DSG-SoLID R&D Meeting Minutes

Date: August 26, 2021
Time: 11:00 – 12:00

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

1. **Reviewed DSG-SoLID Magnet Control System meeting minutes from August 25, 2021**
   DSG
   1. Link for details: 2021-08-25 DSG-SoLID Magnet System Meeting Minutes
   2. Completed modifications of *PLC IO Modules Wiring Diagram*
   3. Modifying *Miscellaneous Instrumentation Wiring Diagram,* and *Cable Diagram*
   4. Reviewed *Cable List* spreadsheet with information for cables to be procured
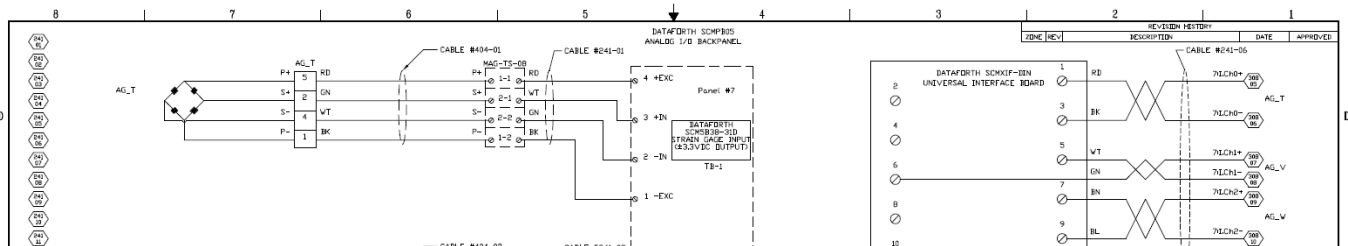

Fig.1. A00000-16-03-0241: *PLC IO Modules Wiring Diagram*

2. **Reviewed power distribution setup for constant current sources**
   Pablo Campero, Brian Eng, and Marc McMullen
   1. SHMS drawing shows a 1st level terminal strip for all COM (-) connections for CCS board
   2. Proposed using a 2nd level terminal strip for each CCS board's power connection
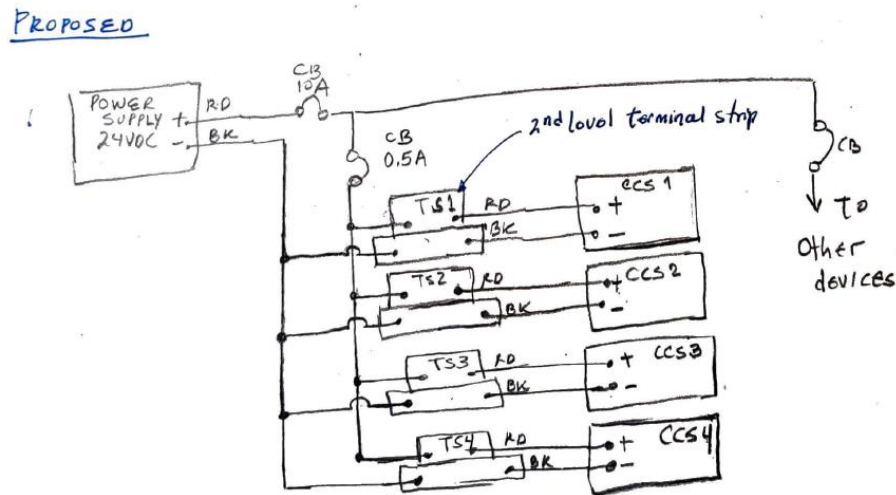

Fig.2. Proposed wiring connection to power Constant Current Source boards

3. **Reviewed DSG-SoLID Magnet Controls project schedule**
   DSG

4. <u>Started development of MySQL data base</u>
   Aaron Brown and Pablo Campero
   1. Discussed a MySQL database and type of storage
      - Enterprise Edition (complete features)
      - Cluster CGE (Real-time open source transactional database)
      - Another option is MariaDB Server
   2. Updating *Databasing* spreadsheet for HMI and CCS-BOY screens development