

Minutes of the 9th FOM meeting held on 27.05.2014

Agenda:

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

1 Follow-up of the last meeting

The minutes of the 8th FOM meeting were approved.

Pending actions:

There were no pending actions.

2 Schedule Updates

K. Hanke presented the Injector Schedule (v1.2)

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

K. Hanke informed that the PSB will receive beam on the 2 June instead of the 30 May as indicated on the Injector Schedule.

3 Status of the Machines

Linac2 (J.-B. Lallement)

It was a good week for Linac2. Several tests were performed on the watchdog system. The RF was on and stable for all the week. All power converters are on.

On Monday (2 June) Linac2 will send beam to the PSB.

This week the hydrogen bottle will be changed to prepare for the run.

PSB (J. Tan)

The PSB septum leak problem has been solved. All electrical connections and water cooling circuits were tested.

There was an OASIS problem during the week (now solved).

The injection and extraction timing have been checked.

The DSO test took place last Friday (23 May).

On Saturday (24 May) in the middle on the night, the MPS dropped. There was no intervention during the night since the system was not in use. The MPS was restarted on Sunday morning (25 May).

The PSB cavities are working. The INCA team is implementing some minor changes.

Most of the BI devices are ready. Beam trajectory system has still to be working out.

M. Gourber-Pace asked if the controls of the FGC are working properly. J. Tan answered that the operators did not report any problem concerning the FGC.

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

The DSO test took place on Friday (23 May) and on Monday (26 May). The beam permit was signed yesterday for the switchyard zone and just after the PS cold check-out started.

There were few requests of interventions: this morning there were interventions in sectors 10 and 57.

S. Gilardoni presented some slides concerning the installation request of the e-cloud monitor in MU98. The slides can be found at

<https://espace.cern.ch/be-dep/FOM/Presentations 2014/Forms/AllItems.aspx>

During LS1 it was planned to install additional instrumentation to detect and study the electron clouds in the PS. For the first time in the PS the e-cloud monitors (one optical monitor and one pick-up monitor) will be placed in a MU (MU98).

The pick-up had some production issues: it will be ready for installation on Friday (30 May).

For the installation the sector has to be vented. The vacuum sector is not critical (no septa, no ferrite kickers, nearest LHC-RF cavities is 20 MHz in SS92). The vacuum will recover for proton run without consequences for ion run. HW tests time is compatible with the intervention. The integration and installation were tested before reinstalling MU98 in the tunnel with a 3D printed PU mock-up.

S. Gilardoni proposed the following schedule for the installation: a first access on Friday morning (08h30-12h30), including consignment of MPS, PFW, F8L and low energy magnets. A second access during the late afternoon for leak tests (30-60 min) and eventually a second leak detection on Monday. R. Steerenberg asked if, for the leak test, the PS converters have to be consigned. S. Gilardoni and K. Hanke answered that they should be consigned. R. Steerenberg proposed to “deconsign” the machine only at the end of the day. This will have not impact on the switchyard. The e-cloud monitor intervention was approved by the FOM.

C. Rossi requested 2 h for an RF intervention in the inflector zone. It was decided to schedule

this together with the hydrogen bottle change.¹

C. Rossi added that half a day intervention is needed for a problem with the 40 MHz system. R. Steerenberg commented that this intervention can be synchronized with some additional magnet tests.

A. Bland informed that the magnetic cycle and beam current signals shown on the CPS Vistar are now provided by a front end (CFC-354-CVSPS). Previously a Linux server was used.

[SPS \(B. Salvant\)](#)

Preliminary tests on the new EPC have started together with a re-alignment campaign of several SPS PUs.

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

All power converters are on and there was stable test beam on GPS. CO Dry runs are progressing.

Concerning GPS, there are some CO problems on the GPS front end. Some knobs are displaying the wrong information.

E. Siesling reported the progress on the HRS leak repair.

The sniffer test last week seemed to indicate a leak in the old laser window (not around the shutter box, and not in the joint between the shutter-box and the windows). This implies that there are two leaks: one associated with the old laser window, and one associated with the new one. An intervention plan has been put in place in four stages:

- Removal of the contaminated M36 adapter of the new laser window assembly (already done).
- Leak-test the new laser window, using the new uncontaminated M36.
- Positioning of a plate over the old M36 adapter and use it as a plug to replace the old laser window.
- Leak-test the HRS with the plug installed.

Hopefully at the end of this exercise, a leak-tight HRS and a leak-tight laser window will be available. K. Hanke asked when the repair will be completed. E. Siesling answered that the intervention should be completed by Friday (30 May). M.-L. Lozano Benito added that during the leak test it is important to check the vacuum chamber position.

[nToF \(\)](#)

¹ After the FOM, the intervention was planned on Wednesday (28 May).

No news.

AD (T. Eriksson)

There is nothing to report.

East Area (L. Gatignon)

There is nothing to report.

Linac3 (J.-B. Lallement on behalf D. Kuchler)

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

“[...] The pepper pot tank will be installed this week. The new stripper mechanism will be installed by the end of this week. The closing of the source is delayed by some days due to a fabrication error of the new extraction tank (this was only realized during a first attempt to close the source yesterday). [There were] some progress of the Linac3 controls, but the dry runs were up to now not very successful (one reason is that not all invited people show up and not all pre-requisites are prepared in time)”.

S. Jensen commented that there was a misunderstanding concerning the dry run team: not all specialists have to be present during the tests. As part of this misunderstanding, the dry run outcome was positive. The FESA class problem was solved. For the moment, there are no major issues on the CO side.

D. Manglunki asked if it is confirmed to have beam in two weeks. J.-B. Lallement replied that he cannot answer on behalf of D. Kuchler concerning the schedule.

LEIR (D. Manglunki)

D. Manglunki will organize the LEIR dry runs together with the CO colleagues.

TI (P. Sollander)

There is nothing to report.

4 AOB

K. Hanke reminded that the supervisors of all machines that completed the cold check-out (Linac2 and, from next week, the PSB) should send a brief report to M. Lamont on Monday morning.

K. Hanke informed that there will be no FOM next week. The next FOM meeting will be held on 10 June. The agenda will be communicated in due time.

Minutes edited by G. Sterbini.