NOvA Experiment Status

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All Experimenter’s Meeting  January 27, 2014
14 kilotons = 28 NOvA Blocks

27 blocks of PVC modules are assembled and installed in place
23.66 blocks are filled with liquid scintillator
9.18 blocks are outfitted with electronics
Far Detector Data-Taking

Cold APDs, full gain HVs
- Diblocks 1,2 – APDs w A174 original installations (some replacements)
- Diblocks 3,4t – APDs w/o A174
- Diblock 5t – APDs w A174 baked

Warm APDs, full gain HVs
- DCMs-2-05-{07-11} – APDs w A174 baked
- DCMs-2-04-{07,08} – APDs w/o A174
DAQ Uptime – Past Week

Average ~75% for the week

① Timing checks using FarDet (all day procedure)
② Normal Ash River work interruptions of DAQ
③ Water leak at Ash River early AM – ~7 hours to recover detector, but disk full substitution error in procedure keeps run from starting for additional 5 hours
Fraction of POTs Recorded

See previous slide for explanation of low periods
POT Exposure (Daily/Integrated)

- Daily (blue), Integrated (red)
- <1E18 per day average
- Total of ~5E18 POT for the week
Summary

- Cooled APDs looking good – especially those without A174 primer coating
- Working on solving problems that will increase our Uptime efficiency:
  - DSO (pedestal runs) scan times
  - Shift efficiency during APD installation (better/standard procedures)