SoLID Magnet Controls System Meeting Minutes

Date: November 23, 2022
Time: 11:00 – 12:00

<u>*Attendee:*</u> *Aaron Brown, Pablo Campero, Steven Lassiter, Tyler Lemon, and Marc McMullen*

1. ## Electrical Drawings
   Mary Ann Antoniol and Pablo Campero
   1. Modified drawings to show wiring changes made to the 24 VDC supply to the quench detector unit
      - A00000-16-03-0252 and A00000-16-03-0350
        - Need to add note to show that wiring will be used only during testing stage
      - Will not change drawing A00000-16-03-0280

2. ## Power Supply monitoring
   Pablo Campero and Mindy Leffel
   1. Cable to monitor analog output signals from power supply in progress

2. ## PLC and EPICS data transfer
   Pablo Campero
   1. In August, 2018, the KPSERVER Enterprise ESD software was suggested and sold to Jefferson Lab as an option to transfer PLC tags to EPICS and vice-versa, but based on the Rockwell articles/notes and experience the software to make this possible should be KepServerEX
   2. Contacted EECO vendor to find a solution for this matter. Found that Mike Cole is in the retirement process so case was transferred to Felipe Nascimiento
   3. Felipe confirmed that software required to transfer data between PLC and EPICS is KepServerEX and not KepServer Enterprise
      - Provided all information about the transaction for the license acquisition
      - EECO should be able to provide the license for KepServerEX
      - Working on getting the right license and possible reimbursement
   4. Installed demo version of KEPServerEX software
      - Developing OPC server while license is acquired
      - Adding PLC tags that need to be monitored in EPICS for the cryogenic operations

3. ## Cable from voltage tap to resistor box
   Pablo Campero, Brian Eng, and Mindy Leffel
   1. Reviewed pinout for cable
   2. Cable fabrication in progress

4. ## PLC Programming
   Pablo Campero and Steven Lassiter
   1. Solved error encountered while trying to connect with PLC controller
      - Source of the problem is not clear based on tech reports
      - Solved by downloading latest version of the program from the controller
      - Tested communication and connected to PLC controller
   2. Discussed program modifications to temperature comparisons on the LN2 shield for cooldown
   3. PLC logic to convert from voltage to vacuum units might need modifications if Pirani vacuum gauge is changed to Edwards magnetron