2</sub>	0.01	
		CO 0.14	0.60	
		VOC 0.24	1.07	
		PM <sub>10</sub> 0.01	0.06	
H8	Cooling Tower	PM	0.31	1.36
		PM <sub>10</sub> 0.12	0.54	
		VOC 0.01	0.01	
J9	Methanator Flare	NO <sub>x</sub>	0.28	0.11
		CO 1.49	0.41	
		VOC 0.21	0.05	
		SO <sub>2</sub> 0.01	0.01	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
K10	Truck/Rail Fuel Loadout Flare	NO <sub>x</sub>	0.28	0.11
		CO	1.49	0.41
		VOC	0.21	0.05
		SO <sub>2</sub>	0.01	0.01
L11	Emergency Fire Water Pump	NO <sub>x</sub>	5.89	0.15
		SO <sub>2</sub>	0.39	0.01
		CO	1.27	0.03
		VOC	0.47	0.01
		PM <sub>10</sub>	0.42	0.01
T1	Denatured Ethanol Tank	VOC	0.80	0.42
T2	Denatured Ethanol Tank	VOC	0.80	0.42
T3	Gasoline Tank	VOC	1.66	1.72
T4	200 Proof Ethanol Tank	VOC	0.40	0.41
T5	190 Proof Ethanol Tank	VOC	0.40	0.41
V1	Grain Storage Silo	PM	0.13	(6)
		PM <sub>10</sub>	0.03	(6)
V2	Grain Storage Silo	PM	0.13	(6)
		PM <sub>10</sub>	0.03	(6)
V3	Grain Storage Silo	PM	0.13	(6)
		PM <sub>10</sub>	0.03	(6)
V4	Grain Storage Silo	PM	0.13	(6)
		PM <sub>10</sub>	0.03	(6)
V5	Grain Storage Silo	PM	0.13	(6)
		PM <sub>10</sub>	0.03	(6)

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
V6	Grain Storage Silo	PM	0.13	(6)
		PM <sub>10</sub> 0.03	(6)	
V7	Grain Storage Silo	PM	0.13	(6)
		PM <sub>10</sub> 0.03	(6)	
V8	Grain Storage Silo	PM	0.13	(6)
		PM <sub>10</sub> 0.03	(6)	
Grain Silo Emission Cap (EPNs V1 to V8)		PM		0.14
		PM <sub>10</sub>		0.03
P	Wet DGS Storage/Handling	PM	0.02	0.02
		PM <sub>10</sub> 0.01	0.01	
F6	Fluidized Bed Boiler	NO <sub>x</sub>	21.41	94.00
		CO 19.94	87.00	
		VOC 3.11	14.00	
		SO <sub>2</sub> 18.65	82.00	
		PM <sub>10</sub> 7.75	34.00	
		Arsenic	0.01	0.04
		Cadmium	0.01	0.01
		Chromium	0.06	0.30
		Lead 0.08	0.33	
		Mercury	0.01	0.01
		Selenium	0.01	0.01
		HCl 1.97	8.63	
		NH <sub>3</sub> 41.70	140.00	
G7	Package Boiler	NO <sub>x</sub>	3.27	14.32
		CO 11.43	50.06	
		VOC 1.80	7.88	
		SO <sub>2</sub> 1.96	8.58	
		PM <sub>10</sub> 2.48	10.86	
Boiler Emission Cap (5)			NO <sub>x</sub>	

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(EPNs F6 and G7)		94.57 CO		89.00
FUG1	Fugitives (4)	VOC	1.73	7.56
FUG2	Ethanol Loading Losses	VOC	0.80	1.08
FUG3	Gasoline Loading Losses	VOC	7.90	0.36
Manure Holding 1	Manure Enclosure (4)	PM	0.02	0.09
		PM <sub>10</sub>	0.01	0.04
Manure Holding 2	Manure Stockpiling (4)	PM	0.02	0.09
		PM <sub>10</sub> 0.01	0.04	
Manure Holding 3	Stockpile/Enclosure Transfer (4)	PM	0.02	0.09
		PM <sub>10</sub> 0.01	0.04	

(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

HCl - hydrochloric acid

NH<sub>3</sub> - ammonia

NO<sub>x</sub> - total oxides of nitrogen

CO - carbon monoxide

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.

(4) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

(5) Annual NO<sub>x</sub> and CO emissions from EPNs F6 and G7 shall not exceed those listed under "Boiler Emission Cap."

(6) Emission rates listed under EPN "Grain Silo Emission Cap."

Permit Number 75818  
Page 5

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

Hrs/day \_\_\_\_ Days/week \_\_\_\_ Weeks/year or 8,760 Hrs/year

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

Dated October 11, 2005