

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 28239

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	ton/yr
1S2	Scrubber Stack	Cr	0.0002	<0.001
1S3	Scrubber Stack	NaOH	0.008	0.036
		Na <sub>2</sub> SiO <sub>3</sub>	0.0038	0.017
		Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub>	0.0011	<0.005
1S4	Scrubber Stack	Ni	0.0012	<0.005
		Acid (6)	<0.0004	<0.002
		Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub>	0.0005	0.0019
2B1	Exhaust Stack	Na <sub>2</sub> SiO <sub>3</sub>	0.38	1.66
		Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub>	0.055	0.24
		H <sub>2</sub> SO <sub>4</sub>	<0.006	0.026
		NaOH	0.818	3.58
2S1	Scrubber Stack	Cr	0.0003	<0.002
FUG1	Plating and Redox (4) Tank Fugitives	Cr	<0.0004	<0.002
		Ni	<0.001	<0.004
		Acid (6)	<0.04	<0.15
		NaOH	<0.02	<0.09
		Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub>	<0.004	<0.02
		Na <sub>2</sub> SiO <sub>3</sub>	0.01	0.04
		H <sub>2</sub> SO <sub>4</sub>	<0.003	<0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates*	
			lb/hr	ton/yr
B1	Boiler Stacks (5)	PM	0.10	0.44
		SO <sub>2</sub>	0.005	0.022
		NO <sub>x</sub>	0.84	3.68
		CO	0.18	0.77
		VOC	<0.05	0.21
BEC-1	Edge Coating Booth (7)	PM <sub>10</sub>	<0.01	<0.01
		VOC	10.82	21.21
FUG2	Burnoff Oven (4 and 5)	PM	<0.08	0.34
		SO <sub>2</sub>	<0.004	<0.02
		NO <sub>x</sub>	0.64	2.81
		CO	0.13	0.59
		VOC	<0.04	0.16
FUG3	Misc. Processes (4 and 5)	PM	3.15	9.61
		VOC	6.20	9.40

(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) Cr - chromium

NaOH - sodium hydroxide

Na<sub>2</sub>SiO<sub>3</sub> - sodium metasilicate

Na<sub>2</sub>S<sub>2</sub>O<sub>5</sub> - sodium metabisulfite

Ni - nickel

H<sub>2</sub>SO<sub>4</sub> - sulfuric acid

PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub>.

PM<sub>10</sub> - 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 in emitted.

SO<sub>2</sub> - sulfur dioxide

NO<sub>x</sub> - total oxides of nitrogen

CO - carbon monoxide

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code Section 101.1

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- (4) Fugitive emissions are an estimate only.
- (5) Emissions from processes operating per criteria of Standard Exemption Nos. 7, 39, 45, 75, 87, 104, and 105.
- (6) The acid may be either hydrochloric or sulfuric.
- (7) Speciated VOC compounds are identified and quantified in the permit file.

- \* Emission rates are based on and the facilities are limited to the following maximum operating schedule and parameters:

Hrs/day 24 Days/week 7 Weeks/year 52 or Hrs/year 8,760

Plating Operations are limited to a maximum rectifier capacity of 10,000 amperes for chrome plating and 28,800 amperes for nickel plating.

Black Edge Coating Operations:

High Build Lacquer: 0.76 gallons per hour and 2,990 gallons per year

Sealer: 0.28 gallons per hour and 1,080 gallons per year

Black Edge Coating: 0.1 gallon per hour and 316 gallons per year

Thinner: 0.6 gallons per hour and 2,310 gallons per year

Dated April 1, 2002