

DSG-NPS R&D Meeting Minutes

Date: June 06, 2023

Time: 02:00 PM – 02:10 PM

Attendees: Mary Ann Antonioli, Aaron Brown, Pablo Campero, George Jacobs, and Mindy Leffel

1. Thermal readback

Mary Ann Antonioli, Peter Bonneau, Aaron Brown, Pablo Campero, and Tyler Lemon

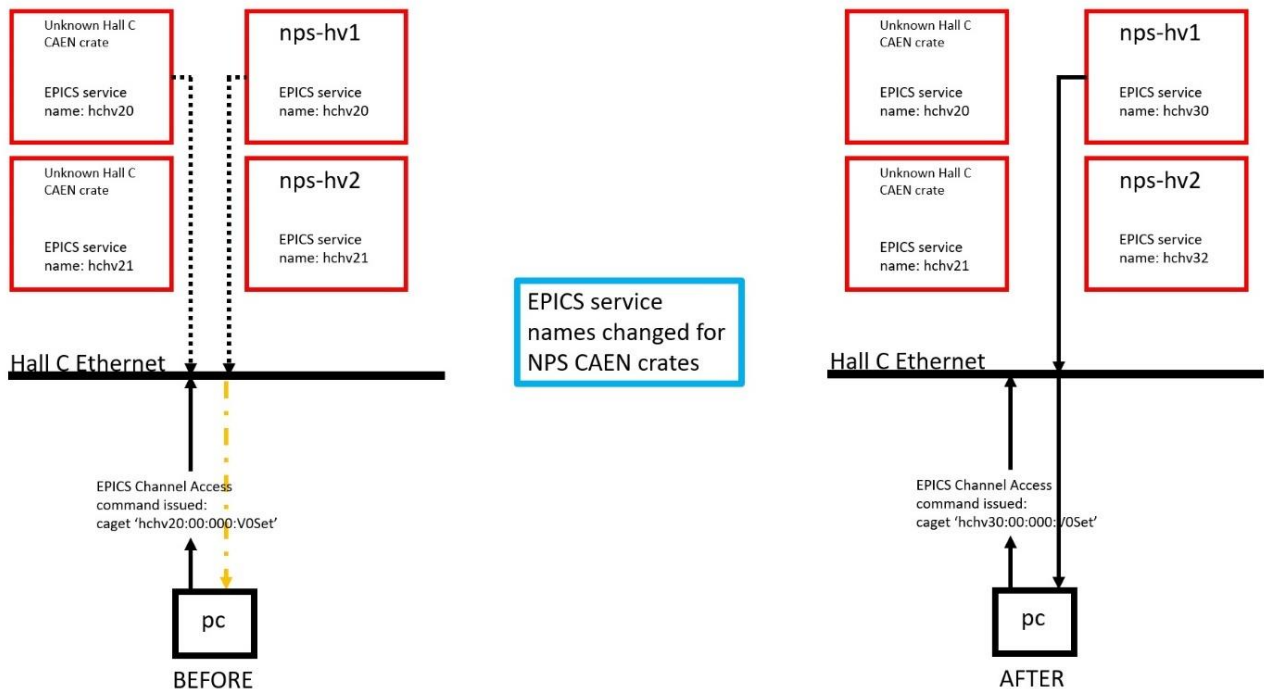
1. Mary Ann is working on changing shared variables in the LabVIEW program
 - The LabVIEW control portion is complete; the EPICS control portion is in progress

2. High voltage GUI debugging/testing

Aaron Brown

1. Debugged all six high voltage GUIs
 - EPICS service names for the two NPS crates have been changed
 - Noticed no random parameter setpoint changes
 - EPICS commands received on first issue
 - Updated PVs in all high voltage GUIs; tested and all behave as expected

Since both crates host a PV with the same name, it's never clear which crate will respond to the command



2. Submitted request to archive new high voltage PVs on OPS deployment of Mya

3. Software

Aaron Brown

1. Redid high voltage save and restore Python program (*save-restore.py*); tested on *cdaq12* and *cdaq13* computers
 - Program asks user if they want to save, or restore, high voltage settings
 - If save, a *capet* command is issued for all high voltage PVs and the results are stored in a text file with the date and time as part of the filename
 - If restore, the user is prompted for the filename, the file is parsed, and a *caput* command is issued for all high voltage PVs



```
Open [icon] hv-settings-06-01-2023_0940.txt
1 hchv30:00:000:SVMax = 800.0
2 hchv30:00:000:V0Set = 700.0
3 hchv30:00:000:RDWn = 50.0
4 hchv30:00:000:RU = 50.0
5 hchv30:00:000:IOSet = 400.0
6 hchv30:00:000:Trip = 0.10000000149011612
7 hchv30:00:001:SVMax = 880.0
8 hchv30:00:001:V0Set = 800.0
9 hchv30:00:001:RDWn = 50.0
10 hchv30:00:001:RU = 50.0
11 hchv30:00:001:IOSet = 400.0
12 hchv30:00:001:Trip = 0.10000000149011612
13 hchv30:00:002:SVMax = 825.0
14 hchv30:00:002:V0Set = 800.0
15 hchv30:00:002:RDWn = 50.0
16 hchv30:00:002:RU = 50.0
17 hchv30:00:002:IOSet = 400.0
18 hchv30:00:002:Trip = 0.10000000149011612
```

Screenshot of portion of saved high voltage settings (file name boxed in red)

4. Hardware

Aaron Brown Mindy Leffel, and Marc McMullen

1. Discussed cables to be fabricated
 - 120-ft., 9-conductor serial cables (1 remaining) – cable has arrived for remaining cable
 - 120-ft., 2-conductor relay cables (x2) – cable has arrived
 - 20-ft. LEMO cables with flying leads (x2) - **completed**