

Hall C HV CS-Studio Screen Testing

Date: May 10, 2019

Time: 10:00AM – 11:00AM

Attendees: Steve Wood, Tyler Lemon

1. Tested new high voltage CSS screens.
 - 1.1. On/off control, status readback, voltage monitoring, and current monitoring worked.
 - 1.2. Screens and main menu able to be opened using an executable shell script.
2. Issues noted during testing and course of action for correction:
 - 2.1. Controls for all HMS channels' voltage set point, current trip point, ramp rates, and voltage limit do not display current value.
 - 2.1.1. HMS uses older CAEN mainframes that assigns separate control and readback PVs for each channel property.
 - 2.1.2. Screens are using the control PV, whose value was zero unless control was used.
 - 2.1.3. DSG will investigate how to display value of readback PV while retaining control functions of the control PV.
 - 2.2. Main menu is missing histograms for all HMS and SHMS channels.
 - 2.2.1. Screens created but not added to main menu screen.
 - 2.2.2. DSG will update main menu to have an option for missing screens.
 - 2.3. Path dependencies of backup/restore program and group control scripts were incorrect for execution on *cdaq11*.
 - 2.3.1. Hardcoded path values in programs needed to be updated for location of programs and files on *cdaq11*.
 - 2.3.2. After path updates, all on/off group controls worked correctly.
3. Steve Wood created *go_newhv* executable on counting house PC to open CSS screens.
 - 3.1. Use of executable on counting house PC may lead to more path dependency issues.
 - 3.1.1. Tyler Lemon will investigate and verify correct operation of screens and scripts.
4. Additional items discussed/requested:
 - 4.1. Units displayed on screens should be abbreviated format (uA rather than microAmps).
 - 4.2. Screens can be different colors rather than just grey/black/white.
 - 4.3. Python program used to create CSS screens from Tcl/Tk configuration files will be copied to *cdsg* home directory on *cdaq* PCs.