

## DSG-NPS R&D Meeting Minutes

**Date:** April 19, 2022

**Time:** 02:00PM – 03:15PM

*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 Interlock System Development

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

1. Reviewed detector frame sensor location proposal from Carlos Munoz
  - It is *possible* to configure channels for 2-wire and 4-wire sensors in the same multiplexer – investigating best method
2. Reviewed engineering drawing from Marc McMullen detailing DSG detector frame sensor location proposal
  - Will investigate whether there is an existing hole that can be used to route cables out of the detector frame
3. Reviewed tentative signal list; will add a location column
4. Interlock and trip delay code for hardware interlock LabVIEW program in progress
5. A spreadsheet detailing work plan for testing/assembly this summer will be generated
6. High voltage supply cable Radial connector potting – 14 of 40 complete
  - Potted cable testing will begin immediately

### 2. Ansys thermal analysis

*Aaron Brown, Pablo Campero, and Brian Eng*

1. Discussed electronics zone surface temperature calculations
2. Made modifications to streamline plot – will increase linewidth

