

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 52505

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 Contaminant Data

Emission Rates	Source	Air Contaminant		Emission
Point No. (1)	Name (2)	Name	lb/hr	TPY*
001	Area A Scrubber Stack (5) (Chrome Tanks 1, 2, 3, and 4)	PM/PM <sub>10</sub>	<0.00001	<0.00004
		Cr+6	4E-6	<0.00002
002	Area B Scrubber Stack (5) (Chrome Tanks 5 and 6)	PM/PM <sub>10</sub>	<0.00002	0.00006
		Cr+6	7E-6	<0.00003
003	Area C Scrubber Stack (5) (Chrome Tanks 9, 10, and 11)	PM/PM <sub>10</sub>	<0.00002	0.00008
		Cr+6	9E-6	<0.00004
004	Heat Treat Furnace OV-1 Stack	PM/PM <sub>10</sub>	<0.001	0.004
		NO <sub>x</sub>	0.011	0.05
		CO	0.009	0.04
		VOC	0.0006	0.003
		SO <sub>2</sub>	<0.0001	0.0003
005	Heat Treat Furnace OV-2 Stack	PM/PM <sub>10</sub>	<0.001	0.004
		NO <sub>x</sub>	0.015	0.06
		CO	0.012	0.05
		VOC	<0.001	0.004
		SO <sub>2</sub>	<0.0001	<0.001
006	Large Boiler Stack	PM/PM <sub>10</sub>	0.06	0.27
		NO <sub>x</sub>	0.82	3.59
		CO	0.69	3.02
		VOC	0.05	0.20
		SO <sub>2</sub>	<0.01	0.02

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		Name	lb/hr	
007	Small Boiler Stack	PM/PM <sub>10</sub>	<0.02	0.07
		NO <sub>x</sub>	0.21	0.90
		CO	0.17	0.76
		VOC	0.01	0.05
		SO <sub>2</sub>	0.001	0.005
008	Evaporator EV-1 Stack	PM/PM <sub>10</sub>	<0.001	0.003
		NO <sub>x</sub>	<0.01	0.04
		CO	<0.01	<0.04
		VOC	<0.001	0.002
		SO <sub>2</sub>	<0.0001	0.0002
010	Electric Curing Oven (8) Stack	VOC	<0.0001	<0.0001
PSBFUG	Building Fugitives (4, 6, and 9) Chrome Tanks, Grinding Operations, Nickel Plating, Heat Treat Ovens, Large Boiler, Small Boiler, Welding, Evaporator, Abrasive Blasting, and Alkaline Cleaning, Acid Etching, Acid Pickling, Passivation, and Phosphate Coating Tanks	PM	0.258	0.598
		PM <sub>10</sub>	0.249	0.581
		VOC	0.13	0.55
		HNO <sub>3</sub>	<0.001	<0.001
		HCl	0.008	0.03
		Cr+6	0.029	0.065
		Ni	0.10	0.42
		Mn	0.004	0.007
		H <sub>2</sub> SO <sub>4</sub>	<0.001	<0.001
		NaOH	<0.001	<0.001
		H <sub>3</sub> PO <sub>4</sub>	<0.001	<0.001
CL1	Acid Tank Scrubber Stack	HCl	<0.0001	<0.0001
CL2	HVOF and Blast Filter Stack (7)	PM/PM <sub>10</sub>	0.60	1.50
		NO <sub>x</sub>	0.09	0.22
		CO	0.07	0.18
		VOC	0.005	0.01
		SO <sub>2</sub>	0.0005	0.001

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CL3	Boiler Stack	PM/PM <sub>10</sub>	0.004	0.02
		NO <sub>x</sub>	0.05	0.21
		CO	0.04	0.18
		VOC	0.003	0.01
		SO <sub>2</sub>	0.0003	0.001
CSBFUG	Building Fugitives (4 and 7 ) Acid Strip Tanks, Grinding Operations, Combustion Sources	PM/PM <sub>10</sub>	<0.01	<0.01
		VOC	0.04	0.18
		HCl	<0.001	0.003

(1) Emission point identification - either specific equipment designation or emission point number from a plot plan.

(2) Specific point source names.

(3) 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 PM greater than 10 microns is emitted.

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

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

CO - carbon monoxide

VOC - volatile organic compounds

Mn - manganese

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

HCl - hydrogen chloride

Cr<sup>+6</sup> - Chromium VI

Ni - nickel

NaOH - sodium hydroxide

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

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

Al - aluminum

Co - cobalt

Mo - molybdenum

Pb - lead

Ti - titanium

WC - tungsten carbide

(4) Fugitive emissions are an estimate only.

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- (5) Cr+6 included in the PM/PM<sub>10</sub>
- (6) Speciated non criteria contaminants included in the PM/PM<sub>10</sub>
- (7) The PM/PM<sub>10</sub> may contain trace levels, including but not limited to Al, Co, Cr, Mn, Mo, Ni, Pb, Ti, and WC.
- (8) Operates per the authorization of Permit by Rule § 106.320.
- (9) Grinding, nickel plating, abrasive blasting, alkaline cleaning, acid etching, acid pickling, passivation, and phosphate coating processes are authorized by and operate per the criteria of permit by rule.

\* Compliance with annual emission limits is based on a rolling 12-month period.

Dated December 8, 2008

