DSG-SoLID Magnet Controls Meeting Minutes

Date: September 29, 2021 **Time:** 11:00 – 12:00

<u>Attendees:</u> Aaron Brown, Peter Bonneau, Pablo Campero, Brian Eng, George Jacobs, Marc McMullen, and Whit Seay

1. Drawings in progress

Mary Ann Antonioli and Pablo Campero

- 1. A00000-16-03-306 PLC IO Remote A, Slot 6 Wiring Diagram
 - Changed cable colors on drawing to match cable selected (40-conductor cable)
 - Channel 4 of PLC relay module controls remote reset of the liquid level controller, which is connected to the voltage controller module
 - Based on specifications for voltage controller module, 15 VDC is required to reset liquid level controller unit; currently there is no 15 VDC power supply
 - Need updates on liquid level remote power reset connections

2. Changes to power distribution to instrumentation

Pablo Campero and Brian Eng

- 1. Completed modifications for drawing A00000-16-03-350 *Power Distribution Wiring Diagram*
 - Added 5 VDC power supply dedicated to strain gauges and load cell sensors
 - Added a terminal strip group named pow-ts-03
 - Redrew connection lines and relabeled circuit breakers as needed
- 2. Modified version of the drawing is available in pdf format and can be reviewed

3. Changes to Rack #2 rear layout

Pablo Campero

- 1. Modifying drawing A00000-16-03-0100 Instrumentation Control Panels Front Layout
 - Added a 5 VDC power supply for strain gauges and load cell sensors
 - Re-arranged circuit breakers
 - Added a terminal strip group with three 2nd level terminal strips for power connections
 - Need to update Parts List to match rack

4. Instrumentation cabling

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

- 1. Thirty cables completed
- 2. Maintaining spreadsheet to provide information required to fabricate cables
- 3. DSG received the following parts:
 - 10 ribbon cables, no part number
 - 13 terminal blocks, TBCH A 1446
 - 1 SOLA power supply, SDP 5-5-100T
 - 1 bag (various sizes) side jumpers, AB 1492
 - 32 circuit breakers, AB 1489-M1C020, SER D
- 4. Nine of the thirteen terminal blocks were wired
- 5. Connection of completed cables in the racks will begin this week

5. Cable and connector procurement

Marc McMullen

- 1. Reviewed Cable List spreadsheet
- 2. Received 1000' of 2-conductor cable for the 24 and 5 VDC power connections
- 3. Ordered and received 40-conductor cable 306-01 for LL, QD, PLC fast/slow dump MPS, and CCS reset
 - Connects signals from PLC terminal strip to PLC module's terminal block
- 4. Received connectors for pressure transducer, MFCs, and liquid levels
- 5. Researching cable to connect magnet power supply to terminal strip

6. Other topics

Pablo Campero, Brian Eng, Marc McMullen, Steven Lassiter

- 1. Discussed drain wire connections for temperature sensors cables
 - Checked drawing A00000-16-03-0210 (e.g. cable 400-01, 210-01)
 - For now, decision will be put on hold and all drain wires will be kept and folded until final location for connection is defined