

DSG-NPS R&D Meeting Minutes

Date: March 28, 2023

Time: 02:00PM – 02:30PM

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

1. Thermal readback

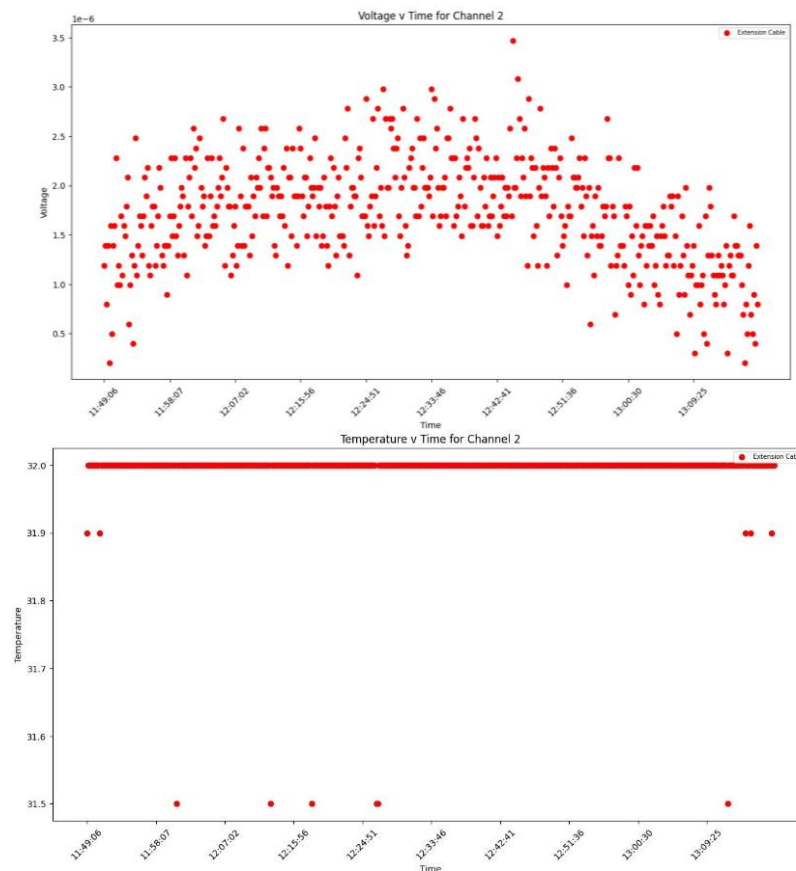
Mary Ann Antonioli, Peter Bonneau, Aaron Brown, Pablo Campero, and Tyler Lemon

1. Reviewed new PV list being developed by Mary Ann that details LabVIEW variables and EPICS PV names for each individual sensor, since arrays will no longer be used
2. Reviewed one of the four revised thermal control and monitoring Phoebus screens completed by Mary Ann
 - All arrays are being replaced with individual PV inputs and readbacks
3. Aaron has created a new softIOC to host the PVs with the intention of using LabVIEW as an EPICS client instead of an EPICS server
 - Debugging problem with database records, which is causing unavailability of the PVs

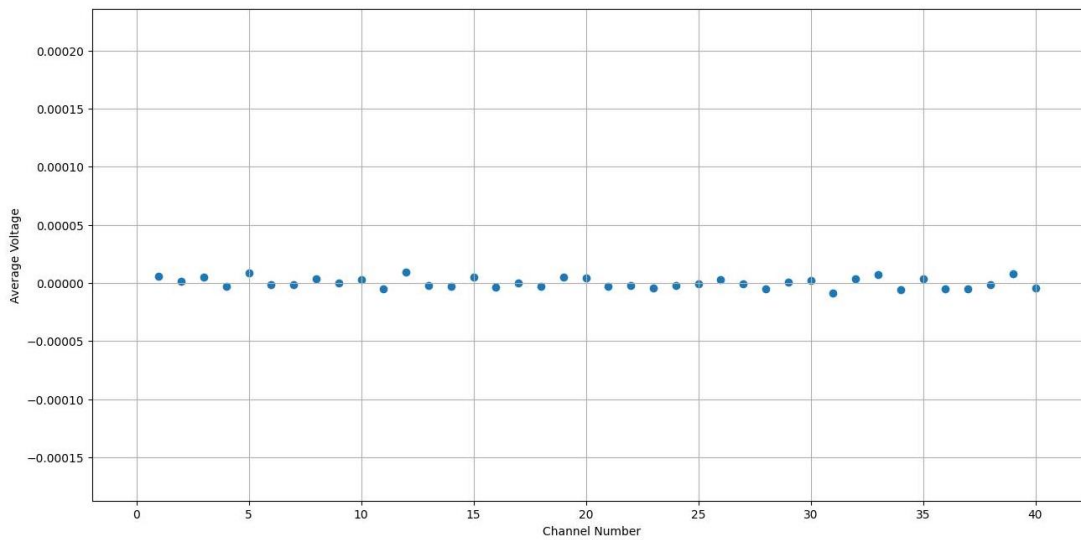
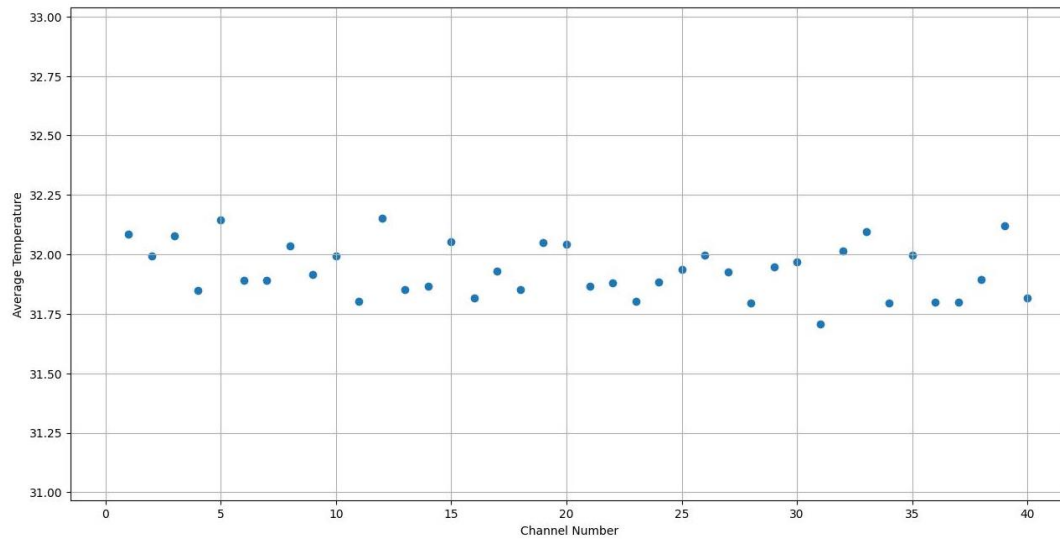
2. Extension cable testing

Aaron Brown

1. Reviewed voltage and temperature vs. time plots for channel 2 of multiplexer 1 in Keysight test stand
 - Will make similar plots for all channels to compare



2. Reviewed average temperature and average voltage plots for all 40 channels of multiplexer 1



3. Hardware

1. Discussed the number of uninterruptible power supplies (UPS) that will be needed, most likely three— one for the Keysight mainframe, one for the cRIO, and one for the humidity sensor power supply
 - Will check with Hall C to see if there is already a UPS system in place