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APPLICATION FOR INDUSTRIAL WASTES DISCHARGE PERMIT

Date May 31, 1983 No.

A. Name or Organization Fairchild - Hybrid Products Division
Address 369 Whisman Rd., Mtn. View, Ca. 94042 BUILDING #19
Address of Point of Discharge Same as Above
Individual Responsible for Industrial Waste Name ~~Terry Beall~~ SAM THOMAS
Signature Terry W. Beall
(415) ~~962-5590~~ 962-3189 Telephone #

Attach Map Showing Point of Discharge, Sampling Points, and Waste Treatment Facility

B. Flow Rate: Average 90,000 gals/day 99,262 GPD Max. 110,000 gals/day 148,893 Peak Hourly 100 GPM 155 GPM

C. Submit separate statement:

1. Detailing type of industry and nature of products
2. Listing chemicals used and approximate concentrations
3. Describing waste treatment facilities
4. Giving characteristics of exceptional industrial wastes
5. Concerning radioactive wastes
6. Naming organic solvents discharged and concentration at point of discharge

D. Indicate the point of discharge concentration of the following characteristics and mass emission rates where applicable.

Biochemical oxygen demand (B.O.D.)	50	mg/l	Grease and oil, total	0	mg/l
Chemical oxygen demand (C.O.D.)	100	mg/l	Hydrogen Ion content pH	5.5 - 10	
Total Solids, Average	200	mg/l	Fluoride	5.0	mg/l
Suspended Solids, Average	50	mg/l	Temperature	60	°F

	Max. Conc. Allowable mg/l	Allowable Mass Emission Rate kg/day		Max. Conc. Allowable mg/l	Allowable Mass Emission Rate kg/day
Arsenic	0.1	0.01	Cyanides	1.0	0.1
Barium	5.0	0.5	Formaldehyde	5.0	0.5
Beryllium	1.0	0.1	Lead	0.5	0.05
Boron	1.0	0.1	Manganese	1.0	0.1
Cadmium	0.1	0.01	Mercury	0.05	0.005
Chromium Hexavalent	1.0	0.1	Nickel	1.0	0.1
Chromium Total	2.0	0.2	Phenols	1.0	0.1
Cobalt	1.0	0.1	Selenium	2.0	0.2
Copper	1.0	0.1	Silver	5.0	0.5
Cresols	2.0	0.2	Zinc	5.0	0.5

NOT TO BE COMPLETED BY APPLICANT

Permit to Discharge Industrial Wastes in Accordance with This Application Subject to Attached General and Specific Conditions

Maintenance Director Date

Permit to Discharge Exceptional Industrial Waste Approved

List Details:

Maintenance Director 345 Date

MD-6A (1-83) DIST: Original - File; Copy - Discharger; Copy - Water Quality Control Plant

APPLICATION FOR INDUSTRIAL WASTES DISCHARGE PERMIT, ITEM C.

1. Type of Industry and Nature of Products.

Fairchild Semiconductor processes silicon metal into electronic semiconductor devices.

2. Chemicals used in semiconductor device processing are:

Gases	Liquids	Liquids
Nitrogen	Sulfuric Acid	Methanol
Hydrogen	Nitric Acid	Isopropanol
Oxygen	Hydrofluoric Acid	Methylene Chloride
Argon	Hydrochloric Acid	Trichloroethane
Hydrocen Chloride	Acetic Acid	Detergents
Chlorine	Phosphoric Acid	Aluminun Sulfate
Compressed Air	Ammonium Fluoride	Sodium Carbonate
Ammonia	Ammonium Hydroxide	Sodium Hydroxide
Diborane	Acetone	Freon (TE, TF, TMC)
Phosphine	Silicon Tetrachloride	Xylene
Silane		

3. Waste Treatment Facilities.

Acid wastes are neutralized with sodium hydroxide before discharge into the sewer system. Fluoride solutions are captured for class I disposal.

4. Characteristics of Exceptional Wastes.

No radioactive wastes are discharged.
Organic wastes are captured for disposal and recycling.