

DSG SICOM Meeting Minutes

Date: February 29, 2024

Time: 2:00 PM – 3:00 PM

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

1. Hall C NPS Interlock program

Aaron Brown and Mary Ann Antonioli

1. Debugging the NPS Interlock LabVIEW program
 - Added to a subVI the missing values that determine the array element position and how many elements of the array to be read
 - Tested individual subVIs and noted that array reading issues were resolved
 - After applying changes to the main NPS Interlock LabVIEW program, noted that it gets disconnected from the target (cRIO controller) after running about a minute
 - Pinged cRIO controller with no issues
 - Monitored variables of cRIO using NI Distributed System Manager and noted that variables were not updating and there was a log error with incorrect date and time.
 - Error log code needs to be checked
 - Updated date and time using NI Max setting
 - Reduced deployment time to <1 min from 6.5 mins by disabling Auto-deploy Variables option in the Project
 - Will run a previous version of the Interlock program to see if the disconnection issues persist
2. Working on version3 of the NPS Interlock program
 - Developing subVI to monitor computer and cRIO health
 - Discussed specific properties that need to be monitored

2. Hall A SoLID LAPPD- NX12 CAD software

Pablo Campero and Marc McMullen

1. Gantry support design
 - L-profiles added to the base of each leg of the gantry support to ensure stability and proper attachment to the base of the LAPPD black box
 - Need to check clearance between optical fiber coming out of the LED box and cable loops located inside the LAPPD enclosure
2. LED box design
 - Removing threads in the model from the holes at the LED box's base since M4 internal threads will be done by using soldering insertion tip
 - NX error when trying to remove threads
 - Closing part file and reopening solved the issue
 - Reviewed LED support geometry
 - LED bracket to be installed in LED support will be ordered
 - Considering designing the LED support as separate piece from the LED box

- Discussed options to secure or assemble LED box top to the LED box base; current design considers only compression for assembly

3. Ansys Learning Hub

Pablo Campero

1. Ansys Learning Hub has been reactivated for JLab users until April, 2024
 - Submitted registration form after entering required info and activation code
 - Required waiting period of 2-3 days to have registration approved
 - Plan to review the available Fluids modules

4. Hall A ECAL temperature and heater controls LabVIEW program

Marc McMullen and Brian Eng

1. Completed ECAL test stand interlocks control program
 - Discussed temperature sensor locations and values monitored
 - Reviewing and updating process variables list to be archived in EPICS