

Minutes of the 5th FOM meeting held on 29.04.2014

Agenda:

- 1) Schedule updates (K. Hanke)
- 2) Machines tour de table
- 3) Technical Network disconnection test (S. Lueders)
- 4) AOB

1 Follow-up of the last meeting

The minutes of the 4th FOM meeting were approved.

Pending actions:

There were no pending actions.

2 Schedule updates

K. Hanke presented the latest version (v1.1) of the injector schedule

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

Before the FOM meeting, T. Bohl asked to add the technical stop on the official injector schedule. K. Hanke has contacted G. Rumolo as responsible of the MD program. At the moment the detailed MD planning is still in work but he agreed on having the TS on the 29 October 2014 (replacing the injector MD).

N. Gilbert asked to add or update the following dates on the on the injector schedule:

- LEIR will close on the 15 May. The LEIR DSO test was moved to 11 June. Cold check out of LEIR will take place from 12 June until 27 June.
- AD will close on the 30 May. The AD ring HW test will be done from 3 June until 11 July. AD (ring and target) DSO tests recently moved to 15 and 16 July (subject to further changes depending on the progress with the magnetic horn). AD-ring cold checkout will be from 17 July to 31 July.

D. Manglunki added that the cold check-out of LEIR was shortened by 1 week.

D. McFarlane informed that the SPS DSO test will take place on the 27-28 August (the injector schedule has to be updated).

3 Status of the Machines

Linac2 (D. Kuchler)

The beam permit was signed last Thursday. A hardware problem on the RF was fixed on Thursday evening. There was an issue on the veto on the RF that forced the beam to go in off

mode. Yesterday (28 April) the first beam went through Linac2.

There are still some minor controls issues. A recurring problem concerning updates in the middleware server (cmw) seems to be solved for the moment.

D. Küchler reported that the RP team asked for an IMPACT access number to enter the machine. D. Küchler commented that IMPACT authorisation should be used only during the technical stop and not during normal operation. R. Steerenberg explained that the IMPACT access number is not intended to authorise access but to activate and deactivate the operational dosimeter (DMC).

PSB (D. Hay)

D. Hay showed a slide with the schedule for the PSB septum repair. The slide can be found at

[https://espace.cern.ch/be-dep/FOM/Presentations 2014/Forms/AllItems.aspx](https://espace.cern.ch/be-dep/FOM/Presentations%202014/Forms/AllItems.aspx)

The DSO test will last one day (instead of the initial scheduled three days). The installation of the septum will require three days. After installation, the pump down and bake out will be done in parallel with the cold check out. The cold check out period will be reduced by one day.

The broken wire scanner was repaired and will be cabled in the afternoon (29 April). On Friday (2 May) Google Street View mapping session of the PSB will be done. Tomorrow morning (30 April) the PSB ring will be closed in preparation of the DSO test.

PS (S. Mataguez)

S. Mataguez invited all people concerned to join the daily PS HW test meeting at 8h15 in 6/2-004.

He reported that the HW tests are on going but only 10% of the foreseen magnet tests were done mainly due to the unavailability of the control system.

From the 8 May to the 16 May the main power supply will be consigned to put in place the magnet covers.

G. Métral added that D. Bodart intended to do a global test of the magnets but that the PS timing was available only last week and the GFA only yesterday (28 April). In this condition the HW testing is difficult. The situation is worsened by the fact that the CO piquet is not available anymore.

M. Gourber-Pace commented that the goal of the CO dry runs is to systematically address all these technical problems.

M. Gourber-Pace answered to S. Mataguez and G. Métral that according to the official re-commissioning planning agreed with all parties early 2014, the control system for all power converters was scheduled to be ready in two weeks time, e.g. in week 20. Therefore the

control system could not be assumed to be operational before that.

Because of the re-consignation planning clashing with the official agreed dry-run planning in week 20, M. Gourber-Pace agreed to see in BE-CO how to anticipate by ten days the delivery of the control systems for power converters. The day after the FOM meeting, she confirmed to OP that the controls system was made ready to start the commissioning. On the remark about the CO piquet, Marine answered that the piquet, should he exists, would not have the right technical profile to intervene during commissioning.

J.-L. Sanchez Alvarez reported that one of the difficulties for the team is to find the correct specialist to contact. M. Gourber-Pace answered that a list of the different CO specialists was available in the standard web exploitation tool and that she had been waiting from OP-TI for the clean-up of a few left-over boxes. The cleanup was done by OP-TI the day following the FOM.

G. Métral added that the CO reactivity to the different problems is slow. S. Mataguez pointed out that due to CO related problems, the HW teams have been exposed to radiation for a period longer than the one strictly needed. For this reason it was proposed to make some of the HW tests on 21 and 26 May when most of the CO problems would be solved. M. Gourber-Pace added that she disagreed with the statement correlating the exposure to radiations with the status of the controls system, for the exact same reason as mentioned above: the remote controls could not be considered as operational for power converters before week 20, as agreed in the official planning.

J.-L.Sanchez Alvarez asked if the CO specialist can be called during the night. R. Steerenberg answered that it is possible if there is a blocking problem.

SPS (D. Mcfarlane)

The LS1 period is continuing according to schedule.

ISOLDE (M.-L. Lozano Benito)

A vacuum leak was detected in the proximity of the HRS20 magnet. Initially it was thought that the leak was on the new laser window, but after its replacement the situation remained unsolved. This afternoon (29 April) investigations will continue but the leak detection is difficult. Next week first powering tests will start.

AD (K. Hanke on behalf of T. Eriksson)

There are still two options for the start-up, one with beam on target on 1 August and one with beam on target on 29 September. Physics will start three weeks later. At the moment the “early option” is the one more likely one, but this remains to be confirmed.

East area (L. Gatignon)

On schedule.

TI (R. Ledru)

After the FOM, R. Ledru informed about the “Note de coupure”

https://edms.cern.ch/file/1376761/2/ENNC_EL_2014_143.pdf

The aim of the test is to verify the correct functioning of the diesel engines of the auxiliary electrical groups. Perturbations cannot be excluded.

4 Technical Network disconnection test (S. Lueders)

The S. Lueders presentation can be found at

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

After having introduced the CERN Technical Network (TN) and General Purpose Network (GPN), S. Lueders underlined that the gateways from GPN to TN are only necessary for developing or configuring systems and should not be needed running accelerators/technical infrastructure.

The proposed test will be the third one after the ones of March 2013 and January 2014. The aim of the test is:

- To understand the extent to which control systems connected to the TN depend on external services (GPN, CERN CC) and in how far these systems are able to run autonomously in case the GPN is not available. Given past experience, the dependency should be rather low, but hidden dependencies might exist.
- To confirm that “TN disconnection” is a valid preventive action in case of major security incidents on the GPN or in the CC.
- To Review the measures which have been put in place since then.

The FOM decided to do the test in the morning of 8 September.

S. Lueders underlined the importance to use as many systems and services as possible during the test.

It was asked if other tests are planned in 2015 when the LHC will operate. S. Lueders answered that there are no additional planned test and that from the injector tests one can extrapolate the behavior of the LHC. M. Lamont informed that on the 8 September LHC will be in the cool-down phase.

R. Steerenberg added that during the disconnection test one should also test the re-starting of the applications.

D. Kuchler commented that next one will be the first disconnection test with the new access system.

A. Bland added that during the last test there were problems with the RBAC login system. Since then, the problem seems resolved.

S. Lueders will provide a detailed program of the Disconnection Test.

5 AOB

A. Bland informed that all operation passwords were changed. The next FOM meeting will be held on 6 May, and from then on the FOM will take place weekly. The agenda will be communicated in due time.

Minutes edited by G. Sterbini.