DSG-SoLID R&D Meeting Minutes

Date: March 4, 2021
Time: 11:00 – 12:00

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

1. Reviewed Hall A SoLID Magnet PLC Programming meeting minutes from March 3, 2021

2. PLC programming status (Pablo Campero)
    2.1. Adding code to generate interlock when helium supply and return temperature sensors are out of limits
    2.2. Added code to check if temperature interlock tripped

3. Reviewed Flow = f(I_max) plots
    3.1. Plots show relation between required helium flow in the leads and current through the leads
    3.2. Linear equations taken from Oxford Operation Manual
    3.3. Will add legend for the plot line and *GHe* label to the Y axis
    3.4. Will remove plot points, except first and last points that show flow at 0 A and 3250 A

4. Seven of eight CCS boards were populated (Mindy Leffel)

5. Completed AutoCAD mechanical drawings for the Valve Control Panels; uploaded to technical area of the DSG website
    5.1. Two drawings were generated, each having three sheets
        5.1.1. Drawing A00000-16-03-106 : 2U Valve Control Panel
        5.1.2. Drawing A00000-16-03-107: 3U Valve Control Panel
    5.2. Drawings are under revision

6. PLC programming manual for CLEO routine in progress
    6.1. Reviewed first two sub-routines of CLEO routine; fourth is in progress
    6.2. Flow diagram will be drawn for each sub-routine

7. Upcoming tasks
    7.1. Work on instrumentation rack electrical wiring drawings