DSG SICOM Meeting Minutes

Date: April 11, 2024
Time: 2:00 PM – 3:00 PM

Attendees: Mary Ann Antonioli, Peter Bonneau, Aaron Brown, Pablo Campero, Brian Eng, George Jacobs, and Marc McMullen

1. **Hall C NPS LabVIEW**
   Aaron Brown and Mary Ann Antonioli
   1. Working on version 3 interlock LabVIEW program
      - Aaron Brown resolved issues to out put data from *Latch or Status True* subVI
      - Aaron Brown is debugging issues related to time recording when latch is present
      - Mary Ann Antonioli and Aaron Brown will meet to discuss the state machine written by Mary Ann for latching

2. **Adobe InDesign**
   Mary Ann Antonioli and Aaron Brown
   1. Mary Ann Antonioli was not able to access Adobe Creative Cloud
   2. Aaron Brown will work on problem with Mary Ann

3. **Hall A LAPPD 3D model development in NX12**
   Pablo Campero and Marc McMullen
   1. Marc McMullen replaced the 27.5" T-slots with 24" in the gantry support structure model
   2. Pablo Campero and Marc McMullen are using NX tools to review proper size for profiles and clearance between the assembled support and other components inside dark box

4. **Hall A LAPPD Ansys structural analysis**
   Pablo Campero
   1. Pablo Campero calculated total weight of the gantry system to be ~9 Kg
   2. Pablo Campero is investigating issues with importing .prt files from NX to Ansys-SpaceClaim; when resolved, he will work on the geometry of the T-slot profile in SpaceClaim

5. **Hall B ALERT**
   Brian Eng and Marc McMullen
   1. Brian Eng completed LabVIEW code for the driver that sets Modbus communication with Alicat mass flow controllers (MFC)
   2. Discussed advantages of Alicat MFC over MKS MFC
      - Alicat provides temperature and pressure readouts; Brian Eng is testing temperature readout with valve aperture variations and with and without gas flow
      - Changing the gas type used can be done by sending a command to the Alicat; MKS requires data input and setting the gas correction factor, which makes the process tedious