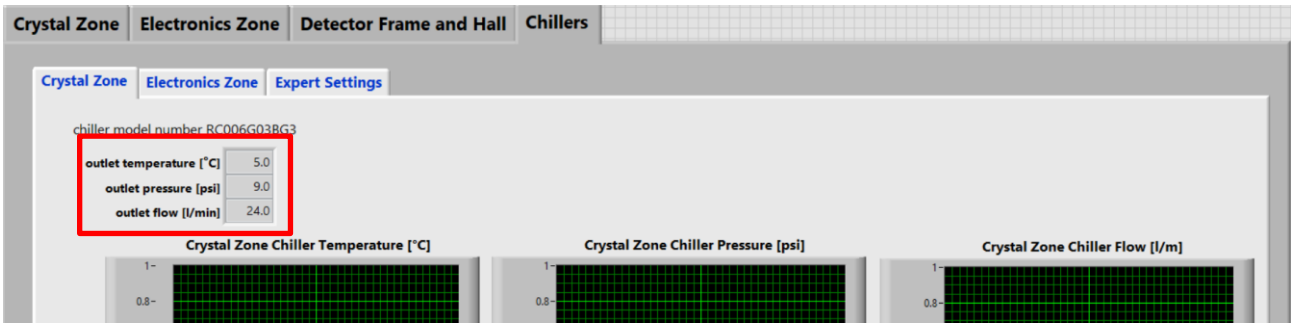
DSG-NPS R&D Meeting Minutes

Date: January 25, 2022
Time: 02:00PM – 02:55PM

Attendees: Mary Ann Antonioli, Aaron Brown, Pablo Campero, Brian Eng, Mindy Leffel, and Amrit Yegneswaran

1. **Hardware Monitoring Program Development**
   Mary Ann Antonioli, Peter Bonneau, and Aaron Brown
   1. Discussed changing methods of alerting users to fault conditions for Overview Phoebus screen
      - Flashing LEDs are not supported by Phoebus
      - Will investigate using different colors and shapes for different states/conditions (e.g., a green circle for ON, a red square for OFF, and a yellow triangle for FAULT)
   2. Reviewed Chiller tabs for hardware monitoring LabVIEW program
      - "outlet" will be changed to "supply"



Screenshot of crystal zone chiller tab from hardware monitoring LabVIEW program

2. **Hardware Interlock System Development**
   Mary Ann Antonioli, Peter Bonneau, and Aaron Brown
   1. Reviewed spreadsheet detailing LabVIEW subVIs to be developed for hardware interlock system
   2. Installing additional thermocouples in Keysight terminal blocks (32 of 112 installed)
   3. Reviewed Python code being developed to read out temperature and voltage signals from Keysight mainframe

3. **Ansys Thermal Analysis**
   Mary Ann Antonioli, Aaron Brown, and Brian Eng
   1. Reviewed Python code developed to parse analysis results
      - Code prints only the temperature probe values to screen without header information

4. **ESR Pre-shaping**
   Aaron Brown, George Jacobs, and Mindy Leffel
   1. Pre-shaping complete

5. **High Voltage Supply Cable Testing**
   Aaron Brown, George Jacobs, Mindy Leffel, and Marc McMullen
   1. Completed testing of 140' cable
   2. Three channels (#10, #25, and #28) had over-voltage issues; channels need to be retested