Hall C HV CS-Studio Screen Testing

Date: June 7, 2019
Time: 10:00AM – 11:00AM

Attendees: Pablo Campero, Tyler Lemon, Steve Wood

1. Second test of high voltage CSS screens.
    - 1.1. All previously working items still worked.
        - 1.1.1. On/off control, status, voltage monitoring, current monitoring, startup script.
    - 1.2. Backup GUI and script now works correctly.
        - 1.2.1. Backup took ~20 seconds (an acceptable duration).

2. Controls for voltage/current trip set points, ramp rates, and voltage limit still do not work as expected.
    - 2.1. Controls showed set point, but set points were unable to be changed.
    - 2.2. Issues are a result of older CAEN mainframes that assigns separate control and readback PVs for each channel property.
    - 2.3. Tyler Lemon will continue investigation on solution.

3. Pablo Campero showed CSS screen conversion of Hall C magnet PLC HMIs.
    - 3.1. Voltage tap monitoring and Helium and Nitrogen temperature monitoring screens complete for all magnets.
        - 3.1.1. Helium and Nitrogen temperature monitoring HMIs combined into one CSS screen to reduce total number of CSS screens and improve overall monitoring capabilities.
    - 3.2. Screens to monitor forces on magnets under development.
    - 3.3. CSS screens include all indicators and controls on PLC HMIs.
        - 3.3.1. Tags currently not in EPICS is being compiled by Pablo during CSS development as they are found.
        - 3.3.2. Reviewed list. Current totals: 105 HMS tags, 105 SHMS tags.
    - 3.4. CSS screens are converted to WEDM upon completion.
        - 3.4.1. Screens converted using DSG-developed script and moved to *epicsweb* server.
        - 3.4.2. WEDM screens viewable from https://epicsweb.jlab.org/wmenu/#HallCMenu-page
        - 3.4.3. Screens only have monitoring and no controls.

4. Additional items discussed/requested:
    - 4.1. DSG will start hardware and EPICS testing of CAEN mainframe and modules received this week.
    - 4.2. In July 2019 after summer experimental run, DSG will assist in updating firmware of CAEN mainframes to latest version.