

End Week 5 (February 8th 2010) – Status of Accelerators

Summary

LINAC 2	Start-up, no problems to report, beam for AMS
PSB	Start-up, no problems to report, beam for AMS
PS	Start-up, no problems to report, beam for AMS
SPS	AMS run without problems, start-up, no problems to report
AD	
TI	No major events last week.
LHC	Powering tests ongoing.

Linacs

Linac2:

Beam permit signed Mon 1 Feb, first beam in Linac2, no major problems.

PS Booster

Beam permit signed Mon 1 Feb, first beam injected Tuesday 2 Feb afternoon; no major problems apart from the usual resets and reboots.

Wed 3 Feb vacuum leak on a bellow of BI.STP, was varnished, keep fingers crossed and schedule repair (after AMS...); avoid any movement of this stopper...

TE/EPC switched on Meyrin filters Tuesday evening, some perturbations.

PS (Y. Papaphilippou)

Beam permit signed Tue 2 Feb, first beam injected Wed 3 Feb early morning; running without generator.

After the final tests on the MPS (connected to the 13MVA transformer) on Monday and the PS patrol on Tuesday morning, beam was injected on Tuesday evening (MDPRO cycle for AMS). Following some setting up, the beam was fast ejected to the SPS on Wednesday evening. Tests on the transformer showed that the 29BP super-cycle could be filed with 8 MDPRO cycles instead of 2, especially for a double ejection to the SPS but this was finally not requested.

The only problem occurred on Saturday in a 10MHz cavity (C76) which was solved by the intervention of the specialist (fuses changed on pre-amplifier). A remaining problem on the 10MHz cavity C36 since Saturday night (unable to reset and replaced by the spare) will be followed on Monday.

SPS

First beam injected Wed 3 Feb, accelerated and extracted Thu 4 Feb.

TI

Nothing special to report. It's a very busy period with ongoing maintenance activities, but no major events last week.

LHC

Powering tests ongoing.

Summary and outlook

Successful start-up with beam delivered for AMS.

Over the weekend running for AMS without major perturbations. AMS will stop Tuesday morning (9/2).

Beams will be stopped and the PS will be switched back to the motor generator (Siemens specialists at CERN during the first half of the week). In the shadow of this operation Booster vacuum leak repair.

As soon as the PS is back on the generator, LHC type beam set-up can start. In the Booster setting up of LHC beams has already started. The SPS needs to do beam-based alignment (7 magnets changed during technical stop), then setting up of LHC beams can start.

The present planning for LHC beam is overnight Wednesday 17th/Thursday 18th, injection test and from Monday 22nd, start of beam commissioning (could be a day or 2 earlier or later).