

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 7382

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
EF-50	P-1 Varnish Mix Room	VOC	0.71	2.04
INC-1 and INC-2	P-2 Treater	VOC	9.35	14.61
		NO <sub>x</sub>	0.80	2.79
		SO <sub>2</sub>	0.22	0.55
		CO	40.00	30.00
		PM	1.75	4.85
DC-2A and DC-2B	P-3 Cloth Edge Trim	PM	0.08	0.26
DC-3	P-4 Fiberglass Slitter	PM	0.03	0.09
DC-7	P-5 Copper Slitter	PM	0.03	0.09

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			<u>lb/hr</u>	<u>TPY</u>
EF-83	P-6 Lamination Assembly	PM	0.03	0.09
F-1, 2, 3, 4, and 5	P-7 Lamination Presses	PM	0.03	0.09
EF-63 and EF 64	P-8 Plan. Plate Clean	PM	0.03	0.09
FS-5	P-9 Circuitize, Oxide Remove, Copper Plate Support, Test Oxide Remove, Core Lab, Preclean Lab, Copper Plate Lab, and Water Treatment Support	VOC	0.44	1.57
		PM	3.55	13.29
EF-54	P-10 Resist Apply, Hole Burnout, Diazo Develop, and Expose	VOC	0.06	0.18
		PM	0.27	0.96
EF-84 A and B and EF-102	Develop	VOC	0.06	0.18
EF-40, EF-61	P-11 Sodium Chlorite Surface Preparation	VOC	0.06	0.18
		non-VOC	0.31	1.07
DC-064, EF-62	P-12 Drills	PM	0.03	0.09
EF-91	P-13 Vapor Blast	PM	0.06	0.18
EF-92, EF-93	P-14 Smear Remove	VOC	1.01	3.02
		PM	0.93	2.80
WFS-6, EF-94	P-15 Copper Plate	VOC	9.90	21.27

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
		PM	8.79	25.28
WS-7, EF-32, EF-34, EF-48	Plate	PM	3.62	12.54
		Other	5.17	12.74
EF-49, EF-80	P-16 LAM DEV	VOC	4.50	8.04
EF-55	P-17 Photolab Developer	VOC	0.03	0.09
		PM	0.06	0.18
CAU 6	P-18 Photolab	VOC	1.94	1.57
CAU-5	P-19 Machining	PM	0.09	0.27
EF-77, EF-99	P-22 Re-Entek	VOC	0.48	1.66
		PM	0.27	0.95
EF-53, EF-66, EF-67, EF-73	P-23 Process Engineering Labs	VOC	0.51	1.72
		PM	0.27	0.95
EF-100	P-24 Analytical Labs	VOC	0.06	0.18
		non-VOC	0.06	0.18
20-CDC	S-2 Inorganic Dispense	Other	0.03	0.09
21-CDC	S-3 Non-Flammable Dispense 0.27		VOC	0.09
18-CDC	S-4 Flammable Dispense	VOC	0.18	0.18
70NSC and 70SC	S-5 Bulk Cupric Chloride	PM	0.06	0.18

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

## AIR CONTAMINANTS DATA

Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
STK 7014	S-6 Bulk Sodium Hydroxide 0.09		PM	0.03
STK 7021	S-7 Bulk MEK Tank	VOC	8.52	0.25
STK 7024	S-8 Bulk Resin Tank	VOC	8.52	0.74
STK 7023	S-9 Bulk EGME Tank	VOC	0.10	0.34
Fuel Oil Tank	S-10 Fuel Oil Tank	VOC	0.35	1.54
70SC	S-11 Bulk Hydrochloric Acid	PM	0.33	0.42
Atm. Vent	S-12 DOWT Tanks	PM	0.03	0.09
Atm. Vent	S-13 DOWT Tanks	non-Voc	0.06	0.18
Atm. Vent	S-14 DOWT Tanks	non-VOC	0.06	0.18
Atm. Vent	S-17 Water Treatment Support Tanks	VOC	0.03	0.09
		SO <sub>2</sub>	0.11	0.40
		PM	0.09	0.27
Boiler 1, Boiler 2	1.54	S-18 CUP Boilers VOC		0.44
Boiler 3				
		NO <sub>x</sub>	31.70	111.00
		SO <sub>2</sub>	29.70	9.16
		CO	18.20	64.00

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

## AIR CONTAMINANTS DATA

Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
		PM	2.09	7.31
Vent	S-21 (Building 060) Emergency Generators	VOC	0.42	0.05
		NO <sub>x</sub>	5.02	0.90
		SO <sub>2</sub>	5.18	1.40
		CO	1.14	0.13
		PM	0.38	0.08
Vent	S-22 (Building 062) Emergency Generator	VOC	0.21	0.02
		NO <sub>x</sub>	2.51	0.45
		SO <sub>2</sub>	1.70	0.70
		CO	0.20	0.04
		PM	0.10	0.04
Vent	S-23 (Building 061) Emergency Generator	VOC	0.07	0.01
		NO <sub>x</sub>	1.20	0.45
		SO <sub>2</sub>	1.70	0.70
		CO	0.20	0.04
		PM	0.10	0.04
Vent	S-24 (Building 063) Emergency Generator	VOC	0.09	0.01
		NO <sub>x</sub>	1.08	0.45
		SO <sub>2</sub>	1.70	0.70
		CO	0.25	0.04
		PM	0.10	0.04
Vent	S-25 (Building 045) Emergency Generator	VOC	0.10	0.02
		NO <sub>x</sub>	1.22	0.45
		SO <sub>2</sub>	1.70	0.70
		CO	0.28	0.04
		PM	0.09	0.04
EF-41,	Persulfate Supply System	PM	0.06	0.18

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	Emission Rates	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
and EF-42				
Fugitive	Fugitives	VOC	15.34	28.31
		Other	0.37	1.28

(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) VOC - volatile organic compounds as defined in General Rule 101.1

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

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

CO - carbon monoxide

PM - particulate matter

non-VOC - those compounds specifically excluded from General Rule 101.1 definition for VOC.

Other - ammonia

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

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

Dated\_\_\_\_\_