

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

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Permit Number T-17231

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)	<u>Emission Rates *</u>	
			lb/hr	TPY
P33	Electroplating Scrubber	NaOH	0.094	0.28
		H <sub>3</sub> PO <sub>4</sub>	0.02	0.013
		CH <sub>3</sub> COOH	0.06	0.050
		AgNO <sub>3</sub>	0.01	0.003
		HNO <sub>3</sub>	0.02	0.013
		HCOOH	< .001	0.003
		HCl	0.03	0.024
		ZnCl <sub>2</sub>	< .001	0.001
		Cr+6	< .001	0.001
P34	Sludge Dryer Scrubber	Fe <sub>2</sub> O <sub>3</sub>	< .001	<.001
		Cr <sub>2</sub> O <sub>3</sub>	0.002	0.005
		ZnO	< .001	<.001
		VOC	0.004	0.01
27	Ammonia Dissociator (5)	NH <sub>3</sub>	0.027	0.12
FUG01	Ammonia Storage Tank (4 and 5)	NH <sub>3</sub>	0.04	0.18
FUG02	Ammonia Process Piping (4 and 5)	NH <sub>3</sub>	< 0.006	0.024
P36	Existing Chorinator Unit	Cl <sub>2</sub>	<0.004	0.011

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P57	Future Chlorinator Unit	Cl <sub>2</sub>	0.020	0.060
P37	Existing Chlorine Storage Unit (4)	Cl <sub>2</sub>	<0.002	0.008
P56	Future Chlorine Storage Unit (4)	Cl <sub>2</sub>	<0.002	0.007

(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) NaOH - sodium hydroxide

H<sub>3</sub>PO<sub>4</sub> - phosphoric acid

CH<sub>3</sub>COOH

- acetic acid

AgNO<sub>3</sub> -

silver nitrate

HNO<sub>3</sub> - nitric acid

HCOOH - formic acid

HCl - hydrochloric acid

ZnCl<sub>2</sub> - zinc chloride

Cr+6 - hexavalent chromium

Fe<sub>2</sub>O<sub>3</sub> - ferric oxide

Cr<sub>2</sub>O<sub>3</sub> - chromic oxide

ZnO - zinc oxide

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

NH<sub>3</sub> - anhydrous ammonia

Cl<sub>2</sub> - chlorine

(4) Fugitive emissions are an estimate only.

(5) Emissions not subject to the 6,000 hour per year limitation below, but may occur 8,760 hours per year.

\* Emission rates are based on and the facilities are limited by the following maximum operating schedule except as noted in Note 5 above:

Hrs/day 24 Days/week 7 Weeks/year 52 or Hrs/year 6,000

A maximum hourly throughput of 158 pounds of metal hydroxide for the sludge dryer, 749 gallons of sodium hydroxide per year, and a maximum annual throughput of 18 tons of zinc salts for the zinc electroplating operation.

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Dated December 12, 2003