

## HDice Controls Meeting Minutes

08/25/2015

Present: Xiangdong Wei, Peter Bonneau, Brian Eng, Mary Ann Antonioli, and Sahin Arslan.

- **Hardware Status**

- ⤴ Test station hardware in DSG clean room

- Tested current loop configuration on the Oxford superconducting magnet power supply.
      - ⤴ Successfully ramped power supply to the maximum saddle current of 60 A.
        - Used front panel controls of the power supply for the test.
        - Computer controlled tests to begin when replacement test station computer arrives.

- ⤴ Test station computer

- Ordered two new computers for test station.
      - ⤴ One new PC will replace PC with failed power supply; the other, the old PC in the HDice lab
      - ⤴ Order placed by procurement on 8/21/2015.
        - Delivery scheduled for 9/11/2015.
      - ⤴ For the PC with the dead power supply, a refurbished power supply is to be used as stopgap solution (delivery ~ 8/31/15).

- ⤴ RF cables

- DSG received another 10 foot section to be used for termination trials on the connectors and tooling needed for fabricating cable.
      - ⤴ If trial is successful, cable can be used for the inter-rack RF connections.

- **Software Status**

- ⤴ CAENels CT-Box System

- Current issues with system
      - ⤴ CT-Box not working in "Oscilloscope" mode.
      - ⤴ Updated commands and descriptions needed for program development.
        - When issued an "OFFSET" command, unit gives an error readback.
        - OFFSET:ZERO command freezes Daq.
      - ⤴ Error code appendix needed.
        - Appendix not in pre-release manual.
      - ⤴ Internal buffer commands not available in current command set.
      - ⤴ Error "CT-box Not Ready" is always on. "Reset" has no effect on the error.
      - ⤴ Triggering commands, pinout of the I/O connector, logic levels and trigger timing is not available in the pre-release manual.
    - CAENels was notified and is working on these issues.

- ⤴ Mathematica analysis code

- ⤴ Each of the seven notebooks requires a certain number of data files in order to proceed. Memory stick received from BNL had sufficient files for *only one of the seven notebooks*.
    - ⤴ Craig Thorn at BNL will be contacted regarding the needed files.

- Next meeting: Tuesday, September 8th at 11:00 AM in DSG Control Room (EEL R121C).