

# SoLID Magnet Controls System Meeting Minutes

**Date:** June 8, 2022

**Time:** 11:00 – 12:00

*Attendees: Peter Bonneau, Pablo Campero, Brian Eng, Marc McMullen, and Steven Lassiter*

## 1. Screens development

*Mary Ann Antonioli and Pablo Campero*

1. Developing *Solenoid Interlocks* HMI screen
  - For the hardware quench detector interlock indicators, will show the quench detector channel instead of the voltage tap associated as the current leads
  - Will display Magnet voltage tap on software quench detector interlock group
  - Red color will be used to indicate first interlock tripped, black color for the text
  - Will add pressure sensor errors due to over or under voltage
    - Will use PLC I/O module tags
    - Checked PLC code
  - Will modify indicator colors for the Current Lead Temperature interlock to make it consistent with other interlocks shown on screen
  - Will add overall interlock status for the helium temperature, magnet temperature sensors, and radial and axial supports sensors
    - No independent indicators for each temperature sensor and load sensor
  - Detailed indicators for the vacuum faults are needed
  - Will remove color attribute for the screen background
  - Will research and possibly add option of sending screenshot via email as soon as an interlock trips
2. Modified *Menu* HMI screen
  - Added newly developed screens

## 2. EPICS process variables

*Pablo Campero*

1. Reviewed and answered questions from cryo engineer
  - We expect to read the signals shown in the spreadsheet (if they are available) sent by Pablo Campero since some of them are critical for the control of the valves to cooldown the magnet
  - KepServerEX software license has been purchased by Hall A staff to interface the EPICS and PLC
  - DSG will not create EPICS EDM screens
  - Only read access between EPICS and PLC is required

## 3. Temperature sensor vacuum feedthrough connectors

*DSG*

1. Looking for connector replacement in case of breakage while repairing bent pins
  - Unable to find part number on drawings or Operation Manual provided by Oxford
2. Steven Lassiter and Whit Seay requested that DSG work on the instrumentation connectors' disconnection to allow the cleaning of the magnet turret