

Emission Sources - Maximum Allowable Emission Rates

Permit Number 75702

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)
GH-FUG	Grain Fugitives	PM	1.05	0.94
		PM ₁₀	0.26	0.24
		PM _{2.5}	0.05	0.04
S-20	Unloading Baghouse	PM	1.23	5.41
		PM ₁₀	1.23	5.41
		PM _{2.5}	1.23	5.41
SS-FUG	Scalping Fugitives	PM	0.11	0.09
		PM ₁₀	0.03	0.02
		PM _{2.5}	<0.01	<0.01
S-30	Hammermilling Baghouse	PM	0.46	2.03
		PM ₁₀	0.46	2.03
		PM _{2.5}	0.46	2.03
S-40	Fermentation Scrubber	VOC	12.39	54.25
		PM	0.20	0.75
		PM ₁₀	0.20	0.75
		PM _{2.5}	0.20	0.75
		HAPs (6)	2.25	9.86

Emission Sources - Maximum Allowable Emission Rates

S-110A	Boiler Stack 1	VOC	0.83	3.61
		PM	1.14	4.99
		PM ₁₀	1.14	4.99
		PM _{2.5}	1.14	4.99
		NO _x	3.00	9.86
		SO ₂	2.25	9.86
		CO	5.25	23.00
		HAPs (6)	0.28	1.24
S-110B	Boiler Stack 2	VOC	0.83	3.61
		PM	1.14	4.99
		PM ₁₀	1.14	4.99
		PM _{2.5}	1.14	4.99
		NO _x	3.00	9.86
		SO ₂	2.25	9.86
		CO	5.25	23.00
		HAPs (6)	0.28	1.24
S-120	Hammermill #2	PM	0.41	1.80
		PM ₁₀	0.41	1.80
		PM _{2.5}	0.41	1.80
S-130	Process Scrubber	VOC	1.03	4.52
		PM	0.20	0.75
		PM ₁₀	0.20	0.75
		PM _{2.5}	0.20	0.75
		HAPs (6)	0.12	0.54
S-80	Cooling Tower	PM	1.13	4.93
		PM ₁₀	0.56	2.46
		PM _{2.5}	<0.01	0.01
EQ-FUG	Equipment Leak Fugitives (5)	VOC	0.54	2.37
		HAPs (6)	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

S-50	Truck/Rail Loadout Flare	VOC	8.53	11.01
		NO _x	2.14	4.80
		CO	3.78	7.41
		SO ₂	0.06	0.28
		HAPs (6)	0.38	0.67
T-1	190 Proof Ethanol Tank	VOC	0.40	0.61
		HAPs (6)	<0.01	<0.01
T-2	200 Proof Ethanol Tank	VOC	0.38	0.59
		HAPs (6)	<0.01	<0.01
T-3	Denaturant Gasoline Tank	VOC	0.39	0.91
		HAPs (6)	0.02	0.05
T-4	Denatured Ethanol and 1 Tank	VOC	1.51	0.99
		HAPs (6)	<0.01	<0.01
T-5	Denatured Ethanol and 2 Tank	VOC	1.51	0.99
		HAPs (6)	<0.01	<0.01
T-6	Corrosion Inhibitor Tank	VOC	0.31	<0.01
		HAPs (6)	0.02	<0.01
T-7	Denatured Ethanol Tank 3	VOC	1.51	0.99
		HAPs (6)	<0.01	<0.01
T-Oil	Oil Separation Tanks	VOC	0.24	<0.01
PV-FUG	Process Vent Fugitives	VOC	1.84	8.07
		HAPs (6)	0.23	1.01
LD-FUG	Loading Fugitives	VOC	4.20	7.18
		HAPs (6)	0.24	0.42
LD-OIL	Oil Separation Loading	VOC	0.24	0.02
S-100	Emergency Water Pump Engine	VOC	0.09	0.02
		PM	0.06	0.02
		PM ₁₀	0.06	0.02
		PM _{2.5}	0.06	0.02

Emission Sources - Maximum Allowable Emission Rates

		NO _x	3.45	0.86
		CO	0.18	0.05
		SO ₂	0.39	0.10
		HAPs (6)	<0.01	<0.01
WD-FUG	Wet DGS Fugitives	VOC	0.93	4.07
		HAPs (6)	0.09	0.41
Roads	Roads	PM	5.24	5.51
		PM ₁₀	1.05	1.10
		PM _{2.5}	0.26	0.27
MSS_EP	MSS Activities for Equipment Painting	VOC	3.62	0.02
MSS_FERM	MSS Activities at Fermentation	VOC	6.72	0.14
MSS_DIST	MSS Activities at Distillation	VOC	9.85	0.06
MSS_TANK	MSS Activities at Tank Farm	VOC	8.28	0.06
MSS_LOAD	MSS Activities at Ethanol Loading	VOC	8.28	0.04
MSS_40SD	MSS Fermentation Shutdown	VOC	12.92	0.26
MSS_TANK2	MSS Tank Farm/Tank Opening	VOC	52.25	0.09
		NO _x	0.79	0.01
		SO ₂	0.02	<0.01
		CO	6.82	0.11
		HAPs (6)	0.42	<0.01
MSS_OIL	MSS Activities at Oil Separation	VOC	0.19	<0.01

- (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
(4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
Project Number: 333965

Emission Sources - Maximum Allowable Emission Rates

- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) HAPs emissions are included in the VOC emission rate.

Date: July 27, 2022