

FOM minutes 30.06.2020

List of participants in ZOOM meeting: Albright S. Amarilla M. Angoletta M. E. Antoine A. Antoniou F. Bellodi G. Biancacci N. Bojtar L. Bozolan M. Bozzini D. Bracco C. Bravin E. Bruce L. Cano E. Chapuis F. Comblin J.F. Cotte D. Coupard J. Damerau H. Deleval S. Delrieux M. Di Giovanni G. P. Dubourg S. Fadakis E. Fernandez R. A. Findlay A. Fraser M. Gamba D. Gerbershagen A. Gschwendtner E. Hanke K. Hans O. Huschhauer A. Johnston K. Kain V. Karpov I. Kramer T. Kuchler D. Lallement J. B. Lasheen A. Lozano B. M. Macina D. Mahner E. Mcfarlane D. Metral E. Mikulec B. Montabonnet V. Newborough A. Nielsen J. Nuiry F. X. Oliveira J. C. Pace M. Papotti J. Parodi M. Pasinelli S. Pasquino C. Pedrosa F. Pirotte F. Piselli E. Ponce L. Pozzi F. Rodriguez A. Roncarolo F. Rossi C. Rumolo G. Scrivens R. Siesling E. Skowronski P. Solfaroli M. Steerenberg R. Tecker F. Valera R. Velotti F. M. Vollaire J.

Slides : <https://indico.cern.ch/event/885121/>

Agenda:

- Introduction by R. Steerenberg.
- Machines status reports
- LINAC 4 HW commissioning plans and status
- PSB HW commissioning plans and status
- ISOLDE HW commissioning plans and status
- ELENA commissioning plans and status
- AOB:
 - Piquet and standby services during hardware commissioning
 - EN-EL interventions

Machines Status

CLEAR by Davide Gamba:

The CLEAR facility is running since some time. No problems to follow-up on.

AWAKE by Edda Gschwendtner:

- Awake started beginning of June and running with electrons and laser until end of the year. Protons next year when the SPS is up and running.

PS (K. Hanke)

- IST (Individual Systems Test) in the switchyard ongoing under the responsibility of EN-ACE.

LINAC 4 HW commissioning plans and status

The main points from the presentation by B. Mikulec:

- IST is ongoing, then 2 weeks HW commissioning, and after that 2 weeks of low energy run will take place.
- The source is working fine...
- HW checklist is available on OP tools, about 800 tests.
- Planning is available on ASM (<https://asm.cern.ch>)
- Linac 4 and PSB commissioning is ongoing in parallel by one operator for each machine with morning and afternoon shifts, no weekend shifts.
- Invitations for Dry Run were sent out.
- Daily Vidyo chat is planned at 8:30 (<https://be-dep-op.web.cern.ch/en/content/vidyo-control-room-links>)
- Bi-weekly Vidyo meetings at Wednesdays 9 am.
- OP Web-tools Linac4 dashboard should be updated by the specialists if any corrections are needed.

Questions and comments:

- M. Delrieux noted that one operator is present in the CCC during morning and afternoon during IST.
- R. Steerenberg pointed out that the Covid-19 safety measures should be followed in the CCC, this means mostly wearing masks and keeping physical distance.

PSB HW commissioning plans and status

The main points from the presentation by F. Chapuis:

- Presented the HW tests planning, see the slides on Indico for details.
- Machine patrol and closure at 03/07.
- Restricted access between 06/07 – 09/08.
- POPS-b DSO test 10/08.
- No access or special permit between 11/10 – 19/10.
- During cover consolidation between 20/08 – 04/09 access allowed in restricted mode.
- MPS DSO test 12/10.
- No access between 05/09 – 1/11 due to MPS tests, HI RF tests, LL RF tests, etc.
- MPS is used between 13/10 – 18/10 (18/11 on slide, mistake)
- Back to POPS-B from MPS and dry run between 19/10 -01/11.
- F. Chapuis and A. Akroh will do HW commissioning coordination.
- Vidyo meetings will be held by F. Chapuis and A. Akroh. (<https://be-dep-op.web.cern.ch/en/content/vidyo-control-room-links>)

Questions and comments:

- R. Steerenberg noted that there will be a ceremony at 3rd of July during which EN-ACE will hand over the symbolic booster key to the OP group.
- R. Steerenberg also noted there is still some equipment and material in the Booster to be removed.
- D. Hay noted that most equipment has been already removed, except the ones which are still necessary.
- B. Mikulec noted the racks on the surface should be closed and the floor clean from materials.

ISOLDE HW commissioning plans and status

The main points from the presentation by M. Lozano

- Quadrupole polarity checks performed for low energy beam lines.
- Tests of new beam instrumentation equipment.
- Tests of new tape station, beam gate timings, EBIS electron gun, diagnostic boxes, steerers in REX-LINAC, silicon detectors, x-ray monitors for RF conditioning, etc...
- Stable beam availability tests were and will be performed.
- New beam diagnostic boxes are installed in the low energy part of REX-LINAC to diagnose the lower than expected beam transmission.
- In overall things are progressing well in ISOLDE.

ELENA commissioning plans and status

The main points from the presentation by L. Ponce.

- The main objective is to connect all users with the new electrostatic lines to ELENA.
- The commissioning of the lines will be done using the local ion source.
- Cabling is finished, but the installation of the transfer lines is ongoing.
- Deconsignation of the ELENA ring will take place soon, then DSO test of the ring will be done on 03/07.
- Until the end of July local ion source should be set up and functional.
- ELENA ring HW tests will take place between 15/07- 01/08.
- Not all profile monitors are ready. The last 11 SEM monitor for ASACUSA will arrive in September.
- Maybe moving some SEM's electronics for commissioning of the lines will be necessary.
- There is a problem with BTV117, which is locked in – being followed-up.
- The experimental zones stay in access mode.
- HW test without beam will take place from mid-July.
- H minus beam preparation for the TL commissioning is a priority.
- There will be beam in the ELENA ring in the same period as the TL installation. Time has to be shared with the installation.

Questions and comments:

- R. Steerenberg asked if there would be any deferred working hours in view of the installation work and beam commissioning. L. Ponce replied that no shifts are foreseen, but that extended hours are not excluded.
- The delay of SEM electronics is followed closely by BI.

AOB

Piquet and standby services during hardware commissioning by R. Steerenberg

- Initially there was a piquet need for the fast restart of Linac4, but due to covid-19 this plan has changed.
- At the moment there is no request for piquet service.
- Specialist and expert support will be needed for HW commissioning.
- Piquet service will be needed when normal operation is resumed.
- Piquet lists should be checked and updated by the groups. (<https://op-webtools.web.cern.ch/planning-dashboard>)

EN-EL interventions

The main points from the presentation by E. Cano.

- Electrical consolidation of buildings 361 and 364 will overlap with Booster IST.
- General services renovation of rooms 361/2-008, 361/2-010, 364/2-014, 364/2-016 in July 2020.
- General services renovation of rooms 361/2-004, 361/2-006 in September 2020.
- General services renovation of building 37 and cable pulling in Bldg. 361 September/October 2020.
- Precautions have been taken to minimize the impact on the PSB hardware commissioning, but disruptions cannot be excluded.

Questions and comments:

- K. Hanke noted that these works should be supervised closely by EN-EL.
- B. Mikulec noted that the lockout should not conflict with the planned HW tests.
- F. Chapuis noted that the lockout is only a half a day and could not be planned otherwise.
- R. Steerenberg proposed to have a regular follow up the status of the renovations by E. Cano at the FOM.

Actions

- EN-EL : Report regularly at the FOM about the progress of the electrical work in B361, B364 and B37

Minutes by L. Bojtar