

DSG-SoLID R&D Meeting Minutes

Date: September 9, 2022

Time: 11:00 – 12:00

Attendees: Mary Ann Antonioli, Aaron Brown, and Pablo Campero

1. HMI screen development

Pablo Campero

1. Modifying *Solenoid Valve Setup* HMI screen
 - Re-arranged components on screen to get two groups of valves (cryo control reservoir and heat exchanger)
 - Added new section on screen to control heat exchanger valves
 - Added valves' control mode indicator (Local or Remote)
 - Adding numeric inputs to control PID control for heat exchanger valves

2. PLC programming

Pablo Campero

1. Reviewing power supply user manual to enable modifications on PLC code used for communication with power supply
 - Communication protocols available
 - Syntax for sending and receiving commands
2. PLC code to control the aperture of the valve in remote PLC mode and automatic mode needs to be checked
 - Variables and number of PID controllers needs to be checked

3. FactoryTalk View Data Log system

Pablo Campero

1. Writing code to start data log system recording automatically when HMI server computer is powered on
 - Using macros and default commands available in FT View software
2. Testing data log system in client computers
- 3.

4. Instrumentation task

Brian Eng and Mindy Leffel

1. Completed the repair of broken wires on the D-Sub connectors on the bottom of the turret
 - The vacuum jacket can be reinstalled and turret moved back to EEL
2. The thermocouple connectors for the cables at the top of the turret arrived; awaiting the extension cable
3. Power supply and PLC communication cable needed
 - Jack Segal mentioned that there are connectors available for RJ-11 cable
 - DSG will fabricate the cable to connect power supply with PLC communication module