SLAC MEMORANDUM

To : Distribution

From : R. Fuller, Controls Department, ext. 2192

Date: June 17, 1999

Subject : NLC Control Systems

Meeting #64 Notes, 6/14/99

Present: B. Bennett, P. Bong, M. Browne, S. Clark, R. Fuller, R. Humphrey,
R. Johnson, W. Kroutil, R. Larsen, S. Smith, A. Tilghman, R. Zdarko

Meeting Subject :

- Lehman Review Recommendations - Responses

  R. Larsen reported that responses are being worked on and he is coordinating this effort with the appropriate individuals.

System Status’

- System Architecture

  S. Clark reported that attention is be focused on methods for achieving and coordinating the software efforts for the NLC. The software team is looking at the SNS project model/organization and the methods being used there to coordinate their collaborative software effort. Further work in prioritizing and phasing the various software efforts is underway. On a personnel note, S. Clark stated that H. Shoae had a bicycle accident and would be out on sick leave for the immediate future. We all wish him a fast recovery.

- PPS System

  P. Bong reported that they are looking into drivers for PLC systems that are compatible under EPICS. The current plan is to utilized the mock PPS entry module installed at CCR (used for radiation badge classes) as a development testbed for evaluating various vendor units. Vendors currently under consideration are GE, Allen Bradley, and ModCom.

- MPS/BCS Systems

  N.T.R.
BPM Systems

S. Smith reported that testing continues on the SCAM chip with current performance measurements of:

- Sampling Rate: 1.2Ghz
- BW: 300MhZ
- DC S/N: 1000:1
- AC S/N: 100:1

Steve also reported that A. Young is onboard and helping with the characterization of several broadband hybrids. Work continues on the testbed by E. Medvecko.

Mover Systems

Mike Browne reports that the design and loading of a four channel mover driver PC board is done and currently under bench-test. Initial testing looks good with short inter-connect cables. The insertion of longer length inter-connect cables starts to introduce audible drive noise. Mike is certain this effect is the resultant of increased capacitance and will experiment with LC combinations. Procurement of a different characteristic cable is underway. Mike continues to look into non-contact sensors and is initiating the procurement of a Kaman 4 channel PCbd. w/sensors for bench evaluation.

Vacuum System

N.T.R.

Project Management

R. Larsen suggested that we should be looking into creative ways to reduce cost in all areas. Per Ray, J. Cornelle and J. Ives are working on developing a form to track cost optimizations. Magnet systems will likely be the first focus of this tracking exercise.

Action Items: none.

Next Meeting: Monday, June 21, 1999, 8034 First Floor Conference Room, Room 105, 1430-1 530

Agenda: open.

Enclosures: none.