

DSG-NPS R&D Meeting Minutes

Date: January 12, 2021

Time: 11:00AM – 12:15 PM

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

1. CSS screen development status

- 1.1. Mary Ann Antonioli completed 846 of 1080 PMT Settings blocks on the main CSS NPS screen
- 1.2. An ON/OFF button will be added to the PMT Settings screen

2. NPS Hardware Interlock System development

- 2.1. Peter Bonneau and Aaron Brown are developing fault charts being drawn by Mary Ann Antonioli that detail how the system will handle fault conditions
- 2.2. Peter Bonneau and Aaron Brown researched humidity sensors and chose four: Ohmic Instruments' UPS-500, UPS-600, SC-500, and SC-600; Aaron Brown will submit a PR for five of each
- 2.3. Temperature scanning system development will proceed without Keysight temperature readback system since JLab no longer allows home-loan of "power" equipment
 - 2.3.1. Option: go to lab, set up equipment, and enable for remote use

3. Cable fabrication/procurement

- 3.1. First batch of SAMTEC connector pins to fabricate 140' multi-conductor cables has shipped; second batch will ship on 01/27/2021
- 3.2. CAEN Radiall 52-pin connectors have strain relief collars with loose screws
 - 3.2.1. Aaron Brown will contact Greg Kibilko for resolution
 - 3.2.2. In interim, Marc McMullen will attempt to locate appropriate screws for connectors Mindy Leffel has already assembled

4. Testing analysis

- 4.1. Mary Ann Antonioli generated ramp test plots for six CAEN HV modules, 36 channels per module, totaling 216 plots
- 4.2. Mary Ann Antonioli completed trip testing analysis spreadsheet; posted to DSG NPS Technical Documentation website