

DSG SoLID R&D Meeting Minutes

Date: November 5, 2020

Time: 10:30 – 12:00

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

1. PLC Programming tasks status

- 1.1. Pablo Campero tested Cryo routine's selection of 4 K flow limit values from either EPICS or the entered value in the JTV valve setup HMI screen
- 1.2. Pablo Campero wrote python code to calculate the second order polynomial coefficients for curve $T = f(R)$, using data provided in *Operating Manual for Cleo II, Oxford Instruments*
 - 1.2.1. Compared python results with values in the I&C spreadsheet. Coefficients values match
 - 1.2.2. Amrit Yegneswaran suggested using the same provided data and fit in third order polynomial curve, so that there will be first, second, and third order fits to compare
- 1.3. Discussed minutes of Nov. 4th PLC programming meeting
 - 1.3.1. Changes to program detailed in [minutes](#)
 - 1.3.2. Another meeting will be held next week
- 1.4. *PLC Programming* spreadsheet is in progress

2. HMI screen status

- 2.1. Pablo Campero finished testing *Solenoid Liquid Levels – Expert* HMI screen
 - 2.1.1. All controls and monitoring features are working correctly
 - 2.1.2. Once Pablo Camparo updates *Databasing* spreadsheet with proposed EPICS PVs, Mary Ann Antonioli can generate equivalent CSS-BOY screen
- 2.2. Pablo Campero completed the *Solenoid CCR Valves Setup* HMI screen
 - 2.2.1. Testing in progress

3. Documentation

- 3.1. Pablo Campero and Mary Ann Antonioli completed first version of drawing A00000-16-03-0220 *LHe and LN₂ Liquid Level Meter Wire Diagram*; second version in progress
- 3.2. Amrit Yegneswaran is reviewing *Solenoid Liquid Levels Controls* talk
 - 3.2.1. Pablo Campero will post the talk once revision is completed