FY-99

2.0 Phase I, Tank Load, Support Equipment, LL Electronic Rack Preparations:	Labor $$	Man-hrs	Purchases $$
2.1 Tank 2 Preparation			
2.1.1 Impedance check each Drift Tube Quad	1027	16	
2.1.2 Design and power Drift Tube Quads	913	13	
2.1.3 Calibrate Pick-up Loop	328	4	
2.2 Vacuum, Install Ion pumps and pump down Tk.	1313	24	
2.3 RF Crowbar, modify chassis and wire in.	3081	45	
2.4 Frequency Control Loop, design build	1932	26	450
2.5 Support Equipment			
2.5.1 Remote Control 8973 Plate PS	4431	64	
2.5.2 Run HV Cable to 8973, design HV splice box	8725	125	
2.5.3 Modify Plate PS for min resistance	1434	20	920
2.5.3 Design Plate OC detection electronics, build crowbar chassis	910	18	500
2.5.4 Reestablish DeIonized Water Cooling System	1094	20	
2.5.5 Wire Monitoring System to new control HV control rack	2155	29	
2.5.6 Get 8973 Vacuum Pumps operating	421	6	
2.6 Project Management Fee (Phase I, 34% of total)	11500	115	
PHASE I TOTALS **$41, 134.00**	39264	525	1870

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3.0 Phase II Low Level Rack, System Checkout, Test Operations			
3.1 Low Level 3 Wide Rack			6645
3.1.1 AC distribution, rack interconnection wiring	20021	286	
3.1.2 Power Supplies 4CW25K, plate, bias 8973 screen	6202	93	3815
3.1.3 Oscillator, Low Level 50W amplifiers			10000
3.1.4 DC Filament PS for 8973	770	12	
3.2 Hot Checkout of System			
3.2.1 Tank Conditioning, cost rolled into Phase II Tasks			
3.3 8973 g1\g2 modifications push power to max. limit	1491	21	
3.4 Tube Swap and test, each 8973	1642	20	
4.0 Test Result and System Documentation	1556	26	
4.1 Project Management Fee (Phase II 66% of total)	22374		
PHASE II TOTALS	54056	458	20460

FINAL PROJECT ESTIMATE: **$115,650.00**

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V. LoDestro