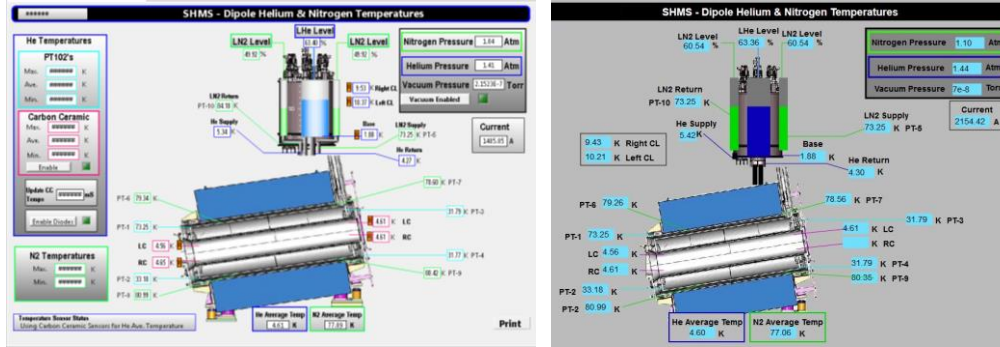


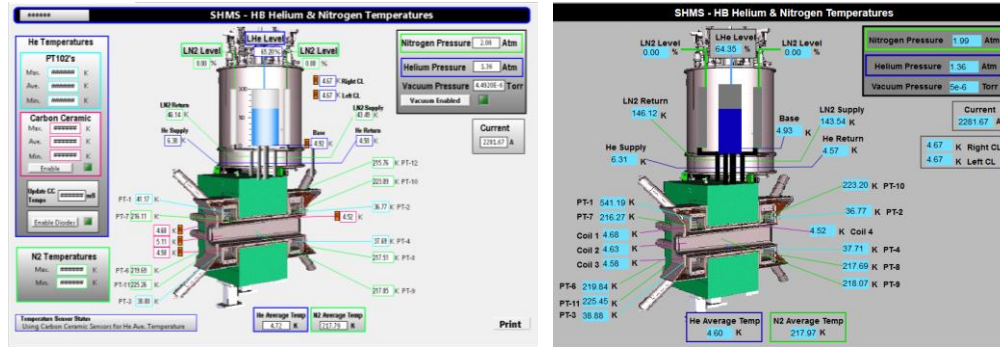
Summary

Hall C EPICS

- CSS-BOY monitoring screens developed and converted to WEDM for SHMS Dipole and HB helium and nitrogen temperatures.

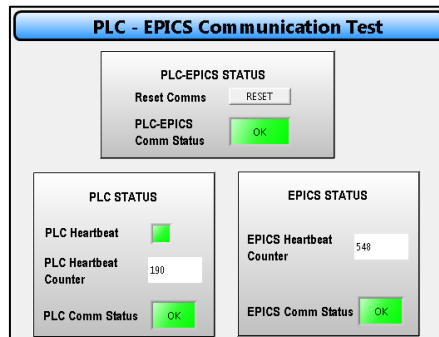


SHMS Dipole Helium & Nitrogen Temperatures
Left: CSS-BOY. Right: WEDM.



SHMS HB Helium & Nitrogen Temperatures
Left: CSS-BOY. Right: WEDM.

- SHMS cryogenic graphical monitoring screens added to Accelerator's main menu.
- CSS-BOY GUI and Python backup program developed for HV system.
- PLC program and IOC configurations successfully developed and tested to monitor SHMS/HMS PLC and EPICS heartbeats.



CSS-BOY screen for communication test between PLC and EPICS.



Detector Support Group

Weekly Report, 2019-04-10

Hall C CAEN Test Station

- Voltage verification completed for five of nine modules.
- Macros developed in Excel/VBA to generate plots of voltage set point, CAEN mainframe voltage readback, and externally measured voltage.

RICH

- Air-cooling buffer tank's pressure transducer (PT) reading has been steadily dropping from ~100 psi to ~30 psi since November 2018.
 - ★ Compressor's local output pressure readback and the local pressure gauge on buffer tank were reading ~80 psi, indicating that PT may be failing.
 - ★ Alarm/trip limits for PT lowered to avoid trips

RTPC

- Gas interface chassis received.

Hall A HCAL

- BNC-to-LEMO cables untangled, unbundled, measured, sorted, and re-bundled.
 - ★ See spotlight photo on DSG website.

Engineering Division

- About 500 components (capacitors, resistors, fuses) soldered on BPMs, completing front side of four boards.

DSG R & D

Sensiron SHT85

- Long-term DAQ study of |a single SHT85 assembly successfully completed using test program developed on NI sbcRIO-9627.

cRIO Test Stand

- For NI 9216 module, tests developed for differential nonlinearity, dynamic range, gain error, and integral nonlinearity.