DSG Meeting Minutes – Wednesday, September 17, 2014

Antonioli, Mary Ann:

Hall B

- Assisted Sahin with **DC R3S6**, hooking up signal cables to STBs.
- Worked on **SVT HV Distribution Box (HVDB)** #4.
  - Tested drain connections.
  - Wired HVDB's back panel 37-pin CPC connectors 1, 2, and 5 to front panel.
- Labeled **SVT Environmental Sensor** information on AutoCAD drawings of regions 2 and 3 support rings.
- Took **SAF111** safety training.

Hall D

- Took **SAF113** safety training.

DSG

- Drew layout of **DSG lab area** (EEL 231) in AutoCAD.
- Attended two **LabVIEW** training classes.

Arslan, Sahin:

Hall B

- QC-ed **SVT Backing Structures** with Marc.
- Visually-inspected and performed electrical tests on **SVT Bus Cables** 61— 65.
- Attached signal cables to **DC R3S6** with Mary Ann.

DSG

- Attended two **LabVIEW** training classes.

Bonneau, Peter:

Hall B

- Tested **SVT Slow Control System's** patch panel with Brian after R1 and R2 HFCB temperature readback boards were cabled.
  - Using the production VME crate with MVME5100 IOC, eleven V450 ADCs, and the **EPICS test program,** verified signal integrity and interconnect routing. After minor corrections to the code, assigned channels, and EPICS voltage and temperature conversions were checked and confirmed to be correct.
- Met with Valeri Sytnik regarding high level GUIs for the **SVT Slow Controls System**.
  - Gave Valeri **EPICS Soft-IOC code** for MPOD crates along with the present version of the database files (.db files) and the database definition file (.dbd).
  - Provided Valeri Sytnik with **documentation** on LV and HV modules used in the system and MPOD SNMP example code.
- Tested resistive-based **SVT Water Detector Sensor** and electronics.
  - A sample of the chiller water (pre-mixed by Saptarshi) was tested. The **resistive detector** worked with the chiller water. However, there is no guarantee that the conductivity of the water will not

change; therefore we will purchase and try the new capillarity-effect leak detection sensors — these sensors do not depend on the resistivity of the water.

- Documented **SVT Environmental Monitoring Board** assignments for R3 support rings. Gave hand drawing to Mary Ann to update the AutoCAD files.
- Configuring a new **SVT Slow Controls EPICS workstation** for use in cleanroom.

Hall D

- Reviewed **Solenoid** LabVIEW/EPICS code for PXI system.
  - This project uses Channel Access Lab as the **LabVIEW-to-EPICS interface** and requires the Ethernet/IP add-on package for communication with PLCs.

DSG

- Updating and assigning links to the **DSG website.**
  - Also correcting files for the same cascading style sheets.
- Met with Brian Reiche from National Instruments regarding **Programmable Automation Control (PAC)** products.
  - Discussed **cRio applications** at Jlab and the recent updated product line.
  - Reviewed Jlab's **LabVIEW** enterprise agreement with NI.

Butler, Dave:

Hall D

- Ran cable for the **Tagger** PLC's Amorphous-Radiator's beam-ready signal.
- Created L5x files for Hovanes to implement the new heartbeat code for the **BCAL** (Upstream and Downstream), **Tagger,** and **Start Counter**.
- Reviewed the PXI LabVIEW code to act as a backup for the **Solenoid** fast data acquisition system.
- Set up work area in the **DSG Lab** (EEL 231) for the **Slow Controls Computers** to access the PLCs while beam is present in the Hall.
  - This will be a permanent setup for online changes to the **Slow Controls**.
- Worked with the IT division to procure a network switch to access the **Hall D 26 network** through the 196 subnet.

DSG

- Attended two **LabVIEW** training sessions.

Eng, Brian:

Hall B

- Tested, with Peter, **SVT Slow Controls System's** patch panel with R1 and R2 modules to confirm operation and connection,
  - After moving a set of cables, all connections available are as expected (R3, R4, and environmental sensor boards still remain to be tested).
- Performed gain scans on all **SVT R1 and R2 modules** before and after R2 survey.
- Helped mechanical group with testing of **Faraday Cage** installation/removal fixture.

Jacobs, George:

Hall B

- Ordered 90/10 $ArCO_2$ gas for testing the last 3 **Drift Chambers**.
- Designed and fabricated rack for **DC Gas** recirculation buffer volumes.
- Submitted request to **Plant Services** for:
  - Repair of damaged 2-ton **Coffing electric hoist** in ESB.
  - Replacement of temporary support on **pipe run** from gas shed to Hall B with a permanent support.
- **DC R1S3** has been removed from the fixture and is ready for instrumentation.
- Moved:
  - **DC R1** fixture and magnet rail from the clean room to (behind) ESB.
  - **DC R1** magnet has been moved to the ESB.
- Testing of **DC R3S6** completed.
- Updated notes, travelers, and P360 date for magnet wiki for **Solenoid** coil 5.2.
- Meetings:
  - **DC Maintenance Platforms** — with B. Miller, W. Sachleben, and D. Tilles.
    - First concepts and ideas for the design of platforms for CLAS12 maintenance.
  - **CLAS12 TORUS cable tray** — with P. Hanson, designer, and B. Miller, engineer.
  - **Space Frame crates and racks** — with D. Tilles.
- Ordered external gas fittings for **LTCC** detectors.

Hall D

- Started reviewing the spreadsheets David Butler gave me for **FDC.**

Leffel, Mindy:

Hall B

- Configured test stand for **LTCC** Winston cones.
- Continued repairing drain wires on **SVT R3** LV cables, 10—18.
- Reworked one **CTOF** PMT.

Hall D

- Fabricated three **Radiation Monitor** MS/D-sub cables.

Mann, Tina:

Hall B

- Completed **Travel** items:
  - Returned travel laptop.
  - Turned in travel receipts from travel.
  - Went over travel expense report.
- Testing and troubleshooting **SVT HFCBs** and **SVT production Modules** at Fermi.
- Calibration and testing of **LTCC** Winston cones with UV light.
- Retested with UV light four of 20 **LTCC** Winston cones which were previously tested with visible light.

McMullen, Marc:

Hall B

- Started testing final batch of **SVT Bus Cables**.
  - Six tested; no issues found.
- Worked with Sahin on **Drift Chamber** signal testing.

DSG

- Attended two **LabVIEW** training classes.

Sitnikov, Anatoly:

Hall B

- Wrapped half of each of 16 **CTOF** detectors, using reflective foil (64 pieces).
- Cut 38 pieces (diameter 1.4 mm, 29 mm long) boron silicone fibers for **CTOF calibration system.**
- Took **SAF 111** safety training.

Hall D

- Took **SAF 113** safety training.

Teachey, Robert Werth:

Hall B

- Completed code configuration for Slot 5 (HFCB) for the **SVT Module Reception Test Stand**. Started testing configuration.

Hall D

- Completed and tested Hall D **Start Counter PLC** Thermocouple code.
- Completed cabling and wiring of 24 V, position-sensor switch to the **Tagger PLC.**

DSG

- Attended **LabVIEW** cRIO class.