

# DSG Weekly Report – March 4, 2015

## Antonioli, Mary Ann:

### Hall B

- Completed Illustrator diagram of **gas system** signals.
- Analyzed data of 11 **LTCC** Winston cones.
- Began spreadsheet of RS232 signals for **gas system**, deriving information from a drawing.

## Arslan, Sahin:

### Hall B

- Preparing test set up for **DC** R1S4 (cosmic ray and efficiency test).
  - Installed gas lines and bottle of Arg-CO<sub>2</sub> to purge the chamber.
  - Set up power supply and attached HV cables.
  - Set up DCRB and attached signal cables.
  - Built support structure from uni-struts for scintillators and cables.
  - Monitoring HV current.

## Bonneau, Peter:

### Hall B

- Began upgrading the **HDice** NMR computers and investigating the use of Linux-based systems with LabVIEW.
  - Talked with Brian Reiche from National Instruments regarding JLab Linux LabVIEW licensing and hardware upgrades needed for the serial RS485 instrumentation.
  - Continued organizing LabVIEW NMR program block diagram to determine the strategy for the additional coding for power supply control and adding the independent current measurement capabilities.
  - Contacted CAEN regarding their DCCT current measurement systems for the magnet power supplies.
- Monitored and analyzed the status of the **SVT** EPICS slow control system after move from EEL R121 cleanroom to R124 cleanroom, and reported problems encountered.
  - Met with Sue Weatherspoon, Scott Higgins, and Anthony Cuffe regarding on-going slow controls development and troubleshooting.
- Determined **SVT** interconnections to power supply and sensor assembly for Florite 990x controller for measuring coolant temperature and flow. Started programming LabVIEW-based test interface for the controller sensor assembly.
- Continued analyzing signal conditioning scheme of **DC gas system**.
  - Checked signal conditioner installed for galvanic isolation on sensor inputs.
  - Checked EPICS GUI process variables vs. EPICS database definitions.

### Hall D

- Monitored the status of the PLC-based **slow control** system during repair, following the problematic security upgrade.

## **Butler, Dave:**

### **Hall B**

- Double-checked Brian's PLC code for the **HPS** system.

### **Hall D**

- Implemented the **FDC** chiller over-temperature interlock.
  - Wired the BiRa 208 VAC relay box to the PLC,
  - Installed a 24 VDC output module to the PLC,
  - Programmed the code, and
  - Tested the end to end system.
- Worked with IT to fix computer *haldsc7*, which is used to monitor and control the PLC **slow controls** in the hall. The computer was unable to connect to the JLAB domain after security patches were pushed last week, but is up and running now.

## **Eng, Brian:**

### **Hall B**

- Began setting up additional rack for **SVT** for R4 assembly.
  - Computer center problems with networking caused issues with MPODs (could not get an IP via DHCP).
- Ran SVT chiller power, front end chiller power, valves, and RTD **HPS** cables in Hall, with Marc.
- Changed **HPS** PLC code again, per request,
  - Now doing floats instead of integers for limits and vacuum has been converted into pressure units instead of voltage.
- Attended **SVT** meeting.

### **DSG**

- Completed RMA for iseg NIM HV supply.

## **Jacobs, George:**

### **FMLA**

## **Leffel, Mindy:**

### **Hall B**

- Cut three of four 100' cables for attaching flow, temperature, and pressure sensors to the **SVT** patch panel; terminated one cable.
- Started the drain wire repair/modification of **SVT** R4 LV cables.

### **DSG**

- Transferred Anatoly's phone from TED to EEL and had his information added to the staff directory.

## **Mann, Tina:**

### **Hall B**

- Calibrated and aligned pinholes of **LTCC** Winston cone test stand.
- Completed testing of re-coated **LTCC** Winston cones received so far.

## **McMullen, Marc:**

### **Hall B**

- Completed **SVT** module production at FNAL.
  - 8 modules produced.
  - 6 HFCBs tested and chip-mounted.
  - Disassembled module production test stand and prepared it for shipping back to JLab.
- Ran RTD, chiller power, flow switch, and valve control cables for **HPS** chillers from the pie tower to the dump alcove in Hall B, with Brian.
- Attended **SVT** status meeting.
- Worked on **SVT** module production spreadsheet/chart.
- Sent information on cables, off-cart rack to insertion cart, to **SVT** group.

## **Sitnikov, Anatoly:**

### **Hall B**

- Working with Sahin, preparing test set up for **DC** R1S4 (cosmic ray and efficiency test).
  - Repaired 9 network cables.
  - Connected 48 HV cables to HV rack.
  - Connected 64 signal cables to signal rack.
  - Made supports for testing R1S4.

## **Teachey, Robert Werth:**

No report received.