

# SoLID Magnet Controls System Meeting Minutes

**Date:** January 19, 2022

**Time:** 11:00 – 12:00

*Attendees: Peter Bonneau, Aaron Brown, Pablo Campero, Brian Eng, Steven Lassiter, and Mindy Leffel*

## **1. Rack wiring and cable fabrication**

*Pablo Campero and Mindy Leffel*

1. Fabricated a total of 153 of 215 cables
  - Most of the cables for the intra-rack connections are completed
  - Fabrication of 100' cables to connect instrumentation from the magnet and CCR to racks are in progress
2. Wiring of rack A front 95% completed
3. Wiring of rack A rear 70% completed
4. Wiring of rack B front 95% completed
5. Wiring of rack B rear 95% completed
  - Decided to install communication module for magnet power supply
  - Communication module, adapter and power supply will be provided by Steven Lassiter
6. For cable that connects temperature sensor signals from 10-pin vacuum feedthrough connector in the magnet-turret to terminal block in rack A, need cable termination details for the 10-pin vacuum feedthrough end
  - DSG could not find connector in physics storage
  - Whit Seay is looking for needed connector
7. Reviewed termination for instrumentation cables
  - CCR temperature sensors – 41-pin connector (ref. dwg. 0406)
  - Current lead temperature sensors – 4-socket contact connector (ref. dwg. 0406)
  - Load sensors – Tuchel 5-pin connector (ref. dwg 0403)
  - Whit Seay is getting all connectors mentioned above so DSG can fabricate cables

## **2. Resistor box status**

*Pablo Campero and Steven Lassiter*

1. Resistor box will be installed, close to the current leads, for the low current test of the magnet
2. Cable needed from resistor box to racks must be 100' long

## **3. Instrumentation required**

*Pablo Campero and Mindy Leffel*

1. Five breakers
2. Four power cords for 24 and 5 VDC power supplies
3. Dataforth signal conditioning modules (models shown in CLEO II Controls spreadsheet)
4. Two power strips
5. Standard power cord extension
6. All instrumentation mentioned above will be provided by Steven Lassiter

#### 4. Rack utilities

*Pablo Campero*

1. The closest power outlet and Ethernet connection point are about 20' from the current location of the racks
  - Racks could be moved closer
2. Will contact computer center to configure Ethernet network

#### 5. Other topics

1. Magnet has been moved inside the Test Lab, close to cryogenic supply lines
2. Resistors to be used as loads to test temperature sensors will be provided by Steven Lassiter