DSG-NPS R&D Meeting Minutes

Date: January 19, 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 874 of 1080 PMT Settings blocks of the main CSS NPS screen
    1.2. Tyler Lemon and Brian Eng will assist Aaron Brown with debugging Python script, which programmatically generates CSS-BOY screen

2. NPS Hardware Interlock System development
    2.1. Aaron Brown updated fault charts of the Hardware Interlock System; will review with Peter Bonneau
    2.2. Aaron Brown submitted PR for humidity sensors to research best sensor for Hardware Interlock System
    2.3. Aaron Brown received step files for the cooling system from Carlos Munoz-Camacho for development of three-dimensional detector model

3. Cable fabrication/procurement
    3.1. Aaron Brown confirmed SAMTEC connectors' pinout with Carlos Munoz-Camacho
        3.1.1. Marc McMullen generated pinout spreadsheet; Mindy Leffel will add color coding to spreadsheet
    3.2. Aaron Brown started process to return the 12 CAEN Radiall 52-pin connectors with defective strain relief collars

4. Testing analysis
    4.1. Mary Ann Antonioli generated ramp test plots for 13 CAEN HV modules, 36 channels per module, totaling 468 plots
        4.1.1. Module #128 appears to have data points missing for some channels; module will be retested by George Jacobs