

Emission Sources - Maximum Allowable Emission Rates

Permit Number 53313

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)
49T149ST 49T149TEMP (6)	Acetic Acid Scrubber T-149 or Temporary Acetic Acid Scrubber	HAc	4.35	2.63
49V578ST	Acetic Acid Scavenger Tank	HAc	0.53	0.01
49V598ST	Personnel Exposure Control Dev	VOC	1.19	0.04
		HI	0.06	0.01
		I ₂	0.16	0.01
		Methyl acetate	0.14	0.01
49V604ST	Steam Condensate Tank	VOC	0.01	0.01
49V1049ST	Acetic Acid Storage Tank	VOC	0.56	0.33
49V1195ST	Methyl Acetate Storage Tank	VOC	0.24	0.54
		Methyl acetate	1.30	3.83
49MN138ST	Acetic Acid Unit Flare	VOC	26.71	7.15
		NO _x	7.77	3.06
		CO	240.92	88.42
		SO ₂	0.15	0.31
		Methyl acetate	5.36	0.02
		I ₂	12.73	1.93
49HACLD FUG	Acetic Acid Railcar/ Truck Uncollected Loading Losses	HI	12.83	1.94
		VOC	0.69	0.11

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49HACFUG	Acetic Acid Unit Equipment Fugitives (5)	VOC	2.73	11.98
		CO	0.49	2.13
		Methyl acetate	0.78	3.43
49ANALFUG	Analyzer Vents	VOC	0.01	0.01
		CO	0.01	0.01
49MT7FUG	Cooling Tower (5)	VOC	2.94	12.88
49T171ST	Methyl Acetate Recovery Tower	VOC	0.60	2.62
		Methyl acetate	2.58	11.29
49V537ST	Methyl Acetate Storage Tank	VOC	0.20	0.74
		Methyl acetate	1.36	5.43
55T43ST 55T43TEMP (7)	Methanol Scrubber or Temporary Methanol Scrubber	VOC	10.69	4.65
47MT20	Stand Alone Cooling Tower (5)	VOC	0.50	2.21
		PM/PM ₁₀ /PM _{2.5}	0.15	0.66
49MN1621	Thermal Oxidizer	NO _x	15.79	12.22
		CO	21.29	18.56
		VOC	0.28	0.34
		SO ₂	0.43	0.1
		PM/PM ₁₀ /PM _{2.5}	2.64	4.62
		I ₂	7.48	11.07
		HI	7.53	11.16

- (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

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PM ₁₀	- 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
HAc	- acetic acid
I ₂	- Iodine
HI	- Hydrogen Iodide

- (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) 49T149TEMP is a temporary scrubber to be used when the regular scrubber 49T149ST is out of service. Total emissions from EPNs 49T149ST and 49T149TEMP shall not exceed the given limits. The scrubbers shall not operate simultaneously except when transitioning.
- (7) 55T43TEMP is a temporary scrubber to be used when the regular scrubber 55T43ST is out of service. Total annual emissions from EPNs 55T43ST and 55T43TEMP shall not exceed the given limits. The scrubbers shall not operate simultaneously except when transitioning.

Date: August 31, 2012