

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 4056

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)lb/hr	Emission Rates *	
			TPY	
CARBON MONOXIDE UNIT				
51MH5AST	Heater MH-5A	PM	0.34	1.34
		VOC	0.41	1.60
		NO _x	10.74	41.98
		SO ₂	0.51	1.99
		CO	2.40	9.36
51MJ151	Start-up Eductor MJ-151	PM	0.02	<0.01
		VOC	0.02	<0.01
		NO _x	0.30	0.10
		SO ₂	<0.01	<0.01
		CO	0.25	0.08
51MJ152	Start-up Eductor MJ-152	PM	0.02	<0.01
		VOC	0.02	<0.01
		NO _x	0.30	0.10
		SO ₂	<0.01	<0.01
		CO	0.25	0.08
51MJ153	Start-up Eductor MJ-153	PM	0.02	<0.01
		VOC	0.02	<0.01
		NO _x	0.30	0.10
		SO ₂	<0.01	<0.01
		CO	0.25	0.08
51MN157ST	Flare MN-157	VOC	13.01	0.65
		NO _x	60.04	5.20
		SO ₂	9.58	1.15
		CO	514.75	29.42

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)lb/hr	Emission Rates *	
			TPY	
51MN1147ST	Propylene Flare	VOC	250.0	0.06
		NO _x	23.9	0.06
		SO ₂	<0.01	<0.01
		CO	172.4	0.30
51COFUG	Fugitives (4)	MeOH	8.41	36.84
		ethylene glycol	0.04	0.17
		SO ₂	2.78	12.16
		CO	16.28	71.30
		NH ₃	<0.01	0.01
51PROPFU	Refrigeration System MR-36 Fugitives (4)	MeOH	0.02	0.10
		propylene	0.69	3.0
51COLDBOX	Cold Box	helium	31.7	135.0
<u>ACETIC ACID UNIT</u>				
49T149ST	HAc Storage Tank Scrubber T-149	HAc	1.72	1.54
49V578ST	HAc Scavenger Tank	HAc	0.23	<0.01
49V598ST	Personnel Exposure Control Device	VOC	0.02	0.07
		Iodide	<0.01	<0.01
49V601ST	Process Area Scavenger Tank	VOC	0.57	0.02
49V604ST	Steam Condensate Tank	VOC	<0.01	<0.01
49V1049ST	HAc Storage Tank	VOC	0.46	0.09
49V1195ST	Methyl Acetate IFR Storage Tank	MeAc	0.31	0.81
		MeOH	0.06	0.13

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)lb/hr	Emission Rates *	
			TPY	
49MN138ST	Acetic Acid Unit Flare	VOC	34.06	10.57
		NO _x	4.50	2.96
		CO	177.94	149.26
49MN294ST	HAc Loading Thermal Oxidizer	VOC	0.65	1.22
		NO _x	0.44	1.31
		CO	10.64	38.30
49HACLDFUG	HAc Loading Fugitives (4)	VOC	8.13	15.45
49HACFUG	HAc Unit Equipment Fugitives (4 and 5)	VOC	4.18	18.40
		CO	0.51	2.23
		LiI	0.04	0.18
		KI	<0.01	0.01

- (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 area name or fugitive source name.
- (3) 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.
 VOC - volatile organic compounds as defined in 30 Texas Administrative Code 101.1
 NO_x - total oxides of nitrogen
 SO₂ - sulfur dioxide
 CO - carbon monoxide
 HAc - acetic acid
 NH₃ - ammonia
 MeAc - methyl acetate
 MeOH - methanol
 LiI - lithium iodide
 KI - potassium iodide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Fugitive emissions from Standard Exemption Registration No. 34410 for the Acetaldehyde Removal Unit have been incorporated into Emission Point No. 49HACFUG.

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

Hrs/day____ Days/week____ Weeks/year____ or Hrs/year 8,760

Dated October 30, 2000