

## DSG-SoLID R&D Meeting Minutes

**Date:** December 9, 2022

**Time:** 11:00–12:00

*Attendees:* Aaron Brown, Peter Bonneau, Pablo Campero, Mindy Leffel, Tyler Lemon, and Marc McMullen

### 1. PLC and EPICS data transfer

*Pablo Campero*

1. Added three EPICS process variables to the PLC program to monitor cryogenic conditions
2. Monitored read back values and compared with EPICS values; no issues found

### 2. Access to HMI screens

*Pablo Campero*

1. Completed setup of the PHYCAD59 computer as client to run and access HMI screens
  - Installed and configured software and patches
  - Tested access to PHYCAD58 HMI server; no issues found
  - Client can be accessed in local or remote mode
2. Setting up CCONT02 laptop
  - Installing FTView Side Edition Client package software

### 3. Modifying HMI screens

*Pablo Campero*

1. Completed modifications requested for *CCR Expert* screen
  - Added description of valve names
  - Moved vacuum indicator away from vacuum bottom
2. Added cryo EPICS process variables to HMI screens
  - Supply Pressure *CPI2721* in the Upgraded Injector Test Facility
  - Contamination/Recovery Suction *CCT20N*
  - Bypass Valve Position *CEV249BYUORBV*
3. Added option to bring *ESR Cryo* screen to front if clicked

### 4. Completed fabrication of cable from voltage tap to resistor box

*Pablo Campero and Mindy Leffel*

1. Cable delivered to Steven Lassiter

### 5. Cooldown monitoring

*DSG*

1. Monitored vacuum, which was  $\sim 1.41 \times 10^{-1}$  Torr on 12/09/2022
  - Minimum expected vacuum is  $1 \times 10^{-4}$  Torr
2. Monitored contamination, which went from 158 ppm to 0.06 ppm