DSG-SoLID R&D Meeting Minutes

Date: September 23, 2022 **Time:** 11:00 – 12:00

<u>Attendees</u>: Peter Bonneau, Aaron Brown, Pablo Campero, Brian Eng, Mindy Leffel, Tyler Lemon, and Marc McMullen

1. HMI screens

Pablo Campero

- 1. Completed modifications to Solenoid Valve Setup HMI screen
 - Added input controls for integral and proportional gain set points
 - Added input control and indicator for set temperature in heat exchanger
 - Added buttons to access POSP screen

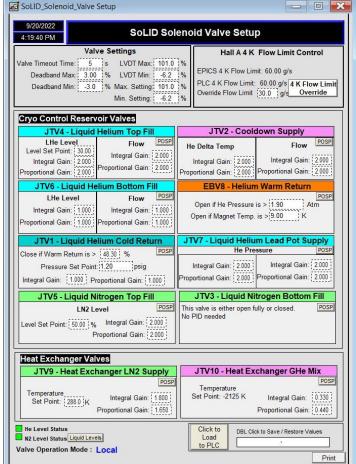


Fig.1. Solenoid Valve Setup HMI screen

2. PLC programming

Pablo Campero

- 1. Modified PLC code to control the aperture of the heat exchanger valve for the gas helium mix through PLC automatic mode
 - Added code to determine if the heat exchanger is enabled
 - Configured one PID controller instruction
 - Programmed the correct process variable, set point, and limits for PID controller

3. <u>Electrical and Controls Drawings</u>

Mary Ann Antonioli, Pablo Campero, and Brian Eng

- 1. Modifying drawings for diode and PT-102 temperature sensors wiring
- 2. Completed revisions and posted drawings
 - A00000-16-03-0221 Vacuum, Pressure, Mass flow, and Pressure Sensors
 - A00000-16-03-0220 Liquid Level Controller Wiring Diagram
 - A00000-16-03-0308 PLC ADC Module Wiring Diagram
 - A00000-16-03-0403 Radial Strain Gauges Cable Diagram
 - A00000-16-03-0240 Strain Gauge Measurement Wiring Diagram

4. Instrumentation

Brian Eng and Mindy Leffel

- 1. Completed connections of six female connectors to the extension cables for the thermocouple temperature sensors
- 2. Fabricating cable for power supply communication
 - Completed RJ-11 connector end
 - Striping other end and installing ferrules