

# DSG-NPS R&D Meeting Minutes

**Date:** December 14, 2021

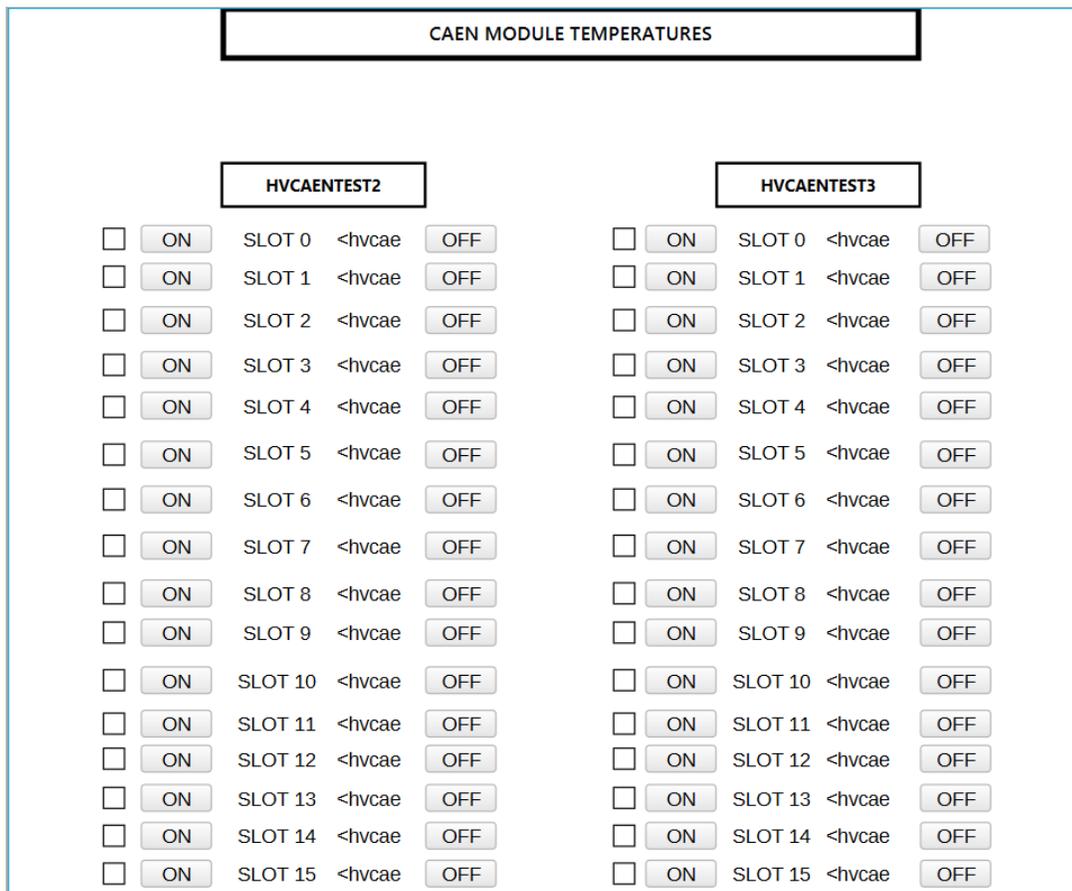
**Time:** 11:00 AM – 11:20 AM

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

## 1. Hardware Interlock System Development

*Mary Ann Antonioli, Peter Bonneau, Aaron Brown*

1. Reviewed *CAEN Module Temperatures* Phoebus screen
  - Mary Ann Antonioli added embedded JavaScripts to each action button to turn ON or OFF each module
  - LEDs have been changed to squares whose background color changes according to if any one channel is ON (green) and if all channels are OFF (red)



Screenshot of CAEN Module Temperatures EPICS CSS Phoebus screen

## 2. Ansysis Thermal Analysis

*Aaron Brown*

1. Adding temperature probes to the front and rear faces of each crystal
  - An IronPython script will be written to export the temperature values of each probe to a text file

### 3. Enhanced Specular Reflector Film Pre-shaping Progress

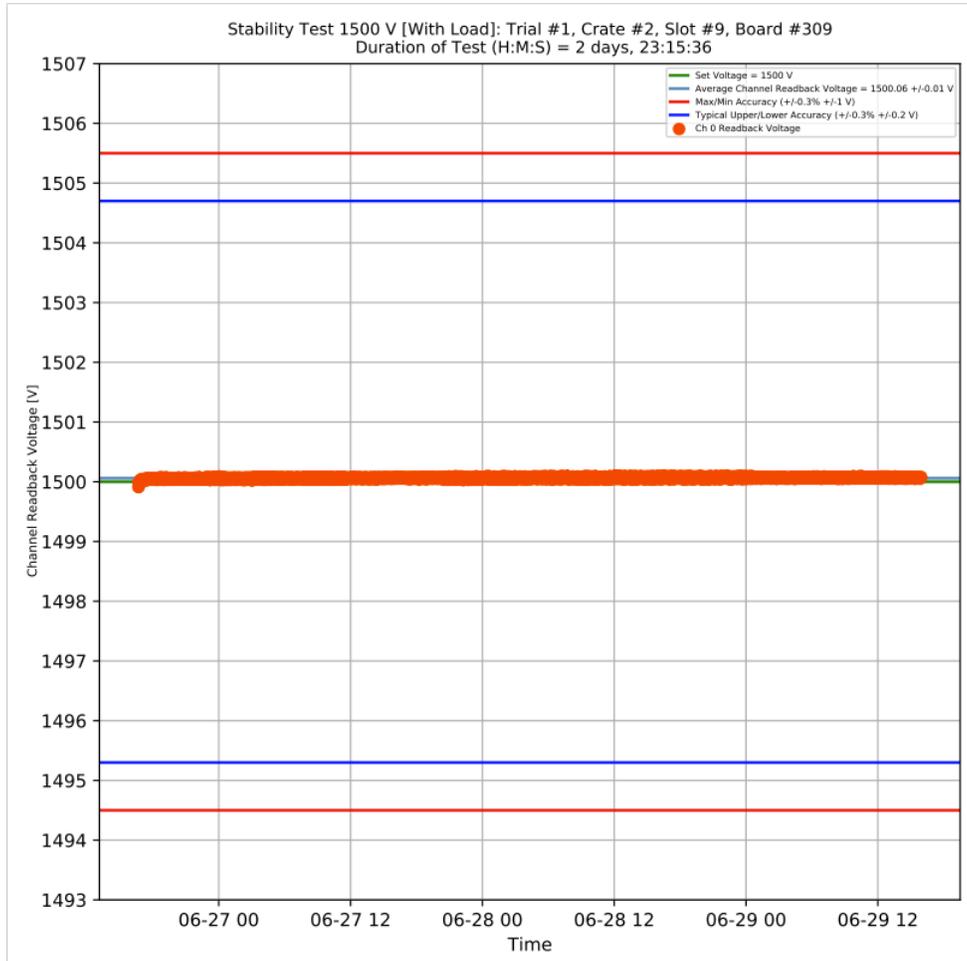
*George Jacobs and Mindy Leffel*

1. 500 of 600 foils completed (~83%)

### 4. MariaDB Database Development

*Aaron Brown, Pablo Campero, Brian Eng, George Jacobs*

1. Reviewed voltage stability plots by channel for each module
  - Yellow lines have been changed to blue for better visibility



Voltage stability plot for module 309 channel 0

### 5. High Voltage Supply Cable Testing

*Aaron Brown, George Jacobs, Mindy Leffel, Marc McMullen*

1. Mindy Leffel completed fabricating a box to test the 140' cable test
2. Testing will begin January 2022