

DSG Weekly Report – Feb. 25, 2015

Antonioli, Mary Ann:

Hall B

- Extracted **gas system** signals from a gas system diagram and updated spreadsheet.
- Began **gas system** signals diagram in Illustrator.
- Analyzed data of 6 **LTCC** Winston cones and updated 2 spreadsheets.

Arslan, Sahin:

Hall B

- Moved the **SVT** testing and assembly equipment (crates, dry box, microscope, power supply, and assembly table) into EEL 124 (clean room).
- Ran and connected **SVT** LV, HV, slow control, and DAQ cables.
- Continued researching shunts for **HDice**.

DSG

- Assembled new HP plotter.
- Continued reorganizing control room.
- Installed ground cables on all tables in EEL 124.
- Fabricated three 20', 20 A extension cords for UPS.

Bonneau, Peter:

Hall B

- Researched current measurement systems for the magnet power supplies for **HDice**.
- Converted **HDice** LabVIEW Version 8.5 NMR program to LabVIEW 2014 and edited EPICS interface code to remove .dll library errors. The updated code was successfully compiled.
- Conducted meeting on **HDice** work in progress.
- Met with Maurizio, Tina, and Mindy concerning upcoming work on **LTCC** phototube bases.
- Trained Mary Ann on the procedure for analyzing the **gas system** EPICS process variables by using medm on the GUI interfaces.
- Monitored and analyzed the status of the **SVT** EPICS slow control system during the long-term stability test of the modules that will be used in assembly.
- Programmed controller that measures coolant temperature, flow, and pressure for **SVT**. Determined connection scheme between controller, power supply, sensor assembly, and patch panel.
- Analyzed signal conditioning scheme of the **DC gas system**.

Butler, Dave:

Hall B

- Attended the **HDice** meeting.
- Compared the **gas system** channels that Pete recovered from the VME crate to the drawings that George created for the new system.

Hall D

- Attended the **GlueX** collaboration meetings for the Tracking Detectors.
- Tested the **CDC** airflow interlock from the sensor to the PLC; waiting for Hovanes to set up the MPOD to do a complete system check.

Eng, Brian:

Hall B

- Continued setting up EEL 124 for **SVT**.
 - Installed networking at UPSs.
 - Swapped to HV Distribution Box #3 as the previous box wasn't mapping all the HV channels available on the iseg card.
- Attempted to connect the 24 V output PLC module ordered for **HPS**, but it doesn't work with the stepper motor valve.
 - Control line is at 12 V but needs to be pulled to 0 V or 24 V.
 - Using 2 relay channels instead.
- Tested the BiRa AC reset modules for **HPS** after Mindy finished the cables.
- Sent Wesley and Hovanes current XML export so they can add the tags to EPICS (**HPS**).
- Reconfigured RS232<->Ethernet adapter for **SVT** chiller (currently located in EEL 121B) to be used on ACC dev subnet.
 - Initially DHCP didn't work but Computer Center found a configuration for the previous device and it is now working.
- Attended **SVT**, **HDice** and **HPS** meetings.

Jacobs, George:

FMLA

Leffel, Mindy:

Hall B

- Fabricated cables for **HPS**.
 - Changed connector on solenoid service valve.
 - Fabricated two cables with AMP connectors for use with Bira reset modules.
- Worked with Tina packaging and labeling **LTCC** Winston cones that were returned from ECI and retested.
- Completed wiring a Universal Process Automation Controller, which measures coolant flow, temperature and pressure for the **SVT**.

Hall D

- Attended Hall D Technician meeting.

Mann, Tina:

Hall B

- Met with Mauri, Mindy, and Peter about upcoming work for **LTCC** (soldering an already-populated board to the PMTs).
- Aligned and calibrated pinholes to test **LTCC** Winston cones.
- Tested 13 **LTCC** Winston cones.

Hall D

- Attended the Hall D Technician meeting.

McMullen, Marc:

Hall B

- Continued module production shift at FNAL.
 - Modules P80–83 are complete.
 - 84 and 85 are at burn-in.
 - 86 and 87 are under construction,
 - All modules are scheduled for completion by 2/26. P87 will be completed and tested, however burn-in will be at JLab.
- Completed QA tests on 6 HFCBs.

Sitnikov, Anatoly:

Hall B

- Wound 49 induction coils for compensation magnetic fields inside **CTOF** PMTs.
 - 100 coils completed.

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- Assembled 2 network cables (150 feet each) with RJ-45 connectors.

Teachey, Robert Werth:

Hall B

- Attended the **HDice** meeting.
- Upgraded LabVIEW on my personal PC to LabVIEW 2014 in order to test **HDice** NMR code.
- Connected and tested the **SVT** Reception Test Stand in the RM 124 clean room after the SVT equipment relocation.