

## DSG-SoLID Magnet Controls Meeting Minutes

**Date:** June 30, 2021

**Time:** 11:00 – 12:00

*Attendees: Aaron Brown, Pablo Campero, Brian Eng, George Jacobs, Marc McMullen, Steven Lassiter, and Whit Seay*

### **1. Markups for drawings**

*Mary Ann and Pablo Campero*

1. Drawing A00000-16-03-0402 *JT and EB Valve Cable Diagram*
  - Will add extra terminal strip for drain wire drawing 0402
2. Drawing A00000-16-03-0262 *Electric Linear Actuator Motor Drive Wire Diagram* was reviewed; no comments

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

*Mary Ann and Pablo Campero*

1. A00000-16-03-0406 *PT-102 and Diode Temperature Sensors Cable Diagram*
  - Confirmed that two 4-conductor cables can be used instead of a single 8-conductor cable
  - Checked specifications of 10-pin feedthrough connector located in the heat exchanger and determined that two 4-conductor cables can be used with it
2. A00000-16-03-0350 *Power Supply Terminal Strips*
  - Modified wiring to provide 24 VDC required for each JT valve and EB valve
  - Re-ordered connection nodes on electrical drawing
  - Added one 2-A breaker per valve motor drive (total of 10)
3. A00000-16-03-0100 *Instrumentation Control Panel - Rear Layout*
  - Need to add extra 2-A breakers required for valve motor drives to match A00000-16-03-0350
  - Confirmed that instrumentation racks #1 and #2 will be installed next to each other
  - Will move power supplies (5 V and 24 V), breakers, and terminal strips from bottom of rack #1 to middle of rack #2 so all breakers are in rack #2

### **3. Cables for SoLID magnet instrumentation**

*Pablo Campero, Brian Eng, and Marc McMullen*

1. CPC connectors for voltage tap connections
  - Received and assembled connectors and pins to make sure they fit correctly
  - Delivered connectors and pins to Physics storage building
2. Cable and connectors for LVTD and motor drive connections
  - Ordered cable has arrived
  - Waiting for female pins for the connectors
  - Confirmed that ordered cable for the LVDTs connections has a drain wire
  - Cables will be delivered to Physics storage building
3. Researching cable for the temperature sensors in the magnet, CCR, and heat exchanger
  - *Cable List* spreadsheet updated with required specifications for each cable
  - Options for cable selection will be sent prior to purchasing