NOvA Experiment Status

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All Experimenter’s Meeting, November 4, 2013
Far Detector Progress

NOvA Far Detector Assembly Progress
Status Date: 28OCT13

14 kilotons = 28 NOvA Blocks
23 blocks of PVC modules are assembled and installed in place
18.67 blocks are filled with liquid scintillator
4.00 blocks are outfitted with electronics
More FarDet Progress

Di-Block Status (11/04/13)

Filling block 19 (20th block) horizontals, Install APDs on di-block DCM-03-05. Swap out FEB at BLK:06, PLN:13, POS: 09

Tuesday: Begin filling block 19 verticals
DAQ Partitioning at FarDet

Partition 1

Hit rate recorded by FEB in Hz

Partition 2
**FarDet Performance**

- **DAQ Uptime**
  - Average ~90% uptime
  - Hardware work small effect on DAQ uptime

- **Fraction of POTs recorded by NOvA**
  - Hardware work doesn’t keep us from recording POTs

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![Graphs showing DAQ Uptime and Fraction of POTs recorded by NOvA](image-url)
FarDet POT Exposure

Daily and Integrated POT exposure* for last week

* POTs for 2 diblocks of fully-instrumented detector
Summary

- NDOS Prototype running smoothly, useful for testing of software/firmware/monitoring upgrades before rolling out at FarDet
- NDSBTest (Near Detector Surface Building Test) 30 APD test stand for cooling/monitoring tests of APDs
- FarDet – 2 diblocks running cold at full gain – very smooth running, 24th block (out of 28) in place, APD installation has resumed!
- NearDet – ½ of the Near Detector blocks are in place – finish in early January 2014, scintillator filling to start immediately after