

SoLID Magnet Controls System Meeting Minutes

Date: March 16, 2022

Time: 11:00 – 12:00

Attendees: Aaron Brown, Peter Bonneau, Pablo Campero, Brian Eng, George Jacobs, Steven Lassiter, Tyler Lemon, and Marc McMullen

1. Cable fabrication

Pablo Campero and Mindy Leffel

1. Completed 40 of 64, 100' cables
2. Striping 100' radial support load sensor cables to install connector

2. Instrumentation connectors

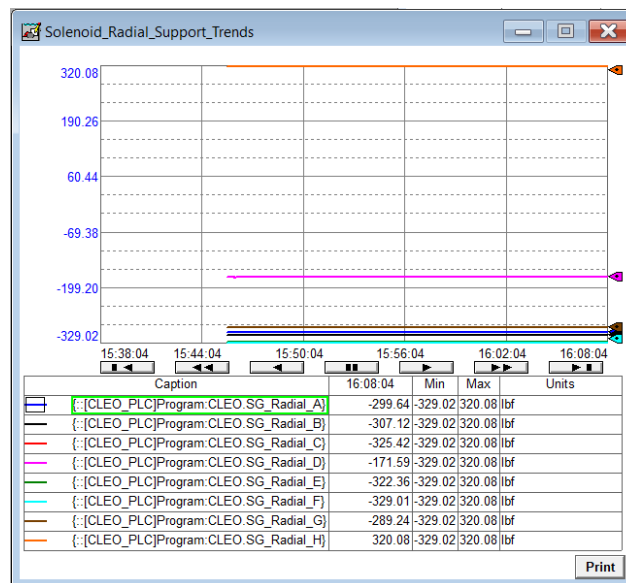
Pablo Campero and Marc McMullen

1. There is no change in the status of the ordered parts since last week
2. Marc McMullen will provide procurement the Allen Bradley vendor contact to speed up the plugs and sockets order

3. HMI screens development

Pablo Campero and Mary Ann Antonioli

1. Completed and tested *Solenoid Axial Support Trends* HMI screen to display four axial support load trends; button added and configured on *Solenoid Radial Supports* HMI screen to access trends
2. Completed and tested *Solenoid Radial Support Trends* HMI screen to display eight upstream radial support load trends and eight downstream radial support load trends; Two buttons added and configured on *Solenoid Axial and Radial Supports* HMI screen to access trends



Solenoid Radial Support Trends HMI screen

3. Discussed *Solenoid Voltage Tap* HMI screen under development
 - Verified voltage tap locations based on documentation provided by Oxford Instruments; adding indicators for voltage taps to the screen

- Imported picture of voltage tap locations from Oxford manual to be used as placeholder for isometric view picture under development
 - Will add a circuit diagram showing coils and voltage taps
4. *Solenoid Menu* HMI screen modified; added new buttons to access to the new developed screens
 5. All trends will be configured in *Data Log Model*
 6. Will add interlock status and sensor fault status indicators to the *Solenoid Axial & Radial Supports* and *Solenoid Radial Support* HMI screens
 7. Three additional HMI screens requested
 - *Solenoid PLC to EPICS Communication*
 - *Solenoid ESR Cryogenic Data*
 - *Solenoid UPS Backup*

4. Other topics

DSG

1. Magnet commissioning for 100 A testing in the Test Lab is planned by summer 2022
2. DSG requires the racks to be moved to the wall that is close to the power outlet and facing the magnet so the 100' cables can be connected