Hall B Magnets Issues – Engineering Run

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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.