

DSG-NPS R&D Meeting Minutes

Date: February 08, 2022

Time: 02:00PM – 03:30PM

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

1. Hardware Monitoring Program Development

Mary Ann Antonioli, Peter Bonneau, and Aaron Brown

1. Discussed development of CSS Phoebus version of hardware monitoring LabVIEW program
 - A process diagram will be generated detailing communication paths between Keysight mainframe, LabVIEW, and EPICS process variables

2. Hardware Interlock System Development

Mary Ann Antonioli, Peter Bonneau, and Aaron Brown

1. Reviewed modifications to Keysight scanning LabVIEW program
 - Removed large *All Keysight Channels* array (~200 elements); sensor values are sent directly to array used by hardware monitoring program
 - Included while loop so program will run continuously
2. Reviewed LabVIEW subVIs created to communicate with the Kodiak chillers – all nine device drivers have been created
 - Test program in development
3. Installing additional thermocouples in Keysight terminal blocks (66 of 112 installed)
4. Discussed development of LabVIEW User Interface program
 - Thermocouple locations will be labeled using crystal number as in hardware monitoring program