

Antonioli, Mary Ann

Hall B

DC

- Examined test data and completed spreadsheet for 52 signal cables.
 - * Total tested and analyzed: seven 50 ft bundles and twenty one 65-ft bundles 28/252 bundles.
 - * In these 28 bundles (168 cables), 17 connectors had to be replaced by Mindy.

Arslan, Sahin

Hall B

DC

- Working, with Anatoly, on testing signal cables.
 - * Measured propagation delay of cables in the 65 ft. cable group.
 - * Measured 9.5ns propagation time for the length of the input and output probe cables together.

HDICE

• Test station setup.

DSG

• Transferred new test station computer to Computer Center for configuration.

Bonneau, Peter

Hall B

HDICE

- Conducted bi-weekly slow controls status meeting on 9/8/15.
- Developed LabVIEW DAq readout sequence program using the new CT-BOX device driver files.
 - * In "Data-Logger" mode, DAq program runs as expected. CT-Box is setup and the system acquires data and stores it in a file.
- Reassembled test station in DSG Control Room.
 - Installed and tested:
 - AC Power distribution panel, GPIB, RS232, and RS485 interfaces, Oxford power supply, RF generator, Lock-in amplifier, and RF Attenuation/Switching chassis.
 - Modification of test bench completed to allow access to 208V outlet.
 - Added computer to Hall B experimental subnet (129.57.86.xx).
 - Installing software on the computer.

SVT

- Investigated network problem, after a power outage, with Hardware Interlock System.
 - * After starting NI-Max, could see the cRio had properly rebooted Linux and the real-time interlock program after the power failure, but the crate was not issued an IP address. After changing the network connection on the switch to another port,



crate was issued an IP address. User interface was restarted and the over-ride switches were turned off.

• Monitored the system on a daily basis.

Hall D

- Reviewed problems, out-gassing and vacuum issues, associated with warm-up of the solenoid.
- Examined status of slow control systems on a daily basis.

Butler, Dave

Hall B

Gas System

• Wrote a one page paper describing the gas system PID test.

Hall D

- Assisted Brian with testing and researching accelerometers for "listening" to the solenoid during a possible quench.
 - * Waiting on a quote from Measurement Specialties for a more appropriate accelerometer for our application.
- Got FDC chiller back online after the Hall D personnel switched the Interlock PLC from normal to UPS power.
 - * By unplugging the power, PLC lost communications with EPICS system and was unable to reset the required variable tag to restart chiller.
- Attended the FDC/CDC meeting. Minutes are at the following location: https://halldweb1.jlab.org/wiki/index.php/Minutes-9-3-2015.
 - **★** Straw tube sag ~2—3 mm. Simon Taylor is studying the problem.

Eng, Brian

Hall B

SVT

- Tried changing R3 N₂ piping connections to improve humidity (connected both N₂ lines, one of them was to be used as a backup line), only minor changes observed.
- Recovered slow controls and DAq after breaker tripped causing power failure to all R4 electronics and hardware interlock system.

Hall D

Solenoid

- Installed second PXI ADC module (1 more due to be delivered around 9/23/15).
- Installed new PXI controller (PXIe-8101 to a PXIe-8135) both with appropriate configuration changes.
 - **★** New controller has CPU usage ~10% vs ~35% for the previous one.
- Testing/evaluating accelerometer sensors, currently the bias voltage is to high when connected to existing DAq (~11.2 V from constant current supply) to use with the PXI.
 - * Investigating having the sensors powered separately or getting different sensors.



Jacobs, George

Hall B

Gas System

- Wrote LTCC Window Deflection test.doc and generated test setup diagram and pictures.
- Discussed with Paul Hanson, designer, DC gas system manifolds design.
 - **★** Working on 1st draft.
 - * Gas tank (240 gallons; $\Phi = 30$ ", H = 80") and manifold to be located on level 3 of space frame.

DC

- Discussed with Mac Mestayer and Chris Cuevas R1 DCHV voltages and current issues.
 - * Present efficiency 95%; to improve efficiency sense voltage raised to 1650 V, which is at or above (by 50 V) the design value of the circuit board.
- Attended TDG meeting.
 - * Discussed topics:
 - Progress of LTCC build (Boxes 2 and 3 are being worked on).
 - Subway electrical installation; pulling wires to breaker upstream.
 - CTOF repairs; re-surfacing of scintillators by machine shop looks good.
 - HTCC leak check.
 - Relocation of LTCC components.
 - Larger pressure control buffer tanks for DCGAS and new location.
 - DC signal cable completion date and man power usage; based on P^.
 - Pre-fabrication of R1 DC cable trays, to start on 11/15/15.
 - Budget and remaining procurements.
 - H₂O sensor cable for the HTCC; requested by Yuri Sharabian.
 - Results of LTCC window deflection test and C₄F₁₀ recovery; window deflection within specs, 80lbs/180 lbs. of C₄F₁₀ recovered.

DSG

• Picked up the remaining Genie IWP-20 aerial platform from ODU to close out the loan.

Leffel, Mindy

Hall B

<u>DC</u>

- Tested eight signal cables and cleaned six bundles.
- Finished wire bonding FSSR2 chip U1 to HFCB 2-P4.
- Replaced wire bonder wedge; made necessary adjustments to wire bonder.
- Completed areal platform training.

Hall D

- Made BNC test cable for accelerometer for solenoid.
- Attended tech meeting.



Mann, Tina

Hall B

DC

- Tested 8 signal cables.
- Cleaned 6 signal cable bundles.

Hall D

- Went to the hall every day for a status update on rework to be done on solenoid.
 - **★** Work to start on 9/15/15.

McMullen, Marc

Hall B

Gas System

- Set up prototype test stand with MKS 223b, (reads pressure), fan, and inflatable bag for LTCC PID control loop.
- Coding in LabVIEW PID controls.
 - * Program continuously reads pressure and adjusts fan speed which inflates a bag that is read out by the MKS 223b.

Hall D

- Trained on controls system with Dave and Brian.
 - **★** Observed Dave as he switched the CDC from backup power to Hall clean power, to allow the installation of new UPS power system.
 - * Observed Dave troubleshoot chiller interlock after it failed to clear.
- Attended the weekly FDC/CDC meeting.

Sitnikov, Anatoly

Hall B

DC

Tested signal cables.