

DSG-SoLID R&D Meeting Minutes

Date: February 18, 2021

Time: 11:00 – 12:00

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

1. Reviewed [Hall A SoLID Magnet PLC Programming meeting minutes](#) from February 17, 2021
2. Discussed talk in progress, with details of the current leads (CL) flow controls (Pablo Campero)
 - 2.1. Requested information about instrumentation required to control the CL flow
 - 2.2. Generated two flow charts of the code
 - 2.3. Reviewing [Physics Division Cryo-Coordinator Report #15 - CLEO Magnet Testing in Test Lab Summer 2021](#) –preliminary document and pictures showing actuators and valves to control CL flow
3. HMI and CSS-BOY screens
 - 3.1. *Radial and Axial Supports* – Expert HMI screen will be modified
 - 3.1.1. Lbf unit labels will be moved
 - 3.1.2. Trends for each radial and axial indicator will be added
 - 3.1.3. Labels for headers in columns 3 and 4 will be changed
 - 3.1.3.1. Column 3: From Controlled Ramp Down Threshold to Warning Threshold
 - 3.1.3.2. Column 4: From Fast Dump Threshold to Fast or Controlled Ramp down Threshold (to be determined)
 - 3.2. Mary Ann made changes on the *POSP*, *Valve Setup*, and *Valve Page* CSS-BOY screens
 - 3.3. No progress made in Python code to back up and restore values shown in *Valve Setup* CSS-BOY screen
4. Valve panel design (Pablo Campero)
 - 4.1. Reviewing Hall C mechanical design for valve panels
 - 4.2. Valve panel for CCR and Heat Exchanger valves is in progress
 - 4.2.1. Acquired dimensions and tolerance to make holes for components
 - 4.2.2. Completed design of the 3U panel portion, where the switches will be placed
5. Documentation (Pablo Campero)
 - 5.1. PLC code manual under development, briefly explaining how each routine controls and monitors the related instrumentation; Amrit will evaluate version1 for first three sheets of CLEO PLC routine
 - 5.2. Reviewed electrical drawings to be developed; will begin drawing A00000-16-03-0212 - CCR Temperature Sensor Wire Diagram next