

DSG-NPS R&D Meeting Minutes

Date: November 02, 2021

Time: 11:00 AM – 12:00 PM

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

1. Reviewed 10/26/2021 R&D Meeting minutes

DSG

1. Link for details: [10/26/2021 DSG-NPS R&D Meeting Minutes](#)

2. Reviewed 10/28/2021 NPS Collaborators' Meeting minutes

DSG

1. Link for details: [10/28/2021 NPS Collaborators' Meeting Minutes](#)

3. Hardware Interlock System Development

Mary Ann Antonioli, Peter Bonneau, Aaron Brown

1. Reviewed list of EPICS screens to be developed using Phoebus
 - Mary Ann will start with converting the CSS-BOY screen Hall C NPS to Phoebus

4. Ansys Thermal Analysis

Aaron Brown

1. Reviewed temperature data chart for 56 front crystal array probes
 - Aaron Brown will look into whether or not the chart can show data from time = 0 s to time = 1 s
2. Discussed Ansys Python scripting capability
 - Ansys uses IronPython for scripting
 - Can be used to automate simulations and export results to text or CSV files

5. ESR Pre-shaping

George Jacobs and Mindy Leffel

1. Reviewed progress of ESR foil pre-shaping – 160 of 600 foils completed (~27%)

6. MariaDB Database Development

Aaron Brown, Pablo Campero, Brian Eng, George Jacobs

1. Reviewed progress of file conversion from PNG to PDF format for ramp and trip test plots: all ramp test plots converted; 23 of 33 modules complete for trip test plots
2. Discussed possibility of using J-Connector to enable accessing the database through DSG's website
 - Aaron Brown will reach out to David Chopard (the lab's webmaster) to see if this is possible

7. High Voltage Supply Cable testing

Peter Bonneau, Aaron Brown, Brian Eng, George Jacobs, Mindy Leffel, and Marc McMullen

1. Aaron Brown has completed the testing procedure and sent it to George Jacobs