



## Detector Support Group

### Weekly Report, 2015-11-11

#### Antonioli, Mary Ann

##### Hall B

##### DC

- Documented test data of 14 signal cable bundles.
  - ★ Region 3's S3 was completed this week.
  - ★ Five connectors were replaced in this bundle.

##### Cleaning, testing, and labeling of the 1512 Hall B DC signal cables is complete.

- Continued working on set-up of DC CAEN test station.
  - ★ Changed malfunctioning switch on test box.
  - ★ Wrote THA and BList. (BList approved.)

##### HDICE

- Trained with Peter on how to test the target polarization software.

##### DSG

- Tested progress of cRIO test station, with Peter and Amanda.
  - ★ Breaker was "bad", so replaced with an in-line fuse and retested.
- Updated webpage with addition of Amanda and her bio, changed picture, and archived old picture.

#### Arslan, Sahin

##### Hall B

##### DC

- Labeled 14 bundles of signal cables.
- Transferred signal cables to ESB, with Mindy.

##### DSG

- Cleaned up area of EEL 125 that was being used for cable testing, leaving it cleaner than before DSG began using it.

#### Bonneau, Peter

##### Hall B

##### HDICE

- Completed initial tests of using dual power supply in automatic mode of the Rotation of Polarization Program.
  - ★ Program correctly ran an automatic negative and positive polarization rotation sequence.
  - ★ Ramp holds worked as designed.
  - ★ Program correctly entered manual mode at the termination of a rotation sequence.
- Developed verification procedures to test all aspects of the automatic rotation sequences.
- Reviewed planned verification tests with Mary Ann and Amanda and trained on the operation of the program.



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#### SVT

- Monitored the system on a daily basis.
- Checked Hardware Interlock System after an EPICS interlock trip on high humidity. System responded correctly to the fault.

#### **Hall D**

- E-mailed Tim Whitlatch regarding his need for Mya configuration files.
  - ★ With Hovanes, plan to organize the files into a separate directory for each Hall D sub-system.

#### **DSG**

- Held meeting with Alexandre Camsonne regarding work request on the EIC project.
  - ★ DSG has requested enumerated project list, time line, and due date for each item. The repair of the silicon planes and collaboration on the EIC proposal is their first requests.
- Attended meeting with Gagik Gavalian regarding data-basing efforts.
  - ★ It was determined that using SQLite would a good starting point for our group.
- Researched and ordered new computers for new DSG employees.
- Updated “M” drive group permissions to include new DSG employees.
- Tested computer that had been repaired (bad disk) by the Computer Center.
  - ★ This Linux computer on the Hall B subnet still intermittently fails booting.

#### **Butler, Dave**

Absent

#### **Eng, Brian**

#### **Hall B**

#### SVT

- Meeting: Data Validation Status.
- Presented slides of example plots from HV current:  
[https://userweb.jlab.org/~beng/SVT/slow\\_control/hv\\_curr.pdf](https://userweb.jlab.org/~beng/SVT/slow_control/hv_curr.pdf)
- Worked with Hall B Engineering investigating chiller trip and interlock faults.
  - ★ Trip was due to chiller itself and the interlock fault was due to clean room humidity going over 70%

#### HDICE

- Received Type N connector for 0.25" cable, took measurements for adapter, sent questions about fabrication to machine shop.
- Craig didn't make last teleconference.
  - ★ Mathematica progress is on hold until more information is received.

#### **DSG**

- Met with Alexandre Camsonne to discuss his silicon based detector from Hall A which might be used in the EIC.
  - ★ Proposal: <https://wiki.bnl.gov/conferences/images/7/75/EIC-Compton-2015-6.pdf>



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- Meeting with Gagik to go over databases in Hall B.
  - ★ Gagik's working on CCDB, much of the work depends on detector owners giving him information so they can develop a common scheme.
  - ★ API allows for use of SQLite as local copy with slightly reduced functionality (but is fine for development work).

### Hoebel, Amanda

#### DSG

- Completed training of Radiation Worker 1.
- Downloaded and started Labview for VME test station development.
- Attended meeting with Gagik for databasing.
  - ★ Will be using SQLite
- Familiarized myself with HDICE setup.
- Learned how to access HallD Slow Controls.

### Jacobs, George

#### Hall B

##### DC

- Discussions with Bob about final low voltage cable lengths.

##### Gas System

- Gas systems meeting with Patrizia, Bob, and Amrit.
  - ★ Developing scope of work, time estimates, task lists, and critical path planning.
  - ★ Produced parameters list with ranges and setpoints.
- Produced scope of work for DCGAS installation in Hall B and the 96B gas shed.
- Produced plan-view of level 3 space frame south showing DCGAS component locations.
- Produced scope of work for LTCC GAS installation in Hall B and the 96B gas shed.
- Meeting with Bob and Doug.
  - ★ Determined location for DCGAS tanks, solenoid valve panel, gas line routing, control cable routing, and controls rack.
- TDG meeting with Bob, Eugene, Glenn, Stepan, Saptarshi, and Dan.
  - ★ Issues discussed: CLAS6 TORUS support beam removal, TORUS status, cryo can, chimney fabrication, TORUS controls, cable routing, and DC cable tray design status.

### Leffel, Mindy

#### Hall B

##### DC

- Replaced 3 signal cable connectors.
  - ★ One broken connectors, and two replaced due to a "short", as per Anatoly.
- Labeled 3 DC signal cable bundles.



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- Worked with Sahin to complete the labeling of DC signal cables and to move them to the ESB.

#### DSG

- Attended meeting to discuss replacing broken wire bonds on Hall A Compton Polarimeter Detector.
  - ★ Documented condition of wire bonds on two Hall A Compton Polarimeter Detectors, M:\DSG\photos\HALL A CPD\Hall A Compton Polarimeter Detector
- Researched replacement trinocular for K&S wire bonder, requested recommendation for comparable replacement from OEM Optical.
  - ★ Submitted PR for replacement trinocular.

#### McMullen, Marc

##### Hall B

- Trained Amanda on testing bare HFCBs.

##### HTCC

- Continued working on HTCC gas monitor LabView program with Butler. Worked on adding a second MFC to the program and additional datalogging.

##### Hall D:

- Attended FDC/CDC meeting.
  - ★ Hall D is preparing for beam on Dec 4.
  - ★ Work continues on corrections for straw deformation, evaluation of the CDC and FDC preamplifiers, and FDC NBX communication issues (PLC to serial port communications).

#### DSG

- Worked with Mary Ann and Brian on safety work control documents for the HV crate/card test stand.

#### Sitnikov, Anatoly

##### Hall B

##### DC

- Tested 13 spare signal cables.