

Minutes of the 10th FOM meeting held on 10.06.2014

Agenda:

- 1) Schedule Updates
- 2) Status of the Machines
- 3) AOB

1 Follow-up of the last meeting

The minutes of the 9th FOM meeting were approved.

Pending actions:

There were no pending actions.

2 Schedule Updates

K. Hanke presented the Injector Schedule (v1.3). It can be found at

https://espace.cern.ch/be-dep/FOM/Presentations_2014/Forms/AllItems.aspx

K. Hanke and H. Bartosik informed that, after the request of the MD coordinator, the MD in week 34 was cancelled and the MD blocks between week 42 and 50 were extended from the original 10 h to 12 h.

K. Hanke informed that, after Evian Workshop, there is a discussion on going concerning the possibility to have the SPS scrubbing run in week 39 and 45 (instead of week 39 and 40). After the FOM a new version of the Injector Schedule (v1.4) was release

https://espace.cern.ch/be-dep/BE/DepartmentalDocuments/BE/Injector_Schedule_2014.pdf

where the SPS scrubbing run is scheduled for week 39 and 45.

3 Status of the Machines

Linac2 (D. Kuchler)

D. Kuchler sent an email before the FOM informing that

“The intensity at the moment is around 140 mA (long pulses and further tuning should improve it during next weeks).

During the weekend there was a vacuum leak in the LBE line. The sector was separated and further investigations are ongoing.

Some of the BLM signals in the LT/LTB line are missing in OASIS.

The flash-overs from the source closed from time to time one of the valves in the down

stream line.

There is a 2x4 hour stop requested from the RF team to make a final dry run and to set-up the tanks at full intensity (to be scheduled when the conditions are there).”

[PSB \(B. Mikulec\)](#)

On Monday (2 June) the first beam from Linac2 was injected into the PSB after having solved several blocking issues. In particular there was a missing cabling between the new beam stopper controls to the External Conditions (hardwired interlock). Until the cables have been pulled, this interlock will be masked by software.

During the whole week, the LL RF team worked very hard and finally on Sunday all 4 rings were accelerated and synchronized with 45-50E10 ppb at extraction. There are still some bugs being investigated where the beam is not always as stable as required and can be lost on some shots. The integration of the new digital LL RF control needs still a lot of work before the operators will be able to control all the required functions and knobs from the CCC.

The PSB team is working closely with the BI colleagues on a long list of open issues. Several important BI systems like the BPMs at injection and extraction are not yet ready, which makes beam steering and setting up very difficult.

On Monday morning, there was a problem with the bunch profile measurement and the tomoscope (now solved). S. Jensen commented that it was due to a problem on the LTIM.

Good progress has been made during the first week with beam, but significant work is still ahead.

K. Hanke informed that there is an article on the PSB on last week Bulletin.

[PS \(R. Steerenberg\)](#)

The PS Cold check-out is in progressing well.

There are still many accesses but many of them are in parallel on the PSB commissioning due to the new access configuration of the PS ring and the Switchyard zone. Nevertheless, in order to pulse POPS, the beam permit for the PS ring and the Switchyard has to be the same.

[SPS \(K. Cornelis\)](#)

The SPS is still in shut-down mode.

A vacuum leak was detected on the quadrupole QD119. J. A. Ferreira Somoza informed that the quadrupole welding was delicate and the magnet had to be transported on the workshop 867. J. Vollaire, on behalf of Helmut Vincke, informed that it was transported outside working hours and RP asked to have the same precaution for the reinstallation.

K. Hanke asked if this would impact the schedule. J. A. Ferreira Somoza answered that most likely it will. The sector was vented three times and the MBK conditioning is very lengthy.

[ISOLDE \(M.-L. Lozano Benito\)](#)

The HRS vacuum leak was detected in the region near the front end. It was due to a loose clamp. All clamps were replaced. Magnet HRS20 is back to its original position and at the end of the week the HRS commissioning will start.

The Robot commissioning has still to be done.

There are some CO problems with the separator magnet.

[nToF \(\)](#)

No news.

[East Area \(\)](#)

No news.

[AD \(T. Eriksson\)](#)

The HW test started. The ring is closed, the power supplies are on and working as expected, and the interlock is ok. The visual and auditive magnet inspection was fine.

In the target area, repair of the horn is on going. The main part of HT stripline has been removed. Additional damages were found.

At the moment the beam commissioning start on 1 August is confirmed.

[Linac3 \(D. Küchler\)](#)

D. Küchler sent an email before the FOM informing that:

“The source started its conditioning this week (2 weeks behind schedule). It is unclear if beam can be delivered to LEIR as foreseen.

At least one week was lost due to a fabrication error of the new extraction tank

The pepper pot tank in ITL line installed but difficult to set it up correctly due to very limited space (screws were touching the downstream magnets). Its design not well integrated in the existing machine.

The pepper pot itself needs some small modifications for an additional interlock before it will be installed in the tank. It needs a second venting of the line for the installation later on.

The main tank of the new stripper mechanism was installed.

LEIR (J. Axensalva)

There were some issues on CO software on several devices.

During the HW commissioning it was found that a cable was shorting the vacuum pipe around one of the main bending magnet. The cable was used in the past (several year ago) to measure eddy currents on the vacuum chamber but it was left connected, affecting the magnetic response of the dipole. Now the cable has been removed.

Tomorrow the DSO test will take place. D. Manglunki commented that there are delays with respect to the schedule.

TI (P. Sollander)

There is nothing special to report.

4 AOB

During the week several access requests were collected:

- D. Küchler asked for 2x4 h stop for intervention in the Linac2 RF. B. Mikulec asked about the time interval between the two interventions. H. Hanke answered that this was not indicated on the request.
- J. Bellman requested an access in the PS ring to replace the amplifier of the PU02.
- D. Bodart asked for 2 h access to the switchyard to connect the PR.XSK14 and check the F16.QFO105 and 4 h in the PS ring (SS40).
- J. Tan asked an access for BI intervention in the PSB ring.
- B. Mikulec asked for an access to repair the BTV in the BTM line.
- E. Sanchez-Coral Mena asked for 2x4h for electrical modifications in the PASS cabinets for the PSR, PSB and ADT/ADR concerning the EIS-m.

After discussion it was decided to synchronise all accesses on Wednesday afternoon (11 June) 14:00 – 18:00.

The next FOM meeting will be held on 17 June. The agenda will be communicated in due time.

Minutes edited by G. Sterbini.