DSG Meeting Minutes – Wednesday, May 28, 2014

Antonioli, Mary Ann:

- Fabricated and tested Hall B SVT HV cable #7.
- Attended meeting on Hall D target slow controls flowcharts.
  - Implemented suggested changes to the "Fill target" and "Empty target" flowcharts.
- Developed new plots for module straightness and flatness.
- Edited and sent meeting minutes.
- Tracked activity IDs for cost point items, *only* for Hall B SVT, and entered them in the Progress spreadsheet.
- Helped with reconfiguring lab work space.

Bonneau, Peter:

- Continuing to compile and write requirements for Hall B SVT EPICS slow controls system.
  - Posting documentation on my user-web site for general reference.
- Debugged Hall D target PLC controls and coordinated programming with Dave and Werth.
  - Lakeshore controls completed.
  - Encountered communication / licensing issues while attempting to run the Rockwell human-machine-interface (HMI) software on the Hall D subnet. A work-around is in progress for this issue.
- Discussed with Mike Cole (Electrical Equipment Company) and Colin Fradd (Rockwell) the PLC HMI and networking software needs for Hall B and Hall D.
  - Discussions included building a floating HMI license-based development system. This license will be added to the existing dongle-based RSLogix 5000 PLC development license.
  - Confirmed that we will be able to develop and troubleshoot PLC logic and HMI interfaces on the stand-alone system. The code developed on the stand-alone station can be directly copied and used on the subnet server/client-based system in the EEL or in the Hall.
- Submitted PR request order for Rockwell FactoryTalk /RSview (PLC HMI development).
- Researching PAC system for the Hall B SVT Gas controller.

Butler, Dave:

HallD

- Purging the FDC/CDC gas system.
  - Gas room purge completed. Purge includes the alcohol bubblers.
  - Purge to the gas panel in the hall completed.
  - FDC has been added and will be purged for several days.
- The FDC/CDC controls system is monitoring pressures.
- Separated CDC and FDC scanning in the gas system code to allow autonomous detector purge and operation.
- Continued debugging MPS power supply code.

Eng, Brian:

Hall B SVT

- Updated DAQ instructions with details on what constitutes a good/bad module; included example plots for shift takers at FNAL.
- Listed VME/VXS crate signals to be monitored/controlled by EPICS via SNMP.
- Prototyped SVT modules' cable strain relief to be used during assembly of the regions, while detector is on the optical bench.
  - Used Media Imaging's 3D printer to make prototype
  - Made small changes/improvements to model after having the part, mainly changing hole sizes and adding edge blends to surfaces to better account for variability in cable sizes.
- Made AutoCAD drawings for kapton tape masks that are placed over chip/bonding areas during component population; waiting on quote from vendor to have them laser cut.
- Formatted and installed Windows 7 on old computer for Sahin.

Jacobs, George:

Hall B Drift Chambers

- Moved JLG scissors from Hall B to EEL clean room, room 124.
- Searched and moved R1 DC magnet rail and associated hardware from ESB to EEL for R1 survey.
- Prepping R3S4 for transport from ESB to EEL.
- Moved CAEN HV test setup to ESB.
- Submitted PR for SVT flow control.
- Writing procedure for using the scissors lift for potting pins in the clean room.

Leffel, Mindy:

Hall B SVT

- Ordered components and cable for the V450 test cable.
- Fabricated and assembled slow controls patch panel (see photograph)
  - Attached DIN rails and terminal blocks. There was a problem with the sides of the patch panel; there were no pre-drilled holes or hardware for assembly. Devised a solution.

Slow controls patch panel

- Provided Anatoly instructions and supplies to terminate the plug side of the slow controls humidity/temperature sensor disconnect.
- Reconfigured lab work space.

Mann, Tina:

- Completed the last 3 of the 10 25-D-Sub cables for the Hall B SVT VME patch panel.
- QA-ed Hall B SVT bus cables.
  - Visually inspected bus cables
  - Used probe station to set and measure voltages; recorded voltage outputs on the data log sheets.
- Reconfigured lab work space.

Sitnikov, Anatoly:

- Arranged lab space for testing Hall D tagger microscope's light fibers.
- Made 10 jumper cables for Hall B SVT humidity/temperature sensor boards.

Teachey, Werth:

Hall D

- Wrote code in "Structured Text" to set the temperature set points for the "Empty Target" command on the Lakeshore 336 Temperature Controller.
- Started a command list for the Hall D target compressor.
  - The compressor communicates via RS-232 using Sycon Multi Drop Protocol (SMDP). The command list, which communicates with the compressor, consists of the 13 byte read/write SMDP commands that are loaded on the PLC in an array.