

DSG-NPS R&D Meeting Minutes

Date: January 05, 2021

Time: 11:00AM – 12:00 PM

Attendees: Peter Bonneau, Aaron Brown, Brian Eng, George Jacobs, Tyler Lemon, Marc McMullen, and Amrit Yegneswaran

1. Mary Ann Antonioli completed 770 of 1080 PMT Settings blocks on the main CSS NPS screen
2. NPS Hardware Interlock System development
 - 2.1. Peter Bonneau and Aaron Brown are developing fault charts that detail how the system will handle fault conditions
 - 2.1.1. Aaron Brown will compile list of values and instrumentation to be added to fault charts by Mary Ann Antonioli
 - 2.1.2. Fault chart 1 will be two charts—one for fan speed, coolant leaks, and high voltage safety switches, and one for heat exchanger temperatures and frame humidity
 - 2.2. For heat exchangers' temperature readback, two temperature sensors will be glued to each of the two heat exchangers in electronics zone
 - 2.3. Two [chillers](#) will be used, one for crystal zone and one for electronics zone; output temperature, pressure, and flow from chillers will be read
 - 2.4. Aaron Brown will ask Jack Segal about availability of liquid N₂ in Hall C
3. Spare Keysight temperature readout system has arrived; Aaron Brown will generate a property pass to move system to his home for LabVIEW programming of thermocouple readout
4. SAMTEC connector pins to fabricate 140' multi-conductor cables will be shipped on 01/12/2021 and 01/27/2021