

# SoLID Magnet Controls System Meeting Minutes

**Date:** April 7, 2021

**Time:** 10:30 – 11:30

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

## **1. Completed corrections and modifications to electrical drawings**

*Mary Ann Antonioli and Pablo Campero*

1. A00000-16-03-0210 Magnet Temperature Sensors (12 sheets)
2. A00000-16-03-0211 CCS Boards Wiring Diagram (4 sheets)
3. A00000-16-03-0220 Liquid Level Wiring Diagram
4. A00000-16-03-0400 Cable Diagram for Magnet Temperature Sensors
5. A00000-16-03-0303 PLC I/O Remote A, Slot 3, ADC Module Wiring Diagram

## **2. Electrical drawings in progress**

*Mary Ann Antonioli and Pablo Campero*

1. A00000-16-03-0304 PLC I/O Remote A, Slot 4, Analog Output Module Wiring
2. A00000-16-03-0306 PLC I/O Remote A, Slot 6, Relay Module Wiring
3. Checking the total number of 2-amp breakers in drawing A00000-16-03-0350, 24 VDC and 5 VDC Power Distribution. Answers needed to the following:
  - Is it right to connect two CCS boards to a single breaker?
  - Can two valve drive motors be connected to a single breaker?
  - Is there any reason to use 24 VDC power supply only for the valve drive motors?
  - Will a single breaker protect all macro sensors?

## **3. Updating Hall A SoLID Magnet Controls Drawing list**

*Pablo Campero*

1. List provides detailed information of the drawings and their status
2. Drawings completed and reviewed by DSG have green status

## **4. Researching temperature and voltage taps cable**

*Pablo Campero, Brian Eng, and Marc McMullen*

1. Options for multi-conductor cable required for temperature sensors is being investigated
2. Discussed specifications required for voltage taps cable
  - Reviewed drawing *A00000-16-03-0401 Voltage Tap Cable Diagram* and information given in *Control CLEO* spreadsheet
    - Three 10-pin vacuum feedthroughs are used to wire the internal voltage taps
    - Cables will connect with a 10-pin vacuum feedthrough at the magnet end and to the terminal strip at the instrumentation rack
    - Two wires will be needed for VT6 and VT7 voltage taps, located at warm end of current leads; will not connect with any of the three 10-pin vacuum feedthroughs
  - Need to determine cable lengths