

DSG-SoLID R&D Meeting Minutes

Date: June 3, 2021

Time: 11:00 – 12:00

Attendees: Mary Ann Antonioli, Peter Bonneau, Aaron Brown, Pablo Campero, Brian Eng, George Jacobs, Marc McMullen, Tyler Lemon, and Amrit Yegneswaran

1. Completed electrical drawings

Mary Ann Antonioli and Pablo Campero

1. A00000-16-03-0260 *Linear Voltage Differential Transducers*
2. A00000-16-03-0402 *JT Valves and Motor Drive Cables Diagram*

2. Reviewed Electrical drawings in progress

DSG

1. A00000-16-03-0261 *LVDT Voltage Readout*
2. A00000-16-03-0262 *Electric Linear Actuator Drive Motors*
3. A00000-16-03-0351 *Motor Drive Wiring Diagram*

3. Cables for SoLID magnet instrumentation

Pablo Campero, Brian Eng, and Marc McMullen

1. Researching cables and connectors to connect LVDT signals from the valve actuator to the terminal strip
2. Researching cables and connectors to connect motor drivers connector at valve actuator to terminal strip
 - Discussed cable gauge rated to support the 2.2 A drawn by the motor driver
 - 18 AWG is rated for 2.3 A and 16 AWG cable is rated for 3.7 A

4. PLC Controls Manual

Mary Ann Antonioli and Pablo Campero,

1. Wrote description of CLEO program, sub-routine 30 (V3_set LN2 Bottom Fill Valve)
 - Controls the set position for JTV3 in manual and automatic mode
 - Made flow charts of control logic
 - Made table to describe PLC tags used
2. Will make revisions to descriptive paragraphs and flow charts to agree format, as needed