

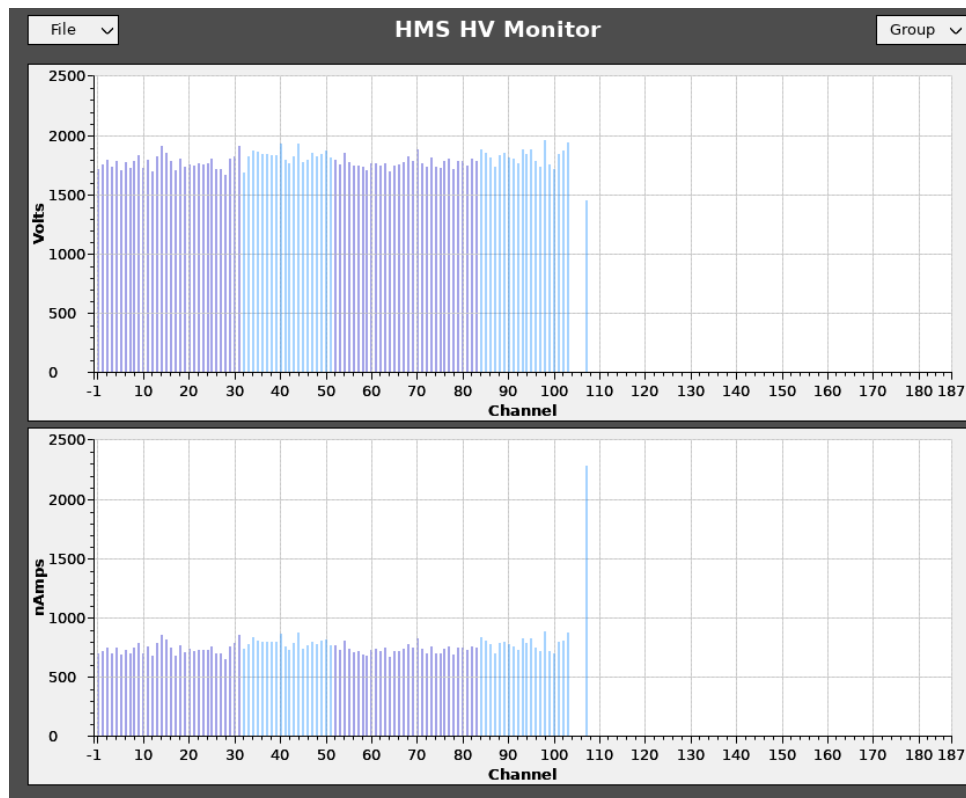
# Hall C EPICS Project Status Report

July 10, 2019

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## 1. HV System

- 1.1. Updated script that generates HV monitoring histogram CSS-BOY screens to correct bug and to include features requested by Hall C.
  - 1.1.1. Bug was causing a detector's histogram monitoring screens to be overwritten by any new, different histogram monitoring screen opened.
  - 1.1.2. Feature added to allow plots to be resized by resizing window.
  - 1.1.3. Feature added to make width of bars on histograms variable depending on the number of channels displayed.
  - 1.1.4. Histogram bars are larger for detectors with less channels, smaller for those with more.
  - 1.1.5. Feature added to histogram plot of all SHMS and all HMS channels to display groups in different colors.

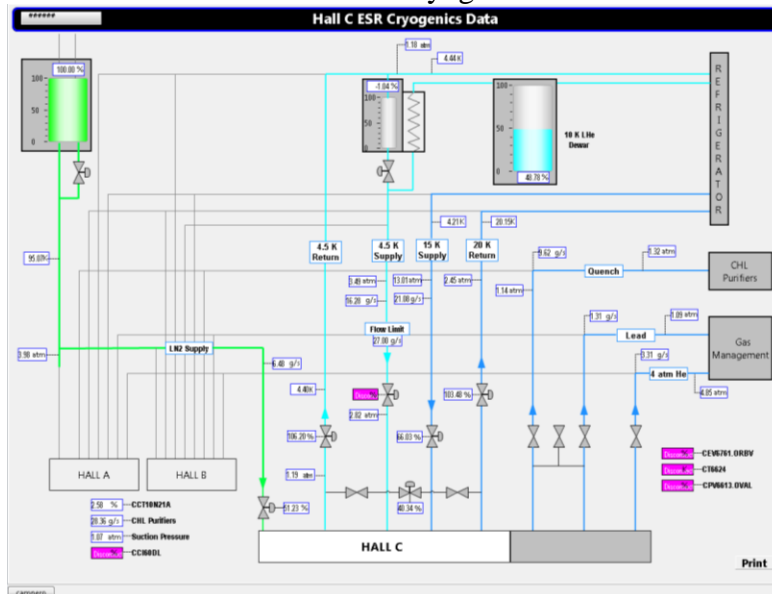


Histogram monitor for all HMS channels showing channels colored to differentiate between groups. At time of screenshot, only half of the HV channels were on.

- 1.2. Reworked Python-based backup/restore program to remove dependency on pypicups module and to remove hard-coded path dependencies.
  - 1.2.1. Channel power control, power status monitor, voltage monitor, and current monitor worked.

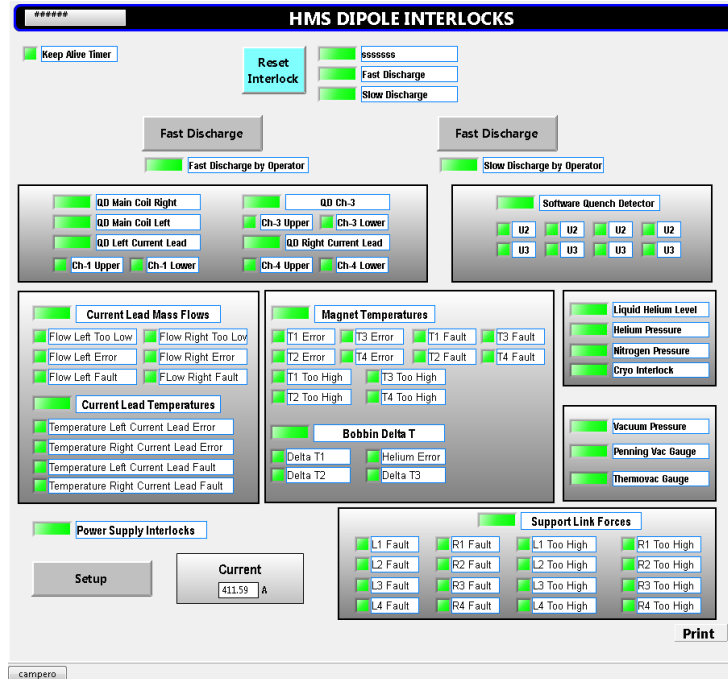
## 2. HMS & SHMS Magnet Monitoring

- 2.1. Completed CSS-BOY screen to monitor cryogenics variables from ESR to Hall C.



Hall C – ESR Cryogenics Data CSS-BOY screen

- 2.2. Developed HMS Dipole Interlock CSS-BOY screen.



Hall C – HMS Dipole Interlocks CSS-BOY screen