

DSG-NPS R&D Meeting Minutes

Date: April 11, 2023

Time: 02:00 PM – 02:30 PM

Attendees: Peter Bonneau, Aaron Brown, Brian Eng, George Jacobs, Mindy Leffel, Tyler Lemon, and Marc McMullen

1. Thermal readback

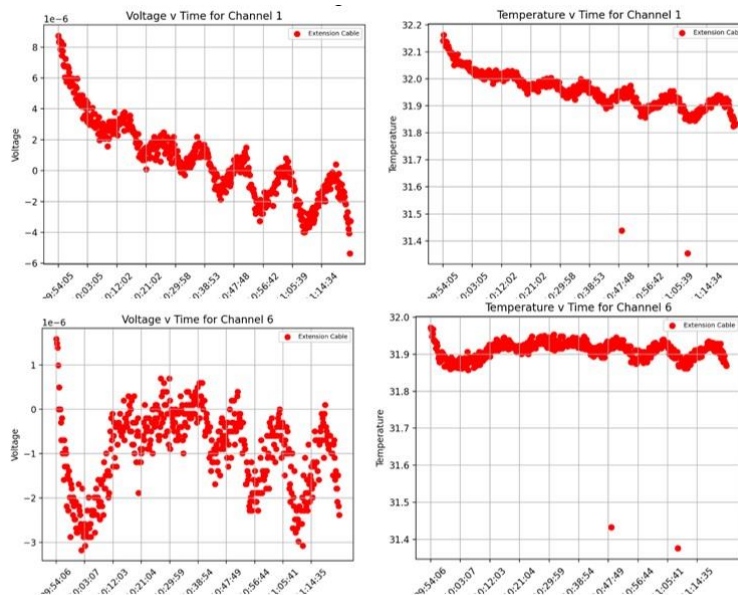
Mary Ann Antonioli, Peter Bonneau, Aaron Brown, Pablo Campero, and Tyler Lemon

1. Mary Ann finished all Phoebus thermal readback screens, replacing arrays with individual process variables
2. A production softIOC has been created and works as expected; database records for all signals in progress
 - Alarm fields will not be included for standard deviations and high and low temperature limits
3. Discussed problems with chiller communication
 - Can no longer communicate with chillers using serial modules; debugging in progress

2. Extension cable testing

Aaron Brown and Mindy Leffel

1. Mindy rewired all of the incorrectly connected thermocouples in the Keysight test stand; new data taken
2. Plotted voltage vs. time and temperature vs. time for all 40 channels of terminal block #1



3. Hardware

1. Discussed problems with CAEN power supplies, which are delaying NPS detector tests
 - EPICS commands sometimes have to be sent multiple times; CAEN tech support has suggested upgrading the firmware for the modules and crates
 - Randomly, channels are not retaining their parameter setpoints when channels are turned off and on again; Aaron has contacted CAEN tech support