

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 9074

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)	Emission Rates *	
			lb/hr	TPY
94	PCE Barge Unloading	PCE	1.18	0.057
96	PCE Fugitives	PCE	0.11	0.46
102 0.223		PCE Tank	PCE	0.483
120	0.82	Emergency Generator No. 1 SO ₂		
		NO _x	9.62	0.13
		TSP	0.96	0.01
		CO	2.5	0.03
		VOC	0.25	0.003
121 0.28		Waste Treatment HCl		0.92
	Scrubber System	Cl ₂	0.29	0.011
		FC	84.0	18.4
122 0.02	0.09	Main Sniff Scrubber (5) HCl		
		Cl ₂	0.03	0.13
		FC	0.09	0.39
122 0.02	0.09	HCl Sniff Scrubber (6)(7)HCl		
	(after East Plant conversion)	Cl ₂		0.03
0.13				

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Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
122 0.02	0.09 (after scrubber project)	HCl Sniff Scrubber (8)	HCl	
123 0.009	0.04	Fugitive Emissions (4)(7)	HCl	
123 0.0106	0.0464 (after scrubber changes)	Fugitive Emissions (4)(8)	HCl	
126 0.117	0.512	Fugitive Emissions (4)	HCl	
135 0.02	0.09	Backup Sniff Scrubber (5)	HCl	
		Cl ₂	0.03	0.13
		FC	0.09	0.39
135 HCl 0.13	0.02 (after East Plant conversion)	Backup Sniff Scrubber (6)(7)	0.09	
		Cl ₂		0.03
135 0.03	0.13 (after scrubber changes)	Backup Sniff Scrubber (8)	Cl ₂	
166 0.0038		H ₂ O ₂ Storage Tank	H ₂ O ₂	0.32
170 32.84		Boiler	SO ₂	8.33
		NO _x	12.83	50.58
		TSP	0.8	3.16

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			lb/hr	TPY
		CO	24.86	98.01
		VOC	4.49	17.7
175		Fugitive Emissions (4)		FC
0.86	3.78			
179		Cooling Tower	TSP	1.6
7.01				
186		Neutralizer Vent (5)		
	Process A	FC	0.47	2.06
	Process B	FC	0.46	2.02
186		Neutralizer Vent (6)		FC
0.20	0.90			
	(after East Plant conversion)			
187		Fugitive Emissions (4)(5)		FC
8.622	37.731			
187		Fugitive Emissions (4)(6)		FC
2.45	10.73			
	(after East Plant conversion)			
0.124		HF		0.0284
		HCl	0.0318	0.139
		VCM	0.0831	0.364
		H ₂	0.065	0.285
188		Emergency Vent (5)		
	Process A	FC	410.00	0.269
	Process B	FC	410.00	0.222
189		Afterburner Stack (5)		
	Process A	FC	1.84	8.06
		NO _x	1.0	4.4
		CO	1.0	4.4
		TSP	0.3	1.3
		VOC	0.2	0.9

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			lb/hr	TPY
		SO ₂	0.1	0.4
		HCl	0.0008	0.0035
		HF	0.0018	0.008
		Cl ₂	0.12	0.43
	Process B	FC	1.58	6.92
		NO _x	1.0	4.4
		CO	1.0	4.4
		TSP	0.3	1.3
		VOC	0.2	0.9
		SO ₂	0.1	0.4
		HCl	0.0007	0.003
		HF	0.0018	0.008
		Cl ₂	0.12	0.43
189		Sniff Scrubber Stack (6)	FC	
0.01	0.0025			
	(after East Plant conversion)	HCl		0.01
0.0005		HF	0.01	0.0005
191		Carbon Canister 1	FC	5.00
0.5				
192		Afterburner Stack (5)	FC	
1.87	8.19			
		NO _x	0.89	3.9
		CO	0.54	2.37
		TSP	0.23	1.01
		VOC	0.84	1.84
		SO ₂	0.12	0.53
		Benzene	<0.001	<0.001
		HF	0.192	0.84
		HCl	0.135	0.59
		Cl ₂	0.00253	0.0111
192		Afterburner Stack (6)	FC	
1.87	8.19			
	(after East Plant conversion)	NO _x		0.89
3.9		CO	0.54	2.37

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		TSP	0.23	1.01
		VOC	0.84	1.84
		SO ₂	0.12	0.53
		Benzene	<0.001	<0.001
		VCM	<0.001	0.002
		HF	0.192	0.84
		HCl	0.135	0.59
		Cl ₂	0.0033	0.0145
193		Fugitive Emissions (4)(5)	FC	
3.35	14.68			
		Benzene	<0.001	<0.001
		HCl	0.004	0.0175
193		Fugitive Emissions (4)(6)	FC	
4.34	19.02			
	(after East Plant conversion)	Benzene		0.00003
0.00012				
		HCl	0.006	0.0262
		VCM	0.0168	0.0074
194		Emergency Generator No. 3	SO ₂	
0.82	0.01			
		NO _x	9.02	0.12
		TSP	0.65	0.01
		CO	1.96	0.03
		VOC	0.72	0.01
197		Carbon Canister No. 2	FC	
12.5	2.74			
		HF	0.02	0.01
		Cl ₂	0.80	0.17
		HCl	8.04	1.76
210		Emergency Fire Pump No. 1	SO ₂	
0.41	0.01			

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
211 0.097	0.234	NO _x	4.51	0.12
		TSP	0.32	0.008
		CO	0.98	0.026
		VOC	0.36	0.009
		50 Percent Caustic Tank NaOH		
215 1.23	0.03	Emergency Fire Pump No. 2 SO ₂		
		NO _x	13.53	0.35
		TSP	0.97	0.025
		CO	2.94	0.077
		VOC	1.08	0.028
227 0.005		Uni-Cage Bin Filter	TSP	0.15
231 5.7		Therminol Heater	SO ₂	1.3
		NO _x	3.18	13.95
		TSP	0.11	0.5
		CO	0.8	3.49
		VOC	0.06	0.28
237 1.9		Hot Air Heater	SO ₂	0.43
		NO _x	0.75	3.3
		TSP	0.04	0.17
		CO	0.15	0.66
		VOC	0.04	0.18
244 0.82	0.01	Emergency Generator No. 2	SO ₂	
		NO _x	9.02	0.12
		TSP	0.64	0.01

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Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
		CO	1.96	0.03
		VOC	0.72	0.01
245		Fugitive Emissions (4)(5) FC		
3.877	16.98	VOC	0.429	1.879
		HF	0.057	0.25
		HCl	0.088	0.385
		Cl ₂	0.046	0.201
		H ₂	0.0153	0.067
245		Fugitive Emissions (4)(6) FC		
3.877	16.98			
	(after East Plant conversion)	VOC		0.429
1.879		HF	0.067	0.293
		HCl	0.088	0.385
		Cl ₂	0.046	0.201
		H ₂	0.0153	0.067
247		Spray Scrubber (5)HF		0.08
0.03		HCl	0.08	0.09
		Cl ₂	0.09	0.23
		FC	26.0	2.85
247		Spray Scrubber (6)HF		0.106
0.038				
	(after East Plant conversion)	HCl		0.049
0.09		Cl ₂	0.11	0.23
		FC	26.0	2.85
251		CC-97 Pilot PlantHCl		<0.001
0.003		H ₂	7.00	30.70

(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

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fugitive source name.

- (3) PCE - perchloroethylene
NO_x - total oxides of nitrogen
CO - carbon monoxide
FC - fluorocarbons
HCl - hydrogen chloride
HF - hydrogen fluoride
Cl₂ - chlorine
TSP - total suspended particulate matter
SO₂ - sulfur dioxide
VOC - volatile organic compound
H₂O₂ - hydrogen peroxide
H₂ - hydrogen
NaOH - sodium hydroxide
VCM - vinyl chloride monomer
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Emission rates are for the East Plant prior to process conversion. These emission rates are valid through June 30, 1996.
- (6) Emission rates after the East Plant process conversion changes are completed. These emission rates will begin in calendar year 1996.
- (7) Emission rates until the Sniff Scrubber changes are completed. These emission rates are valid through the construction period, which will end no later than December 31, 1996.
- (8) Emission rates after the Sniff Scrubber changes are completed. These emission rates will begin in calendar year 1996.

* 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

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Dated _____