

# NOvA Experiment Status

## All Experimenter's Meeting

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# Operations – Summary



## □ BEAM:

- Getting 500+ / 550+ kW with the 6+4 slip stacking.
- Record breaking not only for NOvA. *Thank you!*

## □ NearDet:

- Pretty stable.
- 2 very shorts downtimes (5+8 min) when the Run Control crashed.

## □ FarDet: running in high gain mode (150)

- Very stable running after the full power outage recovery.
- The vast Ash River power outage recovery with full detector in the read-out and all monitoring up on Mon (2/8) morning.
- 95 hours continuous running through the weekend.

## □ Control Room(s): The stability of VNC connections from the ROCs improved. The Vidyo issues on the ROC-West site.

# Far detector



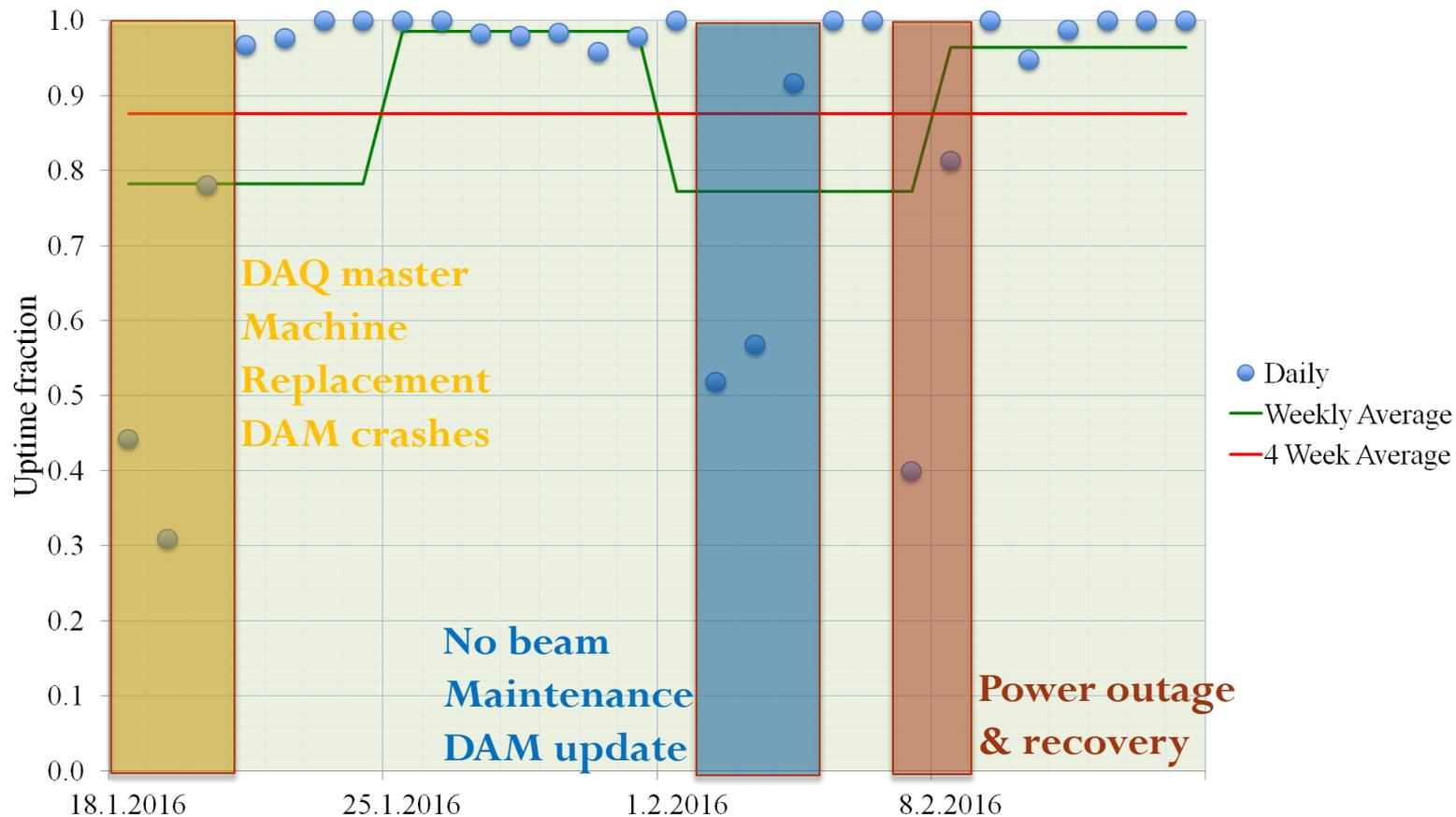
## □ DAQ crashes:

- Could not see any issues with DAQ Application manager and DataLogger after the SCD made last updates in last week.
- We were running more than week with 130+ buffer nodes, we need probably some kind optimization for the (special) DDT triggers to keep them alive 100% of time.
- Only 3 short DAQ downtimes occurred. One node crashed and Run Control had to be restarted. The other 2 were related with stops of the DAQ to update system (DDT configuration).

## □ Power outage recovery:

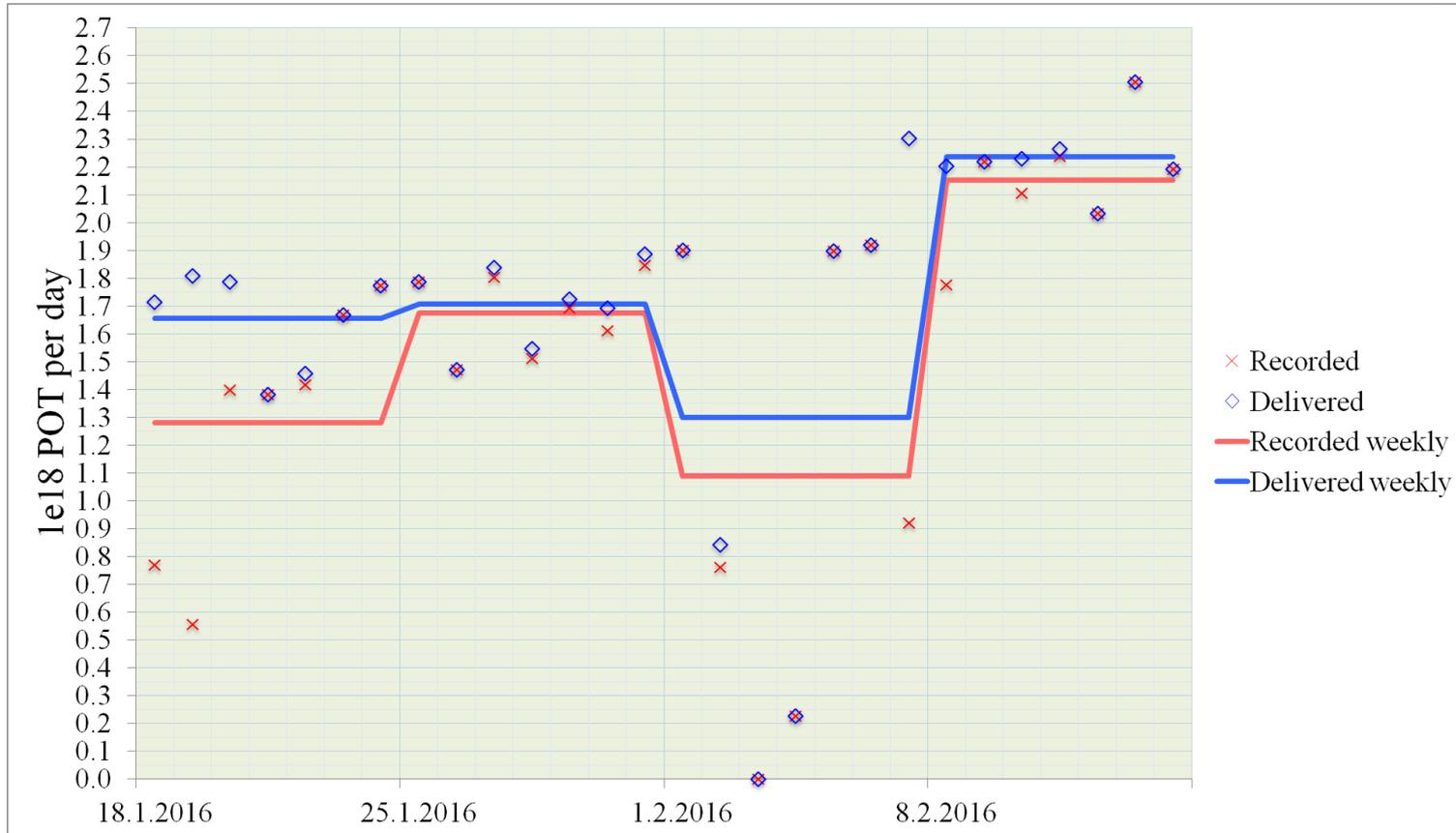
- On Mon morning (a week ago) we stopped the running to include back to the read-out the last missing dcm. We correctly restarted 2 remaining monitoring systems, TCR and Disk Watcher (includes the Spill Server monitor and auto-start).

# FD: Data taking Uptime



- We had very good last week – 96.4% uptime, in total of 6 hours down time and only 2 hours not related to the power outage.
- Actually the DAQ crash took only 1h13, the other downtimes, when we stopped the data taking, are related to the changing in the read-out and configuration.

# FD: POTs delivered/recorded



- Past week efficiency was good 96.3%, (15.07 of 15.65 e18 POTs), we recorded the record amount of the record delivered POTs in the NOvA experiment era.
- We were 100% efficient during the best day (Sat 2/13) – 2.50 e18 POTs!
- Almost 80 % of the beam loss last week still related to the power outage recovery.

# FD: Accumulated POTs – all years



➤ 2013/14: 280/326 e18 POTs (86%) + 2014/15: 298.5/312.5\* e18 POTs (95.5%) [253days]

➤ 2015/16: 137.4/1147.9 e18 POTs (92.9%) [133 days]

\*) Including 20.8e18 POTs horn-off data and 2.6e18 non-nominal horn current data.