

PSB status - MSWG 16/06/2017

- Weeks 23 (5-12/06 PSB SV: K. Hanke)

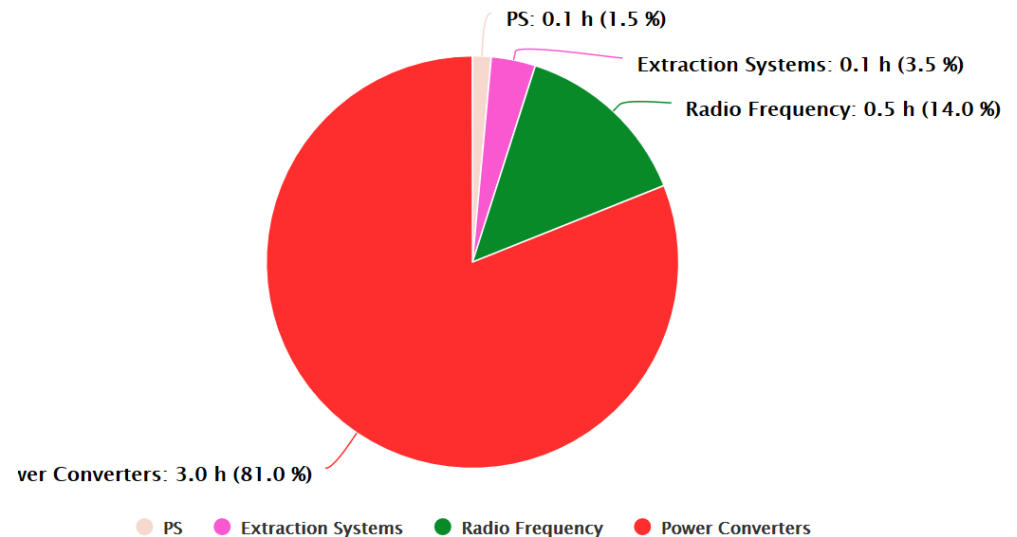
- 99.6% availability

- Main issues:

- Tune measurements on R1 and 2 not correct (investigations by Marek)
 - Extensive investigations on wirescanner to understand jitter on WS R3V (Emiliano)
 - **Hidden cables insulation problem** discovered on R2 C02 (M. Haase) → cables substituted and R2 C02 back to work
 - Finemet cavities revived (Alan)
 - Some trips of extraction devices (BE4.DHZ11L1, BT2.KFA20, BE3.KFA14L1)



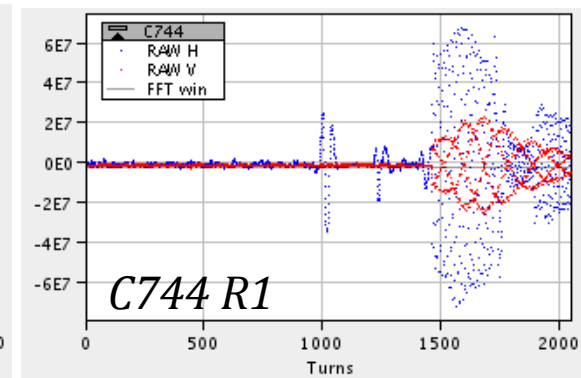
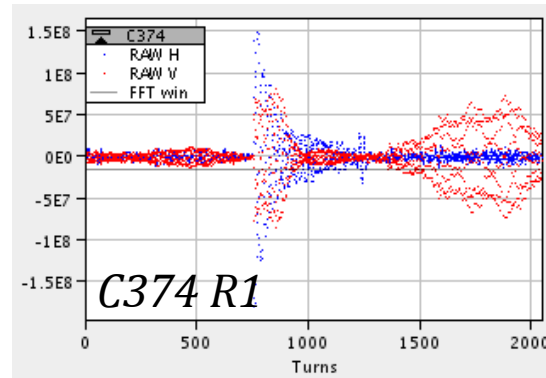
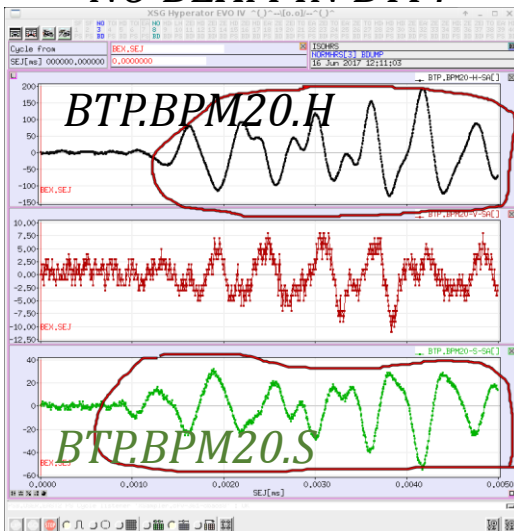
Root Cause Fault Time Distribution



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- Weeks 24 (12-19/06 PSB SV: V. Forte)
 - 95.6% availability (to date, 16/06)
 - Main issues:
 - **Few electrical glitches** on Wednesday (bad weather) with **consequent equipment trips**
 - **Tune measurements on R1 and 2 still not correct with 1024 turns** (investigations by M. Gasior, T. Levens, S. Jackson, BE/BI)
 - **Drift in time of kicked oscillations** seems to be the cause:
 - Larger time window necessary for FFT: 2048 turns to be used (instead of 1024)
 - **~2 hrs NO beam for MPS failure**: problem was a false contact on a button of the converter keyboard (fixed by expert A. Bessonat)
 - **Noise on BTP.BPM20 signals** (on-going investigations by T. Bukovic, M. Bozzolan, B. Mikulec, L. Soby) → **Issue for steering in BTP line**
 - **PSB-PS energy matching performed**: satisfactory results (HD, AF, VF), to be verified by S.Hancock

NO BEAM IN BTP!



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- Beams status:

Beam	Status and Comments
SFTPRO (MTE)	500e10 p/b OK
NORMHRS/GPS	operational and taken by ISOLDE
STAGISO	ready
AD	OK, nominal
TOF	OK, nominal
EAST1,2	OK, nominal
LHCPROBE	OK
LHCINDIV	available with various intensities
LHC25	Set up and taken by PS
BCMS	OK
LHC50 (high intensity)	120e10p $\sim 1.5 \mu\text{m}$

Beam	LHC plan	PSB	PS	SPS
50ns (1.7e11 p/b)	MD2 (end July)		OK (intensity 1.5-1.6e11 t.b.c.)	OK
Doublets (1.6e11 p/d)	MD3 (mid Sep.)		OK	OK
Xenon (like EARLY)	MD4 (mid Oct.)		OK	t.b.c.
8b4e (1.6e11 p/b)	?		mid-Juny	July
80b. (1.2e11 p/b)	MD4 (mid Oct.)		OK	OK

