DSG-SoLID R&D Meeting Minutes

Date: January 13, 2023
Time: 11:00–12:00

Attendees: Mary Ann Antoniol, Aaron Brown, Pablo Campero, Brian Eng, and Tyler Lemon

1. **HMI screens**
   Pablo Campero
   1. Working on modifications to *Menu Screen*
   2. Modifying *Solenoid Cooldown* screen
      - Relocated and changed labels for magnet helium temperature delta and average
      - Added live plot for magnet's average nitrogen temperature

2. **Phoebus screens**
   Mary Ann Antonioli and Pablo Campero
   1. Updated *Databasing* spreadsheet with PVs for new screens
   2. Debugged and tested rule for labels on *Solenoid Cooldown* screen
      - One of three different labels needs to be shown, based on conditions
      - Changed Boolean operator from *or* to *and* to fix issue with label with three conditions
   3. Changing text symbols to labels on *Solenoid Axial Support* and *Solenoid Axial & Radial Support* screens where each load sensor has a text description depending upon condition
   4. Working on *Solenoid Interlock* screen

3. **PLC alarm handler and email sender**
   Pablo Campero
   1. Configuring Alarm and Event Setup server conditions
      - Able to trigger the bit to send an email to jlab account when alarm is out of limits
      - Setting up acknowledgment tags
   2. Implementing FactoryTalk ME EmailSender Control to send alarm emails
      - Adding HMI tags of string type to set the alarm email text to be sent; issues found
      - Writing code to send email based on active alarm
      - Testing handshaking options to avoid multiple emails
   3. Created email server with hMailServer software
      - Set up magent@cleotest email account to send alarm emails
      - Tested configurations for email server
      - Successfully sent emails to jlab.org
   4. Will test sending alarm emails from smtp@jlab.org (jlab existing account)