

# PS Status 12 - 19 July

K Hanke

Users' Meeting 19 July 2018

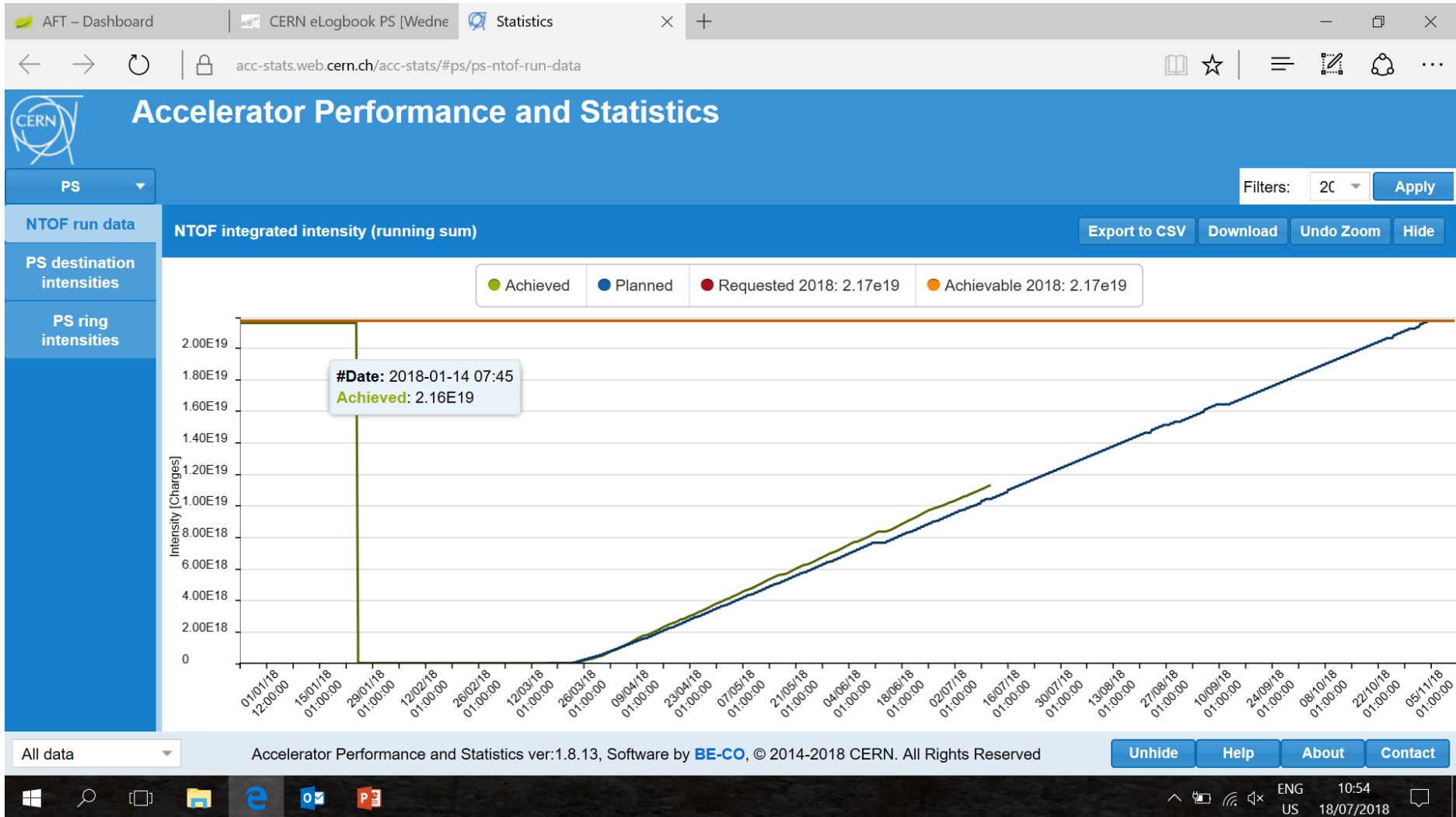
# Thursday 12<sup>th</sup> 11:00 – Thursday 19<sup>th</sup> 11:00



## **Main Issues (see FOM minutes for details...)**

- 1:44 power supply of F61S.QFO01 affecting East
- Replacement of F61 vacuum window, 2:46, replaced by aluminum, since then OK
- 30' POPS trip
- 20' Linac2 stop
- Total of 2 h RF trips due to glitches
- Number of shorter perturbations due to glitches
- PI.BSW44 38' stop
- Injectors: PSB, Linac2 a few longer stops
- Number of POPS trips (of the order 10 – 15 min); at some point the operators did not reset any more but called the Piquet, he did not find anything but since then OK
- Total of 1:28 (PSB) and 57' (Linac2)
- 30' stop to intervene in Linac2 source cage
- Huge MD program, partially dedicated

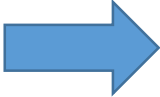
# TOF delivered POT



# New nTOF Cycle presented at MSWG 13 July

<https://indico.cern.ch/event/735644/>

## Conclusions and Next Steps

- Progress has been made on the optimization of the n-ToF cycle
  - After optimization, intensity of  $\sim 830 \times 10^{10}$  p per pulse can be reached without significant losses
  - Reduced machine radiation
  - Further optimization for higher intensities ongoing
  - Tests from PS OP to employ this cycle as the new operational n-ToF cycle
    - ☑ Check trajectories in TT2 and beam position / shape on the n-ToF target
    - ☑ Check that the bunch position at extraction (in time) is exactly the same as in the currently operational n-ToF cycle (n-ToF asks for same position in dedicated and parasitic beam)
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- Ready to be sent to n-ToF → coordinate with the n-ToF team and PS supervisor at the user meeting to switch to the new optimized n-ToF cycle
  - Timescale: about 1 week