

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	PCE Tank	PCE	0.483	0.223
120	Emergency Generator No. 1	SO ₂	0.82	0.01
		NO _x	9.62	0.13
		TSP	0.96	0.01
		CO	2.5	0.03
		VOC	0.25	0.003
121	Waste Treatment Scrubber System	HCl	0.92	0.28
		Cl ₂	0.29	0.011
		FC	84.0	18.4
122	Main Sniff Scrubber	HCl	0.02	0.09
		Cl ₂	0.03	0.13
		FC	0.09	0.39
123	Fugitive Emissions (4)	HCl	0.0092	0.04
126	Fugitive Emissions (4)	HCl	0.117	0.512
135	Backup Sniff Scrubber	HCl	0.02	0.09
		Cl ₂	0.03	0.13
		FC	0.09	0.39
166	H ₂ O ₂ Storage Tank	H ₂ O ₂	0.32	0.0038

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			lb/hr	TPY
170	Boiler	SO ₂	8.33	32.84
		NO _x	12.83	50.58
		TSP	0.8	3.16
		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			
	Process A	FC	0.47	2.06
	Process B	FC	0.46	2.02
187	Fugitive Emissions (4)	FC	8.622	37.731
188	Emergency Vent			
	Process A	FC	410.00	0.269
	Process B	FC	410.00	0.222
189	Afterburner Stack 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
		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

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
191	Carbon Canister 1	FC	5.00	0.5
192	Afterburner Stack	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	0.01110
193	Fugitive Emissions (4)	FC	3.35	14.68
		Benzene	<0.001	<0.001
		HCl	0.004	0.0175
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
		NO _x	4.51	0.12
		TSP	0.32	0.008
		CO	0.98	0.026
		VOC	0.36	0.009
211	50% Caustic Tank	NaOH	0.097	0.234

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			lb/hr	TPY
215	Emergency Fire Pump No. 2	SO ₂	1.23	0.03
		NO _x	13.53	0.35
		TSP	0.97	0.025
		CO	2.94	0.077
		VOC	1.08	0.028
227	Uni-Cage Bin Filter	TSP	0.15	0.005
231	Therminol Heater	SO ₂	1.3	5.7
		NO _x	3.18	13.95
		TSP	0.11	0.5
		CO	0.8	3.49
		VOC	0.06	0.28
237	Hot Air Heater	SO ₂	0.43	1.9
		NO _x	0.75	3.3
		TSP	0.04	0.17
		CO	0.15	0.66
		VOC	0.04	0.18
244	Emergency Generator No. 2	SO ₂	0.82	0.01
		NO _x	9.02	0.12
		TSP	0.64	0.01
		CO	1.96	0.03
		VOC	0.72	0.01
245	Fugitive Emissions (4)	FC	3.80	16.64
		VOC	0.45	1.962
		HF	0.06	0.25
		HCl	0.09	0.385
		Cl ₂	0.05	0.201
		H ₂	0.0153	0.067

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
247	Spray Scrubber	HF	0.08	0.03
		HCl	0.08	0.09
		Cl ₂	0.09	0.23
		FC	26.0	2.85
251	CC-97 Pilot Plant	HCl	<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 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

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

* 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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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> lb/hr TPY
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Dated _____