

DSG-NPS R&D Meeting Minutes

Date: October 12, 2021

Time: 11:00 AM – 11:30 AM

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

1. Reviewed 10/05/2021 R&D Meeting minutes

DSG

1. Link for details: [10/05/2021 DSG-NPS R&D Meeting Minutes](#)

2. Hardware Interlock System development

Mary Ann Antonioli, Peter Bonneau, Aaron Brown

1. Reviewed LabVIEW Hardware Interlock Monitoring program
 - Added relative humidity readings to the *Detector Frame and Hall* tab
 - Aaron Brown will provide Mary Ann Antonioli with the relative humidity limits
2. Discussed issues with Back Crystal Zone temperature map colors, specifically with the low-low limit
 - When the randomly generated value 14.0°C appears on both the Front and Back Crystal Zone temperature maps the color for this value is incorrect on the Back Crystal Zone temperature map.
 - Brian Eng suggested using a probe on the block diagram to try and determine the cause of the issue

3. Thermal Analysis

Aaron Brown

1. Reviewed imported full-sized model of crystal array in Ansys
2. Discussed issues with meshing the model
 - Some model components have failed or obsolete mesh
 - Will try hiding troublesome model components and meshing again

4. High Voltage Supply Cable testing

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

1. George Jacobs has the high voltage supply cable test box
 - Aaron Brown will provide George with the Radiall 52-pin connector pinout and a spreadsheet to record test results