**DSG-NPS R&D Meeting Minutes**

**Date: July 25, 2023**
**Time: 02:00 PM – 02:30 PM**

*Attendees: Mary Ann Antonioli, Peter Bonneau, Aaron Brown, Pablo Campero, Brian Eng,*
*George Jacobs, Mindy Leffel, Tyler Lemon, and Marc McMullen*

1. **Debugging thermal readback and chiller controls**
   *Mary Ann Antonioli, Aaron Brown, and Brian Eng*
   1. Discussed changes to code to ensure that all changes made to the *All Keysight Values* array happen in the same place; converted values from flowmeters are now shown on the Phoebus screen, instead of raw voltages
   2. Discussed new issue of chiller alarms and indicators not shown on Phoebus screen
      - The alarms and indicators (binary arrays in LabVIEW) are not being sent to the EPICS shared variables (arrays of Booleans) to which they are bound
      - May need to change the datatype of the EPICS shared variables or unbind the two and change the method used to send the information to EPICS
   3. Created an error indicator from the cRIO heartbeat EPICS shared variable
      - The status bit for this error can be used to trigger emails to alert users to system errors
      - Contacted Stephen Wood to add this PV to the Hall C alarm handler

2. **Hardware**
   1. Submitted PRs for a spare cRIO, a UPS, and a remote power distribution unit (network enabled power strip to remotely reboot the cRIO)
      - Aaron will check if there are any existing UPS outlets in the SHMS hut (where the cRIO is located)