

DSG-NPS R&D Meeting Minutes

Date: October 05, 2021

Time: 11:00 AM – 11:30 AM

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

1. Reviewed 09/28/2021 R&D Meeting minutes

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1. Link for details: [09/28/2021 DSG-NPS R&D Meeting Minutes](#)

2. Reviewed 09/30/2021 NPS Collaborators' Meeting minutes

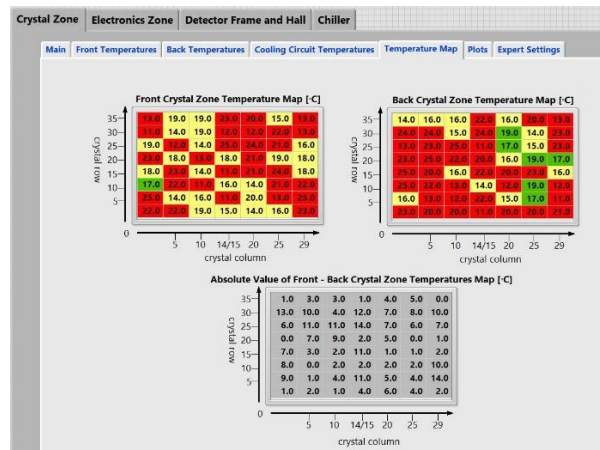
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1. Link for details: [09/30/2021 DSG-NPS Collaborators' Meeting Minutes](#)

3. Hardware Interlock System development

Mary Ann Antonioli, Peter Bonneau, Aaron Brown

1. Reviewed LabVIEW Hardware Interlock Monitoring program
 - Absolute value of difference between Front Crystal Zone and Back Crystal Zone temperatures map added to *Temperature Map* tab



Screenshot of Crystal Zone Temperature Map tab

2. Discussed Python packages for communicating with the Keysight mainframe
 - Able to communicate with mainframe using both PyVISA and Python-vxi11 packages

4. Thermal Analysis

Aaron Brown

1. Reviewed imported full-sized model of crystal array in Ansys
2. Discussed issues with meshing the model

5. High Voltage Supply Cable testing

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

1. Mindy Leffel has finished fabricating the test enclosure; will deliver to George Jacobs so that he can begin testing