

DSG-SoLID Magnet Controls Meeting Minutes

Date: September 1, 2021

Time: 11:00 – 12:00

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

1. Revisions needed to completed drawings

Mary Ann Antonioli and Pablo Campero

1. A00000-16-03-0305 *PLC I/O, Remote A, Slot 5 Wiring Diagram* and A00000-16-03-0312 *PLC I/O, Remote B, Slot 2 Wiring Diagram*
 - Add valve description for each valve

2. Completed drawings

Mary Ann Antonioli and Pablo Campero

1. A00000-16-03-221 *Miscellaneous Instrumentation Wiring Diagram*
2. A00000-16-03-405 *Miscellaneous Instrumentation Cable Diagram*

3. Drawings in progress

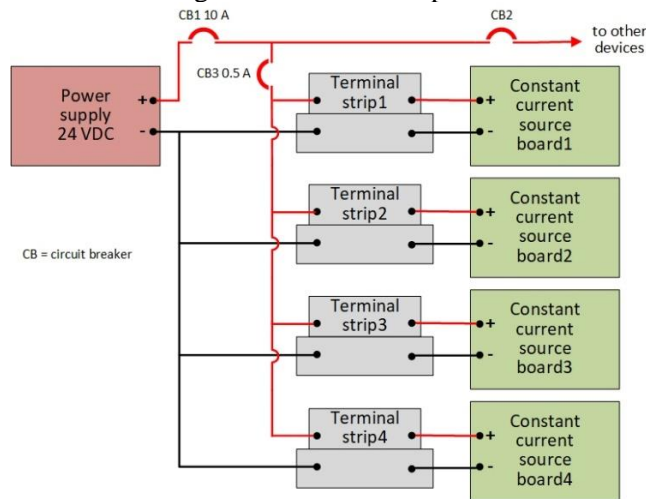
Mary Ann Antonioli and Pablo Campero

1. A00000-16-03-0280 *Power Supply Control Crate Connections*
2. A00000-16-03-0301 *PLC I/O, Remote A, Slot 1 Wiring Diagram*

4. Changes to power distribution to instrumentation

Mary Ann Antonioli, Pablo Campero, and Brian Eng

1. Generated diagrams to show changes for CCS boards power connection



2. Developing drawing A00000-16-03-350 *Power Distribution Wiring Diagram*
 - Added 2nd-level terminal strip for safer connections
 - Separated single connections to Dataforth signal conditioners' backplanes and to Macro Sensor signal conditioner modules
 - Changed power distribution based on sensor/instrument category
 - Changed ampacity for breakers

5. Cable work

Pablo Campero, Brian Eng, Mindy Leffel, and Marc McMullen

1. Started remote fabrication of cables
 - Working from home minimizes exposure to COVID-19
 - Once cables are fabricated, work will move to either TEDF 1544 or Test Lab high bay area; At least two DSG members will be involved at a time
2. Three cable spools, connectors, and ferrules were delivered to Mindy
 - Cable delivered
 - 4-conductor, 22 AWG
 - 4-conductor, 16 AWG
 - 20-conductor, 24 AWG
3. The remaining cable spools are in Physics Storage in case Hall C technicians need to work on them as well

6. Cable procurement for SoLID magnet instrumentation progressing

Marc McMullen

1. Reviewed *Cable List* spreadsheet
2. Ordered cables for Quench detector, LN₂/LHe level sensors, and MFCs
3. Will order connectors for pressure transducer, MFCs, and liquid levels

7. Other topics

Pablo Campero, and Brian Eng

1. Location for line voltage controller module to be used with the liquid level control will be rack #1, front panel, next to the liquid level unit
 - Rack layout drawing will be updated
 - Steven Lassiter showed rear panel connections for line voltage controller unit
 - Using connection information provided, related AutoCAD drawings can be reviewed for accuracy
2. Agreed to hold meeting every two weeks
 - Questions and comments will be communicated via email