

DSG-SoLID R&D Meeting Minutes

Date: September 3, 2020

Time: 11:15 – 12:00

Attendees: Peter Bonneau, Aaron Brown, Pablo Campero, George Jacobs, Marc McMullen, Tyler Lemon, and Amrit Yegneswaran

1. PLC programming status

- 1.1. Pablo Campero is working on the axial and radial support interlocks PLC routine
- 1.2. Pablo Campero will develop a list with conditions and thresholds for each interlock that generates a controlled ramp down and fast dump of the magnet
 - 1.2.1. List must match PLC code

2. HMI and CSS screen development status

- 2.1. Pablo Campero is finishing *JT Valve Page* HMI screen
 - 2.1.1. Databasing Info spreadsheet will be updated with the new PVs to be used for development of the new CSS screen
 - 2.1.2. HMI files and updated Databasing Info spreadsheet will be sent to Mary Ann

3. Hardware work progress

- 3.1. Constant Current Source (CCS) board status
 - 3.1.1. Marc McMullen will send bare boards and electronic components to Mindy Leffel
 - 3.1.2. Assembly of each CCS board takes ~4 hours
- 3.2. Motor Controller Relay board status
 - 3.2.1. Peter Bonneau is reviewing board design and making adjustments
 - 3.2.2. Peter Bonneau will send the reviewed board to Marc McMullen by 9/8/2020
 - 3.2.3. Marc McMullen will make final adjustments to the board and will send the board to the vendor by 9/10/2020
- 3.3. Assembly of PLC and instrumentation rack could be done by DSG after all parts are available
 - 3.3.1. Components on hand should be checked by Steven Lassiter based on Instrumentation Parts List already provided by Pablo Campero
 - 3.3.2. One DSG member could assemble rack by going to the Lab once or twice per week
 - 3.3.3. DSG's availability is based on work load for other ongoing projects

4. Documentation tasks status

- 4.1. Pablo Campero is modifying PLC and Instrumentation rack layouts
- 4.2. Mary Ann will modify existing drawings with the new assigned drawing numbers
 - 4.2.1. Confirmed that new drawing numbers proposed in the *Hall A SoLID Magnet Drawings List v.10* spreadsheet are correct

5. Other topics

- 5.1. DSG schedule for SoLID magnet controls tasks is in progress