

# 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)	<u>Emission Rates *</u>	
			lbs/hr	TPY
EF-50	P-1 Varnish Mix Room	VOC	1.29	2.38
INC-1 and INC-2	P-2 Treater	VOC	13.90	19.43
		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
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	3.17	11.09
EF-54	P-10 Resist Apply, Hole Burnout, Diazo	VOC	0.06	0.18
		PM	0.27	0.96

Develop, and Expose

WFS-3,  
EF-61,  
and EF-62

P-11 Sodium Chlorite  
Surface Preparation

VOC  
non-VOC

0.06  
0.314

0.18  
1.07

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			lbs/hr	TPY
DC-064	P-12 Drill		PM	0.03 0.09
WFS-6, WFS-7, EF-32, 24, 48, and 49	P-15 Copper Plate		VOC PM	9.90 21.27 8.79 25.28
EF-55	P-17 Photolab Developer		VOC PM	0.03 0.09 0.06 0.18
CAU 5 and/or CAU 6	P-18 Photolab		VOC	1.94 1.57
EF-30	P-22 Re-Entek		VOC PM	0.48 1.66 0.27 0.95
EF-53, 66, 67, 73, and 74	P-23 Process Engineering Labs		VOC PM	0.88 2.99 0.44 1.40
A-0772, 0773, 0774, 0775, 0779, 0782, 0787, 0788, 0789, 0801, 1071, and 1072	P-24 Analytical Labs		VOC non-VOC	0.06 0.18 0.06 0.18
A-0790 and A-1073	P-25 Failure Analysis Lab		VOC PM	0.21 0.63 0.15 0.45
A-0815, 0812, and 0817	P-26 Development Lab		VOC non-VOC PM	1.26 1.68 5.75 4.73 0.28 0.82
Stack 20-CDC	S-2 Inorganic Dispense		PM	0.03 0.09
Stack 21-CDC	S-3 Non-Flammable Dispense		VOC	0.09 0.27
Stack 18-CDC	S-4 Flammable Dispense		VOC	0.18 0.18
Stacks 70NSC	S-5 Bulk Cupric Chloride		PM	0.06 0.18

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and 70SC

Stack 7014	S-6 Bulk Sodium Hydroxide	PM	0.03	0.09
Stack 7021	S-7 Bulk MEK Tank	VOC	8.52	0.246

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Stack 7024	S-8 Bulk CIBA Tank	VOC	8.52	0.735
Stack 7023	S-9 Bulk EGME Tank	VOC	0.098	0.34
Fuel Oil Tank	S-10 Fuel Oil Tank	VOC		1.54
Stack 70SC	S-11 Bulk Hydrochloric Acid	PM	0.331	0.42
Atm. Vent	S-12 Waste Cupric Chloride Transfer Tank (Bldg 060)	PM	0.03	0.09
Atm. Vent	S-13 Dilute Organic Waste Transfer Tank (Bldg 060)	non-Voc	0.06	<0.01
Atm. Vent	S-14 Dilute Organic Waste Treatment System (Bldg 063)	non-VOC	0.06	<0.01
Vent	S-15 DOWT Carbon Transfer	non-VOC	<0.01	<0.01
Vent	S-16 Sludge Drier	VOC	0.03	0.09
		PM	0.30	0.48
Atm. Vent	S-17 Water Treatment Support Tanks (Bldg 060-1)	VOC	0.03	0.09
		SO <sub>2</sub>	0.11	0.40
		PM	0.09	0.27
Vent	S-18 Boilers (Bldg 062)	VOC	0.44	1.54
		NO <sub>x</sub>	31.70	111.00
		SO <sub>2</sub>	29.70	9.16

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		CO	18.20	64.00
		PM	2.09	7.31
Vent	S-21 (Bldg 060) Emergency Generators	VOC	0.42	0.05
		NO <sub>x</sub>	5.02	0.55
		SO <sub>2</sub>	5.18	0.57
		CO	1.14	0.13
		PM	0.38	0.04
Vent	S-22 (Bldg 062) Emergency Generator	VOC	0.21	0.02
		NO <sub>x</sub>	2.51	0.28
		SO <sub>2</sub>	2.59	0.28
		CO	0.57	0.06
		PM	0.19	0.02

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lbs/hr	TPY
Vent	S-23 (Bldg 061) Emergency Generator	VOC	0.07	0.01
		NO <sub>x</sub>	0.88	0.10
		SO <sub>2</sub>	0.91	0.10
		CO	0.20	0.02
		PM	0.07	0.01
Vent	S-24 (Bldg 063) Emergency Generator	VOC	0.09	0.01
		NO <sub>x</sub>	1.08	0.12
		SO <sub>2</sub>	1.12	0.12
		CO	0.25	0.03
		PM	0.08	0.01
Vent	S-25 (Bldg 045) Emergency Generator	VOC	0.10	0.01
		NO <sub>x</sub>	1.22	0.13
		SO <sub>2</sub>	1.26	0.14
		CO	0.28	0.03
		PM	0.09	0.01
EF-41, and EF-42	Persulfate Supply System	PM	0.06	0.18
Fugitive	Circuit Packaging Facility	VOC	23.91	37.75
		non-VOC	0.59	2.6
		PM	0.37	1.28

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- (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  
CO - carbon monoxide  
SO<sub>2</sub> - sulfur dioxide  
PM - particulate matter

- \* 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 \_\_\_\_\_