Heavy Ion SEE

Test Org.*	Device	Function	Technology	Mfr.	Effective SEU LET* Threshold	Device Xsection (cm^2)	Bits Tested	Bit Xsection (cm^2)	Test Date	LUth	LU Xsection (cm^2)	Fac.	Remarks
													30-Aug-99
	Note: Entries in **RED** indicate data added since the 1997 Compendium.												
	*LET is effective (angle corrected) Linear Energy Transfer in MeV/(mg/cm2).												
Legend:													
	Manufacturers: ACT - ACTEL, Corp; ADA - Advanced Analog Devices; ADI - Analog Devices, Inc; AFX - Aeroflex Labs; AMD - Advanced Microdevices Corp; ASI - Allied Signal, Inc; ATT - American Telephone & Telegraph;												
	BAL - Ball Efatrom; BOE - Boeing Corp; BUB - Burr-Brown Corp; CCT - C-Cam Technology; CRY - Crystal Semiconductor; CYP - Cypress Corp; CYR - Cyrix; DAT - Datel; DDC - Data Device Corp; DEC Digital Electronic Corp;												
	FER - Ferranti; FOR - Force, Inc; GAZ - Gazelle Semiconductors; GIF - General Instruments, Corp; GTF - Gatefield; GIC - General Instruments Corp; HAM - Hamamatsu; HAR - Harris, Corp; HON - Honeywell; HPA - Hewlett-Packard;												
	HTC - Hitachi, Ltd; IBM - International Business Machines; IDT - Integrated Device Technology; IMP - IMP, Inc; INT - Intel Corp; ISM - Inmos, Corp; ISS - ISS, Inc; ITP - Interpoint; LMA - Lockheed-Martin; MAT - Matsushita, Corp;												
	MCN - Micron Technologies; MDI - Modular Devices, Inc; MED - Marconi Electonic Devices; MHS - Matra-Harris Semiconductor (France); MIC - Micrel Semiconductors; MIR - Micro-Rel Corp; MMI - Monolithic Memories;												
	MOT - Motorola Semiconductor Products; MPC - Micropac, Corp; MPS - Micro Power Systems; MXM - Maxim; NTL - Natel, Inc; NEC - Nippon Electric Corp; NCR - National Cash Register; NSC - National Semiconductor; OMR - Omnirel, Inc;												
	ONI - Optical Networks, Inc; OPT - Optek; ORB - Orbit Semiconductors; PFS - Performance Semiconductors; PHL - Phillips Laboratories; PLS - Plessey Semiconductor; PMI - Precision Monolithic, Inc; PRG - Peregrine; QLG - Qualcomm; QSI - Quickswitch, Inc; RAY - Raytheon;												
	RCA - Radio Corp of America; RMT - Ramtron; ROC - Rockwell International; SAM - Samsung; SCI - SCI Systems; SDL - Spectra Diode Labs; SIL - Siliconix; SGN - Signetics Corp; SNL - Sandia National Laboratories; SNY - Sony Corp; SYN - Synova;												
	SOR - Sorep (Europe); SPT - Signal Processing Technology; SRT - Saratoga Semiconductor; SSD - Solid State Devices; STC - Silicon Transistor Corp; TCS - Telecom Semiconductor; TEL - Teledyne Crystalonics; TIX - Texas Instruments;												
	TMS - Thompson-CSF; UTM - United Technologies Microelectronics Center; UTR - Unitrode; WEC - Westinghouse Electric; WSI - Western Semiconductor, Inc; XIC - Xicor, Inc; XIL - Xilinx Corp; YAM - Yamaha; ZOR - Zoran												
Test Organizations				**Radiation Facilities**									
	ALC - Alcatel Espace, France				BNL - Tandem Van de Graaff, Brookhaven National Laboratories, Long Island, NY								
	ARSP - Aerospace Corp., El Segundo, CA				Cf-252 - Cf-252 Fission Source (various facilities)								
	Ball Aerospace, Colorado Springs, CO				CYC - CYCLONE, Université Catholique de Louvain-la-Neuve, Belgium								
	BREL - Boeing Radiation Effects Laboratory, Seattle, WA				GANIL - GANIL Accelerator, France								
	CERT - CERT-ONERA, France				GSI - Gesellschaft fur Schwerionenforschung, Darmstadt, Germany								
	CLEM - Clemson University, Clemson, SC				HARW - Harwell Laboratory, Oxford, UK								
	CNES - Centre National d'etudes Spatiales, Toulouse, France				HCL - Harvard Cyclotron Laboratory, Boston, MA								
	DASA - Daimler Chrysler Aerospace, Munich, Germany				IPN - Insitute Physique Nuclaire, University of Orsey, France								
	ESA - European Space Agency, Noordwijk, Netherlands				IUCF - Indiana University Cyclotron Facility, Bloomington, IN								
	GD - General Dynamics, Azuza, CA				JAERI - Japanese Atomic Energy Research Institute, Japan								
	GE - General Electic, Valley Forge, PA				LLU - Loma Linda University Medical Center, Loma Linda, CA								
	GSFC - Goddard Space Flight Center, Greenbelt, MD				NSCL - Michigan State University K1200 Superconducting Cyclotron, East Lansing, MI								
	HAC - Hughes Aircraft Co, El Segundo, CA				ORNL - Oak Ridge National Labs, Oak Ridge, TN								
	HAR - Harris Corp, Melbourne, FL				PSI - Paul Scheerer Institute, Villigen, Switzerland								
	HON - Honeywell Space Systems, Clearwater, FL				SAT - SATURNE, CEA, Saclay, France								
	IBM - IBM Federal Systems Division, Manassas, VA				SPR - Sandia Pulse Reactor, Albuqueque, NM								
	ICI - Innovative Concepts Inc., McLean VA				TAM - Texas A&M University Cyclotron Institute K500 Superconducting Cyclotron, College Station, TX								
	JH - Johns Hopkins Applied Physics Lab, Laurel, MD				TIARA - Takasaki Ion Accelerators for Advanced Radiation Application, Japan								
	JPL - Jet Propulsion Laboratory, Pasadena, CA				TRI - TRI-University Meson Facility, Vancouver, British Columbia, Canada								
	JSC - Johnson Space Flight Center, Houston, TX				TSL - The Svedberg Laboratory, Uppsala, Sweden								
	LFS - Loral/Lockheed Federal Systems, Manassas, VA				TU - Tokyo University, Japan								
	LIN - MIT Lincoln Labs, Lexington, MA				UCB - 88-inch Cyclotron, University of California, Berkeley, CA								
	LIT - Litton, Huntsville, AL				UCD - University of California at Davis, Crocker Nuclear Laboratory, Davis, CA								
	LLNL - Livermore National Laboratories, Livermore, CA				UW - University of Washington cyclotron, Seattle, WA								
	LMC - Lockheed-Martin Corp, Sunnyvale, CA				VEC - Variable Energy Cyclotron, AERE, Harwell, UK								
	LMM - Lockheed Martin Missles and Space. Newtown, PA				WNR - Los Alamos National Laboratories, NM								
	LSI - LSI Logic, Milpitas CA				WU = Waseda Univ. (Japan).								
	McD - McDonald-Douglas, Newport Beach, CA												
	MHS - Matra Harris Semiconductor, France												
	MM - Martin Marietta Aerospace, Valley Forge, PA												
	MMS - Matra Marconi Space, France												
	MOT - Motorola Semiconductor Products, Phoenix, AZ												
	NASDA - National Space Development Agency of Japan, Tokyo, Japan												
	NRL - Naval Research Laboratory, Washington, DC												
	NSWC - Naval Surface Warfare Center, Crane, IN												
	ORNL - Oak Ridge National Labs, Oak Ridge, TN												
	ROCK - Rockwell Corp. (now Boeing), Anaheim, CA												
	SAAB - Ericsson Saab Avionics AB, Linköping, Sweden												
	SEI - Space Electronics, Inc, San Diego, CA												
	S^3 - S-Cubed, San Diego, CA												
	SNL - Sandia National Laboratories, Albuquerque, NM												
	SOR - Soreq NRC, Israel												
	UA - University of Arizona, Tuscon, AZ												

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Test Organizations (cont.)													
	US - University of Siegen, Germany												
	UTM - United Technologies Microelectronics Center, Colorada Springs, CO												
	UW - University of Washington, Seattle, WA												