

DSG-SoLID R&D Meeting Minutes

Date: January 14, 2022

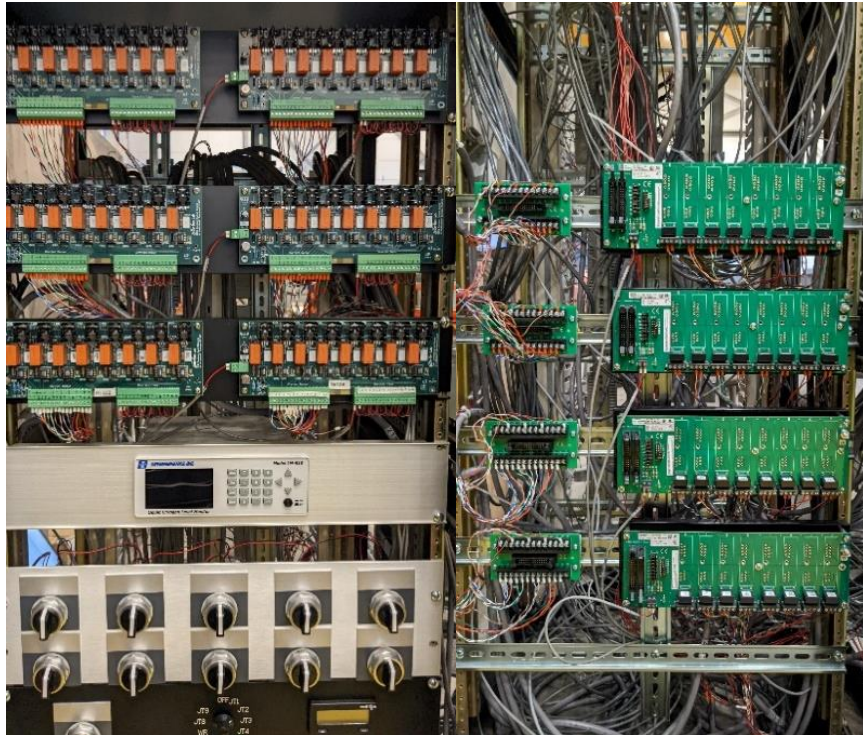
Time: 11:00 – 12:00

Attendees: Mary Ann Antonioli, Peter Bonneau, Aaron Brown, Pablo Campero, Brian Eng, George Jacobs, Mindy Leffel, Tyler Lemon, Marc McMullen, and Amrit Yegneswaran

1. Racks wiring and cable fabrication

Pablo Campero, Mindy Leffel,

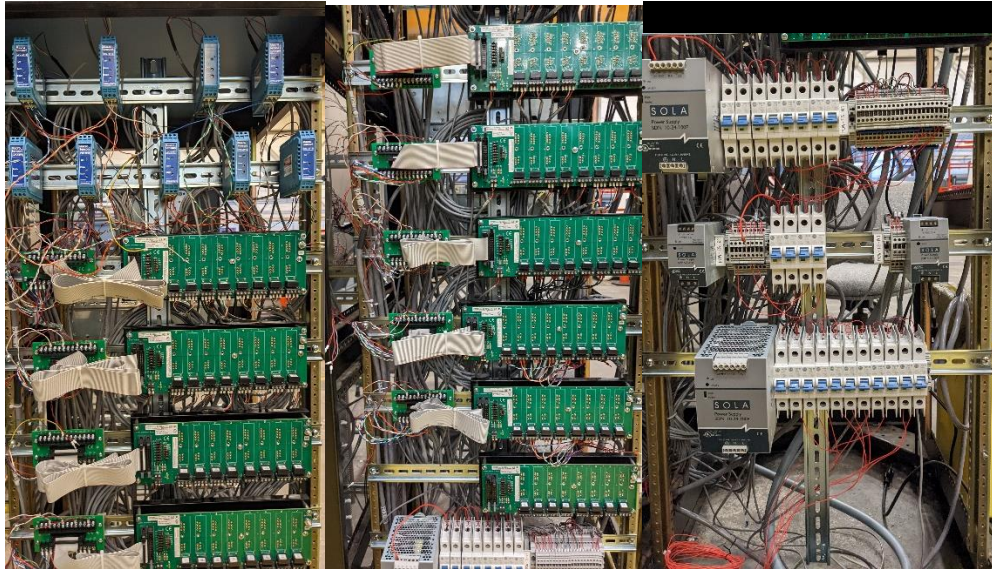
1. Updated *SoLID Cable Information* spreadsheet with information to fabricate an additional twelve cables
2. Fabricated a total of 150 of 215 cables
 - Fabrication of 100' cables to connect instrumentation from the magnet and CCR to racks are in progress
3. Wiring of rack A front 95% completed
 - Need to complete connectors P5, P6, and P1 of quench detector unit and analog input of voltmeter



Rack A front view upper section (left picture) and lower section (right picture)

4. Wiring of rack A rear 70% completed
 - Need to connect jumpers for PLC terminal blocks and wire PLC hardware watchdog (relay and timer)
 - Remaining work is connecting cables that will be used to connect the magnet and CCR instrumentation

5. Wiring of rack B front 95% completed
 - Requested five breakers, which need to be installed and wired
 - Need to connect power supplies to breakers and install power cords



Rack B front view upper section (left picture), mid-section (center figure) and lower section (right picture)

6. Wiring of rack B rear 95% completed
 - After power supply is selected, communication module might need to be installed
 - Need power strips for PLC chassis
7. For cable that connects temperature sensor signals from 10-pin vacuum feedthrough connector in the magnet-turret to terminal block in rack A, need cable termination details for the 10-pin vacuum feedthrough end

2. 3D model development of the SoLID instrumentation racks in progress

Marc McMullen

1. Completed rack enclosure, using standard rack dimensions
2. Most electronic components placed in the rack
3. Working on 3D models for one, two and three-level terminal blocks