SoLID Magnet Control Systems – Meeting Minutes

Date: March 10, 2021
Time: 10:30 – 12:00

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

1. HMI screen development (Pablo Campero)
    1.1. Made changes to *Cryo Controlled Reservoir Expert*, version 2, HMI screen
        - Added temperature sensor and flow setpoint indicators for current leads A and B
        - Changed color features of JTV5 symbol—open = same color as cryo line and closed = gray color
        - Changed background color of the screen
        - Agreed name for current leads tank to be current leads turret; changed label to current leads turret
        - Replaced rectangle used to represent current leads turret by an NX-12 model figure
        - Removed pressure pilot line from screen
        - Further changes needed
            - Change color of GHe return lines from red to dark orange
            - Rotate NX-12 figure of the current leads turret (figure is tilted)
            - Add colors to three indicators for GHe supply, LHe supply, and GHe return
            - Change remaining nine valve symbols to match JTV5's color features
            - Add touch feature to NX-12 figure to open current lead temperatures screen
    1.2. Screen name *SoLID Neck Temperatures* will be changed to *Current Leads Turret Temperatures*

2. Hardware (Mindy Leffel and Marc McMullen)
    2.1. All eight constant current source boards were populated by Mindy Leffel; to be tested by Marc McMullen

3. Drawings (Mary Ann Antonioli, Pablo Campero, and Steven Lassiter)
    3.1. Drawing A00000-16-03-0212 – *PT-102 Temperature Sensor Wire Diagram* is in progress
        - Confirmed number of wires and connector type for the PT-102 temperature sensors located in the leads warm end
    3.2. Drawing A00000-16-03-0213 – *Diode Temperature Sensor Wire Diagram* is in progress
        - Reviewed Ability Engineering Tech drawing for heat exchanger temperature sensors
        - Confirmed serial numbers corresponding to *TD_GN2_HX_Exhaust* and *TD_GHe_Mix* temperature sensors located in heat exchanger
        - Confirmed there are no redundant temperature sensors in the heat exchanger
    3.3. Drawing A00000-16-03-0101– *Instrumentation Rack – Rear View* will be modified with additional 28 second-level terminal blocks to install redundant temperature sensors located in the Cryo Control Reservoir