DSG-SoLID R&D Meeting Minutes
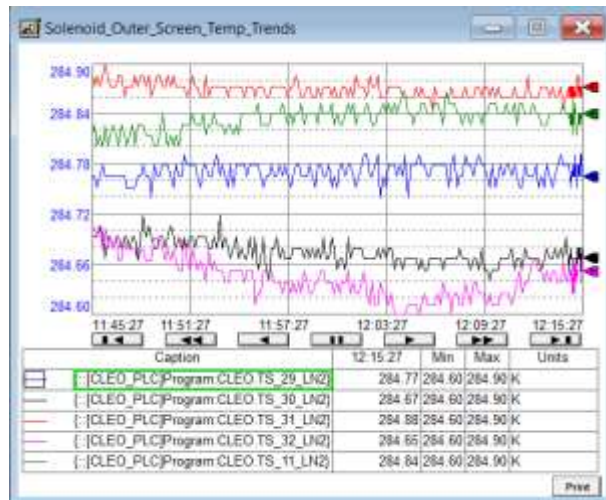
Date: January 6, 2023
Time: 11:00–12:00

Attendees: Mary Ann Antonioli, Peter Bonneau, Aaron Brown, Pablo Campero, Tyler Lemon, and Marc McMullen

1. **HMI screens**
    Pablo Campero
    1. Working on modifications to *Menu Screen*
    2. Modified *Solenoid Coils and Radiation Shield Temperature* screen
       - Removed reflection of the 3D image
       - Relocated temperatures sensors indicators
       - Added access to open screen with group of trends for inner shields, outer shields, and coils shell temperature sensors
    3. Modified *Solenoid Valve Setup* screen
       - Added inputs to set PID parameters for JTV3
       - Added label to show the process variable controlled by the aperture of JTV3
    4. Created *Solenoid Inner Screen Temperatures Trends* screen
       - Shows the trends for two liquid nitrogen temperature sensors
    5. Created *Solenoid Coils Shell Temperature Trends* screen
       - Shows trends for fourteen helium temperature sensors
    6. Created *Solenoid Outer Screen Temperatures Trends* screen
       - Shows trends for five liquid nitrogen temperature

2. **CSS-Phoebus screens**
    Mary Ann Antonioli and Pablo Campero
    1. Debugged lacking titles on pop-up valve screens
       - Need to continually run a local process variable screen for titles to appear
    2. Working on *Solenoid Cooldown* screen
       - Added buttons to open screen for each valve
       - Added buttons to control cooldown stages

3. **PLC alarm handler and email sender**
   Pablo Campero
   1. Created a testing HMI screen for different types of alarms
      - Added a momentary push button to control the sending of emails when alarm is present
      - Testing conditions and severity for alarms
   2. Implementing FactoryTalk ME EmailSender Control to send alarm emails
   3. Created email server with hMailServer software
      - Tested sending email from screen for local accounts created; no issues found
      - Tested delivering emails from IP ranges of accounts of different domains to the local accounts
      - Debugging issues when trying to send emails to an external account (e.g. Hotmail account)
        - Remote server replied: 550 5.7.1 Service unavailable, Client host [129.57.196.11] blocked using Spamhaus.
        - Investigating how to remove PHYCAD58 from list of blocked servers

4. **Other topics**
   DSG
   1. Restoring of Cooldown will start in February
   2. SoLID Magnet Controls meeting will be rescheduled from Wednesdays to Fridays at 11:00 a.m., every other week from the DSG-SoLID R&D meeting