# DSG-SoLID R&D Meeting Minutes

**Date:** December 2, 2022
**Time:** 11:00 – 12:00

*Attendee:* Mary Ann Antonioli, Peter Bonneau, Aaron Brown, Pablo Campero, Mindy Leffel, and Tyler Lemon

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
      - Posted drawing A00000-16-03-0252
      - Changed label on drawing A00000-16-03-0350; needs to be reposted

2. ## Power Supply monitoring
   *Pablo Campero and Mindy Leffel*
   1. Completed cable to monitor analog output signals from power supply; tested and connected to instrumentation rack
   2. Reads out four signals from the power supply
      - Calibrated ADC PLC module
      - Modified PLC code to assign channels used to read signals
   3. Modified and tested *Solenoid PSU* HMI screen
   4. Monitored power supply current output on HMI screen and compared monitored values with output current values shown in power supply local display; values nearly equal
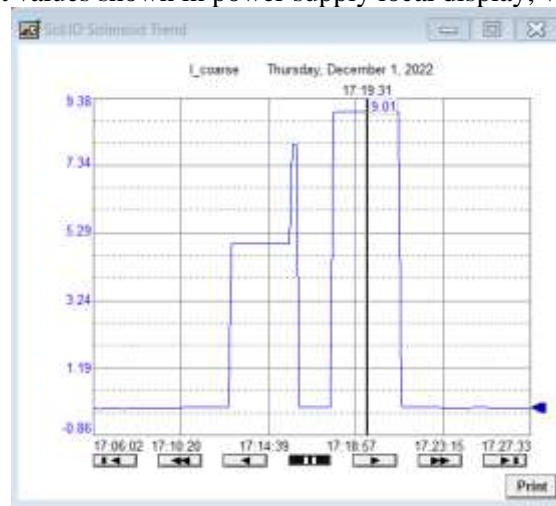


Fig.1. Power supply output current monitored during test

2. ## PLC and EPICS data transfer
   *Pablo Campero*
   1. In August, 2018, the KEPSERVER 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
      - Sent email to inquire status of software exchange

2. Created OPC server in KEPSERVEREX demo version, which needs to be restarted every two hours
   - Adding PLC tags that will transfer to EPICS
   - Ran OPC Client to monitor tags
3. Installed sofIOC Shell software on PHYCAD 58
   - Developing database

## 3. Cable from voltage tap to resistor box
*Pablo Campero, Brian Eng, and Mindy Leffel*
1. Discussed details of cable fabrication
2. Cable in progress

## 4. Repairs on current lead voltage taps
*Mindy Leffel*
1. Voltage tap wire loosened during turret installation; soldered to reconnect

## 5. Phoebus screens
*Mary Ann Antonioli and Pablo Campero*
1. Modifying *Solenoid Axial & Radial Support Expert* screen
2. *Solenoid CCS Board Control* screen in progress