DSG Meeting Minutes – Wednesday, September 24, 2014

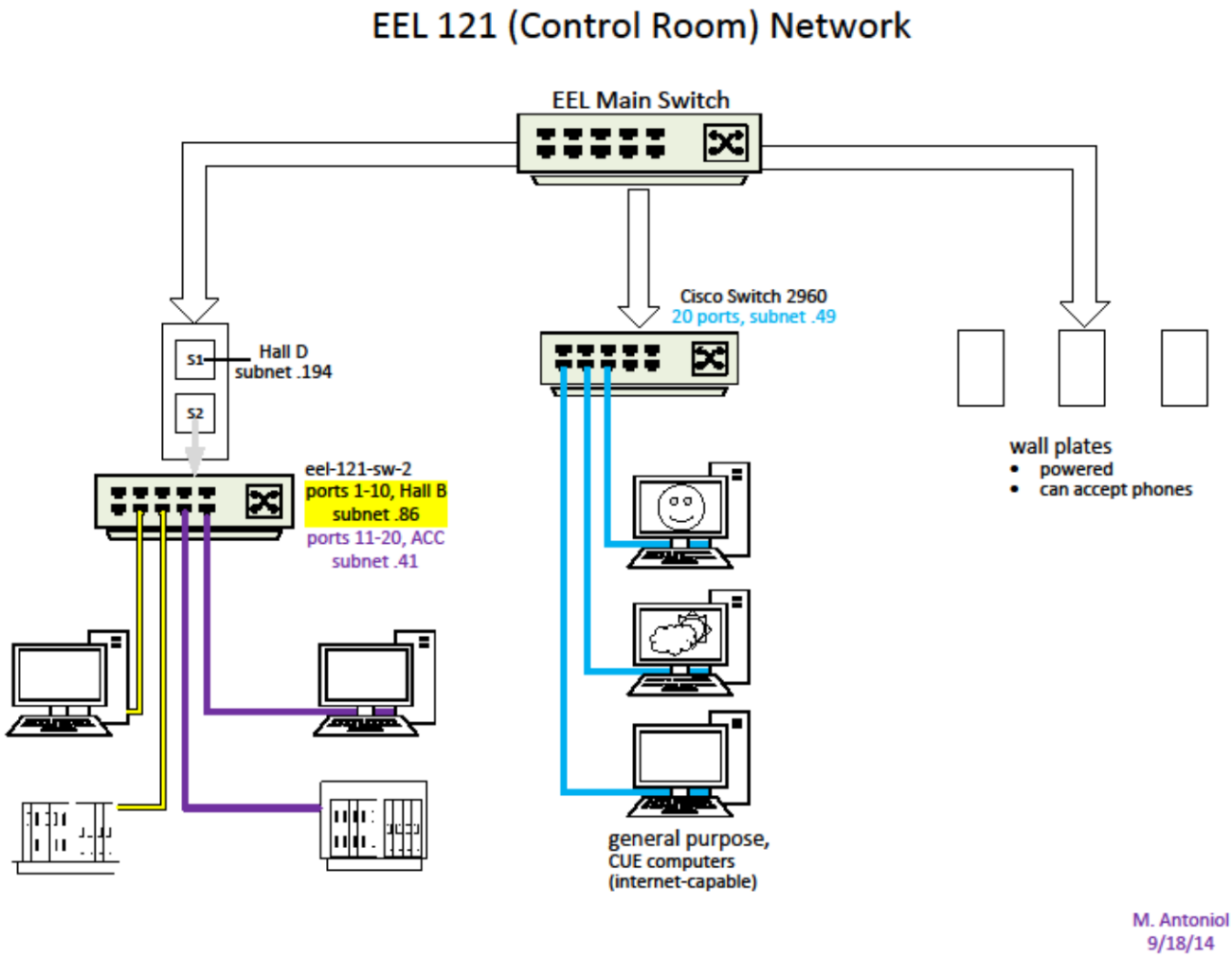
Antonioli, Mary Ann:

Hall B

- Drawing in AutoCAD design and wiring of **SVT HV distribution box** to facilitate debugging.
- Fabricating **SVT HV distribution box #4**.
  - Completed wiring between back panel connectors #3 and #4 and front panel connector columns #3 and #4.

DSG

- Made Visio layout of the **computer port network** in EEL121 (control room).
  - Layout facilitates computer setup in control room to remotely monitor halls and accelerator, and to set up work areas for test and development of hardware and software.



Layout of Computer port network in EEL 121C (control room)

Arslan, Sahin:

Hall B

- Removed **DC R1S4** from assembly fixture in big clean room and moved fixture to equipment storage building (ESB).
  - DC R1S4 is ready for instrumentation.
- Completed testing **DC R3S6** with drift chamber readout board.
  - Unplugged DC R3S6's HV, signal, and LV cables—ready for wrapping.
- Set up **DC R3S4** for testing.
  - Connected DC R3S6's HV, signal, and LV cables.
- Testing **DC R3S4** LV and HV connections.
- Installed HV brackets and gas line and attached Ar/ CO_2 for **DC R1S3**.
- QC-ed **SVT Bus Cables** and **SVT HFCBs**.

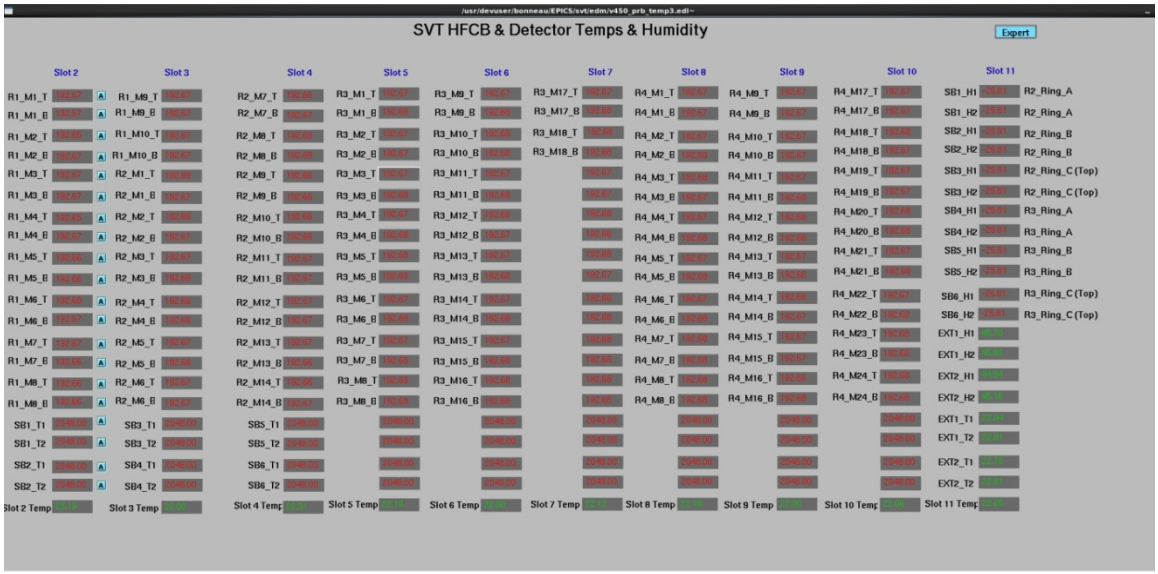
Sector/Region	R1	R2	R3
S1	completed	completed	completed
S2	completed	completed	completed
S3	Not Started	completed	completed
S4	completed	completed	Started
S5	completed	completed	completed
S6	completed	completed	completed

CLAS 12 Drift chamber's Status Table

Bonneau, Peter:

Hall B

- Developed EPICS diagnostic GUI for the **SVT Environmental Monitoring System**.
  - GUI uses the Extensible Display Manager (EDM)—an interactive GUI builder and execution engine for EPICS; GUI facilitates troubleshooting.



Diagnostic GUI for Environmental Monitoring System

- Discussed with V. Sytnik EPICS "high level" GUIs for the **SVT Slow Controls System**.
- Set up MPOD crate in EEL121C for **SVT Slow Controls System** code development.

- New system, manufactured by Panasonic, is independent of water resistivity. Sensors of this system use capillarity effect of liquid and a light emitter and receiver for leak detection. Four leak sensors and supporting interface electronics were ordered.

- Configuring a Dell Precision 490 for the EPICS-based **SVT Slow Controls System's** workstation for use in the cleanroom.
- Researched new **Leak Detection System** for the SVT.
  - Defective video card was replaced and drivers were installed and tested. Additionally, another hard drive was added for the workstation.

DSG

- Added talk on **HPS Interlocks System** to DSG website.

Butler, Dave:

Hall D

- Participated in the **FDC meeting**.
- Updated automated ramp control program (*again*) to better accommodate users while the **solenoid** current is being ramped up.
  - Update includes a HALT command to stop ramping at any current.
- Interfaced with the Cryo group to implement a solution to further improve the cryo valve control for the **solenoid**.
- Met with Eugene Chudkov, Elton Smith, Hovanes Egyan, Tom Carstens, and Tim Witlach to discuss **on-call personnel** structure and how it pertains to the **Slow Controls System**.
  - It was agreed that Hall D staff would be the first line of defense; Hovanes will be the person responsible for the **Slow Controls System.**

Hall B

- Met with magnet control group to discuss effort needed for the suggested PAC (cRio) System-based **Magnet Quench Detection.**

Eng, Brian:

Hall B

- Verified serial number and base address on the **SVT V450 Slow Controls System** modules; matched given documentation using VxWorks test stand.
  - ACC found bug in their code and has since fixed the bug.
- Gain scanned on **SVT R1 and R2** modules after changes to LabVIEW slow control code.
- Re-set up **SVT Cosmic Stand** in EEL121B after SVT R2 survey—taking cosmic data.
  - Trigger rate is ~0.08 Hz.
- Convened progress meetings to go over ACC's contribution to EPICS program development of **SVT Slow Control System** and FNAL's contribution to **Module Production.**
- Set up microscope and camera to take pictures of **Torus** super conducting cable to see strands/filaments after cutting. (requested by Dave Kashy and Steve Christo.)
  - Needs additional acid bath to see anything.

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- Meeting with **Medical Imaging Group** about wire bonding laser diode.
  - They are investigating attachment methods from vendor and will have a meeting next week to discuss findings.

Jacobs, George:

Hall B

- Met with Paul Hanson, designer, regarding cable trays for **DC R1S1—R1S6**.
- Discussed **Magnet Conductor QA** with Francois-Xavier Girod-Gard, John Hogan, and Bruce Lenzer.
- Sent an HP DC power supply used for **DCLV**, for troubleshooting.
- Performed pre-job walkthrough with Cryo techs Dano Oprisko and Joshua Ingoldsby in Hall B for **DCGAS** line installation.
- Made Hall B list item #880 for running the **DCGAS** piping from penetration to gas panel location.
- Ordered 1" stainless steel ferules for **DCGAS** piping in Hall B.
- Discussed **LTCC internal gas piping** with David Anderson.
- Wrote a **letter of recommendation** for Patricia Tillery.
- Completed **SAF111** (Hall B training).

DSG

- Watched **all hands meeting** recorded while on travel.

Leffel, Mindy:

Hall B

- Finished modifying the drain wires on all 18 **SVT R3** low voltage cables.
- Started prepping **SVT R3** slow controls cables for drain wire modification—extracted pins from connectors and removed heat shrink.
- Repackaged **Winston Cones** after UV testing (~ 25).

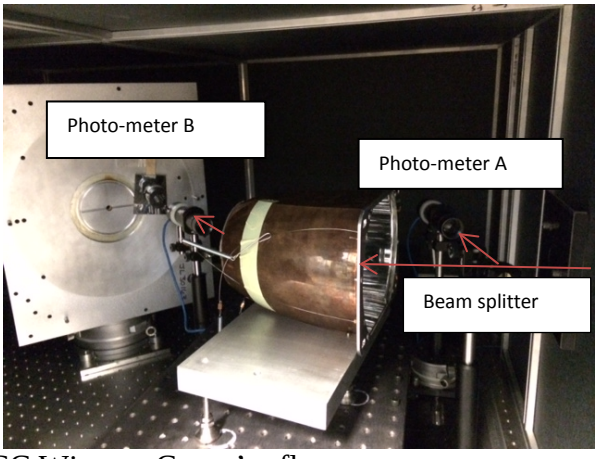
DSG

- Helped clean out Dave's new work space.

Mann, Tina:

Hall B

- Calibration and testing of **LTCC** Winston cones with UV light.
- Retested with UV light 26 **LTCC** Winston cones which were previously tested with visible light (total 30 retested).



LTCC Winston Cones' reflectance measurement setup

McMullen, Marc:

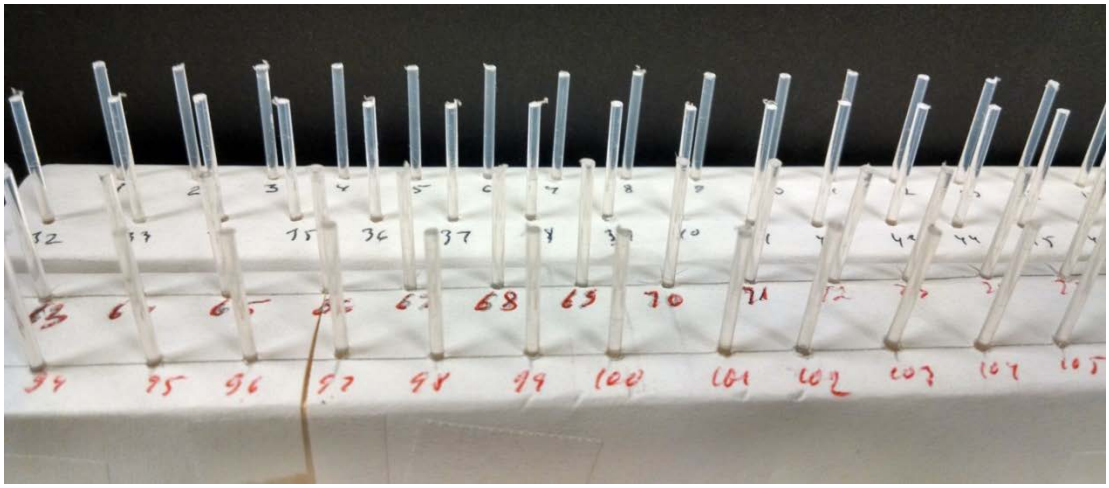
Hall B SVT

- Completed QC of 14 **Bus Cables**.
  - Sent **Bus Cables** to FNAL.
  - Completed QC of 4 **populated HFCBs**. Sent to FNAL.
  - Visual QC on three of the 11 HFCBs showed three pad lifts on C101 and C260 (0201).
    - HFCBs 57 and 52 have lifted pads under C101 capacitors. which will be repaired at Jlab with epoxy — connection is good.
    - HFCB 63 has C260 cap lifted with bad connection, which will be sent back to Compunetix for rework.
- Trained Sahin on post-population QC.

Sitnikov, Anatoly:

Hall B

- Completed cutting of 123 (98 for system + 25 spare) boron silicone fibers for **CTOF Laser Calibration System** (diameter 1.4 mm, 29 mm long).



Picture of cut fibers.

DSG

- Took training:GEN034,GEN034U,GEN101,GEN150,SAF100.

Teachey, Robert Werth:

Hall B

- Finished testing slot #5 (HFCB Slot) on the JLAB **SVT Reception Test Stand**—slot ready for use.

Hall D

- Wired 24 V signal from the terminal block of the **Amorphous Radiator PLC** to the accelerator terminal block.

DSG

- Started installing EPICS-based software on my Linux machine.
  - Base compiled, working on testing installation with an example application.