

DSG-NPS R&D Meeting Minutes

Date: October 19, 2021

Time: 11:00 AM – 12:05 PM

Attendees: Aaron Brown, Pablo Campero, George Jacobs, Mindy Leffel, Tyler Lemon, Marc McMullen, and Amrit Yegneswaran

1. Reviewed 10/12/2021 R&D Meeting minutes

DSG

1. Link for details: [10/12/2021 DSG-NPS R&D Meeting Minutes](#)

2. Thermal Analysis

Aaron Brown

1. Reviewed simulation completed using full-scale model (no crystal wrapping, no polyethylene plate, and no insulating foam) of crystal array
2. Discussed conducting a time-lapse simulation to show how temperature of central crystal changes over time
3. Discussed development of a Python program to generate quiver plots for crystal temperatures

3. High Voltage Supply Cable testing

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

1. Two tests will be conducted: one for a short cable (~6') and one for a full-length cable (140')
2. Aaron Brown will provide George Jacobs with a spreadsheet to record test results

4. ESR Pre-shaping

George Jacobs and Mindy Leffel

1. Aaron Brown will reach out to Vladimir Berdnikov to check quality of completed films