

Accelerator complex status

End week 28 (Sunday 12th July 2015)

TI (Jesper Nielsen)

Here's the TI summary for the week:

<https://wikis.cern.ch/display/TIOP/2015/07/06/TI+summary+week+28%2C+2015>

Of note – access problems

LEIR (Django Manglunki)

Week 28 was a good one for LEIR, thanks to the help of many, many intervenants: Peter Galbraith, Richard Scrivens, Matthias Haase, Alan Findlay, Emil Jaworski and all LEIR supervisors. Big thanks to Maria Elena who devoted her last 2 days before her holidays to LEIR, after solving the PSB problems.

Booster (Bettina Mikulec)

After the problematic previous week the PSB finally calmed down.

We had a great week with very little downtime and ring 4 behaving well together with the other 3 rings.

Only issues to mention:

- Problem with MIL1553 power supply control for a quadrupole in the BT line, which follows the control value one cycle too late. This is an issue when doing measurements in the BTM line and also prevented us for doing an MD. Hopefully EPC-CO can find rapidly a solution.
- SIS connection failure over the weekend. It took >1 day to have the LASER alarms re-established. An issue was subsequently created because SIS didn't reconnect automatically after the last LASER intervention.

The MTE beam has been prepared for different intensities.

PS (Guido Sterbini)

It was all in all a good week for the PS.

The LHC, AD, EAST, TOF and SFTPRO beams were regularly delivered by the PS.

On Monday operation was perturbed by the problem with PSB Ring 4 (solved in the afternoon). The problem with the jitter in the bucket position in the SPS experienced during the weekend was solved by the LLRF specialist. Following the heat wave, there was a problem with the SMH57 cooling circuit (interlock, 1h30 downtime on East beams). In the afternoon AD beam was not correctly extracted due to synchronization problem. The problem could be fixed by modifying the beam radial position. A fault on the cvf-353-allrfm server started to perturb operation on Tuesday and was solved by M. Jaussi on Friday after several interventions.

On Tuesday the Linac2 RF tubes exchange took place as scheduled (no beam during the morning and the first part of the afternoon). Several interventions were carried in the shadow of it (BLM replacement, pedestals and 200 MHz cavities maintenance, TT2 quadrupole pulsing problem).

On Wednesday the RP team carried out an MD to verify the radiation level on Route Goward. We needed to provide a high proton flux at injection (1.3×10^{13} p/min). In the afternoon a problem with the LHC triple splitting was solved by H. Damerau (it was related to a timing not correctly received).

On Friday together with the PSB a first iteration on the LHCINDIV high brightness requested for the LHC MD took place. During the night and on Saturday several problems with the LASER server, the orbit measurements, the BLMs and the wire scanners hampered the operation. The experts intervened on Saturday to fix the different issues.

On Sunday there were minor perturbations due to the cavity 80 MHz (C80-89) and the AD injection kickers (the AD supervisor and kicker specialist was contacted).