

## Hall C - CAEN A7030TN HV Module Testing Status

**Date:** 02/06/2020

**Time:** 10:00AM – 10:30AM

*Attendees: Aaron Brown, Pablo Campero, Brian Eng, George Jacobs, Tyler Lemon, Marc McMullen, Brad Sawatzky*

1. Discussion with Brad about how the CAEN crates and modules are currently used in the hall.
  - 1.1 Set voltage can be as high as 1800 V, with 0.6 mA
  - 1.2 The crate (*hvcaentest1*) that is currently used in the hall has the EPICS service disabled
    - 1.1.1. They use GECO 2020 for testing until the EPICS service issues are resolved
    - 1.1.2. There have been no complaints of random parameters changing since they have disabled the EPICS service for this crate.
2. Testing game plan
  - 2.1 DSG will conduct the same tests for both GECO 2020 and EPICS
  - 2.2 EPICS testing is most important as this is the system that will be used in the hall.
  - 2.3 DSG will also conduct hardware testing for acceptance of modules to ensure they perform according to the manufacturer's specifications.
3. Testing progress
  - 3.1. GECO 2020 appears to be working fine. We will continue testing (with and without load) to make sure there are no issues.
  - 3.2. EPICS testing has not begun yet, but we have noticed the same issue of random parameters changing during the debugging of the test code.
4. Known issues
  - 4.1. With regards to the issue of the pins getting pushed back, DSG will push to get a solid solution from CAEN tech support to fix this issue.
    - 4.1.1. Brad is not okay with using paper to prevent the pins from being pushed back.
    - 4.1.2. Need to find out from CAEN tech support what kind of epoxy can be used if potting the pins is the only solution.
  - 4.2. Regarding random parameter changes, this is unacceptable and needs to be resolved by CAEN tech support
5. Path forward
  - 5.1. Brad will email CAEN sales rep. Greg Kibilko independently to stress the importance of getting the EPICS service issues resolved.
  - 5.2. As the use of this system in the hall is dependent on the EPICS service functioning properly, if the issues cannot be resolved the crates and modules will need to be sent back to CAEN.
  - 5.3. The DSG will continue moving forward with the testing game plan for the CAEN crates and modules
    - 5.3.1. We will regularly relay any issues and progress updates to the mailing list.