

## DSG Meeting Minutes – Wednesday, June 04, 2014

### **Antonioli, Mary Ann:**

- Refined Hall B SVT Geometry document pictures.
- Made first draft of Hall D "Target Turn Off" flowchart.
- Corresponded with IQAir to set up return of particle counter.
  - Prepared counter for shipment.
- Fabricated HV cable 8.
  - Fabricated one (of two) test stand cables.
  - Researched and ordered additional connectors.
- Set up data for module straightness graphs.
- Completed straightness graphs for production modules 6B, 6T, 7B, 7T, 8B, 8T, 17T, 17Trev2, 17Trev3.
- Completed flatness graphs for 6B, 6T, 7B, 7T, 8B, 8T.
  - Discussed a third graph to be done on each module.

### **Butler, Dave:**

- Continuing the purge procedure for Hall D FDC and CDC.
  - Flow rates in the gas shed were found to be about twice the flow to the FDC.
  - Checked all gas line joints with the Argon sniffer and found that Manual Valve MV140 was not tight. After tightening MV140, the flow meters were reading the expected flow and the system returned to normal operation.
- Finished writing the Hall D Magnet Power Supply (MPS) code that generates a ramp profile each time the current set point is changed.
  - Code takes the  $\Delta i$  from the instantaneous current reading to the new current set point, calculates the slew rate  $\Delta i / \Delta t$ , and generates the new profile that is then sent to the MPS via RS232 serial. Each time the set point changes, the current profile has to be stopped, removed from memory, and a new profile is generated and sent. This code was implemented to reduce inrush spikes when the power supply starts to change current.

### **Eng, Brian:**

#### Hall B SVT

- Tested HV distribution cable to confirm whether the pinout Mary Ann is using is correct
  - Verified with Keithley 2002 that 85 V is applied to each channel as expected.
- Shipped 180 FSSR2 chips to FNAL and updated inventory at JLab (155 left here).
- Wrote a Python script to import from FNAL, CMM data files generated by OGP into SQLite database.
  - Currently import all fiducials (8 per sensor), copper (2) and peek (1) holes and the module max/min thickness and flatness. Also import (as module 0) the ideal locations for the fiducials.
  - Some of the imported files required manual fixing of inconsistent formatting.
  - Started work on generating plots from the data, i.e. straightness.
- Debugging HFCB 038. Currently, a few channels have a higher error than expected. However, this is only on the 100 mV amplitude and the channel(s) vary between runs. When trying different amplitudes the problem goes away.

### **Jacobs, George:**

#### Hall B Drift Chambers

- Wrote procedure for potting pins in clean room using JLG scissors lift.
  - Forwarded procedure to Bert Manzlak.
  - HBLIST task # 782 for potting pins in clean room
  - HBLIST task# 784 for HV testing of the R2 drift chambers in the ESB.
  - HBLIST task #783 for removal of rack, HV crate, distro boxes from Hall B to ESB.
  - HBLIST task # 782 for potting the R3 crimp pins in the EEL clean room, edited and updated.
- Recommended to Tim Whitlatch and Narcisco Gomez some pressure regulators that could be used in Hall D gas system.
- Completed SAF302 man-lift training.
- Set up for HV testing in the ESB.
  - Gas cylinders and carts, HV supply, DCRB, rack, rack cart, etc.

- Ordered additional gas for DC testing in ESB.
  - Removed empty cylinders from ESB, moved gas from EEL to ESB.
- Moved R1 magnet rail and R3 magnet cart from ESB to EEL.
- Notable Event Incident Investigation meeting on 3 June, 10:00 - 11:30
- Installed magnet rail on R1S3 in preparation for position dependent wire tension testing.
  - Noted the winch and wire rope are missing.
- HV testing of R2 in ESB has commenced.
  - Estimate ~12 weeks to complete.
  - Started building 3rd HV test setup for the drift chambers in ESB.

#### **Leffel, Mindy:**

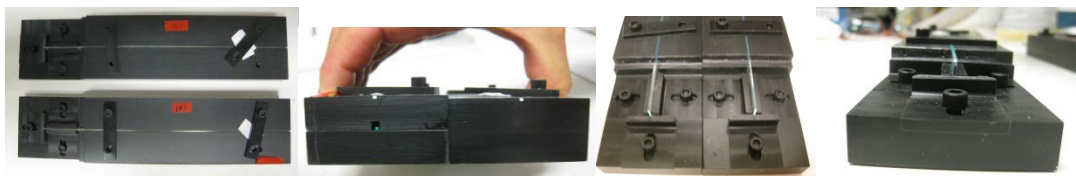
- Attached the Hall B SVT slow controls patch panel to the test stand power supply, using rails as a safety measure.
- Reworked 12 Hall B CTOF PMTs.
- Worked on humidity/temp sensor cables.
  - Attached socket pins to temp cables for five boards (10 cables).
- Explained to Anatoly the various stages of termination of the slow controls humidity/temp sensor disconnect.
- Picked up Hall B DC cables from the ESB to be tested and repaired if necessary.
- Removed Hall B DC CAEN power supply from test rack in Hall B and staged for crane pick up and Radcon release.

#### **Mann, Tina:**

- Completed testing the Hall B SVT bus cables at the probe station.
- Observed Hall B CTOF PMT solder board assembly.
- Cut and stripped wires for Hall B CTOF PMTs.
- Verified voltage on Hall B DC boards
  - From guard, field, and sense to the quad connectors and repaired any pins that needed to be replaced on the quad connectors due to damage.
- Moved monitor, computer, and test rack over to the ESB for testing of Hall B DCs.
- Picked up Hall B DC cables from the ESB to be tested and repaired if necessary.
- Removed Hall B DC CAEN power supply from test rack in Hall B and staged for crane pick up and Radcon release.

#### **Sitnikov, Anatoly:**

- Arranged lab space for testing Hall D tagger microscope's light fibers.
- Designed and fabricated custom fiber box.



- Made 10 jumper cables for Hall B SVT humidity/temperature sensor boards.