

SoLID Magnet Controls System Meeting Minutes

Date: April 28, 2021

Time: 10:30 – 12:00

Attendees: Peter Bonneau, Aaron Brown, Pablo Campero, Brian Eng, Tyler Lemon, Steven Lassiter, Marc McMullen, and Whit Seay

1. Reviewed markup for drawings

Pablo Campero

1. A00000-16-03-0210 *Magnet Temperature Sensors Wiring Diagram*
 - Will use the same letters shown in the *Controls-CLEO* spreadsheet for the 25 D internal connectors. i.e. change connector label from D-1 to H-1
 - Will use the same letters shown in the *Controls-CLEO* spreadsheet for the vacuum feedthrough connectors, i.e. change connector label from VF-1 to D-1
 - Will use a single cable to connect the terminal strips with each channel in the CCS boards
 - Need to change conductor colors shown in drawing
 - Will use a single cable to connect the terminal strips with the Dataforth signal conditioning modules
 - Need to change conductor colors shown in drawing
 - Will add note in each sheet where a cable is shown with a dashed line, which means that the cable has more conductors in the same or on a different sheet of the drawing
 - Will add sheet number to cable names, i.e. cable #210-S01-0X
2. A00000-16-03-302 *PLC I/O Remote A, Slot 3, Module Wiring Diagram*
 - Corrected colors and description text for cable used to connect terminal strips and PLC I/O module terminals
3. A00000-16-03-400 *Rhodium-Iron Temperature Sensors Cable Diagram*
 - Will use the same letters shown in the *Controls-CLEO* spreadsheet for the vacuum feedthroughs connectors. i.e. change connector label from VF-1 to D-1

2. Electrical drawings completed

Mary Ann Antonioli and Pablo Campero

1. A000000-16-03-0309 *Analog Input PLC I/O Module Wiring Diagram Module*
 - Confirmed that channel 7 on module does not have any signal connected
 - Removed *Magnet* signal shown on *Control-CLEO* spreadsheet, at *CLEOII-Chassis Layout* tab
2. A000000-16-03-0252 *Quench Detector Wiring Diagram*
 - Confirmed that quench detector channel assignment is correct for all voltage taps
 - Confirmed that SoLID quench detector unit will have the same specifications as Hall C-SHMS quench detector unit

3. Electrical drawings in progress

Mary Ann Antonioli and Pablo Campero

1. A00000-16-03-0401 *Voltage Tap Cable Diagram*
 - Will add description for cable once it is selected
 - Will ensure that colors on selected cable match cable colors shown on drawing
 - Will confirm connector to be used at resistor box end
2. A000000-16-03-0250 *Voltage Taps Wiring Diagram*
 - Will use the same letters shown in the *Controls-CLEO* spreadsheet for the vacuum feedthroughs connectors, i.e. change connector label from VF-1 to B-1
 - Labels FL1+ & FL1- for flux loop 1, and FL2+ & FL2- for flux loop 2, are correct
 - The signal conditioning module Dataforth-SCM5B31-09D has an input range rated for -40 to +40 V is adequate for all voltage taps

4. Cables and connector researching

Pablo Campero, Brian Eng, and Marc McMullen

1. Three 500' spools of multi-conductor cable required for magnet temperature sensors are in hand and will be placed in the Hall A storage facility
2. Discussed researched options for multi-conductor voltage tap cable rated for 600 V
3. Discussed researched option for 16-pin CPC connector to be installed in the resistor box used for voltage taps