

NOvA Experiment Status

All Experimenter's Meeting

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Operations I – summary



□ BEAM:

- Beam for NOvA very good.

□ NearDet:

- Very smooth running for past 3 weeks, 10 days no down time.
- Still some channels look noisier.

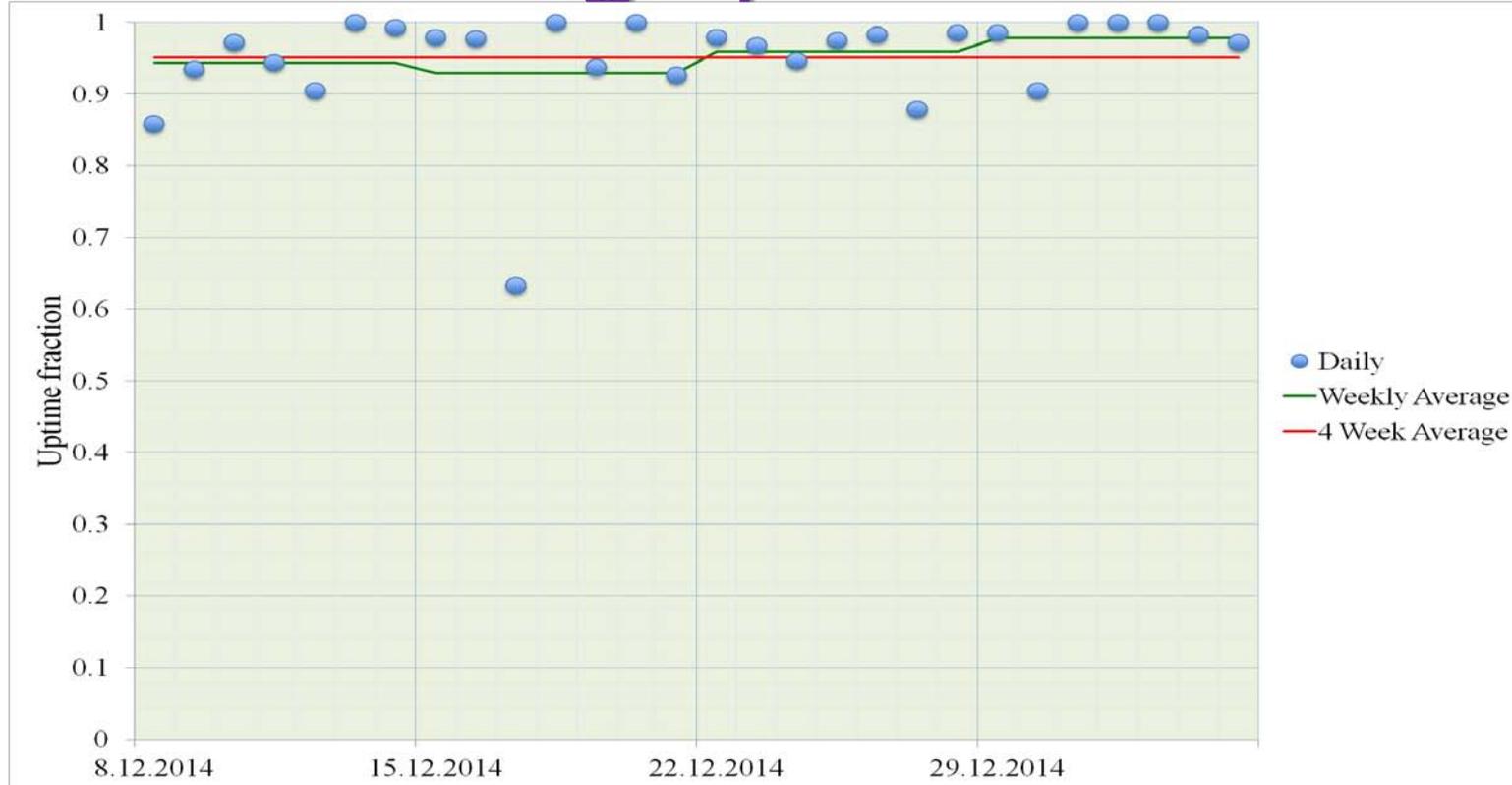
□ FarDet:

- Physics **with 14-diblocks** running **since Nov 20**.
- Still having short-term downtimes but DAQ data taking efficiency is increasing.
- The biggest concern now is stability of the Dry Gas system.
- Otherwise the detector was running stable.

□ Control Room:

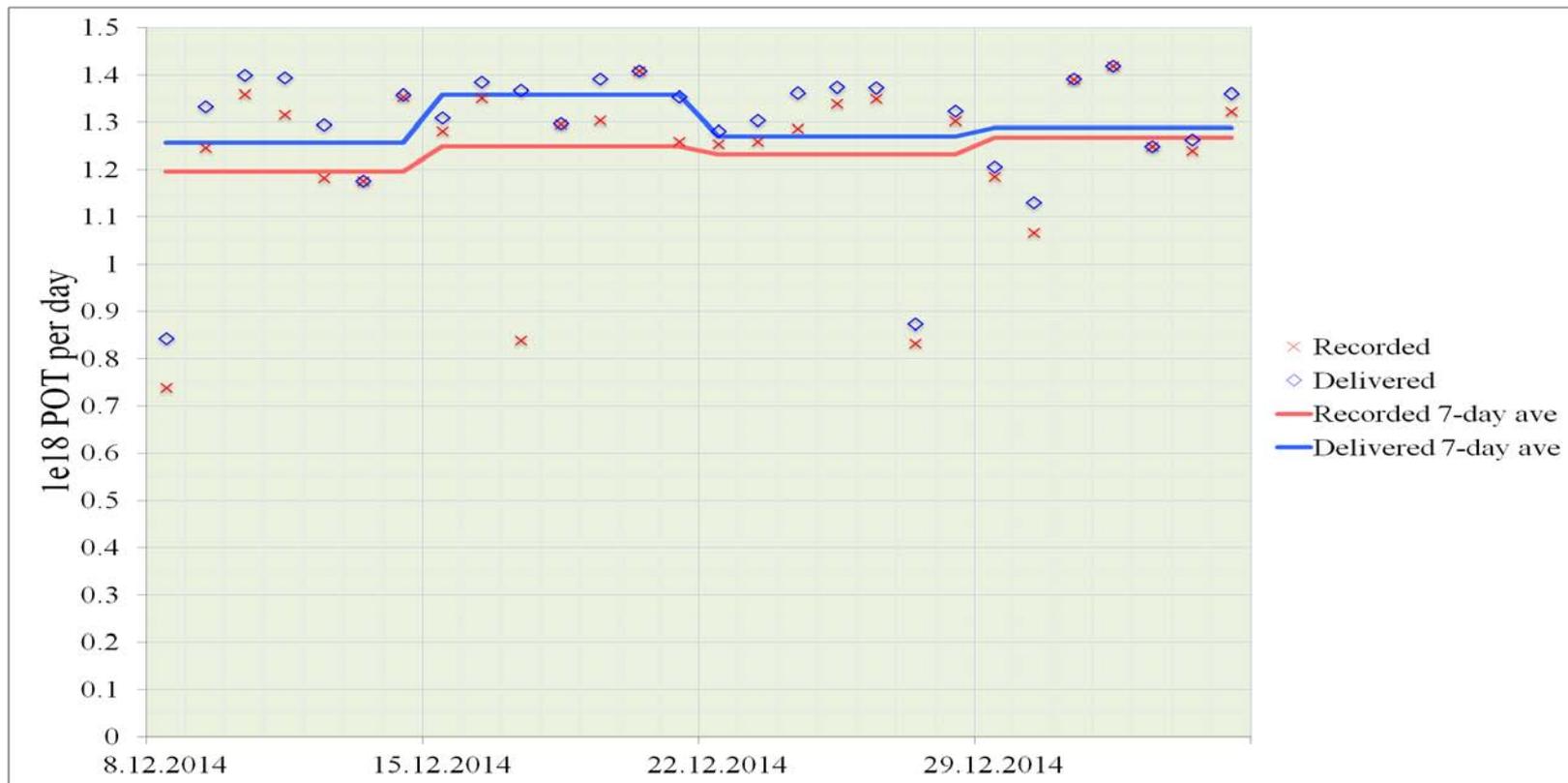
- Satisfied with R-CRs. ROC-west waiting for iFix monitoring.

FD: Data taking Uptime



- Last 3 weeks running uptimes 92.9, 95.9, 97.8% - increasing efficiency.
- The real issue (overnight Dec 17) Dry Gas system monitoring power supply failure, not system itself, anyway from safety reason all power supplies automatically shut down.
- This took down detector for 7 hours (of 13 total week downtime). We found a similar PS at Ash River and crew promptly replaced it.
- The other issues are some not understood DAQ instabilities, which have been eliminating.
- Some downtime for DAQ tests, done mainly during beam issues time periods.

FD: POTs delivered/recorded



- Past 3 weeks efficiency: 91.8, 97.0 and 98.4% ← increasing efficiency.
- Last week the second best in history related to the recorded POTs in absolute and relative values. We were running FarDet more than 3 days without any interruption.
- Some beam down times used for DAQ stability tests.
- We expect the scheduled beam shutdown in the next week for maintenance day, we need to check the Dry Gas systems and possibly to replace some electronics.

FD: Accumulated POTs



➤ 2013/14: 280/326 e18 POTs + 2014/15: 76.2/80.0 e18 POTs (95.2%)