DSG-SoLID Magnet Controls Meeting Minutes

Date: November 10, 2021
Time: 11:00 – 12:00

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

Completed modifications of drawings

Mary Ann Antonioli and Pablo Campero

1. A00000-16-03-0291 *ASCII Communication System Diagram*
   - Confirmed need to show the signal for relay module to enable communication with power supply
   - Since new signal to enable/disable communication with ASCII was confirmed, drawing A000000-16-03-0306 will be modified
2. A00000-16-03-0300 *Remote A - PLC Chassis Layout*
3. A00000-16-03-0310 *Remote B - PLC Chassis Layout*
4. A00000-16-03-0290 *Primary and Redundant PLC Chassis Layout*
5. A00000-16-03-0500 *Transfer Line HX Interconnect System Diagram*
6. A00000-16-03-0506 *HX JT Valve Motor Drive Wiring Diagram*
7. A00000-16-03-0509 *HX JT Valve Controls Cable Diagram*

1. Drawings in progress

Mary Ann Antonioli and Pablo Campero

1. A00000-16-03-0502 *Transfer Line HX Vacuum Wire Diagram*
   - Drawing is considered completed since wiring diagram for vacuum gauge is already shown in drawing A00000-16-03-0221
   - Later, if another vacuum signal needs to be monitored drawing A00000-16-03-0221 will be modified as needed
2. A00000-16-03-0503 - *Beamline Vacuum/spare Terminal Wire Diagram*
   - Not needed for SoLID magnet controls
3. Reviewed *Drawing List* spreadsheet status
   - 95% of the drawings are completed

2. Instrumentation cabling

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

1. Fabricated 83 cables
2. Organized and installed 3-level and 1-level terminal blocks, as shown in rack layout drawings
3. One Dataforth breakout board in rack #2 is missing;
   - Steven Lassiter ordered six Dataforth breakout boards
4. Received fifty 2-level terminal blocks and end barriers for 1-level terminal blocks
5. Wired intra-rack connections for magnet and CCR temperature sensors, from terminal strips to signal conditioning and from terminal strips to CCS boards
6. Wired load sensor signals from terminal strip to signal conditioning modules and from signal conditioning breakout boards to PLC terminal strips
7. Started wiring valve control signals

8. Cut and installed three DIN rails for power supplies, breakers, and terminal strip for the racks' power distribution
    - Steven Lassiter will provide 24 VDC power supply
    - Circuit breakers will be ordered; based on drawing A00000-16-03-0350, minimum quantities required as follow: six 0.5 A , three 1 A, and two 1.5 A
9. Steven Lassiter requested date for completion of wiring of racks
    - New date will be estimated and provided based on progress done in the upcoming weeks