

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. S-18963

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
F1	Hardening Furnaces	QO	0.014	0.052
		CO	0.90	3.950
S9	Hardening Furnaces	QO	0.014	0.052
		CO	0.90	3.950
S11	Hardening Furnaces	QO	0.014	0.052
		CO	0.90	3.950
F2	Tempering Furnaces	QO	0.236	0.907
S10	Tempering Furnaces	QO	0.236	0.907
S12	Tempering Furnaces	QO	0.236	0.907
S3	Two Plating Tanks Stack	Cr	0.0000342	0.000147
S4	One Plating Tank 0.0000733 Stack	Cr	0.0000171	
S7	Three Plating Tanks Stack	Cr	0.0000598	0.000256
S-8	Sludge Dryer Scrubber Stack	PM ₁₀	0.012	0.052
		VOC	0.002	0.009
		SO ₂	<0.001	0.001
		NO _x	0.040	0.171
		CO	0.008	0.036

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			<u>lb/hr</u>	<u>TPY</u>
S13	Acid Tank (Parts Stripping) - Wet Scrubber Stack	HCl	<0.001	<0.001
S14-1	Pretreatment Tank - Wet Scrubber Stack	HCl	0.022	0.096
S14-2	Acid Tanks (Lines No. 1, 2, and 3) - Wet Scrubber Stack	HCl	<0.001	<0.001
S14-3	Acid Tank (Line No. 4) - Wet Scrubber Stack	HCl	<0.001	<0.001
S14-4	Acid Tank (Line No. 5) - Wet Scrubber Stack	HCl	<0.001	<0.001
S14-5	Acid Tank (Line No. 6) - Wet Scrubber Stack	HCl	<0.001	<0.001
S14-1 through S14-5	Plating Shop Fugitive (4)	Cr	0.0000003	0.000001
S-15**	Parts Painting Operation	VOC	6.0	13.0

- (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) QO - quench oil
CO - carbon monoxide
Cr - chromium (hexavalent)

PM₁₀ - particulate matter less than 10 microns in diameter
 VOC - volatile organic compounds
 SO₂ - sulfur dioxide
 NO_x - nitrous oxides
 HCl - hydrochloric acid

(4) Fugitive emissions are an estimate only.

* Emission rates for quench oil from the hardening and tempering furnaces are based on usage and loss rates represented in the permit file and the facility is limited to the addition of a maximum 1,140 gallons of quench oil per month. Quench oil may be added and removed during uniform operation for no more than 7,700 hours per year.

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* Emission rates for chromium (hexavalent) plating tanks are based on and the facility is limited by the following maximum operating restrictions:

<u>EPN</u>	<u>Plater Tanks</u>	<u>Amperage</u>	<u>Annual Usage</u>
S3	Chiro Plater	2,000 amps	8,568 hrs/yr
S3	Chiro Plater	2,000 amps	8,568 hrs/yr
S4	Chiro Plater	2,000 amps	8,568 hrs/yr
S7	Chiro Plater	2,000 amps	8,568 hrs/yr
S7	Chiro Plater	2,000 amps	8,568 hrs/yr
S7	Udylite Plater	3,000 amps	8,568 hrs/yr

* Emission rates for acid (HCl) tanks associated with the plating lines are based on and the facility is limited by the following maximum operating restrictions:

<u>EPN</u>	<u>Acid Tank</u>	<u>Concentration (wt%)</u>	<u>Annual Usage</u>
S13	Parts Stripping	15.0	8,760 hrs/yr
S14-1	Pretreatment	32.0	8,760 hrs/yr
S14-2	Line No. 1	10.0	8,760 hrs/yr

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			<u>lb/hr</u>	<u>TPY</u>
S14-2	Line No. 2	10.0	8,760	hrs/yr
S14-2	Line No. 3	10.0	8,760	hrs/yr
S14-3	Line No. 4	10.0	8,760	hrs/yr
S14-4	Line No. 5	10.0	8,760	hrs/yr
S14-5	Line No. 6	18.0	8,760	hrs/yr
Hrs/day <u>24</u> Days/week <u>7</u> Weeks/year <u>52</u> or Hrs/year <u>8,760</u>				

** Emissions are authorized by Standard Exemption 75.

Dated _____