

Hall C EPICS Project Status Report

May 15, 2019

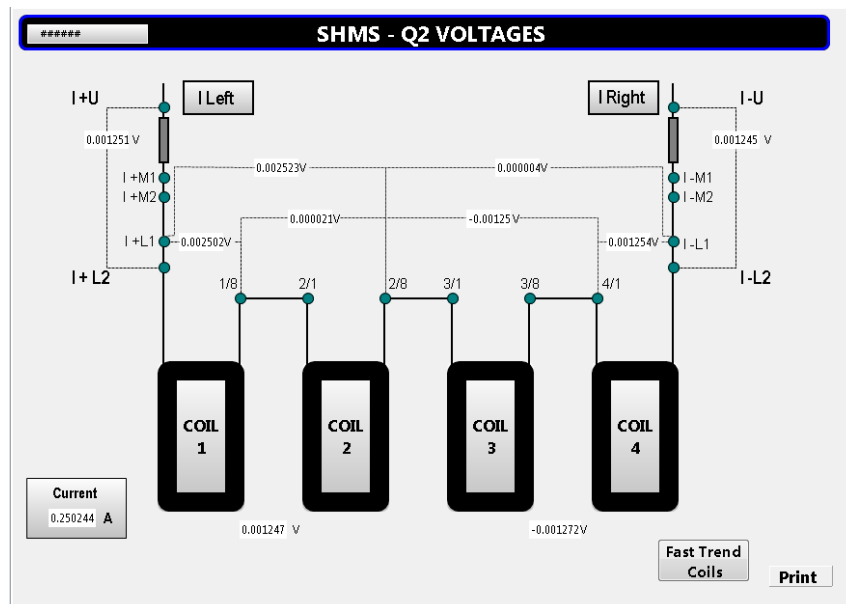
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1. HV System

- 1.1. Tested CSS screens in Hall C counting house.
 - 1.1.1. Channel power control, power status monitor, voltage monitor, and current monitor worked.
 - 1.1.2. Voltage set point control, current trip point controls, max voltage control, and ramp rates controls for HMS did not work as expected because old CAEN system uses two separate PVs for control and read-back of a channel. Investigating issue.
- 1.2. Developing Tcl/Tk-to-CSS conversion program, which uses CSS's Java packages.
 - 1.2.1. Developed scripts to display voltage and current monitoring PVs in histograms.
 - 1.2.2. Implemented template screens used with macros to display a channels' controls/monitoring widgets.
- 1.3. Modified program that generates channel map, group map, and ALH configuration file to be executable from CSS.
 - 1.3.1. Control to initiate file creation added to HV system's main menu.

2. HMS & SHMS Magnet Monitoring

- 2.1. Developed three CSS-BOY screens to monitor voltage tap measurements on SHSM Q1, Q2 and Q3.



SHMS Q2 Voltage Monitor CSS-BOY screen

- 2.2. Developed three CSS-BOY screens to plot voltage measurements over the time for SHSM Q1, Q2 and Q3.
 - 2.2.1. Found issues with plotting voltage tap signal when voltage readout has a fixed value.