

Summary

Hall C EPICS

- New CAEN SY4527 mainframe set up for EPICS development and testing.
 - ★ Eight CAEN A7435SN 3.5-kV, 3.5-mA HV cards installed in mainframe.
 - ★ Able to correctly identify mainframe and HV cards using mainframe’s web control interface.
- Python script being developed to replicate TCL/TK HV screens’ Perl scripts.
 - ★ Existing TCL/TK scripts call a Perl script to generate a text file containing HV channel mapping.
 - ★ Python script will replace Perl script and be integrated into previously developed *tcl2css* program.

Hall C PLC

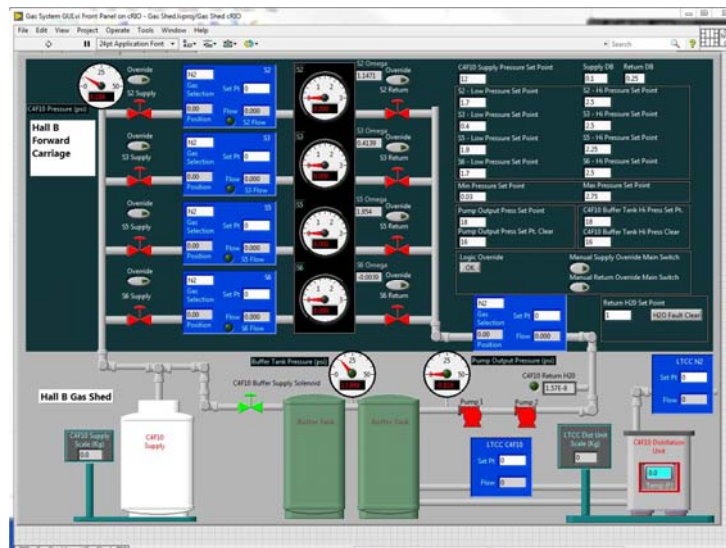
- HMS PLC system’s communication to EPICS debugged.
 - ★ Firmware version 20.058 on HMS PLC was not compatible with KEPServerEX settings.
 - KEPServerEX runs on Skylla7 Windows 7 server and acts as IOC between EPICS and PLC.
 - ★ Resolved communication errors by downgrading HMS PLC controller firmware to version 20.055.
 - Version 20.055 recommended in KEPServerEX help forum.

Hall B Magnets

- Solenoid Pre-power-up interlock checkout procedure (B00000400-P005) completed.
- Torus Pre-power-up interlock checkout procedure (B00000401-P027) completed.
- Torus FastDAQ cRIO (model 9067 cRIO) replaced with a model 9045 cRIO.
 - ★ cRIO replaced since 906X models have a history of failure.

LTCC

- PVs for LTCC “recirculation” system added to IOC and Mya.
- Gas Shed cRIO GUI updated to reflect new LTCC gas system.
 - ★ Gas Shed GUI now has same features and controls as standalone LTCC controls GUI.

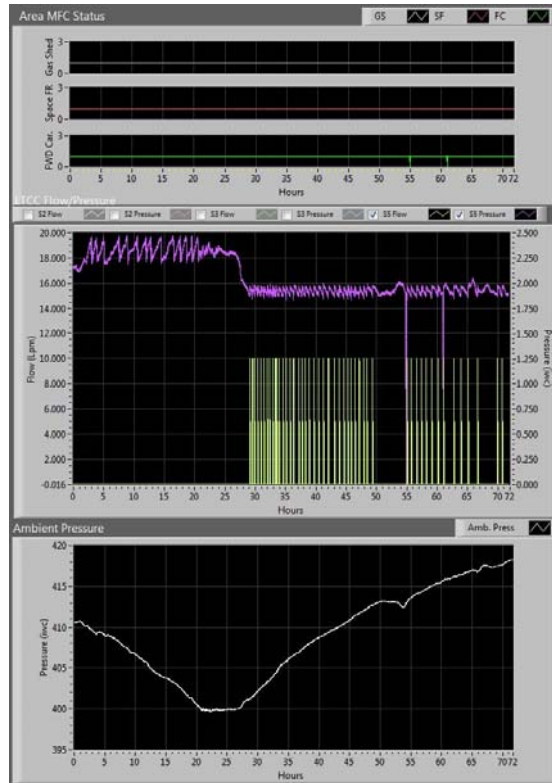


Gas Shed GUI with updated LTCC GUI.

Detector Support Group

Weekly Report, 2019-01-23

- Sector 5 filled with N₂ to 2.4 IWC on January 18, 2019 for test of new gas system controls.
 - ★ System operated as expected during large change in ambient pressure over three days.



Three graphs from the Daily Gas Report display from January 19 – January 22, 2019.
 Top: MFC status. Middle: S5 pressure (pink) and flow (green). Bottom: Ambient Pressure.

HDice

- IBC magnet quenched – solutions for high-current running under investigation.
- Oxford Instruments control module for Dilution Refrigerator failed.
 - ★ No direct replacement available from manufacturer.
- Documentation needed for the upcoming review:
 - ★ Operator's manual for the NMR system
 - ★ Equipment manuals
 - ★ Rack and RF box schematic

cRIO Test Station

- Integral nonlinearity, offset error, and automatic tests of cRIO module 9215 completed.
 - ★ All tests for module 9215 completed.

Accelerator Division

- One of six VME FSD boards for Machine Protection System populated.