

DSG-NPS R&D Meeting

Date: September 8, 2020

Time: 11:00 – 12:05

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

1. CSS screen development status

- 1.1. An EPICS screens list has been uploaded to SharePoint; a proposal for the testing of these screens is being developed.
- 1.2. Mary Ann will be working on the voltage and current limit settings screens for each PMT
 - 1.2.1. She has completed screens for 67 of the PMTs

2. CAEN testing and data analysis

- 2.1. All stability testing with GECO 2020 has been completed
 - 2.1.1. Thirty-two were tested, two modules could not be tested due to pin issues
 - 2.1.2. Of the 32, twelve had no issues, the remaining 20 had at least one problem channel
- 2.2. Computer issues affecting stability testing with EPICS progress have been resolved
- 2.3. George will be completing all testing data analysis using Excel; 8 modules remain to be analyzed for voltage stability
- 2.4. Trip test is being developed
 - 2.4.1. One trial each for current and voltage trip tests will be conducted

3. Hardware interlock system development

- 3.1. Peter Bonneau has provided a task list for development of the hardware interlock system
- 3.2. With regards to the radiation levels, we are awaiting numbers for the detector area
- 3.3. The cable run lengths, from Brad's email, will be ~150'
- 3.4. Expect to have ~300 temperature/humidity sensors

4. Cable fabrication, procurement

- 4.1. HV divider cables fabricated: 750 of 1100
- 4.2. Status unchanged for delivery of CAEN 52-pin Radial connectors, crimper tool, and insertion/extraction tool: expected 11/18/2020

5. Voltage rating issues

- 5.1. Voltage rating issues still awaiting decision