

Equipment to be Ordered

#			Target Dates			
			Ordered	Received	Installed	Tested
100	Misc Rack Components					
102	Open Frame Rack					
104	Rack AC distribution box and filters					
106	Rack UPS					
135	Misc Cables and Connectors					
140	Cartridge Power Supplies, NRAO-made or commercial units.					
145	Square Law Detector/Amplifier					
150	8-CH Temperature monitor					
152	Dewar heater controller (GPIB power supply)					
162	IF Spectrum Analyzer					
164	Power Meter					
165	Power Head/Cables					
167	Oscilloscope					
170	Interim test items					
172	Interim bias supply for preliminary cartridge testing					
174	Interim LO system					
176	Interim optical system (2 mirrors)					
178	Control/Bias cables					
235	AN72 RF absorber material					
400	Control and Analysis Computer					
410	Software					
415	GPIB card					
420	GPIB Cables					
425	Multifunction Card: Analog and Digital I/O					
430	CAN Controller Card					
435	I2C interim controller card					
440	SPI and other interim controller cards					
445	Computer shelf for instrument rack					
450	UPS for computer					
600	Miscellaneous tools and supplies					
605	Misc. tools, wrenches, screwdrivers, toolbox, etc.					
610	Misc. hardware, rack screws, cable ties, etc.					
615	Solder, soldering station					
620	DVMs for trouble shooting					
622	Vacuum pump for general lab use, belt drive.					
624	LN2 flask, 2 liter					
501	Sumitomo refrigerator and Dewar system					
505	Sumitomo maintenance contract					
532	Temperature Sensors					
533	Temperature Sensor mounts					
534	Liquid Helium to calibrate diodes (60l)					
511	Gas regulator					
513	General Pressure Gauges, Manifold Valves					
515	Vacuum Pump & Pump Vacuum Gauge					
516	Dewar Vacuum Gauge					

Equipment to be Built

		Target Dates					
		Designed	Parts Ordered	Parts Received	Built	Documented	Tested
110	Dewar control chassis						
112	I/O Card Interface						
114	Cable from computer to I/O interface						
116	Misc Parts						
130	20V Rack Power Supply						
192	Rack assembly and integration						
194	Documentation						
196	Assembly of interim test system parts						
198	Breakdown of interim test system parts						
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200	Front end test equipment						
205	Chopper Wheel and Controller						
210	Chopper Wheel						
215	Synch PCBs						
220	Controller						
225	Redesign of larger chopper wheel						
230	Chopper wheel assembly						
240	Chopper Wheel Support structure						
245	LN2 Fill System						
250	LN2 fill system assembly						
255	Run LN2 lines						
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300	Warm IF Plate						
305	RF Components						
350	Controller						
475	Computer check-out						
480	Installation of cards in computer						
485	Software configuration and checkout (cards, GPIB,...)						
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500	Vacuum / Refrigerator System						
502	Flex Lines from wall to Dewar and manifold						
503	Run rigid compressor lines from shed to lab						
504	AC power lines and hookup for compressor						
510	Filling manifold						
512	Helium line Pressure Monitor						
520	Low-loss RF vacuum window and frame						
521	IR filter and frame						
576	Receive and test Sumitomo system						
577	Build refrigerator test cartridge (dummy cartridge)						
578	Install diodes, heaters, auxiliary wiring						
579	Assemble msic. vacuum hardware						
580	Machine dewar for RF vacuum window and filters						
530	Dewar Mounting Frame						
531	Auxiliary wiring connectors and filters						
535	Cartridge insertion device ("loader")						
536	Phosphor Bronze wire						
540	Misc. vacuum fittings						