

NOvA Experiment Status

All Experimenter's Meeting

Jaroslav Zalesak, Institute of Physics, Prague/FNAL

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Operations I – summary



□ BEAM:

- Used beam downtime for opportunistic DAQ updates.

□ NearDet:

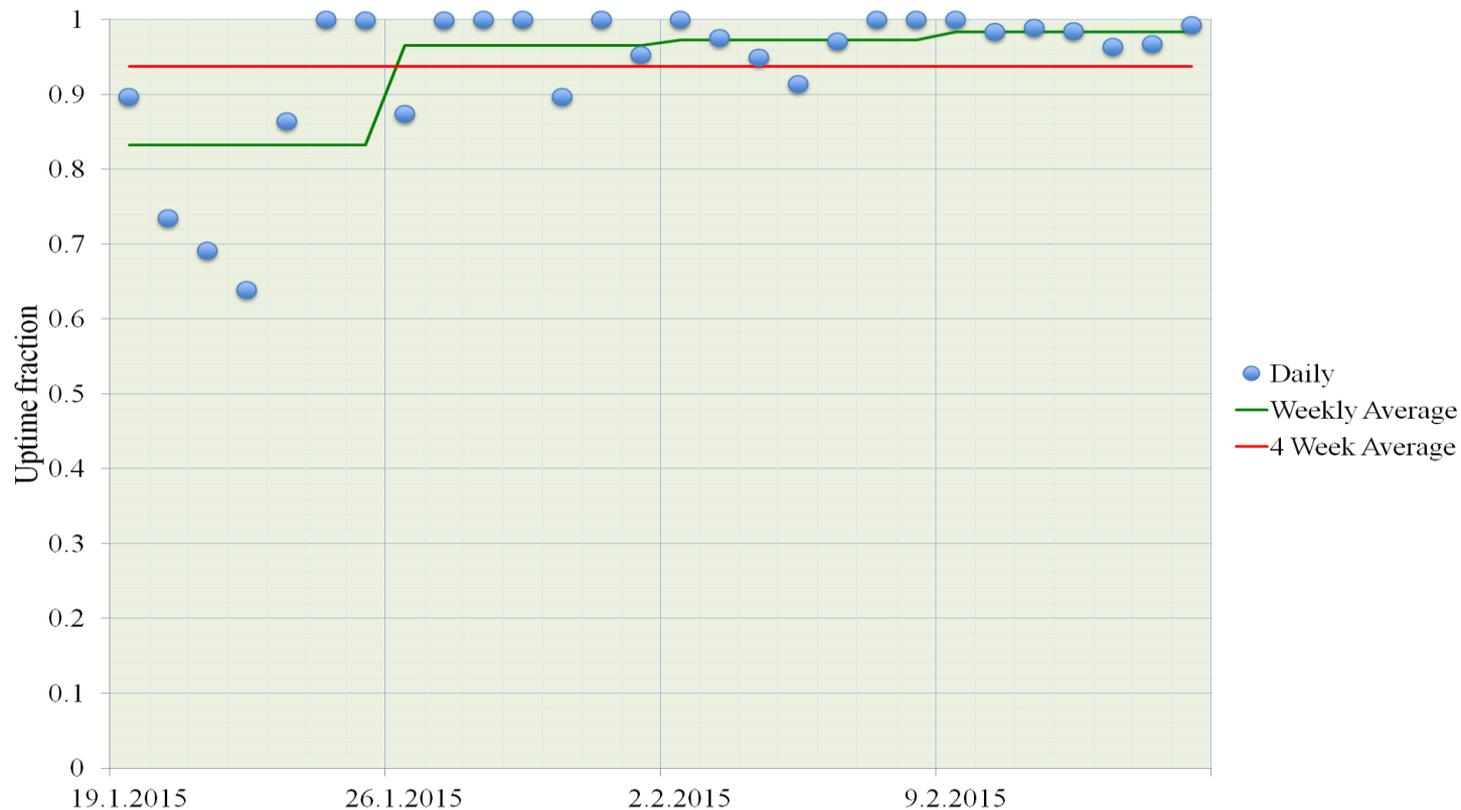
- Only small issues with short downtimes
- This week maintenance we will focus on swapping several APDs, we will use a couple of APDs same as at FarDet (no primer).

□ FarDet:

- Detector stabilized for taking beam data.
- Efficiency of keeping detector up was very high.
- Nevertheless we realized a lost of 15 hours of beam spill triggers not recorded on tapes due to still not fully understood issue in the communication of BeamSpillReceiver and Global Trigger.

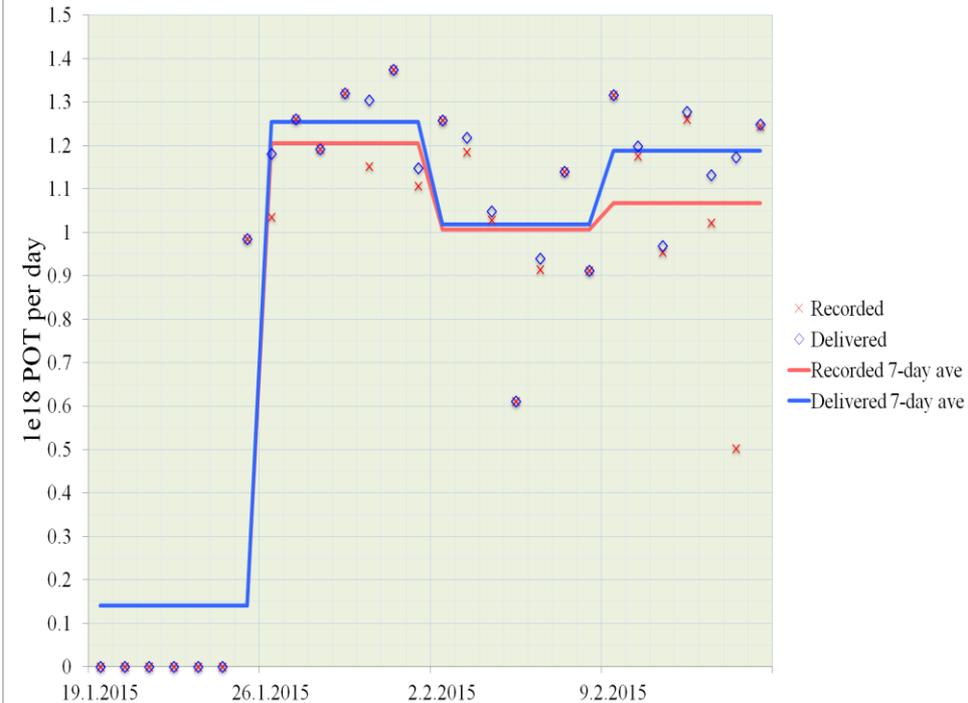
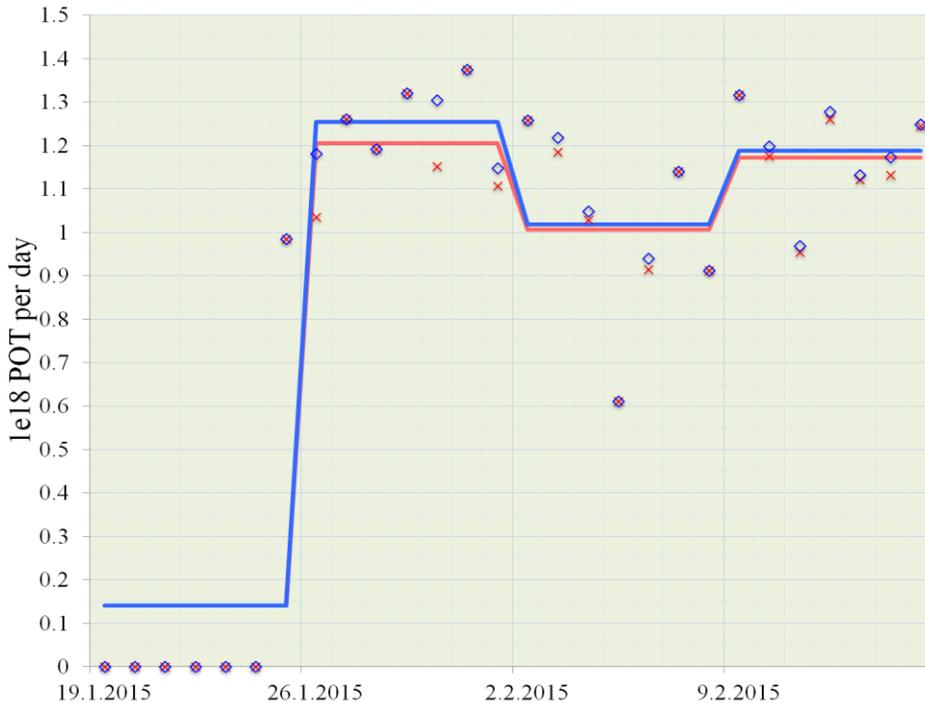
□ Control Room(s): ok

FD: Data taking Uptime



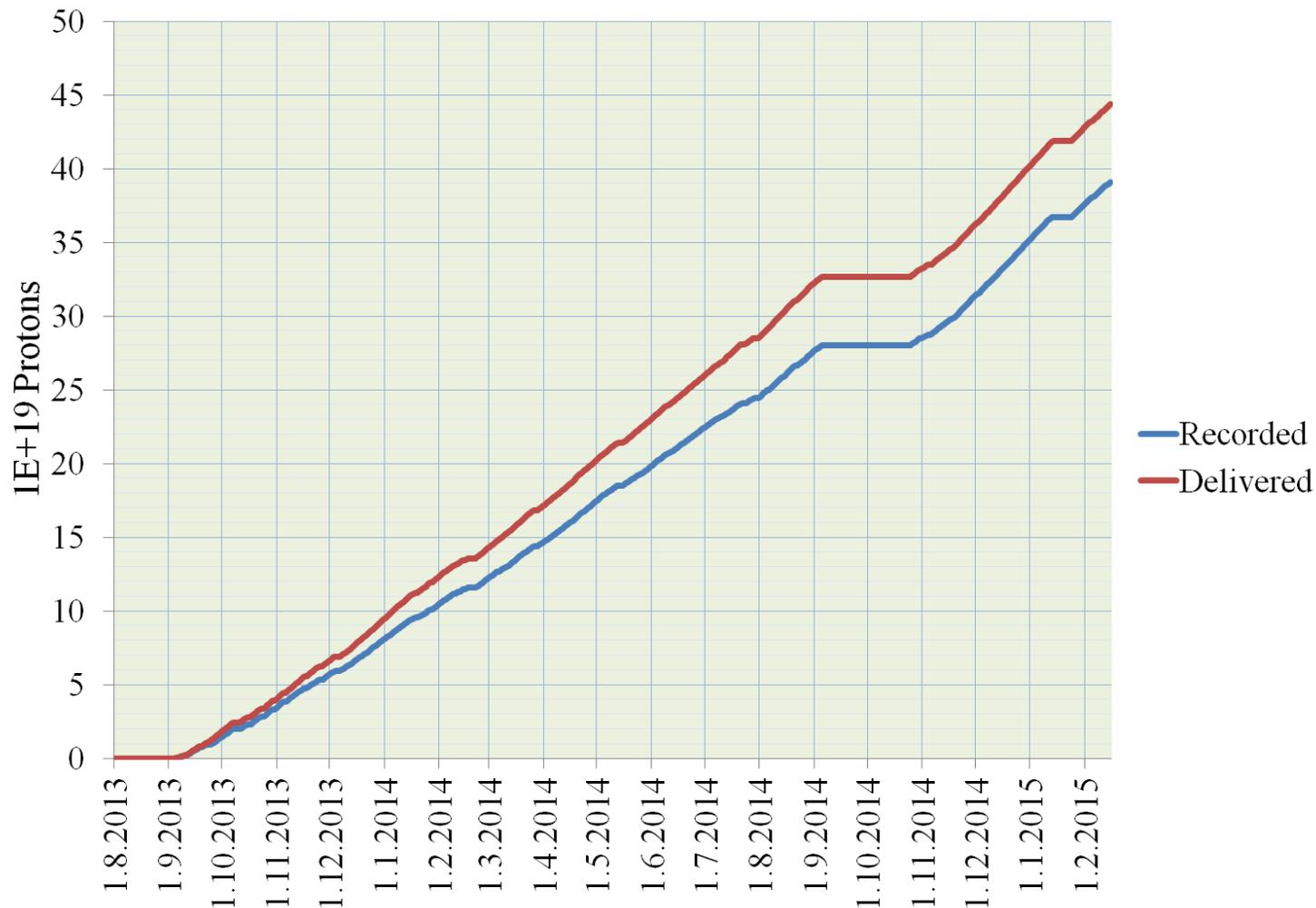
- Last week running uptimes 98.3%, very good, one of the best week for 14-kTon FD.
- There was a couple of short down times when the DAQ application manager crashed and the entire Run Control recovery must be done.
- When no other problems occur it takes 20-30 minutes.
- New code is in preparation to avoid the DAQ crashes.

FD: POTs delivered/recorded



- Past week efficiency was 90%, (7.47 of 8.31 e18 POTs).
- 9% of beam lost is due to the Beam Spill server problem.
- This issue was recognized by shifter in (Sat) morning but not noticed by 2 shifters before, even if some indicator showed everything is ok, there were other did not show that.
- There is an effort how to automatically catch this problem on different levels and encourage shifters to pay more attention to check of data quality.
- Neutrinos interactions from these beam spills might be found in other trigger streams of data (DDT channel).

FD: Accumulated POTs



➤ 2013/14: 280/326 e18 POTs (86%) + 2014/15: 111.1/117.8 e18 POTs (94.2%)