

DSG SICOM Meeting Minutes

Date: April 18, 2024

Time: 2:00 PM – 3:00 PM

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

1. Adobe InDesign

Mary Ann Antonioli

1. Mary Ann Antonioli was able to access Adobe Creative Cloud and installed new version of Adobe InDesign

2. Hall A LAPPD 3D gantry support model development in NX12

Pablo Campero and Marc McMullen

1. Marc McMullen modified model to show changes in the actual structure
 - Added eight footers to the structure, two per pillar
 - Added two 24'' bars for more stability, each located ~7'' from the base of the dark box
2. Pablo Campero and Marc McMullen are reviewing the model modifications

3. Hall A LAPPD Ansys structural analysis

Pablo Campero

1. Pablo Campero resolved issue with importing .prt files from NX to Ansys-SpaceClaim by exporting prt file as step file and then importing
2. Pablo Campero made calculation using Ansys Static Structural software
 - Generated model of a bar 40 mm x 40 mm x 600 mm
 - Applied a force of 160 N (considered total weight of 16 kg) at 300 mm on the length of the bar
 - Results in a maximum deformation of less than 4.5 μm
3. Pablo Campero created model that includes the T-slot profile used for the gantry support
 - Improved mesh for model
 - Reviewing setup of the fixed supports and load placement in the T-slot

4. Hall B ALERT

Brian Eng and Marc McMullen

1. Brian Eng connected Alicat mass flow controller (MFC) to the air supply port in DSG's control room to monitor temperature and pressure changes
2. Discussed advantages of Alicat MFC over MKS MFC