

DSG-NPS R&D Meeting Minutes

Date: August 17, 2021

Time: 11:00 AM – 12:15 PM

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

1. Reviewed minutes from 08/11/2021 DSG-NPS R&D meeting

DSG

1. [08/11/2021 DSG-NPS R&D Meeting Minutes](#)

2. Reviewed latest iteration of task work schedule for FY2022

Peter Bonneau, Aaron Brown

1. *Testing and Commissioning* sections will be added

3. Hardware Interlock System Development

Mary Ann Antonioli, Peter Bonneau, Aaron Brown

1. Discussed *Temperature Map* tab for LabVIEW Hardware Interlock Monitoring program
 - Need to add an *x*- and *y*-axis with row and column labels
 - Colored blocks will display average temperature of each sensor
2. Reviewed modifications to LabVIEW Keysight scanning program
 - An additional multiplexer will be purchased
 - A spreadsheet will be developed showing exactly what sensors are connected to each multiplexer (based on a seven multiplexer configuration instead of six)

4. Thermal analysis and Ansys simulation

Aaron Brown

1. Reviewed slides that detailed how the PbWO_4 crystals and the PMTs are arranged in the detector
2. A semi-log plot will be generated showing watts vs temperature

5. HV supply cable testing

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

1. Testing of cable #40 with Radial connector on one end and flying leads on the other
 - The DSG list has been approved
 - Banana plugs needed to complete test setup
 - A testing procedure will be written