

Hall B Magnets Issues – Engineering Run

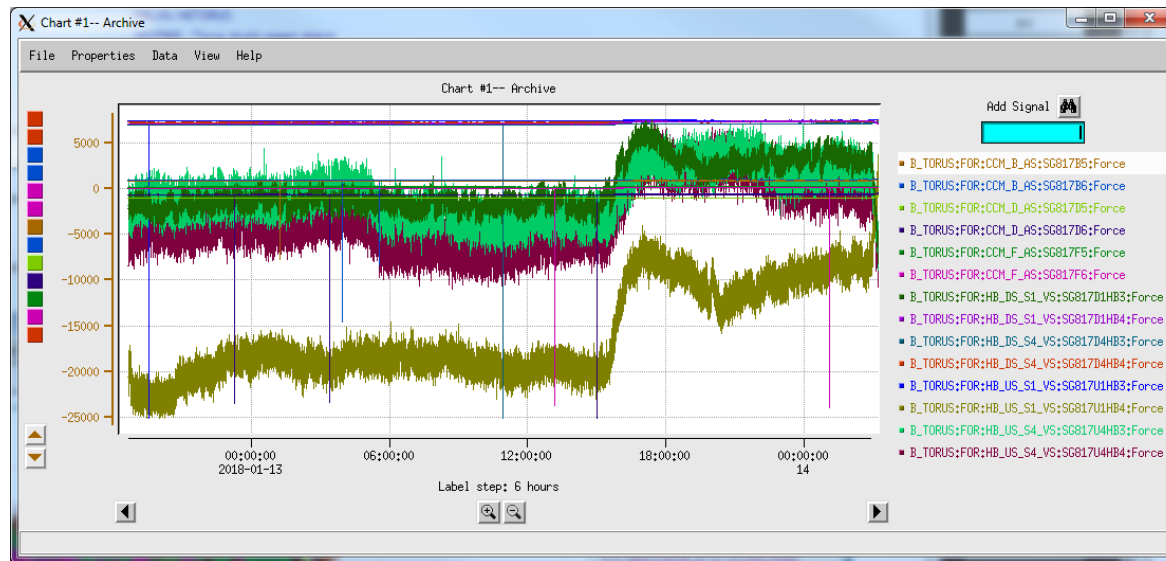
Detector Support Group

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Torus – Strain gauges issues

- On 01/13/2018 alarms raised for the CCM strain gages
 - Torus strain gauges are not interlocked only monitored
- Support strain gages indicated higher than the alarm levels.
- Solution: Reset alarms to not alarm and raised alarm limits.



Torus – Load Cell Drop Out

- On 01/14/2018 Torus load cell CCM_D:LC817D2 signal spike caused a Controlled Ramp Down when it was over its limit (~ 1058 [lbf]) for 2 [s].
 - Limit for load cell is 800 [lbf]
- Solution: Modified PLC code to evaluate as an interlock all load cells after 20 [s] of constant over threshold.

Torus – Helium Under Pressure

- On 01/14/18 Computer Aided Measurement and Control (CAMAC) problem restarted ESR Cold box, which then generated low helium supply pressure for the Torus ~ 2.3 [atm].
 - Normal ESR coming out supply pressure ~ 2.6 [atm]
 - Under pressure at PT8111 generated a Controlled Ramp Down”
- Solution: Cryogenics recover and Ramp up Torus to full current.

Conclusion

- Besides issues noted in previous slides, both Torus and Solenoid are running smoothly.