

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 80315

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**
S1	Grain Receiving Baghouse	PM	1.93	8.45
		PM ₁₀	1.93	8.45
S2	Milling Baghouse Stack	PM	1.29	5.63
		PM ₁₀	1.29	5.63
S3	Ash Handling Baghouse	PM	0.30	1.27
		PM ₁₀	0.05	0.21
S4	RTO	NO _x	0.32	1.40
		CO	0.28	1.23
		SO ₂	0.01	0.02
		VOC	0.16	0.70
		PM/PM ₁₀	0.07	0.30
		HAPs (5)	0.23	1.00
S7	Fluid Bed Boiler (gasifier/HRSG)	NO _x	21.41	94.00
		CO	19.94	88.00
		SO ₂	18.65	82.00
		VOC	3.11	14.00
		PM/PM ₁₀	7.75	34.00
		NH ₃	41.70	140.00
		HAPs (5)	2.40	10.50

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			lb/hr	TPY**
S8	Package Boilers Nos. 1 and 2	NO _x	3.27	14.31
		CO	11.43	50.07
		SO ₂	1.96	8.58
		VOC	1.80	7.88
		PM/PM ₁₀	2.48	10.87
		HAPs (5)	0.62	2.70
CT1-CT3	Cooling Tower (4)	PM	0.75	3.29
		PM ₁₀	0.30	1.31
S9	Methanator Flare	NO _x	0.28	0.11
		CO	1.49	0.41
		VOC	0.21	0.05
		SO ₂	0.01	0.01
S6	Truck and Rail Fuel Loadout Flare	NO _x	3.25	0.50
		CO	17.66	2.56
		VOC	2.48	0.36
		SO ₂	0.01	0.01
S10	Emergency Fire Water Pump Engine	NO _x	6.45	0.97
		SO ₂	0.43	0.06
		CO	1.39	0.21
		VOC	0.51	0.08
		PM/PM ₁₀	0.46	0.07
T1	Denatured Ethanol Tank	VOC	0.83	0.86
		HAPs (5)	0.01	0.02
T3	Gasoline Tank	VOC	0.39	1.73
		HAPs (5)	0.15	0.65
T4	200 Proof Ethanol Tank	VOC	0.10	0.44

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T5	190 Proof Ethanol Tank	VOC	0.10	0.44
15	Wet DGS Storage Fugitives (4)	PM	0.03	0.03
		PM ₁₀	0.01	0.01
EQ-FUG	Equipment Leak Fugitives (4)	VOC	1.82	7.95
		HAPs (5)	0.01	0.04
LD-FUG	Ethanol Loading Losses (4)	VOC	20.90	5.33
		HAPs (5)	4.35	1.53
GR-FUG	Grain Handling and Storage Fugitives	PM	3.89	2.58
		PM ₁₀	1.58	1.04

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

NH₃ - ammonia

NO_x - total oxides of nitrogen

CO - carbon monoxide

SO₂ - sulfur dioxide

PM - particulate matter, suspended in the atmosphere, including PM₁₀.

PM₁₀ - 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.

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

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- (4) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) 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 allowables 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:

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 August 31, 2007