

PSB Report

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on behalf of the PSB commissioning and operation teams

29th November 2022



Report w47: AFT

- Period from 21st November 9:00 to 28th November 6:00 a.m.

Availability

99.6%

Blocking Faults

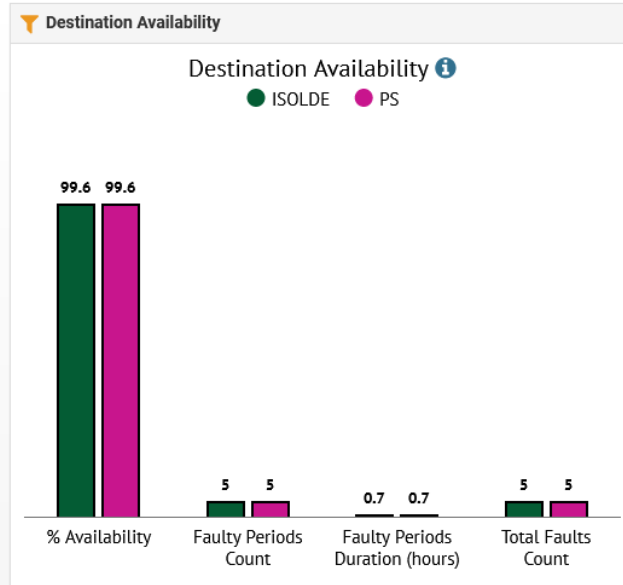
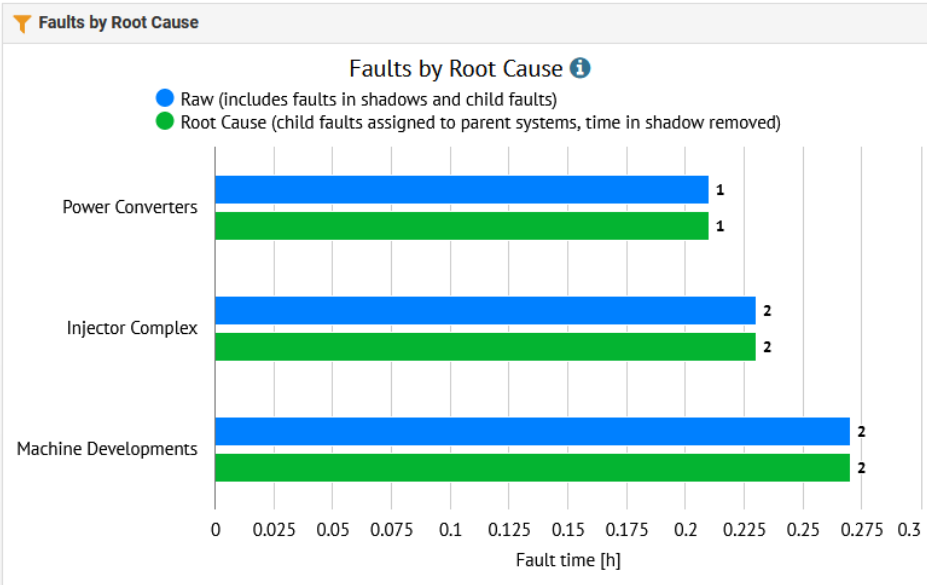
5

Total Faults

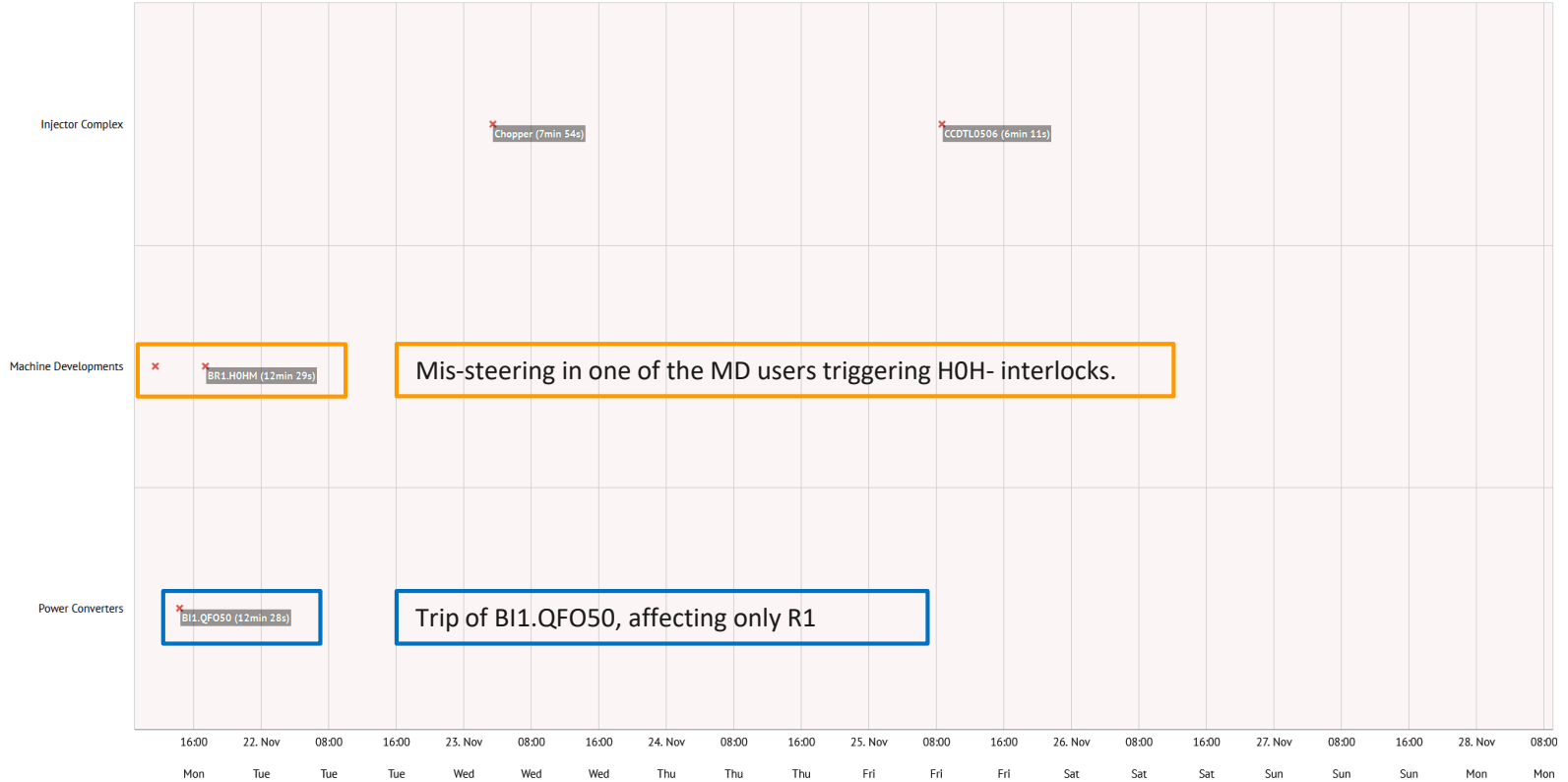
5

Fault Duration (overlap excluded)

0.7h

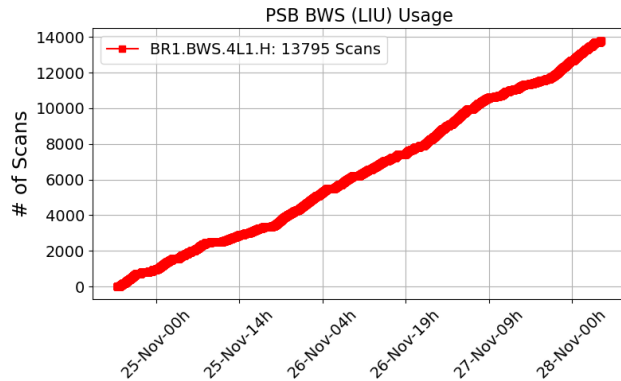


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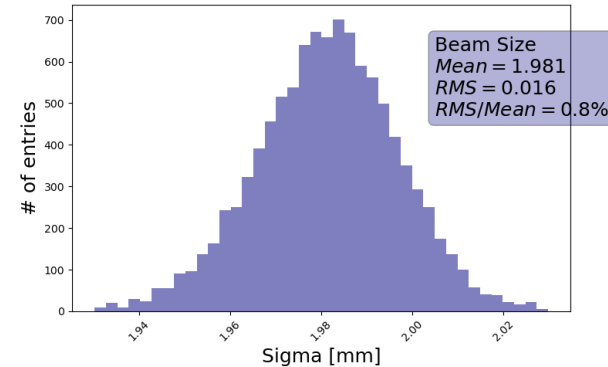


Summary and W47 Activities

- All beams operational.
- Supported the multiple parallel MDs as well as LHC floating MDs (2023 optics validation, BSRT).
- Profited from the last few days of proton run to perform **stress test on the LIU WS in R1H:**
 - Almost **14 k scan performed in about 3 days**, with different configuration tested.
 - **No mechanical issue to report**, proving the excellent performance on the equipment (congrats to BI team!).
 - The WS will be exchanged in the YETS for further analysis.
 - **Machine/equipment performance rather stable.**



Number of WS during the stress test



Average distribution of 10K out scans

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 - **Machine/equipment performance rather stable.**
- **YETS22/23: TE-MSD experts removed the BR.QDE5 covers and found the water leak running down the electrical connection. In this status it would have been dangerous to continue any longer.** Possibly a ½ to 1 day intervention needed to patch for ~2 weeks, if spotted.
Luckily for the PSB, the proton run stop was planned yesterday.

A big thank to all the experts and the operation team for yet another excellent year in the PSB in terms of both machine availability and performance.