Electronics & DAQ Status

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(with T. Ljubicic)

DEP/ADC Boards

- Boards are in assembly
  - expected early Aug
  - 2 early articles received and tested OK
    - some minor issues -- list sent to vendor
- 5 DEP crates getting assembled in the lab
  - enclosure, power supplies, backplanes, etc.
  - expected by Aug 1
- quick Q&A plan available once the boards arrive
  - with final testing assumed to be done after installation in STAR

DEP/IO (Trigger) Boards

- we still need to complete the full setup and verification
  - lost 3-4 months so far due to COVID
  - need Bob Scheetz and TL to continue…
  - on hold until BS & TL available (Sep? Oct?)
- Trigger algorithms stalled
  - expected to pick this up later in fall/winter

FCS DAQ

- All 11 DAQ PCs installed and working
- All 22 DAQ Receiver Boards installed in the PCs
  - firmware flashed
  - devices drivers ported
  - all pass preliminary tests
    - full tests need active fibers → Sep
- 2 MIC boxes (aka fiber patch panels) installed
  - fiber patch cables purchased
- long fiber bundles purchased and waiting for installation
  - this also includes STGC fibers, NB

STGC DAQ

- 4+1 spare DAQ PCs ordered
  - expected mid-Aug
  - space in the same DAQ FCS rack available
    - power, network ready
- 4+1 DAQ Receiver Boards ordered and received
  - need firmware programming and assembly → will wait for DAQ PCs (Aug)

FCS Electronics Installation in ~Sep

- FCS rack available and in-place (see Tim's talk)
- Major components:
  - 5 DEP crates
  - TCD fanout unit (with cable to the FCS TCD already in place)
  - Network power switches for remote power control (already purchased)
  - MIC fiber patchpanel boxes (purchased)
  - ethernet
- Installation expected to be quick
  - also need to install fiber bundles and pull them to the DAQ Room PCs
- Verification and further development (firmware, software) will continue in fall/winter 2020

Summary

- generally doing well
- managed to "salvage" significant chunks of time lost due to COVID
  - Bob & TL remotely
  - Mike and Tim also but in the lab/DAQ Room as well!
- major part still left are the DEP/ADC boards Q&A once they arrive
- DEP/Trigger board system verification and final setup still on "COVID"-hold