

Thoughts on recommissioning the DAQ

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First checks without calo

- 1) Log into the port servers for all crates & check for boot problems
- 2) Run DVCS trigger configuration script & check for problems
- 3) Start DAQ in DVCS mode, check operation in these modes, with autovalidation
 - A) Clock trigger
 - B) Cosmic paddles
 - C) HRS EDTM/Cosmics
- 4) Do we see obvious problems (zeroes or saturation) in ADCs or ARSs?
- 5) Compare the TDCs with old data to check for timing shifts
 - A) Option: Pull cosmic paddle cables back into hut to recheck timing
- 6) Verify that all scalers (internal & external) are counting appropriately

First checks with calo

- 7) Pedestal run with PMTs connected; do we need to adjust trigger settings?
- 8) Cosmic trigger on calorimeter
- 9) LED trigger on calorimeter
- 10) Compare cosmic and LED ARS timing to old data as a proxy for checking ADC gate timing
 - A) Option: Scan the LED trigger delay to recheck the ADC gate relative to the ARS
- 11) Are all ADC/ARS pairs consistent with each other? All channels working?

First checks with beam

- 12) DVCS mode; S2M&CER trigger, calorimeter in autovalidate mode
 - A) Check gate timing signals in TDCs
 - B) Check peak position in ARS, verify position within ADC gate
- 13) DVCS mode; alternate HRS triggers
 - A) Check TDC/ARS timing
- 14) GMp mode; S2M&CER trigger
 - A) Compare FB ADC& TDC to that in DVCS mode to verify spectrometer gate timing