EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 25027

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
CR-1	Scrubber Stack	Cr VI	<0.00002	<0.00006
		HNO_3	0.004	0.0018
		H_3PO_4	0.0183	0.0801
		H_2SO_4	<0.00001	<0.00001
CR-2	Scrubber Stack	Cr VI	0.00012	0.00053
CR-3	Scrubber Stack	Cr VI	0.00029	0.00124
		MgF_2	<0.00015	<0.00065
		H_3PO_4	0.0049	0.0215
		NaOH	0.00456	0.020
A/A-1	Scrubber Stack (5)	HCl	0.00197	0.0402
		HF	0.00141	0.00618
		H_3PO_4	0.337	1.54
		NaF	<0.00008	<0.00034
		NaOH	0.0575	0.252
		H_2SO_4	0.0021	0.00915
A/A-2	Scrubber Stack (5)	HCl	<0.00001	<0.00005
		HNO_3	<0.00009	<0.00004
		H_3PO_4	<0.00004	<0.00015
		NaOH	0.0046	0.0201
		H_2SO_4	<0.00001	<0.00001
A/A-3	Scrubber Stack (5)	HCl	<0.00004	0.00014
		$NiCl_2$	<0.00001	<0.00001
		$NiSO_4$	0.0488	0.0214
		HNO_3	0.00073	0.00319
		$Na_2Cr_2O_7$	<0.00001	<0.00001
		NaOH	0.00621	0.0272
		H_2SO_4	<0.00002	0.00005

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A/A-4	Scrubber Stack (5)	HCl	0.00069	0.0031
		$NiCl_2$	0.00036	0.00157
		$NiSO_4$	0.00938	0.0411
		NaOH	0.00318	0.0139
		H_2SO_4	0.00002	0.00006

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
A/A-5	Scrubber Stack (5)	HCl	0.00136	0.00596
		$NiCl_2$	0.00008	0.00036
		$NiSO_4$	<0.00003	<0.0001
		HNO_3	0.0135	0.059
		H_3PO_4	<0.00002	<0.00007
		NaOH	0.0109	0.0479
		ZnO	0.00012	0.00051
A/A-6	Scrubber Stack (5)	CH_3COOH	<0.00001	<0.00003
		$FeCl_3$	<0.00001	<0.00001
		HCl	<0.00004	<0.00017
		HF	0.00304	0.0133
		HNO_3	0.00059	0.00259
		KHF_2	<0.00001	<0.00001
		$NaHSO_4$	0.0108	0.047
		NaF	0.00022	0.00098
		NaOH	0.0104	0.0456
		H_2SO_4	0.00117	0.00512
		Na_3PO_4	0.0115	0.0504
		ZnO	<0.00001	0.00002
A/A-7	Scrubber Stack (5)	HNO_3	0.00044	0.00192
		NaOH	0.0135	0.0591
		$NaNO_3$	<0.00001	<0.00001
		H_2SO_4	<0.00001	<0.00001
		Na_3PO_4	0.00154	0.00675
CN-1	Scrubber Stack (5)	CuCN	0.0011	0.00482
		K_2CO_3	<0.00001	<0.00001
		KCN	0.0014	0.00648
		KOH	<0.00001	<0.00001
		AgCN	0.00004	0.00018
		NaCN	0.00529	0.0223
		NaOH	<0.00003	0.00012
EG-1	Emergency Generator Exhaust (6)	PM_{10}	0.418	0.013
		NO_x	7.790	0.234
		SO_2	0.456	0.014

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CO	0.836	0.025
VOC	0.418	0.013

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
B-1A/B	Hot Water Boiler Stack (7)	PM_{10}	0.08	0.42
		NO_x	0.68	3.56
		SO_2	0.004	0.02
		CO	0.14	0.73
		VOC	0.04	0.21
B-2A/B	Hot Water Boiler Stack (7)	PM_{10}	0.08	0.42
		NO_x	0.68	3.56
		SO_2	0.004	0.02
		CO	0.14	0.73
		VOC	0.04	0.21
DC-1	Abrasive Cleaning Filter Exhaust (8)	PM_{10}	0.73	0.32
PB-1	Paint Booth Filter Exhaust (9)	VOC	5.99	<13.00
FUG-1	Waste Water (4 & 10) Treatment Equipment	SO_2	0.0002	0.001

(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) PM_{10} - particulate matter less than 10 microns
VOC - volatile organic compounds as defined in General Rule 101.1
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
CO - carbon monoxide
Cr VI - chromiun

HNO_3 - nitric acid
H_3PO_4 - phosphoric acid
H_2SO_4 - sulfuric acid
MgF_2 - magnesium fluoride
NaOH - sodium hydroxide
HCl - hydrogen chloride
HF - hydrogen fluoride
NaF - sodium fluoride
$NiCl_2$ - nickel chloride
$NiSO_4$ - nickel sulfate
$Na_2Cr_2CO_7$ - sodium dichromate
ZnO - zinc oxide
CH_3COOH - acetic acid
FeCl3 - ferric chloride
HF - hydrogen fluoride
KHF_2 - potassium bifluoride
$NaHSo_4$ - sodium bisulfate
Na_3PO_4 - trisodium phosphate
$NaNO_3$ - sodium nitrate
CuCN - cuprous cyanide
K_2CO_3 - potassium carbonate
KCN - potassium cyanide
KOH - potassium hydroxide
AgCN - silver cyanide
NaCN - sodium cyanide

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
(5) Emissions are from operations registered under Standard Exemption No. 41.
(6) Emissions are from emergency generator registered under Standard Exemption No. 5.
(7) Emissions are from direct-fired hot water boilers registered under Standard Exemption No. 7.
(8) Emissions are from the abrasive cleaning operation registered under Standard Exemption No. 102.
(9) Emissions are from the spray paint booth registered under Standard Exemption No. 75.
(10) Emissions are from the wastewater treatment operation registered under Standard Exemption No. 61.

* Emission rates are based on and the facilities are limited to a maximum rectifier capacity of 11,000 amperes on the chrome plating line and 300 amperes on the chromic anodizing line and by the following maximum operating schedule:

Hrs/day__24__Days/week__7__Weeks/year__52__or Hrs/year_8,736__

Dated_____