

# DSG Meeting Minutes – Wednesday, December 3, 2014

## Antonioli, Mary Ann:

On vacation

## Arslan, Sahin:

### Hall B

- Continued to work **DC** HV cables for sectors R1S2, R1S4, R1S6, R3S4, and R3S1.
  - Unbundled HV cables, laid out on the floor.
  - Measured the length of cables, and reorganized.

## Bonneau, Peter:

### Hall B

- Tested newly-received water detection system.
  - These sensors manufactured by Panasonic use the capillarity effect of liquid, along with a light emitter and receiver, to detect a leak. The system consists of water detection sensors and a controller unit, which powers the sensors and provides an interface to the monitoring PAC. This is advantageous for the **SVT** since we may use distilled water as the coolant and resistive-based water sensors will not work. After setting up the controller and sensors, the system was tested using a sample of distilled water. The control module alarmed correctly when water came in contact with one of the sensors. Up to four sensors can be used with a controller. **The drip pan design has not been finalized**; Saptarshi was shown the sensors so they can be incorporated into the design of the drip pan.
- Started testing updates to **SVT** slow controls.
  - While powering R1S1 through S10, intermittent HV trips occurred without any interlock trip as displayed by the Alarm Handler. Also encountered intermittent “Virtual Circuit Disconnect” errors by the Alarm Handler.
- Troubleshooting RS232 communications with MKS 647C Flow/Pressure Controller for the **CLAS12 Gas System**.
  - The connection diagram in the manual was found to be in error. Remote commands and responses to the controller via terminal program are now working.

## Butler, Dave:

### Hall B

- Working on **Tracking Detector Safety System** summary paper.

### Hall D

- Called in at ~6:00 pm on 12/1/14 to check the **Solenoid Controls System**.
  - The automatic valves for the vapor-cooled leads were changed on 12/1/2014 and did not operate as anticipated. Checks confirmed that controls were working properly and after troubleshooting, it was determined that the valves’ outputs were not calibrated properly. The leads were set to a steady state condition that would not warm the liquid helium and would not ice-up the leads until the calibration could be done on Tuesday. The valves are now working properly.
- Working on **FDC/CDC** gas system DSG Note.

## Eng, Brian:

### Hall B

- Modified new differential test code to test **SVT** FSSR2 ASICs, to compile on network boot single board computer (SBC).
- Performed, as part of the reception testing procedure, register tests on **SVT** modules P71, P70, P68, P62, P54, P47, P46 and a gain scan on P46 shipped from FNAL.
- Started **SVT** ASIC differential line test DSG-Note.
- Set up long-term stability test stand for **SVT** modules (8 modules) with Marc in EEL/121B.

## Jacobs, George:

### Hall B

- Attended **TDG** meeting.

### DSG

- Completed master rigger course for re-qualification.
- Attended quarterly Safety Warden meeting.

## Leffel, Mindy:

### Hall B

- Wrapped for storage 12 **LTCC** Winston Cones (10 large and one each of small and plastic).
- Grouped and bundled **SVT** R3S5 HV cables.

## Mann, Tina:

### Hall B

- For the **LTCC** reflectivity tests:
  - Aligned laser through pin holes and performed calibration and mirror tests.
  - All Winston cones are tested—120 small, 24 plastic, 72 large.
  - Tested one small cone that was returned from Evaporated Coatings Inc. and the readings are at 70-90% reflectivity after re-coat compared to previous testing of 40-50% reflectivity.

## McMullen, Marc:

### Hall B

- Ordered cables for the **Hall B gas controls**.
- Continued work on **SVT** off-cart rack cable layout.
- Started DSG note on the cable layout of SFL1 **SVT** off cart to insertion cart.
- Bundled and measured R3 **drift chamber** HV cables.

### DSG

- Attended quarterly Safety Warden meeting.

## **Sitnikov, Anatoly:**

### **Hall B**

- Grouping 161 **CTOF** Laser Calibration Systems fibers in 3 categories: very good, good, and satisfactory.
- Preparing setup for winding of 4 induction coils (compensating coils) in machine shop for **CTOF** PMTs.

## **Teachey, Robert Werth:**

### **Hall B**

- Completed first draft of the proposal for the **MPOD Test Stand**.
- Completed first draft of the task list and estimated schedule for the **MPOD Test Stand**.
- Set up communication with an MPOD Mainframe to be used for **MPOD Test Stand** Development.
- Completed ~40 % of the Voltage Granularity Test code for the **MPOD Test Stand**.