

PS status 16 – 23 August 2018

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PS status 16th – 23rd August

- **Difficult week for the PS Complex with about 78.5% beam availability**
- Planned stop to search water leak on Thursday morning
 - **Radiation cool-down required**
 - **Leak identified in magnet unit 57, repaired in situ**
 - **10h30 downtime** in total for all beams
- Emergency stop (AUG) while powering POPS on Thursday evening
 - **AUG in building 355 cut large parts of PSB and PS equipment**
 - **Long list of issues resolved by piquets and specialists during night:**
beam transfer, controls, dumps, instrumentation, IT, power, RF, vacuum, etc.
 - **6h downtime** in total for all beams

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- No beam from Linac2 on Monday morning
 - **Tube in amplifier of debuncher cavity replaced**
 - **2h downtime** for all proton beams
- Dedicated MD on Wednesday morning
 - **Scheduled on short notice, tried to minimize impact on physics program**
 - **Injection studies penciled in during SPS vacuum problem**
 - **2h30 stop** of all beams

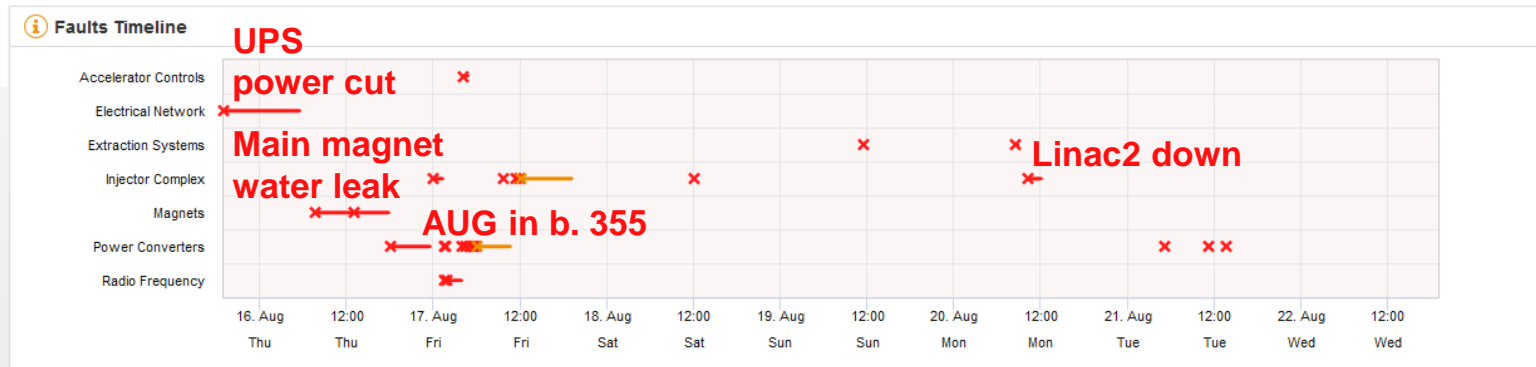
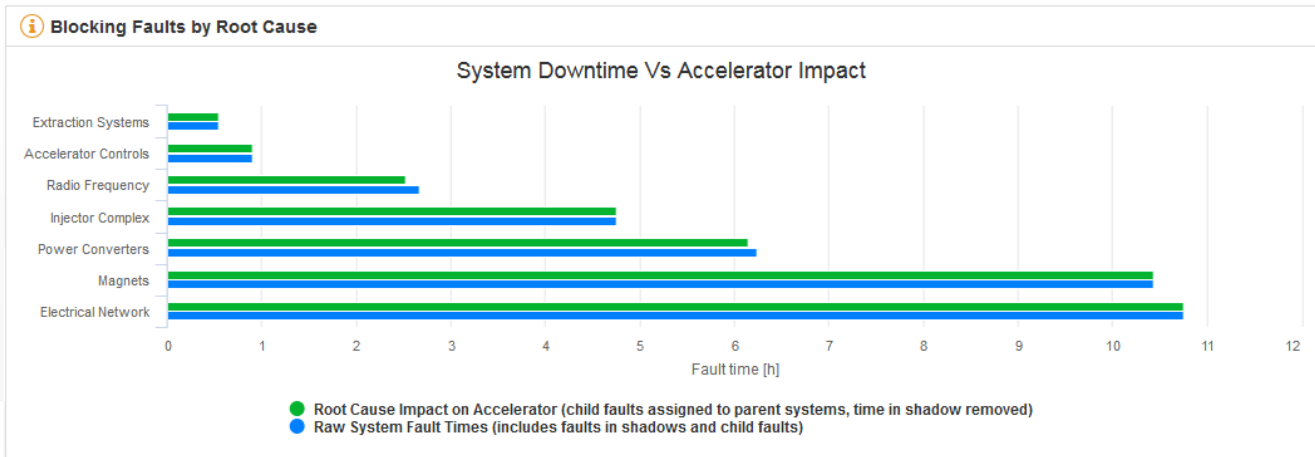
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Availability
78.5%

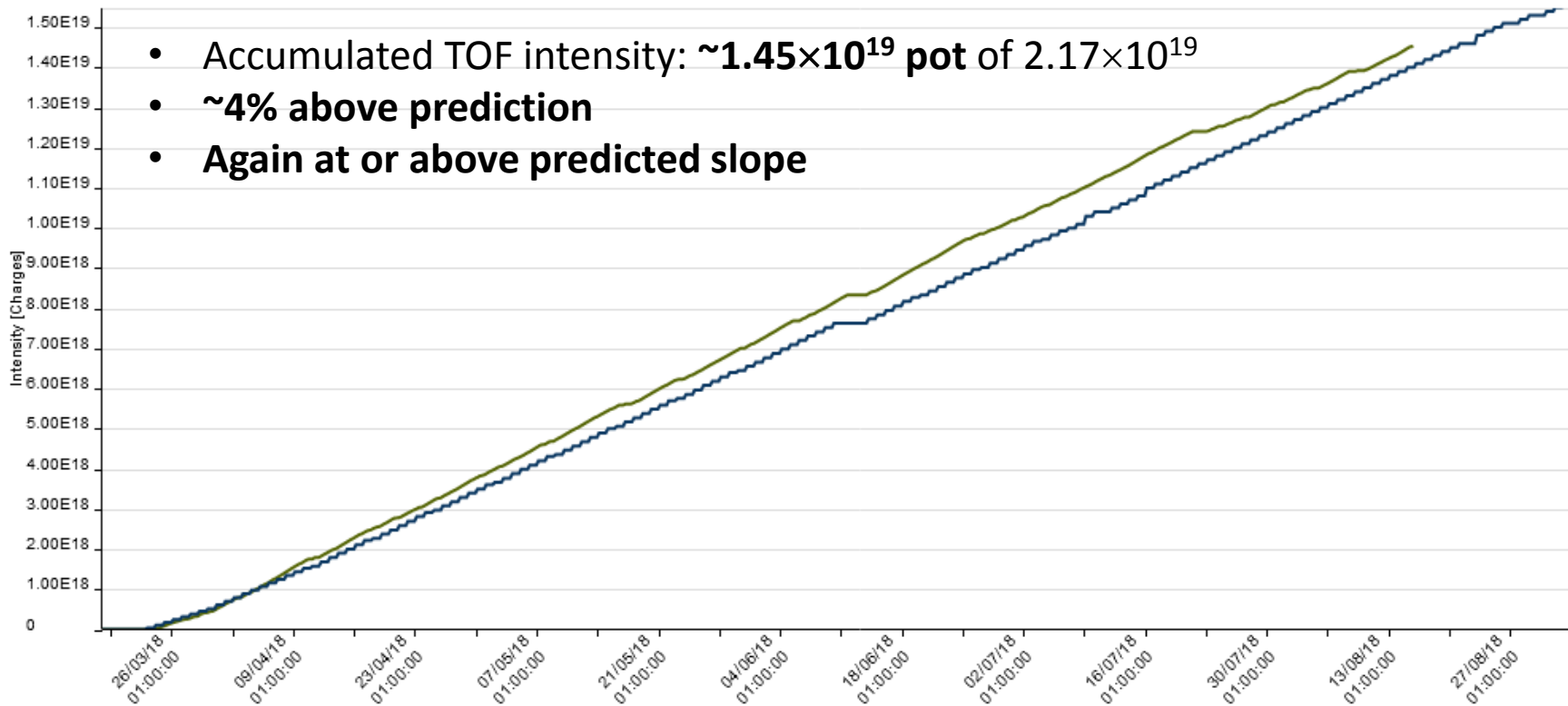
Blocking Faults
26

Total Faults
28

Fault Duration (overlap excluded)
48.0h



TOF until 22nd August



Status of beams

Fixed target beams	Status	Comment
EAST Irrad/North	Operational	With parasitic TOF
EAST Irrad (low intensity)	Operational	Delivered to T8 at $\sim 5 \cdot 10^9$ ppp
MTE	Operational	Delivered to SPS at $\sim 1.65 \cdot 10^{13}$ ppp
TOF	Operational	Up to $\sim 8.2 \cdot 10^{12}$ ppp (intermediate flat-top)
AD	Operational	$\sim 1.4 \cdot 10^{13}$ ppp (back to nominal)
LHC-type beams	Status	Comment
LHC PROBE, LHC INDIV	Operational	
LHC25 (12b, 72b)	Operational	
LHC25 BCMS (12b, 48b)	Operational	