DSG Meeting Minutes – Wednesday, July 23, 2014

Antonioli, Mary Ann:
Hall B SVT
- Continuing to wire front panel of the HV distribution box.
- Researched type of HV cable needed, requested quote, and ordered.
- Set up Excel spreadsheet for testing of humidity and temperature sensors (HTS).
- Finished writing the test procedure HTS tests.
- Tested HTS boards 1, 2, 3, 6, and 8.
    – There is a problem with H1 on board #8 (negative readings).

Bonneau, Peter:
- Discussions with Dave and Robert (Werth) on how to improve the data display on the HMI screens and the status of preparations for the cool down of the Hall D Target.
    – Recommended adding an UPS to power the Hall D target PLC system.
- Working on automating test station for testing Hall B LTCC mirrors and Winston Cones.
    – Added code to support the new USB - GPIB interface and Keithley 6521 low current scanner.
- Coordinated software development for the Hall B SVT slow controls.
    – Updating interlocks.
- Completed test station Task Hazard Analysis for Hall B SVT V450 and HTS boards.
- Reviewed Hall B SVT budget balances in preparation for end of year purchasing.

Butler, Dave:
- Vacation

Eng, Brian:
Hall B SVT
- Tested parallel gain scan on completed R1 assembly.
    – Works as expected, data matches data from runs performed in serial mode.
- Took new required training for FNAL ID while at JLAB.
- Retested modules P29 and P30, prior to resuming module production, to ensure FNAL clean room HVAC failure didn't affect the modules' quality.

Jacobs, George:
Hall B DC
- Multiple meetings on notable safety incident.
    – Received final report.
- Demonstrated proper use of scissors lift in clean room for final potting to Stringers.
- Restarted potting operations in clean room on last R3 detector.
- Testing of last two R2 drift chambers (HV and DCRB) in the ESB in progress.
- Prepared Genie lift loan agreement for ODU.
- Assembling gas solenoid valve panel.

Solenoid valve panel

Leffel, Mindy:
- Completed 10 Hall B CTOF PMTs (cumulative total 95)
- Met with Dick Owens to discuss laser safety for the Hall B LTCC mirror and Winston Cone testing and calibration
- Worked with Tina to attach hasp to storage cabinet
- Tested two VME 2232 Relay boards for Hall B SVT

McMullen, Marc:
Hall B SVT
- Tested 11 HFCBs.
    - One unit measured ~0.8 – 0.7nA for LV (normal is 0.01 to 0.09). This was held back from module production. Ten HFCBs sent to Fermi for population and module production.
- Sent HV distribution box rear panels for machining.
- Grounded, in the clean room, the tables and floor mats.
- At Fermi:
    - Module P29 is in long term burn in.
    - Module P30 has HFCB glued and tested. It has been sent for bottom sensor gluing.
    - Started novice shifters module production guide.
- Wrote THA for V450 test stand.
- Submitted to Latifa cost list for SVT spares.
- Reviewed Hall B CTOF cutting and polishing procedure.
    - Submitted to Vitaly comments and recommendations for task hazard analysis (THA).

Mann, Tina:

- Worked on Hall B LTCC.
  - Took pictures of the process.
  - Loaded pictures, and worked on loading the work instructions in the computer.
- Drilled holes and installed terminal blocks onto Hall B SVT HV distribution box.

Sitnikov, Anatoly:

Hall B CTOF

- Prototyped fixture for cutting and polishing boron-silicon fibers ($\Phi = 0.32$ mm) for calibrating detector.
- Cutting and polishing of 4 fibers 0.32 mm for prototype.
- Checking cut fibers under microscope

Teachey, Robert (Werth)

Hall D Target

- Troubleshooting compressor flow meter display scaling.
- Installed:
  - New RTD meters with output relays for the LCW compressor's inlet and outlet temperatures.
- Configured and tested the temperature set-point alarm (75 ^{o}F) for the compressor LCW inlet.
  - Successfully trips the target interlock.
- Calibrated:
  - Vacuum, Supply pressure, Return pressure, and flow rate read backs displayed on HMI.
  - LCW cooling flow and temperature to the compressor.
- Inserted all values requested by the target group to be data based and charted it into the "PLC_ON_CHANGE_ARCHIVE" data base.
- Tested read backs and plots on the HMI while the target was being manually cooled.
- Wrote structured text code for the PLC to read back the compressor Helium temperature.