

Facilities Operation Meeting – Minutes

06/02/2024 FOM 2024 #01 (reports for Week 05), via Zoom

Chair: Alberto Rodriguez

Scientific secretary: Emiliano Piselli

List of participants (41):

Albert M.; Chapuis D.; Comblin J. F.; Cotte D. G.; Demarest P.; Di Giovanni G. P.; Findlay A.; Grzegorz K.; Haase M.; Hans O.; Heylen H.; Huschauer A.; Jaekel M.; Kalinowski M.; Korysko P.; Kuchler D.; Lozano Benito M. L.; Martinengo P.; Mataguez S.; Mikulec B.; Murillo Garcia R.; Newborough A.; Nielsen J.; Pace M.; Petrika G.; Piselli E.; Pittet S.; Ponce L.; Pozzi F.; Rae B.; Rodriguez J. A.; Roncarolo F.; Siesling E.; Skowronski P. K.; Spierer A.; Timeo L.; Topaloudis A.; Turner, M.; Velotti F. M.; Wegner R.; Zevi Della Porta G.

Indico: <https://indico.cern.ch/event/1370330/>

Agenda

1. Summary of the reports from Accelerators & Facilities (*A. Rodriguez*)
2. LIC Central Timing reboot (*G. Kruk*)
3. Equipment expert actions during commissioning of the facilities (*P. Skowronski*)
4. Start date for stand-by / best effort services in 2024 (*A. Rodriguez*)
5. Requests to run after the end of the protons in 2024 and during the LS3 (*A. Rodriguez*)
6. Short-term injectors schedule outlook (*A. Rodriguez*)
7. AOB

1. Summary of the reports from Accelerators & Facilities (*A. Rodriguez*)

A. Rodriguez mentioned that there won't be a written report this week. Next week, there will be a request that all machine supervisors and coordinators create and upload their reports to the Indico webpage <https://indico.cern.ch/category/17401/>, following the same process as last year's accelerator operations.

TI

J. Nielsen had nothing to report this week.

LINAC4

J. F. Comblin reported that the Linac 4 hardware commissioning began last Wednesday. *R. Wegner* was responsible for the RF commissioning, which proceeded smoothly and concluded on Friday evening, finishing ahead of schedule. Simultaneously, the OP team reviewed the checklist and identified issues with a BTM, a Semgrid, and a power converter. Access was

required on Monday morning to address these faults, and all issues have now been resolved. Beam commissioning started on Monday afternoon.

J. F. Comblin also extended special thanks to *Jose-Luis Sanchez-Alvarez* for being available and conducting timing tests while away from CERN.

PSB

G. P. Di Giovanni (on behalf of *F. Chapuis*) reported significant progress in hardware commissioning, with 56% of the checks already completed successfully. He mentioned a few non-critical issues that have been resolved in collaboration with specialists:

- POPS-B: A switch position failure in the SEPAM on the Spare Circuit (EMD404*25), which had no effect on operational circuits
- Fan Dump: A lack of supervision was noted, but it did not affect External Conditions;
- BE.KFA14L1: An interlock lockout was not removed, preventing the pulse. It has now been removed;
- B-Train: A reset at the beginning of the cycle was found to be disabled, which prevented POPS-B from pulsing;

PS

B. Mikulec said that the PS Switchyard hardware commissioning is going well and is almost finished. Then she said that *D. Bodart* discovered an issue at PS MU61 during the audio-visual patrol. The magnet team found out that the knocking noise was coming from the figure-of-eight loop winding on the right outer side. Luckily this part is accessible in situ, and the plan is to fix the loose winding through an adjustment of the shimming this morning.

2. LIC Central Timing reboot (*G. Kruk*)

Slides ([hyperlink](#))

G. Kruk requested a 45-minute intervention to restart the LIC Central timing. After some discussions, it was planned to carry out the intervention on Monday morning.

ACTION #1 (A. Rodriguez): Find a suitable timeslot for the intervention.

ACTION #1: closed on Wednesday, following a general agreement among the involved parties. The intervention has been scheduled to take place on Monday February 12th at 10h30. An email has been sent to the FOM mailing list to inform everybody.

3. Equipment expert actions during commissioning of the facilities (*P.*

Skowronski)

Slides & Excel table ([hyperlinkSlides](#) & [hyperlinkExcelTable](#))

B. Mikulec stated that all this information should be transferred to the equipment experts. She inquired whether this should be done through the FOM list or by directly contacting individuals based on the names *P. Skowronski* listed in the Excel table. *P. Skowronski* responded that it would be better to reach out to the equipment link person designated by

the commissioning coordinator and to also send an email to the entire FOM mailing list as well as the experts directly.

In the first iteration, it was agreed that *P. Skowronski* will contact the coordinators of the impacted facilities to request new dates for resolving the issues listed in the Excel sheet.

F. Roncarolo said that he will forward this information to the BI coordinators and section leaders to get feedback.

4. Start date for stand-by / best effort services in 2024 (*A. Rodriguez*)

Slides ([hyperlink](#))

R. Wegner mentioned an internal discussion within the SY-RF group, highlighting that there are three piquet services, each starting on a different day. He took the initiative to request *R. Steerenberg* to ensure the standby piquet service is operational as soon as the next schedule is made. *R. Wegner* expressed a preference for initiating the piquet service immediately, as relying on a best-effort basis would complicate matters.

G. P. Di Giovanni stated that in the event of issues, they will attempt to contact people on a best-effort basis, understanding the capabilities of RF.

B. Mikulec mentioned that the PS is expected to receive beam on February 21st, and thus, they are interested in having the piquet service operational by Monday, February 19th.

ACTION #2 (Equipment representatives): *A. Rodriguez* requested the equipment representatives to verify whether the presented dates are acceptable. So far, feedback has been received only from EPC and RF.

5. Requests to run after the end of the protons in 2024 and during the

LS3 (*A. Rodriguez*)

Slides ([hyperlink](#)).

ACTION #3 (Physics and MDs coordinators, responsible for the different accelerators): Submit to the FOM support mailing list a request if would like to run after the end of the protons in 2024.

ACTION #4 (Physics and MDs coordinators, responsible for the different accelerators): Submit to the FOM support mailing list a request if would like to run during parts of LS3.

M. Pace inquired about a deadline for this action. *B. Mikulec* responded that a decision is expected soon, likely by the end of March. *M. Pace* emphasized the necessity for the BE-CSS group to have a comprehensive list of requests to effectively provide feedback or identify potential constraints to meet these requests. She also mentioned that maintaining many systems running could pose challenges, as it might lead to conflicts with the installations scheduled for the long shutdown.

M. Pace also inquired whether *A. Rodriguez* would be collecting all comments from the equipment groups regarding these requests. *A. Rodriguez* responded affirmatively, stating that all this information would be passed to the IEFC meeting.

B. Mikulec mentioned that EN-ACE will be the group tasked with filtering these requests to check their alignment with ongoing activities and feasibility.

6. Short-term Injectors Schedule Outlook (*A. Rodriguez*)

Slides ([hyperlink](#)).

L. Ponce commented that the start of ELEN with the H- source will be earlier than previously presented, and they hope to begin by the end of this week. *A. Rodriguez* agreed to relay this information to *R. Steerenberg* to adjust the date for the next version of the document.

7. AOB

A. Rodriguez mentioned that a survey has been prepared by *E. Piselli*:

<https://forms.office.com/e/FcAqb2Wf8e>

The feedback from this survey is important for the FOM team to improve our meetings and make them more relevant. *A. Rodriguez* stated that the survey aims to collect any thoughts on the meeting's content, format, and overall experience, with the goal of incorporating your feedback into our future planning and execution. *A. Rodriguez* has assured that all responses will be kept confidential and analysed collectively to ensure privacy.

Minutes by E. Piselli