

PS Report week 44



Many thanks
to the PS OP and coordination teams as well as all equipment experts and support teams!

Beam availability

94.7%

Blocking Faults

18

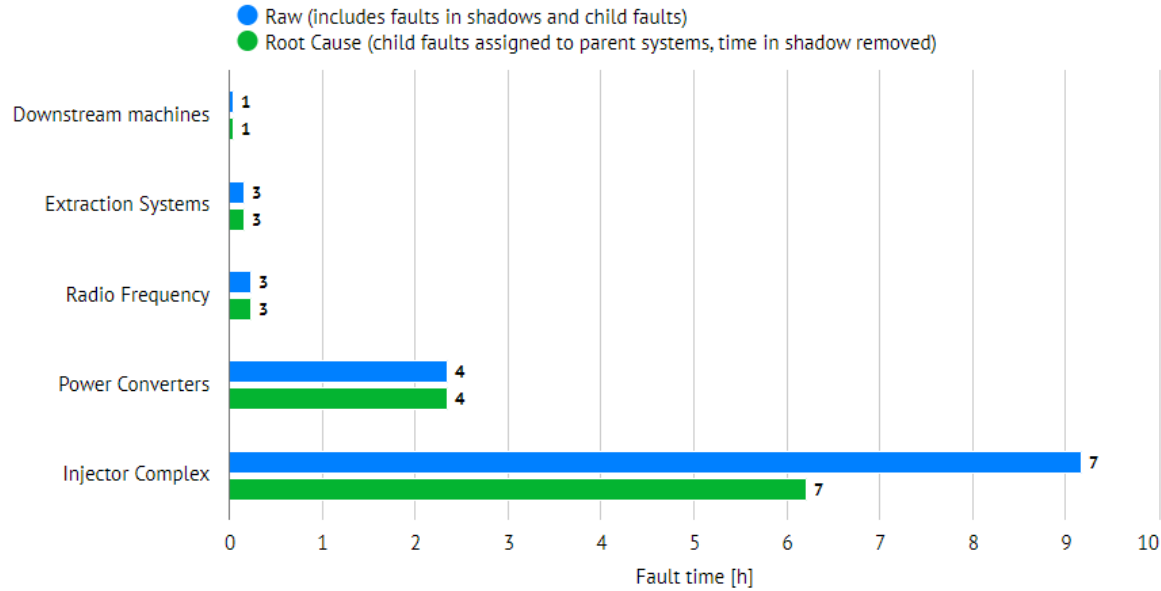
Total Faults

18

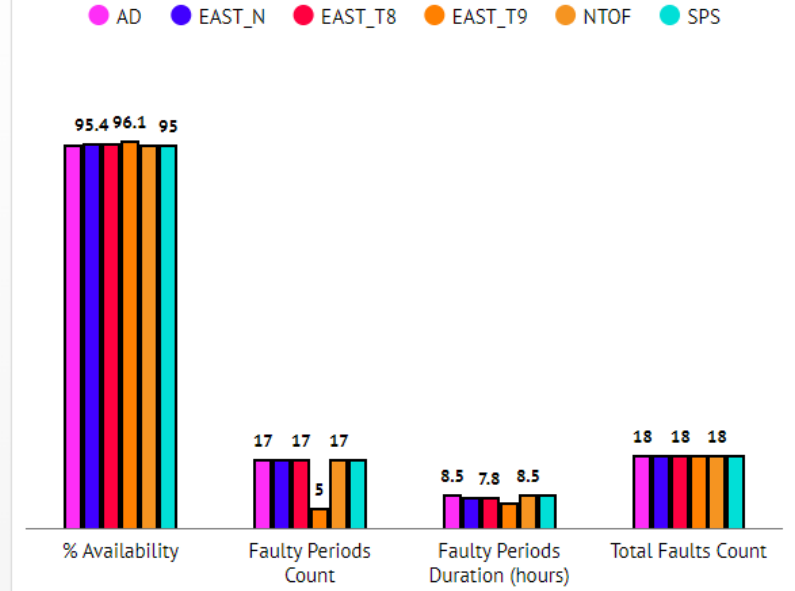
Fault Duration (overlap excluded)

9.0h

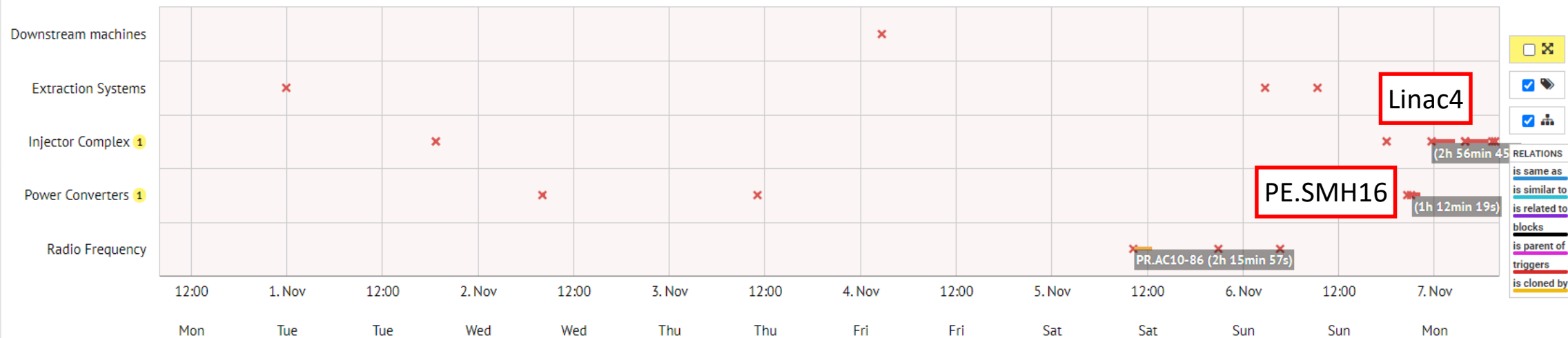
Faults by Root Cause



Destination Availability



Faults Timeline by System



Main issues

- We were informed of ions in T8 -> Tuesday 17h24 to 17h34 (10 shots)
 - the beam was well from the beginning to EAST_DUMP but when the sequence changed the default destination T8 took over.
- TE-VSC: vacuum peak lasting a few hours in the night of the 2nd Nov at the beginning of TT2 line. Nothing particular happened, only a loss peak at around the start time of the vacuum level decrease
- Several Kfa 71 module trips causing radiation alarms.
- Radiation alarms due to wrong synchro frequency from the SPS
- Several problems with the 10MHz and 200MHz cavities during the week-end (multiple trips)
 - Piquet HLRF intervention for C86 and 91 not following the voltage program
 - Cavity 202 in fault
- 2 POPS trips:
 - (20m) It has to do with the Bmeas received the fault is not the past weeks type. This is also confirmed by the fact the scope on the chassis didn't trig and the voltages are still clean.
 - (15m) induced by a test
- SMH16 non-resettable trip. PIPO intervention for an insulation problem (~1h10). Another intervention will be needed. At the same an issue with kfa45 stopped the beam towards EAST too. A reboot of the FEC solved the issue (~30m)

Activities

- A week full of MDs
 - PB80+ injected in PS. Beam accelerated to almost the end of the first ramp, when enough intensity is captured. Poor transmission probably due to large energy spread
- Setting up of the MD beams for Wednesday and LHC MD2
 - MTE very low intensity (50e10p – 200e10p)
 - BCMS & 8b4e beams up to 1.8e1011p/b, 36 & 48 bunches
- Ions to SPS in preparation for FT and later for LHC
- Work on EAST spill and tail reduction
- MTE BB adjustments for loss reduction
- T9 beam re-center to maximize secondary particle production

Questions and Comments

PS Coordinator for week 45 – **Denis Gerard Cotte**



9:00 Daily Zoom meeting (PS-MPC on Monday morning)

Web address: <https://cern.zoom.us/j/9372114100?pwd=L29BcmIhUENCdFBRSyYVcrM1B4Zz09>

Meeting ID : 937 211 4100

Passcode: 525463