

Hall A - SoLID Magnet Control Systems – Meeting Minutes

Date: December 18, 2019

Time: 13:00 – 13:30

Attendees: Aaron Brown, Pablo Campero, George Jacobs, Tyler Lemon, Marc McMullen, and Amrit Yegneswaran

1. Constant Current Source (CCS) board design and assembly

- 1.1. Marc McMullen presented talk showing progress of the PCB routing in Altium (Talk attached)
 - 1.1.1. Routing for four layer of CCS board completed
 - 1.1.2. Design and review has started
- 1.2. Parts for CCS boards ordered
- 1.3. Noted on Hall C SHMS CCS board
 - 1.3.1. Input voltages, 15 V and 30 V are wired to the same +24VDC voltage source
 - 1.3.2. Refer drawings: 67184-D-00295 and 67184-D-00296
- 1.4. DSG brought up the following questions:
 - 1.4.1. What voltages are needed on the CCS board to connect to other sensors?
 - 1.4.2. Why do the new CCS boards have to be the same size as the original Hall C CCS boards?

2. PLC programming

- 2.1. With regards to the status of axial load cell sensors, Whit Seay informed via email that:
 - 2.1.1. The crate with the load cells located in Physics storage is inaccessible; it's 10' up on a shelf.
 - 2.1.2. Hall A techs do not have time on their schedule currently to move the crate
- 2.2. Temperature sensors readout routine status
 - 2.2.1. Noted from the instrumentation spreadsheet provided that PLC tag names are different
- 2.3. PLC tags/EPICS PVs list is in progress, clarification for PLC tag names is required

3. HMI programming

- 3.1. Pablo Campero is working on Temperature HMI screen
 - 3.1.1. Isometric view of the Outer, Inner radiation shield, and coil shell in progress; isometric view will help to visualize the location of the Rh/Fe temperature sensor in the HMI screen.
 - 3.1.2. Development of SoLID Temperature HMI screen in progress
- 3.2. Pablo Campero has performed a test of FTView data logger using Microsoft Access as the data base source with no issues.

4. Drawing numbers assignment

- 4.1. Generated spreadsheet showing details of number, description and status
- 4.2. Preliminary grouping of the drawing and list has been completed

5. PLC and Instrumentation racks

- 5.1. DSG requests access to TEDF-1544 room to get the rack dimensions.