

DSG-NPS R&D Meeting Minutes

Date: May 18, 2021

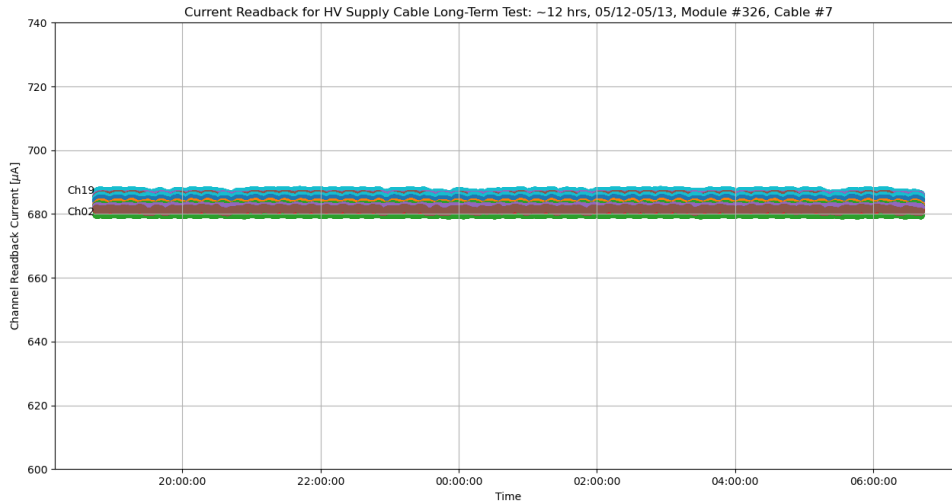
Time: 11:00AM – 12:00 PM

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

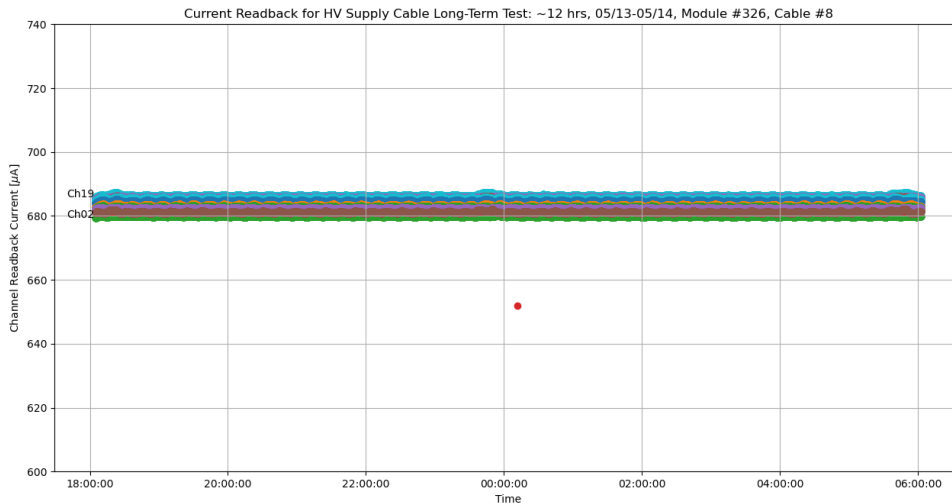
1. HV supply cable testing

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

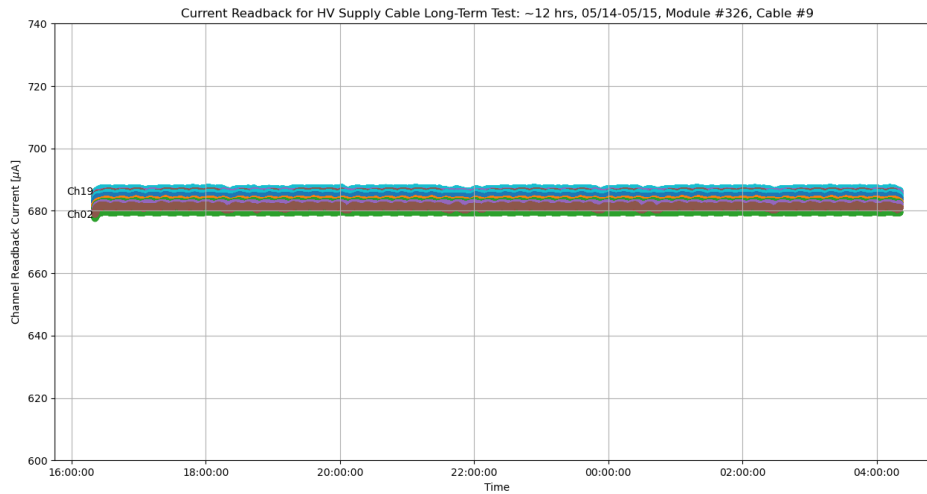
1. Reviewed plots of long-term, with load, test of cables #7 and #8 in module #326
 - Plots look the same as those done using module #184
 - The issue with channel #1, [noticed when testing cables using module #314](#), appears to be module specific
 - Module #326 will be used for all cable testing moving forward; plots will be uploaded to DSG's NPS Technical Documentation webpage



Plot for long-term test of cable #7 using module #326



Plot for long-term test of cable #8 using module #326



Plot for long-term test of cable #9 using module #326

2. Mindy Leffel fabricated cable with Radiall 52-pin connector on one end and flying leads on the other; will be used with a cable testing device to be designed and fabricated by DSG for testing cables independent of CAEN modules

2. Hardware interlock system development

Mary Ann Antonioli, Peter Bonneau, and Aaron Brown

1. Discussed procurement of sensors, instrumentation, and cabling
 - Remaining items to order include humidity sensors and various cabling/cable assemblies
2. Discussed difficulty in finding 22-awg, 50-conductor (25 twisted pairs) cable to fabricate extension cables for Keysight terminal blocks
 - Will continue searching for 22-awg cable, but 24-awg cable can be used as a backup
3. Discussed data logging and file creation in LabVIEW Keysight temperature scanning program's front panel
 - Data logging will be included as a debugging aid