

## DSG-SoLID R&D Meeting Minutes

**Date:** October 22, 2020

**Time:** 11:00 – 12:00

*Attendees: Mary Ann Antonioli, Peter Bonneau, Aaron Brown, Pablo Campero, George Jacobs, Marc McMullen and Amrit Yegneswaran*

### 1. PLC programming tasks status

- 1.1. Reviewed spreadsheet with coefficients for  $T=f(R)$  curves that was used in PLC code for rhodium/iron temperature sensors
  - 1.1.1. Coefficients for  $T=f(R)$  curves for five sensors will be added once information is available; if not available, coefficient values will be based on measurements done during magnet commissioning
- 1.2. Pablo Campero noted that two PT-100 temperature sensors will be used for current leads' warm ends

### 2. HMI and CCS screens status

- 2.1. Pablo Campero is working on the JTV Setup HMI screen
- 2.2. The three HMI trend screens will not be made in CSS; plan is to use Mya Viewer to display the trends

### 3. Constant Current Source (CCS) boards and Motor Controller Relay (MCR) boards status

- 3.1. MCR bare boards are expected next week
- 3.2. Marc McMullen will pick up the Keithley multimeter from Lab to test the current output of each channel of the CCS

### 4. Documentation

- 4.1. Pablo Campero modified rack rail labels in rack instrumentation layout drawings
  - 4.1.1. Now, mounting holes for rail holders are counted from top to bottom
- 4.2. [Hall A SoLID Solenoid Rack Layouts](#) talk edited and posted on DSG website
- 4.3. Pablo Campero reviewed drawings A00000-16-03-0210 Rhodium Iron Temperature Sensors Wiring Diagram and A000-16-03-0211 Current Source Module Wire Diagram
  - 4.3.1. Labels for five temperature sensor connectors are not defined; information required to complete drawings
- 4.4. Drawing A00000-16-03-0220 LHe and LN<sub>2</sub> Liquid Level Meter Wire Diagram in progress