

## End Week 14 (April 9th 2012) – Status of Accelerators

### TI (Peter Sollander)

Quiet week.

### Booster and PS

had quiet weeks with no major problems.

### ISOLDE (Pascal Fernier)

#### Semaine de piquet du 03 au 10 Avril 2012

**HRS** : target #471 run @40kV for Collaps .

Run satisfaisant pour les physiciens (source = dimanche 08/04/2012) malgre problemes sur HRS

Tartget heating in local du to problems with an internal board which stops target heating from time to time.

Tuesday : 133Cs & 30 Na stable beam

Wednesday : 40Ca, radioactif / proton scan and yield measurement → incomplets car tape station cassee.

Thursday : beam Ca until Thursday

Problemes :

- 1) tape de la tape station debobinee completement mercredi (no tape full message) → reparation mardi 10/04 si TP disponible;
- 2) Arret chauffage « line » bien que l'alim soit en local (spike de la HT) .
- 3) Arret chauffage « target » bien que l'alim soit en local (spike de la HT).
- 4) Samedi changement de la HT RFQ de 40Kv a 30 kV car HT instable (spare HT broken) et new setting-up
- 5) Plusieurs reglages de la pression de He dans le RFQ au cours du week-end

**GPS** : target #472 mise en place jeudi 05/04, water cooling et vacuum ok ; pas de chauffage car cette cible est tres fragile et ne peut pas rester 4 jours sans surveillance (source T.Stora).

Tests de J.Parra Lopez sur alimentations chauffage cible GPS qui s'arretent depuis l'installation de la carte electronique de ramping : pas de point de test disponible ni sur le board ni sur le chassis, le probleme doit etre revu cette semaine.

### SPS (Django Manglunki)

A bad week for CNGS. On Tuesday the beam was interrupted many times because of the BPM interlock in TT41, as the new optics is more sensitive. On Wednesday at 17:00 a vacuum leak stopped the beam altogether. It is likely that the beryllium window at the end of TT41 is broken. It was decided to wait until the end of the long Easter week-end to perform the intervention, and let

the area cool down. The intervention is taking place this morning, first by RP for the radiological survey, then TE/VSC to confirm it is the window, and eventually change it.

On the LHC front, the 12 and 36 bunch beams have been pushed to  $1.5E11$ /bunch on Thursday evening, with emittances as low as  $1.7\mu\text{m}$ .

On Saturday night the mains tripped and needed an intervention from the EPC piquet; a 18kV cable is suspected to be damaged, and an intervention will have to be planned.

As there was no other customer, the pulsing of the SPS was stopped in between LHC fillings for economy measures.

## LHC

Good transition from commissioning to operations. Up to 624 bunches and peak luminosity around  $2.2e33 \text{ cm}^{-2}\text{s}^{-1}$ .

<http://lhc-commissioning.web.cern.ch/lhc-commissioning/>