G0 Target Controls Status

E. Beise, Fall 99

Custom Hardware

- Target Heater supply override circuit (complete)
- 2 Oxford controllers in house (6 sensors) (tests underway)
- Vacuum Interlock box (to be designed)
- FSD Interlock box (to be designed)
- JT valve controller (JLAB)
- Pump controller (underway at Caltech)
- Connector specifications for Breakout Box
- All cabling still to be specified

EPICS-based controls software

- Specifications document mostly complete

  www2.physics.umd.edu/~beise/g0-exp/EPICS-specs.html
- S. Witherspoon of software division contacted, work begun (Aug 99)
- EPICS software delivery (JLAB) added to WBS
- VME hardware purchase $ still to be identified

VME Hardware Requirements for EPICS based system

Greenspring IPs (presently in use in Hall C)

Item	number	item cost	net cost
VME crate	1	$2,478.00	$2,478.00
VME MV68040 IOC	1	$3,300.00	$3,300.00
transition module	1	$340.00	$340.00
VME Carrier Board	2	$510.00	$1,020.00
IPADIO (8 ADC, 68 dig I/O, 2 DAC)	4	$795.00	$3,180.00
IP quadrature (4 counter/timers)	1	$375.00	$375.00
Serial interface (IPoctal232)	1	$345.00	$345.00
relay VMIVME2232-100 (32)	1	$1,125.00	$1,125.00
total			$12,163.00

Does not include spare parts