

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 19708

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 *	Source	Air Contaminant	<u>Emission Rates</u>	
Point No. (1)	Name (2)	Name (3)	<u>lb/hr</u>	<u>TPY</u>
All Points (4)	Wafer Fabrication Lines	VOC	44.52	79.78
		non-VOC	10.13	19.01
		Acid/Alkali	4.81	8.74 (5)
		Specialty Gas	2.39	6.35
		Inorganic Gas	7.18	8.44
		Halocarbons	4.96	9.38
FS-1 through FS-3 Acid	3.11	Wafer Fabrication LinesNitric 5.20 (6)		
		Sulfuric Acid	1.88	6.37 (6)
		Hydrofluoric Acid	0.22	1.42 (6)
		Hydrochloric Acid	4.49	1.87
FS-33 through FS-35 Acid	4.72	Wafer Fabrication LinesNitric 5.20 (6)		
		Sulfuric Acid	2.98	6.37 (6)
		Hydrofluoric Acid	0.32	1.42 (6)
		Hydrochloric Acid	6.80	2.32
FS-C	Wafer Fabrication Lines	Nitric Acid	1.24	5.20 (6)
		Sulfuric Acid	0.68	6.37 (6)
		Hydrofluoric Acid	0.10	1.42 (6)
		Hydrochloric Acid	1.79	0.86
FS-14 through FS-18		Wafer Fabrication Lines		
	Hydrochloric Acid	0.58	1.13	
FS-C2	Wafer Fabrication Lines	Hydrofluoric Acid	0.03	1.42 (6)

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Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
CD-1DR	Rotor Concentrator/ Thermal Oxidizer	POC	3.38	14.82
BS-1A	Boiler	POC	2.15	9.43
BS-2A	Boiler	POC	2.15	9.43
BS-3A	Boiler	POC	2.15	9.43
BS-4C	Boiler	POC	0.79	3.49
BS-5C	Boiler	POC	0.79	3.49
BS-6C	Boiler	POC	0.09	0.38
T-1	Diesel Tank	VOC	0.02	<0.01
T-2	Sodium Hydroxide Tank	Alkali	<0.01	<0.01
T-3	Sodium Hydroxide Tank	Alkali	<0.01	<0.01
T-4	Sulfuric Acid Tank	Acid	<0.01	<0.01
T-900	Hydrochloric Acid Tank	Acid	0.77	0.02
BWS	Bulk Waste Solvent	VOC	0.39	0.02

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

(2) Specific point source name.

(3) VOC - volatile organic compounds as defined in General Rule 101.1  
non-VOC - acetone and compounds specifically excluded from the

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definition of VOCs in General Rule 101.1

POC - products of combustion including VOC, NO<sub>x</sub>, SO<sub>x</sub>, CO, and PM.

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

SO<sub>x</sub> - sulfur oxides

CO - carbon monoxide

PM - particulate matter, suspended in the atmosphere, including

PM<sub>10</sub>

(4) Emissions can be vented to any one of the following emission points:

(5) These emissions do not include nitric acid, sulfuric acid, and hydrofluoric acid.

(6) This annual allowable emission rate is a sitewide emission rate.

FS-1	Water Scrubber	FS-35	Water Scrubber
FS-2	Water Scrubber	FS-38	Water Scrubber
FS-3	Water Scrubber	FS-39	Water Scrubber
FS-14	Water Scrubber	FS-C	Water Scrubber
FS-15	Water Scrubber	FS-C2	Water Scrubber
FS-16	Water Scrubber		
FS-17	Water Scrubber	SE-12	Solvent Exhaust
			(uncontrolled )
FS-18	Water Scrubber	SE-C	Solvent Exhaust
			(uncontrolled )
FS-33	Water Scrubber	SE-C2	Solvent Exhaust

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FS-34	Water Scrubber	CD-1DR	(uncontrolled ) Rotor Concentrator /Thermal Oxidizer
HE-31	Heat Exhaust	HE-4 HE-32	Heat Exhaust Heat Exhaust

Dated \_\_\_\_\_