

DSG-NPS R&D Meeting Minutes

Date: November 30, 2021

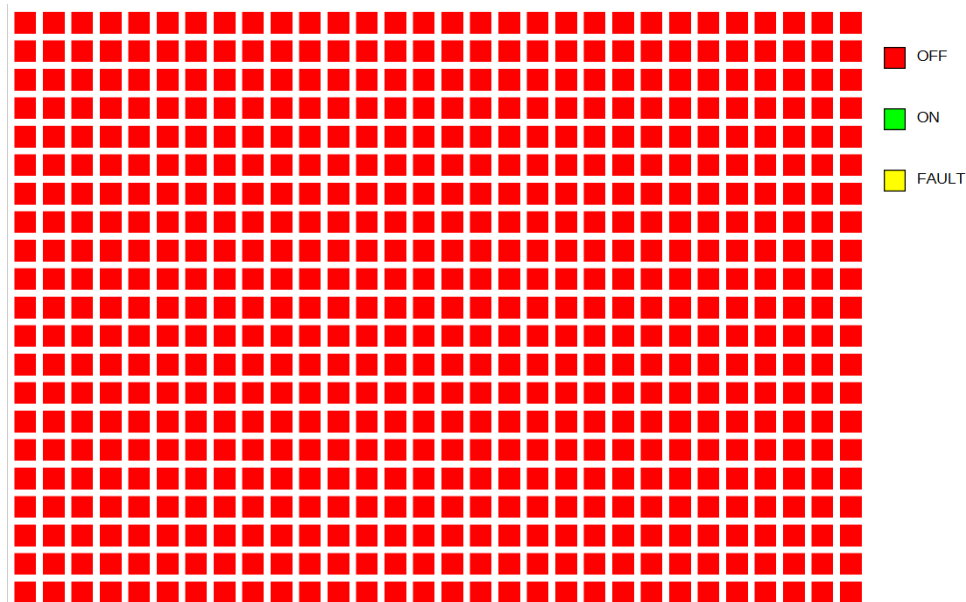
Time: 11:00 AM – 12:07 PM

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

1. Hardware Interlock System Development

Mary Ann Antonioli, Peter Bonneau, Aaron Brown

1. Reviewed NPS Overview Phoebus screen
 - Generated via Python script
 - Each “LED” is an embedded display overlaid with a transparent action button which when clicked opens a PMT Status pop-up window



Screenshot of *NPS Overview* Phoebus screen

2. Reviewed spreadsheet listing LabVIEW programs that need to be developed for the hardware interlock system
 - Spreadsheet will be revised to include LabVIEW and EPICS screens that need to be developed as well as programs and screens that have already been made

2. Ansys Thermal Analysis

Aaron Brown

1. Discussed IronPython script developed to export temperature probe values to a text file
2. Able to export temperature values for all mesh nodes; will continue researching how to export temperature values for each crystal face

3. ESR Pre-shaping Progress

George Jacobs and Mindy Leffel

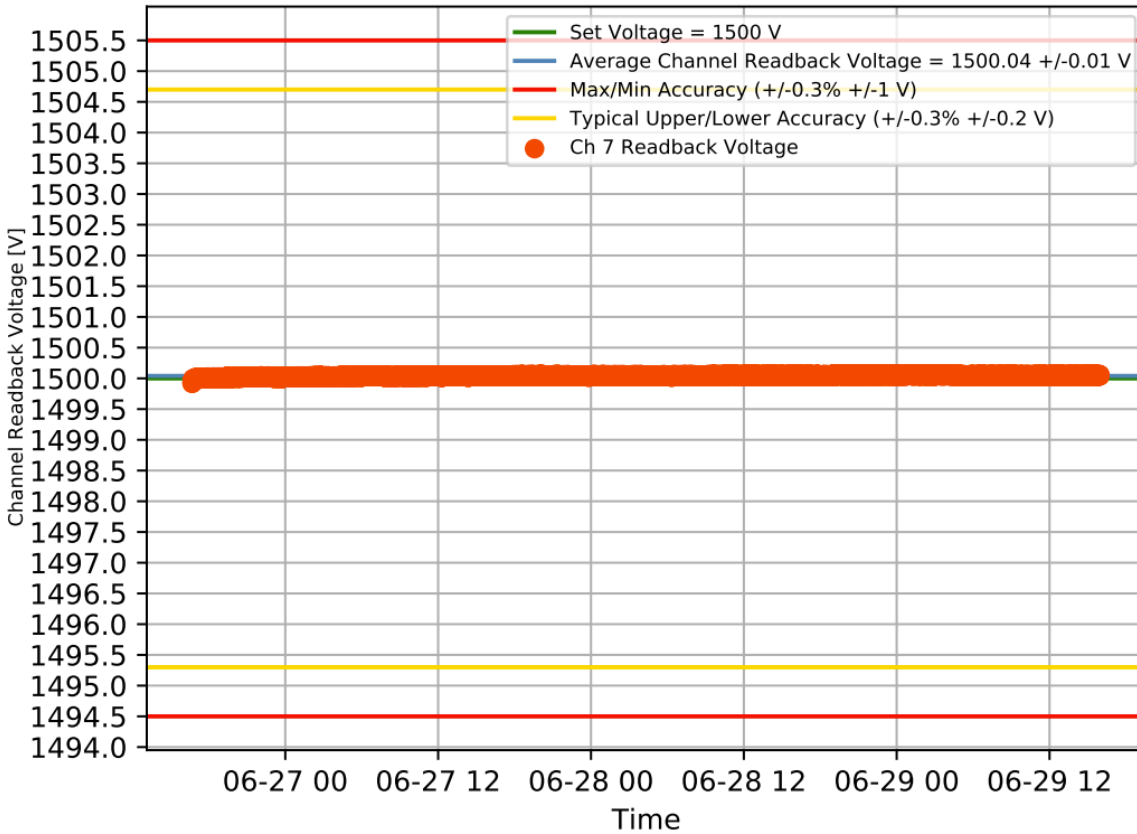
1. 340 of 600 foils completed (~57%)

4. MariaDB Database Development

Aaron Brown, Pablo Campero, Brian Eng, George Jacobs

1. Discussed development of Python program to generate voltage stability by channel plots
 - Program generates plots and automatically saves them as pdfs
 - Tyler Lemon will provide information on how to change the size and location of the plot legend

Stability Test 1500 V [With Load]: Trial #1, Crate #2, Slot #9, Board #309
Duration of Test (H:M:S) = 2 days, 23:15:36



2. Discussed response from Marty Wise about options for DSG database
 - Will investigate DocDB option