

DSG-SoLID Magnet Controls Meeting Minutes

Date: June 9, 2021

Time: 11:00 – 12:00

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

1. Completed electrical drawings

Mary Ann Antonioli and Pablo Campero

1. A00000-16-03-0260 *Linear Voltage Differential Transducers*
2. A00000-16-03-0261 *LVDT Voltage Readout*
3. A00000-16-03-0402 *JT Valves and Motor Drive Cables Diagram*
 - Need to recheck colors after cable selected

2. Electrical drawings in progress

Mary Ann and Pablo Campero

1. A00000-16-03-0262 *Electric Linear Actuator Drive Motors*
 - Added heat exchanger valves since same MCR board for driver motor will be used
2. A00000-16-03-0305 *Remote A, Slot 5 PLC I/O Wiring Diagram*
 - Will look for another cable to connect MCR board coils to PLC I/O terminal strip. Nine-pair, twisted, 20-AWG cable is shown in drawing
3. A00000-16-03-0351 *Valve Motor Drive Wiring Diagram*
 - Changed name from *Power Distribution Terminal Strip* to *Valve Motor Drive Wiring Diagram*
 - Changed terminal strip depiction to match depiction in other drawings

3. Cables for SoLID magnet instrumentation

Pablo Campero, Brian Eng, and Marc McMullen

1. Developed list of cable options and connectors for LVTD and motor drive connections
 - Options for cables, connectors components, and tools were reviewed
2. Cables for the temperature sensors located in the magnet and CCR will be researched
 - Connection from terminal strip to signal conditioning module terminals
 - Connection from terminal strip to CCS boards connector
 - Connection from Signal Conditioning breakout board to the PLC I/O terminal strips
 - Connection from PLC I/O terminal strip to PLC ADC modules' terminal block