

DSG-NPS R&D Meeting Minutes

Date: August 08, 2023

Time: 02:00 PM – 02:45 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. Debugging thermal readback and chiller controls

Mary Ann Antonioli, Aaron Brown, and Brian Eng

1. Discussed problem with temperature setpoint readback for both the crystal zone and electronics zone chillers
 - Still awaiting response from chiller manufacturer Boyd; cannot find a phone number

2. Detector installation/checkout

1. Detector frame humidity sensors and RTDs will be installed by Hall C techs; no date set
 - A power distribution box will be fabricated by DSG to supply 5 V to the humidity sensors as there is no rack in the shielded area; Mindy Leffel has all components
2. Reviewing and revising troubleshooting guide and operation manuals; will post to the website when completed
3. NPS plans to flow dry air through the detector
4. High voltage board rewiring in progress; 9/30 completed

3. Ansys transient thermal simulation analysis

Aaron Brown

1. Redoing transient analysis plots; curve fitting in progress – log fit and polynomial fit