

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, sources, and related activities. 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	
			lbs/hour	TPY (4)
A1	Grain Receiving Baghouse	PM	1.54	1.23
B2	Grain Receiving Filter	PM	0.02	0.08
C3	Grain Handling/Storage Fugitives	PM	3.62	1.94
		PM ₁₀	1.49	0.81
D4a	Grain Milling Baghouse	PM	0.25	1.08
		PM ₁₀	0.25	1.08
		PM _{2.5}	0.25	1.08
D4b	Grain Milling Baghouse	PM	0.25	1.08
		PM ₁₀	0.25	1.08
		PM _{2.5}	0.25	1.08
D4c	Grain Milling Baghouse	PM	0.25	1.08
		PM ₁₀	0.25	1.08
		PM _{2.5}	0.25	1.08
D4d	Grain Milling Baghouse	PM	0.25	1.08
		PM ₁₀	0.25	1.08
		PM _{2.5}	0.25	1.08
E5	Scrubber and Regenerative Thermal Oxidizer (Scrubber RTO)	NO _x	0.32	1.40
		SO ₂	0.01	0.02
		CO	0.28	1.23
		VOC	7.81	31.31
		PM ₁₀	0.07	0.29
		PM _{2.5}	0.07	0.29
H8	Cooling Tower	PM	0.18	0.77
		PM ₁₀	0.07	0.31
		VOC	0.01	0.01

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J9	Methanator Flare	NO _x	0.28	0.11
		CO	1.49	0.41
		VOC	0.21	0.05
		SO ₂	0.01	0.01
K10	Truck/Rail Fuel Loadout Flare	NO _x	3.25	0.50
		CO	17.66	2.56
		VOC	15.08	1.32
		SO ₂	0.01	0.01
L11	Emergency Fire Water Pump	NO _x	3.76	0.56
		SO ₂	0.01	0.01
		CO	0.70	0.10
		VOC	0.15	0.02
		PM ₁₀	0.10	0.01
T1	Denatured Ethanol Tank	VOC	0.66	0.69
		HAP	0.01	<0.01
T3	Gasoline Tank	VOC	1.79	1.86
		HAP	0.01	0.01
T4	200 Proof Ethanol Tank	VOC	0.43	0.45
		HAP	<0.01	<0.01
T5	Off-Spec 200 Proof Ethanol Tank	VOC	0.43	0.49
		HAP	≤0.01	≤0.01
T6	Corrosion Inhibitor Tank	VOC	0.01	0.01
P	Wet DGS Storage/Handling	PM	0.03	0.03
		PM ₁₀	0.01	0.01

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F6	Fluidized Bed Boiler	NO _x	21.41	---
		CO	19.94	---
		VOC	3.11	9.51
		SO ₂	18.65	55.70
		PM ₁₀	7.75	23.09
		Arsenic	0.01	0.03
		Cadmium	0.01	0.01
		Chromium	0.06	0.20
		Lead	0.08	0.22
		Mercury	0.01	0.01
		Selenium	0.01	0.01
		HCl	1.97	5.86
		NH ₃	41.70	95.09
G7	Package Boilers	NO _x	4.22	---
		CO	10.54	---
		VOC	1.62	7.11
		SO ₂	1.77	7.76
		PM ₁₀	2.24	9.83
Boilers Emission Cap (6) (EPNs F6 and F7)		NO _x		94.57
		CO		89.00
FUG1	Fugitives (5)	VOC	1.73	7.56
FUG2	Denatured Ethanol Loading Losses (Truck)	VOC	0.78	0.43
FUG3	Denatured Ethanol Loading Losses (Rail)	VOC	7.02	0.34
MH1	Manure Enclosure (5)	PM	0.02	0.09
		PM ₁₀	0.01	0.04
MH2	Manure Stockpiling (5)	PM	0.02	0.09
		PM ₁₀	0.01	0.04
MH3	Stockpile/Enclosure Transfer	PM	0.02	0.09
		PM ₁₀	0.01	0.04
F	Onsite Ash Storage/Handling	PM	0.41	1.35
		PM ₁₀	0.21	0.66

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TKM	Main TK Condenser	PM	0.19	0.81
		PM ₁₀	0.07	0.33
TKR	Regeneration TK Condenser	PM	0.08	0.34
		PM ₁₀	0.03	0.14
EG	Emergency Generator	NO _x	3.11	0.22
		CO	2.69	0.19
		VOC	3.11	0.22
		SO ₂	0.96	0.07
		PM ₁₀	0.16	0.01
ASH-1	Ash Silo 1	PM	0.10	0.45
ASH-2	Ash Silo 2	PM	0.10	0.45
LSS	Limestone Silo	PM	0.12	0.02
HLS	Hydrated Lime Silo	PM	0.12	0.02
SCRUB	Scrubber	VOC	12.33	1.34
		PM ₁₀	0.27	0.03
		PM _{2.5}	0.27	0.03

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- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3)
 - VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 - NO_x - total oxides of nitrogen
 - SO₂ - sulfur dioxide
 - PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
 - PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
 - PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
 - CO - carbon monoxide
 - HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
 - HCl - hydrogen chloride
 - NH₃ - ammonia
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) Annual NO_x and CO emissions from EPNs F6 and G7 shall not exceed those listed under "Boiler Emission Cap."

Date: July 2, 2013