

## DSG-NPS R&D Meeting Minutes

**Date:** October 26, 2021

**Time:** 11:00 AM – 12:07 PM

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

### 1. Reviewed 10/19/2021 R&D Meeting minutes

*DSG*

1. Link for details: [10/19/2021 DSG-NPS R&D Meeting Minutes](#)

### 2. Thermal Analysis

*Aaron Brown*

1. Reviewed first attempt at a transient thermal simulation completed using full-scale model (no crystal wrapping, no polyethylene plate, and no insulating foam) of crystal array
  - Discussed why transient simulation looked identical to the static simulation – heat load needs to increase over time
2. Discussed adding 112 temperature probes to static thermal analysis
  - Probes will be placed in the same locations as temperature sensors

### 3. ESR Pre-shaping

*George Jacobs and Mindy Leffel*

1. Reviewed progress of ESR foil pre-shaping – 110 of 600 foils complete (~16%)

### 4. High Voltage Supply Cable testing

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

1. Reviewed spreadsheet for high voltage supply cable testing results
  - Sections for baseline measurements will be added – no cable connected and cable connected, but no voltage
2. Aaron Brown will write a formal testing procedure
  - Five seconds per voltage setting will be sufficient to test voltage readback