

PSB Summary for MSWG 10/10/2018

by A. Findlay on behalf of the PSB team.

Availability 30/7 – 6/8/18
95.0%

System Downtime Vs Accelerator Impact



- Root Cause Impact on Accelerator (child faults assigned to parent systems, time in shadow removed)
- Raw System Fault Times (includes faults in shadows and child faults)

- All operational beams are available and within spec
- Ongoing problem with intermittent partial beam loss on R2 with higher intensities still being investigated
- Simon was able to confirm that R2 loss was present even without phase & radial loops, reducing further the parameter space of possible causes

- Good week with very few break downs
- Main issue was with MPS overheating due to ambient temperature in hall
- Number of cycles temporarily reduced as agreed MPS temperature threshold of 38C reached
- To potentially avoid fuses in MPS being blown unnecessarily, the piquet should be called before MPS reset

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SOME OTHER POINTS OF INTEREST:

- A 160MeV cycle was successfully adapted by Fabrice & Jean-Michel to have an additional ramp & FT after the 160MeV FT for tests.
- This cycle has already been used to de-bunch then re-bunch on 1st FT plus accelerate the beam to the 2nd FT for initial Finemet cavity tests.
- A 1GeV cycle was requested as an intermediate energy measurement FT and significant progress has already been made in producing this by Jean-Michel, Yu and Gian Piero.
- This cycle will need further work on synchro, extraction and the extraction lines.
- The faster accelerating (365ms in place of 530ms) plus early extraction (C540 in place of C805) cycle developed by Jose is advancing well, with good beam parameters measured at extraction.
- Finemet reliability run on R4 of GPS & HRS has started.
- An MD by Eirini & Co. of shorting the 3 ferrite based cavities and using only the Finemet cavity in R4, suggests that the instability at C379 is not due to the impedance of these cavities.
- Many, many, many more MDs!

