



Detector Support Group Weekly Report, 2016-1-6

Welcome to 2016

General Points

1. **Conflict resolution:** Co-worker → Amrit → Patrizia → HR
2. **Leave without pay:** Request in writing, need compelling reason, must give one week notice.
3. **Leaving early:** If leaving early on the day before the start of long weekends, vacation, or shutdown; put in for vacation.
4. **Vacation:** Given work load and urgency in the halls vacation time may be rescinded; need at least one system expert available.
5. **Work Schedule:** Depending on the hall status and urgency, current schedule for those coming before 0730 hrs and those after 0830 hrs could be changed.
Jlab business hours: 800 — 1700 hrs

Project Summary

Hall B

1. Gas System Hardware

Team: George, Marc, Mindy, Sahin
Goal: Setup for PID test
Due: 1/15/2016
Comment: Work has been started.

2. Gas System Slow Controls

Team: Brian, George, Marc, Mary Ann, Amanda, Tyler
Goal: Complete PID test
Due: 01/31/2016
Comment: Slow controls program ready for deployment.

3. Magnet Slow Controls

Team: Brian, Peter, Amanda, Tyler
Goal: Setup PLC workstations and look at code.
Due: 01/15/2016
Comment: PLC license installed by Computer Center 1/6/16. Brian is installing PLC software; once installed on his computer, the software will be installed on Tyler's, Amanda's, and Peter's computers.



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4. Detector pre-installation, cleaning, repairing, and testing

Team: Mary Ann, Mindy, Anatoly, Sahin
Goal: Complete LV cables
Due: 02/29/2016
Comment: R1 completed.

5. DC Installation

Team: George, Marc, Mindy, Sahin
Goal: Prepare for August installation!
Due: N/A
Comment: Need updated schedule from Hall B engineering.

6. SVT/Micromegas

Team: Brian, Amanda, Tyler, Peter, Mary Ann, Marc, Mindy, Sahin,
Goal: Support and Maintain
Due: N/A
Comment: N/A

7. HDICE

Team: Peter, Brian, Mary Ann, Amanda, Tyler, Mindy, Sahin
Goal: Fabricate prototype RF cables.
Due: 01/31/2016
Comment: Brian received the machined adapters for the connectors.

Hall D

8. Support and Maintenance

Team: DSG Staff
Goal: Assist, on as needed basis.
Due: N/A
Comment: N/A

DSG

9. Databasing in SQLite

Team: Amanda, Tyler, Brian
Goal: Database and histogram HV currents of SVT modules.
Due: 01/15/2016
Comment: Histogramming in Mathematica in progress.

10. Test Station

Team: Tyler, Amanda, Mary Ann, Peter, Brian
Goal: Communicate to cRIO/ output to excel
Due: 01/15/16
Comment: Communication established, trying to write output to EXCEL.



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Antonioli, Mary Ann

Hall B

DC

- Tested 5 HV cards (120 channels).
 - ★ A total of 29 of 42 cards tested.
- Summary of LV cable work:
 - ★ R1 is completed.
 - ★ R2 is cut and fabricated. S1—S4 and S6 are tested.
 - ★ R3 is cut and R3S1SL5 is fabricated.

DSG

- Researched exporting LabVIEW output data to Excel.

Arslan, Sahin

Hall B

DC

- Tested continuity on 12-pin connectors of DC LV cables, confirmed color code, and updated Excel log sheet.
 - ★ Completed 21 cables.

Gas System

- Mindy, Marc, and I relocated equipment for the Gas Controls system.
 - ★ Controls cables from SFL1 were moved to SFL3.
 - ★ Controls chassis and touchscreen monitor for the space frame gas system were relocated from the DSG lab and SFL1.

Bonneau, Peter

No report – sick

Eng, Brian

Hall B

SVT

- Reconfigured calibration scan software that posts to elog, previously gain scan had been modified to handle parallel gain scans.
- Worked with ACC on bringing slow controls computer back online, also was made owner of hbops account.

Micromegas

- Installed Axis network camera with Sahin for gas bubblers.
- Wrote script to read/write LV power supplies over network.
- Troubleshooting HV card failure, found due to overtemperature warning (despite reporting -55C), installed filler panels in an attempt to improve airflow.



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Hoebel, Amanda

Hall B

SVT

- Created a histogram of SVT sensor data in Mathematica.

DSG

- Reorganized Control Room
 - * Cleaned workspace
 - * Labeled cables
- Worked with Mary Ann and Tyler on LabVIEW
 - * Attempted to create an Excel document of cRIO data

Jacobs, George

Hall B

DC

- Pre job planning for modifying DC test stand coincidence scintillator setup in EEL rm 125.
- Modified the DC test stand coincidence scintillator setup in EEL rm 125.

Gas System

- Meeting with designers regarding DCGAS TORUS manifolds.
- Pre job planning for running gas lines from L1 space frame to L3 space frame.
- Preliminary design of unistrut frame for the DCGAS solenoid panel for Hall B L3 location.

Detector

- Ordered gas for PRAD experiment, PR 360024.
- Ordered gas for DC test stand in EEL rm 125.

DSG

- Submitted ccpr to install phone.

Leffel, Mindy

Hall B

DC

- Continued working on LV cables.
 - * Printed all labels for R3.
 - * Terminated R3S1SL and started R3S1SL6.

Gas System

- Worked with Sahin and Marc, in the hall, re-routing cables.



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Lemon, Tyler

DSG

cRIO Test Station

- Troubleshooted LabVIEW issues with Mary Ann and Amanda
 - * Tried to write to Excel file from our RTD LabVIEW program
 - * LabVIEW stopped deploying to CRIO
 - * Turning off and back on the CRIO fixed the deployment issue
- Programmed a simulated voltage and current readings in LabVIEW
 - * When simulated voltage drops or increases by more than 5 [V] or the simulated current drops or increases by more than 1.5 [mA], that voltage or current is written to a text file with the time stamp of the warning

McMullen, Marc

Hall B

Gas System

- Continued work on the third Gas Controls chassis, which will be installed in the gas shed. Completed wiring for moisture sensors.
- Worked with Leffel and Arslan to relocate the controls chassis components from SFL1s to SFL3s.
- Reviewed Hall B gas controls software, as preparation to running the PID test this month after the hardware installation is complete.

HTCC

- Checked monitoring program for functionality and datalogging after holiday break, everything is working.

Sitnikov, Anatoly

Hall B

DC

- Tested continuity on 12-pin connectors of DC LV cables and confirmed color code.
 - * Completed 28 cables.