

## Failure Analysis Equipment List

EQUIPMENT DESCRIPTION	VENDOR	MODEL NUMBER	STATUS
1. Scanning Electron Microscope	JEOL	JSM-6401F	INSTALLED
2. Gold Sputter (SEM Sample Prep)	ANATECH	Hummer VIII	INSTALLED
3. Energy Dispersive X-Ray	OXFORD INST.	LINK ISIS - L200C	INSTALLED
4. F.I.B. - Focused Ion Beam Workstation	F.E.I.	FIB-600 Workstation	INSTALLED
5. Real-Time X-Ray Imaging System	FEIN FOCUS	FXS - 100.10	INSTALLED
6. Scanning Acoustic Microscopy	Sonix	Micro-Scan 4HF-200	INSTALLED
7. Ball Shear Strength Tester	KELLER	MBS-200	INSTALLED
8. XRF Lead Finish/Composition Measurement System	Twin City, Inc.	XRF-5500	INSTALLED
9. Liquid Crystal Hot Spot Detection System/Kit, with 3 temp.	Technology Associates	P/N 4330	INSTALLED
10. Emission Microscope for Multilayer Inspection (EMMI)	Hypervision	Visionary 2000	INSTALLED (DELIVERY = JUNE, 1995)
11. Curve Tracer	BID Services		INSTALLED
12. Metallurgical High Power Microscope	Scientific Instrument Company	see quote (various)	INSTALLED
13. Stereozoom Low Power Microscope - video camera + monitor	Scientific Instrument Company	see quote (various)	INSTALLED
14. Micro-Etcher System	TM Associates		INSTALLED
15. Video Camera Interface with High Power Microscope	Computer Modules		INSTALLED

EQUIPMENT DESCRIPTION	VENDOR	MODEL NUMBER	STATUS
16. Hermeticity Test System - Fine Leak - Gross Leak	BID Services	- Trio-tech 486 - Veeco MS-170	PENDING
17. Die-Shear Tester	KELLER	see # 7	INSTALLED
18. Steam Aging System	Robotic Systems	ST2D	INSTALLED
19. Solder Wave/Pot	Robotic Systems	RPS-202	INSTALLED
20. Lead Fatigue Tester	B & G	004-012-00	INSTALLED
21. Conventional Oven (C.D.A.)	Bid Service		INSTALLED
22. Drill-bit to open MQUADS + Decapping vise			INSTALLED
23. Color Printer	Tektronix	Tektronix Phaser IISD	INSTALLED
24. Stud Pull Tester	B & G	003-010-00	INSTALLED
25. Work Benches			INSTALLED
26. Cabinets			INSTALLED
27. Facilities (Lab Area and Equipment Installation Costs)			IN-PROGRESS
*28 Tool Maker Microscope			PENDING
*29 Flowhood & Rinse Station			PENDING
30. Precision X-Sectioning Equipment			INSTALLED
31. Plasma Etcher	March Instruments	CS-1701	INSTALLED
32. E-Beam IDS-3000	Fairchild	IDS-3000	INSTALLED

\* NOTE: P.R. to be submitted at a later date

