

DSG-NPS R&D Meeting Minutes

Date: April 05, 2022

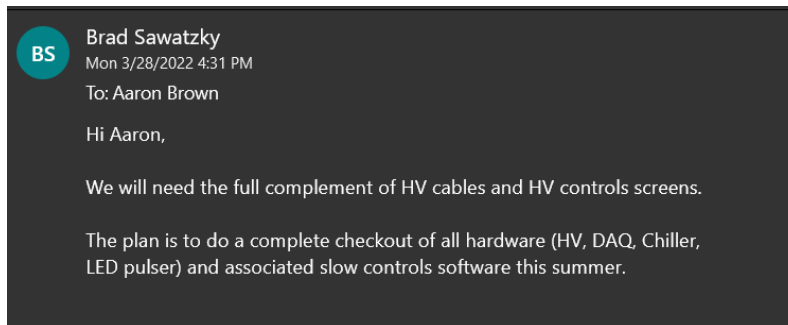
Time: 02:00PM – 03:00PM

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

1. Hardware Interlock System Development

Mary Ann Antonioli, Peter Bonneau, Aaron Brown, and Tyler Lemon

1. Reviewed response from Brad Sawatzky regarding items needed from DSG for detector assembly/testing this summer

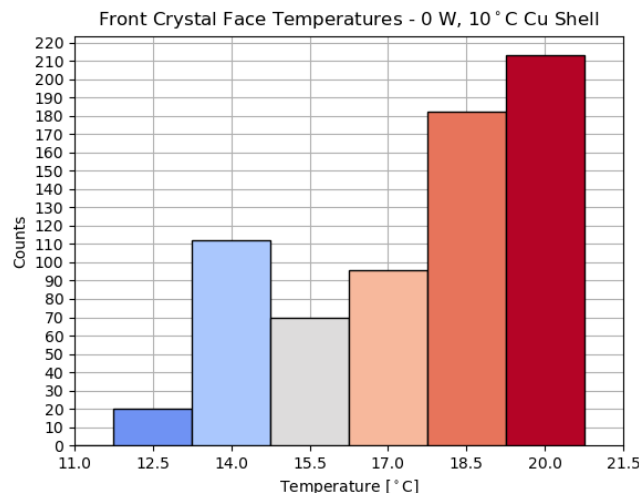


2. Reviewed hardware interlock LabVIEW program
 - Code for initialization, Keysight scanning, and averaging in development
 - For Keysight scanning, sensor enables Boolean buttons need to be added to remove multiplexer channels from scan list

2. Ansys thermal analysis

Aaron Brown, Pablo Campero, and Brian Eng

1. Reviewed histogram and lego plots generated for front crystal face temperature data exported from Ansys crystal zone thermal simulation
 - Question raised about accuracy of 14°C counts; will try increasing the number of bins



Histogram of front crystal face temperatures from Ansys thermal simulation