

DSG Meeting Minutes – Wednesday, December 17, 2014

Antonioli, Mary Ann:

Hall B

- Attempted to test ambient temperature, humidity, and low voltage interlocks of the SVT EPICS software, **however no progress was made due to the instability of the software.**
- Re-tested the channels that failed HV and high temperature interlocks testing. Tested OK.
- Wrote draft of **SVT** high temperature interlock testing procedure.
- Continued work on **SVT** HV interlock testing procedure.
- Analyzed data of 19 recoated LTCC Winston cones. All reflectivity averages, except one, are in the range of 81—87 %.

DSG

- Wrote first draft of DSG Note on LTCC data analysis.

Arslan, Sahin:

Hall B

- QA and QC completed on 15 **SVT** HFCBs, with Marc.
 - 11 have been shipped.



- Reorganized the large clean room.
- Unhooked signal cables from DCRB and reorganized.

Bonneau, Peter:

Hall B

- Created and tested **SVT** slow controls Mya configuration files for monitoring and archiving EPICS HV voltage and current PV signals for Region 1 (10 sectors).
- Continued testing **SVT** slow controls system stability.
 - In addition to the random tripping of high voltage and low voltage channels, the system would at times completely ignore the presence of a fault on ambient temperature or humidity. At other times, only a few channels would trip (as required) as shown on screen capture on the DSG SVT slow controls website here:
https://userweb.jlab.org/~bonneau/SVT%20Slow%20Controls/EPICS%20Tripping%20Errors/Epics_error_12_16_2014.png
- Trained Mary Ann on the procedures to test **SVT** HFCB EPICS temperature interlocks.
- Reviewed network requirements for the test stations, and **SVT** and **Micromegas** integration tests to be conducted in the EEL large cleanroom.
 - Contacted the Computer center regarding these requirements and obtained (2) 20 port switches.
- Showed Dave the initial interlock testing program for the Hall B **SVT**.

Butler, Dave:

Hall B

- Finished specifying and ordered the initial National Instruments hardware for the Hall B **Slow Tracking Detector Safety System** (TDSS). The initial system contains modules for the currently known SVT channels.

Hall D

- Setting up a magnet vapor-cooled lead flow slow control test bench for the planned valve replacement in January. I am going to utilize the development PLC and an NBX gateway to simulate the magnet slow controls system. Most of the code for the test will be copied from the existing code with some slight modification.

Eng, Brian:

On vacation

Jacobs, George:

Hall B

- Updated CAD diagram of proposed **RICH** detector N₂ purge setup.
- Updated CAD diagram of proposed **SVT** N₂ purge setup.
- Updated CAD diagram of proposed **HTCC** gas system.
- Updated CAD diagram of **LTCC** gas system.
- Met with Peter about available power for **SVT** test setup in EEL room124 clean room.
- Met with Paul Hanson on **TORUS** cable tray design.
- Created word document **DCGAS-CLAS12-Layout**.

Leffel, Mindy:

Hall B

- Attached connectors to 13 of 22 required SVT Slow Controls patch panel D-Sub cables.
- Made one mass flow controller cable for the Hall B gas system.
- Continued working on SVT HTSB cables.

Mann, Tina:

Hall B

- For the LTCC reflectivity tests:
 - Aligned laser through pin holes and performed calibration and mirror tests on re-coated cones from ECI
 - Tested 12 cones.
- Worked on LTCC note for cone testing procedure.
- Sorting through LTCC Winston cone test results to find the cones with the lowest percentage in reflectivity (shipping the lowest 60 units out to ECI for coating).

McMullen, Marc:

Hall B

- Started QA testing of 18 SVT HFCB bare boards with Sahin.
 - Eleven HFCB were sent for population on 12/16/14.
 - Updated HFCB QA sheet to include test position locations for resistance measurements and current vs. voltage. This change makes it easier to locate the test positions for a given QA step.
- Updated the SVT Off-cart to Insertion Cart package with information on the nitrogen gas lines. Two ¼” outer diameter nylon braid tubes will extend from the mass flow valves to the cold plates (R1-3 and R4).

Hall D

- Attended beam readiness meetings.
 - Week summary:
 - The solenoid magnet issues were resolved. The solenoid had repeated trips, which were caused by an ice ball on the magnet leads that was not as non-conductive as previously thought. The ice ball was thawed, heat tape was added to the leads to prevent another ice ball, and the leads were physically isolated with an insulated barrier.
 - The Key Performance Parameters set by DOE were achieved during the run, which is currently still underway. The run is scheduled to end on 12/17/14, but they will run until beam is shut down for the holiday break.
 - A trigger configuration (combination of Fcal and Bcal) has been the most effective on data taking.
 - A status update of the CDC was given showing tracking in the detector. https://halldweb1.jlab.org/wiki/images/f/fe/CDC_RCMUpdate_10Dec2014.pdf

Sitnikov, Anatoly:

Hall B

- Polishing laser fibers for CTOF Laser System.

Teachey, Robert Werth:

Hall B

- Measured and completed a floor plan of the Hall B clean room in AutoCAD.

Hall D

- Troubleshooting of Hall D PLC control room PC. The PC would not allow the user to log in to the HALLDUSERS account, which allows a user to control and monitor live PLC read back from Hall D systems. **Hovanes needs to add the PC to a list that allows the PC to access the HALLDUSERES account.**
- Worked on PLC Controls for the Hall D LH2 Cryo-target.

DSG

- Continued working on the Voltage Variation Test for the MPOD Test Stand— ~35% complete.