

## DSG-NPS R&D Meeting Minutes

**Date:** March 23, 2021

**Time:** 11:00AM – 12:15 PM

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

### 1. HV supply cable fabrication and testing

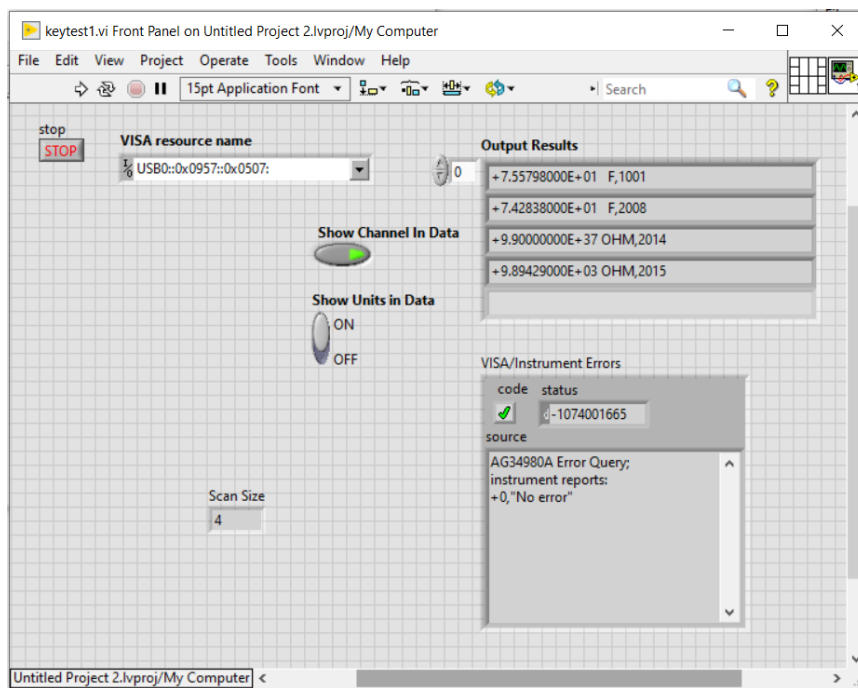
*Peter Bonneau, Aaron Brown, Brian Eng, George Jacobs, Mindy Leffel, and Marc McMullen*

1. No-load cable tests conducted by George Jacobs
  - Ran stability test over three days (03/19 – 03/22) at 2400 V; no issues noticed
  - Current monitoring test: each channel was turned off for ~15 s and the current was monitored for the neighboring channels; no issues noticed
2. Current monitoring test will be conducted again; channels will be turned off for ~5 min.
3. Aaron Brown will generate plots of stability test data

### 2. Hardware Interlock System development

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

1. Aaron Brown demonstrated a test LabVIEW sensor scanning program developed for the Keysight 34980A mainframe and 34821A multiplexer



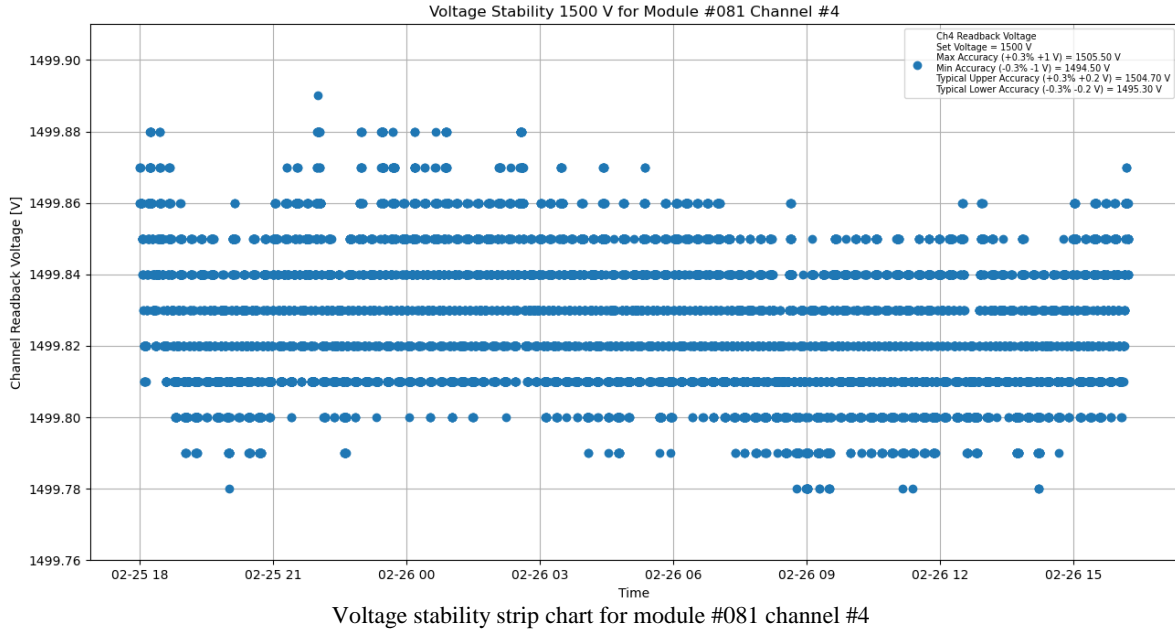
LabVIEW front panel for test sensor scanning program

2. Mary Ann Antonioli will develop the LabVIEW front panel for the prototype sensor scanning program
  - Front panel will include statistics (max/min values, std. deviation, rolling average) as well as strip chart

### 3. CAEN A1535 and A7435 Module Testing

*Mary Ann Antonioli, Aaron Brown, and George Jacobs,*

1. Mary Ann generated strip charts for all channels of all modules for voltage and current stability tests



2. Mary Ann Antonioli will upload all plots to DSG Hall C Technical Documentation webpage

### 4. V and I density plots

*Aaron Brown and Brian Eng*

1. Aaron Brown contacted computer center to have Python packages installed on George Jacobs' computer
2. George Jacobs will generate V and I density plots once packages have been installed