DSG-SoLID R&D Meeting Minutes

Date: October 29, 2020
Time: 11:00 – 12:00

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

1. PLC programming tasks status
    1.1. Pablo Campero added Cryo routine to select 4 K flow limit values from either EPICS or the entered value in the *JTV valve Setup* HMI screen
    1.2. DSG reviewed spreadsheet with coefficients for T=f(R) curves that was used in PLC code for rhodium/iron temperature sensors
        1.2.1. Pablo Campero will research all parameters shown for the T=f(R) curves
    1.3. Pablo Campero will set up a meeting to review remaining PLC programming
    1.4. Amrit Yegneswaran suggested the creation of a spreadsheet that shows detailed information about the PLC programming, including routine and subroutine versions, modifications, and status

2. HMI and CCS screens status
    2.1. Pablo Campero is adding PID parameter controls for valves to *Solenoid JTV Setup* HMI screen
    2.2. Pablo Campero completed *Solenoid Liquid Levels – Expert* HMI screen
        2.2.1. Testing in progress
    2.3. *Databasing* spreadsheet needs to be updated with proposed PVs to generate *Solenoid Liquid Levels – Expert* CSS-BOY screen

3. Motor Controller Relay (MCR) boards status
    3.1. Marc McMullen noted that MCR bare boards and components arrived
        3.1.1. Bare boards were inspected and do not have any visible issues
        3.1.2. Bare boards and components will be organized for assembly
    3.2. Amrit Yegneswaran mentioned that board assembly could start January, 2021

4. Documentation
    4.1. Pablo Campero uploaded modified PLC and Instrumentation racks layout drawings to the DSG website
        4.1.1. Drawings will be reviewed by Steven Lassiter
    4.2. Pablo Campero and Mary Ann Antonioli are generating drawing A00000-16-03-0220 LHe and LN_2 Liquid Level Meter Wire Diagram
    4.3. Pablo Campero presented *Solenoid Liquid Levels Controls* talk