

DSG Meeting Minutes – Wednesday, October 29, 2014

Antonioli, Mary Ann:

Hall B

- Analyzed reflectivity test data of 5 plastic Winston cones for LTCC.

DSG

- Drafted in Visio computer network (EEL 231), indicating switch types, uses, and subnets.
- Compiled, and plotted in Excel clean-room's humidity, temperature, and dew-point data.

Arslan, Sahin:

Hall B

- QC-ing Production Modules at Fermi for SVT.
 - Working on modules P67, P68, and P69.
 - No modules produced last week, due to funding snafu,.

Bonneau, Peter:

On medical leave.

Butler, Dave:

Hall B

- Studying SVT technical design report.

Hall D

- Generated spreadsheet of spare components for PLC based Slow Controls System.
 - Spreadsheet includes: % of spare and hyperlinks to module documentation.
- Debugged FDC chiller controls that faulted during operation.
 - Chiller displayed: 11⇒Reservoir High Temperature Warning (WRN), 21⇒Controller Error fault (FLT) Temperature Sensor #2 (T2), and 04 ⇒ compressor (CPRSR) overheated.
 - A new compressor has been requisitioned.
- Updated and refined FCAL PLC layout and tag spreadsheet.
 - PLC layout shows the physical layout of the wired channels.
 - Tag spreadsheet is a list of end user input and output tags.
- Attended the weekly FDC/CDC and the daily Beam Readiness meetings.

Eng, Brian:

Hall B

- Attended SVT dry run talks for the November 2014 review.
- Tested HFCBs 38 and 72 to be used in SVT Production Modules.
 - Performed 100 register tests with and without spy board.
 - Performed gain scans at JLAB prior to shipment to FNAL.

- **Confirming proper operation of the hardware/software** by removing, from **SVT Cosmic Test Stand** in EEL room 231, P32 and replacing it with P8 (P8 is a working module).

Hall D

- **Going over Slow Controls GUIs.**
 - Dave gave me the location for the PLC software plus logins/passwords to common accounts.

Jacobs, George:

Hall B

- **QA-ing DC gas piping work** being done by cryogenic technicians Dano Oprisko and Joshua Ingoldsby.
- **Trouble shooting DC R1S3 HV.**
- **Replaced pressure regulator and flow meter** of **Test Chamber** in EEL room 124.
- **Generated DC cable task list;** tasks to be done prior to routing cables.
- **Updated:**
 - **List of remaining Gas System tasks.**
 - **Space frame gas line index drawing** to show dedicated Argon supply line for **Micromegas** mixing panel.
- Meeting with Mac Mestayer and Bob Miller to determine final location of the **DC R1** drift chambers on the TORUS.
- **Discussed design and layout of TORUS cable trays** for **DC R1** and **Forward Tagger** with designer Paul Hanson.

Leffel, Mindy:

Hall B

- **Fabricated two power loads,** resistor values: 250 MΩ and 43 MΩ, for testing **SVT Power Supply Systems'** HV MPOD modules' current draw during normal operations and over-current trip function, respectively.
- **Selected,** with Tina, **substandard "small Winston cones"** of the **LTCC**, to be sent to Evaporated Coating Inc. for resurfacing.
 - Created an inventory list.
 - Delivered 40 cones to shipping and receiving.
- **Aligned laser,** with Tina, **for calibration of laser test system** to be used to check the reflectance of the **LTCC** plastic Winston cones.
- **Preparing second patch panel** for population, for the **SVT Slow Controls Systems.**
 - Marked lines for rail positioning.
 - Terminating first two, VME to patch panel, 25 pin D-Sub connectors (there will be a total of 22 cables).



VME to patch panel cable.

Mann, Tina:

Hall B

- Separated and packed up, with Mindy, the small Winston Cones of the LTCC to be shipped to Evaporated Coating Inc. for resurfacing.
- Aligned and calibrated laser beam through pinholes for LTCC Winston cone testing.
 - Determined from Monday morning's calibration data that laser was misaligned.
 - Photometers A and B are both out of alignment; so realigned both photometers.
- Tested a plastic Winston cone of the LTCC.



Plastic Winston Cone

McMullen, Marc:

Hall B

- Designing using Autodesk Inventor cabling layout from SVT rack to insertion cart.
- Attended SVT dry run talks for the November 2014 review.
- Discussed safety issues of the CTOF fiber painting procedure with Dan Carmen (Hall B).
 - Dan has approval from Bert Manzlak, safety, to have the painting done outdoors, but only after Bert does a pre-inspection of the work area and Dan completes the BList.

Hall D

- Trained on Slow Controls System GUIs with D. Butler and B. Eng.

Sitnikov, Anatoly:

Hall B

- Cut 36 and polished 23 ($\Phi=0.32$ mm, $L=4.8$ m) boron silicon fibers for the CTOF laser calibration system.

Teachey, Robert Werth:

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- Built the Labview Display PC for the DSG Monitoring System.
- Installing RSlogix5000 on the Labview Display PC for the DSG Monitoring System.
 - Download no longer available on the Rockwell website, trying installation with DVD media.
- Found and replaced a bad network cable between the cRIO and PC on the cRIO to EPICs Development System.