

# SoLID Magnet Controls System Meeting Minutes

**Date:** February 17, 2023

**Time:** 11:00–12:00

*Attendees:* Aaron Brown, Pablo Campero, Steven Lassiter, Tyler Lemon, and Whit Seay

## 1. HMI screens

*Pablo Campero*

1. Modified *Solenoid CCR-Expert* screen
  - Added needle and ball valve for the 300–80 K GHe supply line
  - Added indicators for EPICS signals, Total Recovery Flow and Recovery Pressure; click indicator to show trend of data in datalogger
  - Relocated He magnet supply line so that it goes to turret
  - Relocated He CL Pot supply line
  - Added He CL Pot return line and label
  - Added pot reservoir inside the turret
  - Added GHe return line from the CL
  - Added "Cold" and "Warm" labels for return lines
  - Added "He CL Gas Sup" label
2. Will remove connecting dashed lines between supply and return for helium and nitrogen on the *Solenoid CCR-Expert* screen in the magnet section
3. Will make *Solenoid Cooldown* screen re-sizeable
  - More changes to be sent by Whit Seay

## 2. Alarms and email notification

*Pablo Campero*

1. Steven Lassiter requested additional alarms for delta helium and delta nitrogen cooldown temperatures
  - PLC tags will be provided

## 3. Other Topics

All

1. Monitored logbooks
  - Increased He Max Delta Coil Temp increased from 46 K to 47 K
  - Flow increasing factor removed from sheet 53 of CLEO PLC program; it was multiplying twice the setpoint value
  - Modified interlocks
    - Removed PSU\_HW\_interlock as there is no hardware interlock analog signal for the PSU used during this low current test
    - T\_CL\_max set to 300 K for cooldown and warmup
    - Raised interlock setpoint for radial strain gauges (2x) and axial strain gauge
2. Monitored cooldown progress
  - Average helium temperature for coil shell ~247 K at the time of meeting