# **SoLID Magnet Controls System Meeting Minutes**

**Date:** May 11, 2022 **Time:** 11:00 – 12:00

Attendees: Pablo Campero, Tyler Lemon, Steven Lassiter, and Marc McMullen

### 1. Screens development

Mary Ann Antonioli and Pablo Campero

- 1. Reviewed modifications done to CCR-Expert HMI screen
  - Set up screen to stay in back when others screens are open
  - Added colors to readout boxes to indicate valve operation mode
  - Will add LED indicator to shown the valve control mode (local or remote)
- 2. Solenoid Cooldown HMI screen
  - Confirmed that heat exchanger valves' position and control button are required on screen
  - JTV7-LHe Pot Supply valve is not required for cooldown, so it will be removed from screen
  - Checked logic in PLC code to determine if the helium warm gas for cooldown is enabled
  - Confirmed temperature sensor at output of heat exchanger is the one named "PT\_HX\_GHe\_Mix"

### 2. EPICS process variables (PVs)

Pablo Campero

- 1. Generated PLC tags list
- 2. Checked and added more of the PVs that need to be read in the PLC from EPICS
- 3. Defined signals that will be monitored in EPICS
- 4. Plan to interface PLC tags with EPICS PVs and vice-versa
  - EthernetIP Drive to create softiocs is available
  - Using KepServer software was requested

## 3. Power supply for 100 A magnet test

**DSG** 

- 1. Reviewed specifications of power supply to be used for the 100 A test in the Test Lab
- 2. Communication between PLC and power supply is required
  - Remote monitoring of status and output current
  - Remote control to set the output current
  - Readout of the current from the MPS DAC will be done
- 3. No need for external device to measure the output current of the power supply

## 4. Other topics

**DSG** 

- 1. Steven Lassiter will send a request to fix the 10-pin vacuum feedthrough connector used for the temperature sensors
  - Connector has bent male pins
  - Connector located at the magnet's turret