

DSG-SoLID R&D Meeting Minutes

Date: November 12, 2021

Time: 11:00 – 12:00

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

1. Rack wiring and cable fabrication

Mary Ann Antonioli, Pablo Campero, Brian Eng, Mindy Leffel, and Marc McMullen

1. Wiring of rack #1 front panel
 - Four of four signal conditioners (breakout boards and backplanes)
 - Partial of six CCS boards
 - **Rack # 1 front panel status: 45% completed**
2. Wiring of rack #1 rear panel
 - Six of 13 PLC terminal strip groups; wired valve position readout signals
 - Three of 14 instrumentation terminal strip groups; wired diode and pt-102 temperature sensors signals
 - **Rack # 1 rear panel status: 35% completed**
3. Wiring of rack #2 front panel
 - Nine of nine LVC macro sensors for valve position readouts
 - Four of seven signal conditioners (breakout boards and backplanes)
 - Two signal conditioning breakout boards
 - **Rack # 2 front panel status: 65% completed**
4. Began wiring four PLC terminal blocks
5. Received 24 VDC power supply



Rack #1 front panel, lower section; signal conditioning breakout boards (left) and backplanes (right)

2. Reviewed completed drawings

Mary Ann Antonioli and Pablo Campero

1. A00000-16-03-0290 *Primary and Redundant PLC Chassis Layout*
2. A00000-16-03-0500 *Transfer Line HX Interconnect System Diagram*
3. A00000-16-03-0506 *HX JT Valve Motor Drive Wiring Diagram*
4. A00000-16-03-0509 *HX JT Valve Controls Cable Diagram*
5. Reviewed *Hall A - SoLID Magnet Instrumentation & Controls Drawings List*
 - Status: 98% of the drawings completed

3. NX-12 3D model development of the instrumentation racks

Marc McMullen

1. Imported CCS board 3D model from Altium to NX-12
2. Created panel to attach CSS boards to
3. Assembled CSS boards and screw holders to the panel