

SoLID Magnet Controls System Meeting Minutes

Date: April 27, 2022

Time: 11:00 – 12:00

Attendees: Peter Bonneau, Pablo Campero, Brian Eng, George Jacobs, Mindy Leffel, Tyler Lemon, and Marc McMullen

1. Cable fabrication

Pablo Campero and Mindy Leffel

1. Completed 63 of 65, 100' cables
 - One end of two cables for current lead temperature sensors will be terminated once connection is defined
2. Connected 61 of 65, 100' cables
 - Connection of the grounds for load sensors cables in progress

2. Screens development

Mary Ann Antonioli and Pablo Campero

1. Configured *JTV Trend* and *EV Trend* screens to overlay any screen in use
2. 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
 - Purple color indicates PLC, automatic control mode
 - Red color (has priority) indicates errors
 - Working on new screen to show valve control mode
3. Developing *Solenoid Cooldown* HMI screen
 - Need to confirm if heat exchanger valves' position are required to be shown on screen
 - Checked logic in PLC code to determine if the helium warm gas for cooldown is enabled; needed for string indicator placed over the button labeled as "300-85K"
 - Using "He_CD_Temp_Warning" tag, need to verify
 - Need to confirm if temperature sensor at output of heat exchanger is the one named "PT_HX_GHe_Mix"
4. Completed *Voltage Trends* HMI screens and added buttons to the *Solenoid Voltage Tap* for access to trends
 - *CL Trends* button displays trends for voltage at the current leads A and B
 - *Coil Voltage Trends* button displays trends for coils 1 and 2 voltages
 - *Coils Fast Trends* button displays trends at 50 ms for coil 1 and 2 voltages

3. Other topics

DSG

1. Reviewed specifications of power supply to be used for the 100 A test in the Test Lab
 - Serial and GPIB communication protocols are available if needed
 - Analog output to measure the current and status of the power supply are available
 - Will email concerning requirements for the remote monitoring or control of the power supply