SoLID Magnet Controls System Meeting Minutes

Date: March 31, 2021
Time: 10:30 – 12:00

Attendees: *Peter Bonneau, Pablo Campero, Brian Eng, George Jacobs, Steven Lassiter, Tyler Lemon, Marc McMullen, and Whit Seay*

1. **Drawing A00000-16-0210 *Magnet Temperature Sensors Wiring Diagram***
   Mary Ann Antonioli and Pablo Campero
   1. Discussed and defined wire colors for cable that connects 10-pin vacuum feedthrough and MAG-TS-01/02 terminal strips; colors are based on Insulated Cable Engineers Association (ICEA) code
   2. Discussed cable to connect 10-pin vacuum feedthrough with MAG-TS-01/02
      - Needs to be a 10-conductor cable at the least; cables with extra conductors could be considered
      - Cable length would be ~ 75 ft.
      - Selected cable specifications must be approved by Hall A electrical engineer
   3. Will use question marks on drawing for all unknown internal cable # for TS7–TS11, TS27, TS28, AST1a, AST2, AST4, CU1, and CU2
   4. Changed terminal strip names on Control CLEO spreadsheet

2. **Drawing A00000-16-0400 *Cable Diagram for Magnet Temperature Sensors***
   Mary Ann Antonioli and Pablo Campero
   1. Verified 10-pin vacuum feedthrough connector is the one in use
   2. Will show 10 pin connections in drawing, even if the pin is not used
      - Will use empty box at terminal strip side and no line at the connector

3. **Completed modifications for drawings**
   Pablo Campero and Mary Ann Antonioli
   1. A00000-16-03-0302 *PLC I/O Slot 2 Wiring Diagram*
   2. A00000-16-03-0221 *Mass Flow Controllers, Vacuum and Pressure Wiring Diagram*

4. **Drawings in progress**
   Pablo Campero and Mary Ann Antonioli
   1. A00000-16-03-0211 *CCS Board Wiring Diagram*
   2. A00000-16-03-0212, 0213 *CCR Temperature Sensors*
   3. A00000-16-03-0350 *24 and 5 VDC Power Distribution*

5. **Discussed required breakers**
   Pablo Campero
   1. Need to check total number of 2-amp breakers, based on drawing A00000-16-03-0350 *24 and 5 VDC Power Distribution* and number needed to power PLC chassis
   2. Will count those on-hand to determine number to purchase
   3. Will modify instrumentation rack drawing and parts list if incorrect