

Beam Commissioning Working Group

Minutes for 18 October 2019

Present: V. Kain, G. Rumolo, A. Huschauer, J. Coupard, H. Damerou, G. P. di Giovanni, K. Hanke, D. Jacquet A. Lasheen, K. Li B. Mikulec, R. Steerenberg, F. Tecker, F. Velotti

Approval of Minutes and Matters Arising - V. Kain

The minutes of the 04th of October were approved without comment.

Injector Schedule 2020/2021 - R. Steerenberg

Presentation

- R. Steerenberg presented the main considerations for the injector schedule 2020/2021. He stressed that the injector schedule may change depending on the LHC schedule (e.g. for the LHC MD weeks which should not overlap with the injector MDs, technical stops and special runs).
- The LHC schedule is also determined by the delay in the experiments (3 weeks of delay declared for CMS), but R. Steerenberg specified that this should not change the date of delivery of the PROBE beam from the injectors.
- The slots in orange correspond to the AWAKE runs and the slots in white correspond to the HIRADMAT runs.
- Concerning ions, no ion beam will be sent to the North Area in 2021, only to the LHC. An LHC MD block is tentatively set before the LHC ion run (with preparation of beams in the injectors). The period for the slip-stacking commissioning need to be determined and should avoid the AWAKE run. More details about the slip-stacking commissioning are required.

Discussion

- H. Damerou asked whether the dates for the controls maintenance period early 2021 could still be negotiated (NB: falls during the PS beam commissioning period).
- F. Tecker pointed out that the delivery of the low intensity beam to TOF should be in W14 (and not W3 as in the schedule). R. Steerenberg will clarify the schedule: the beam should be prepared in the PS with low intensity for W3, but indeed only delivered to the TOF target on W14 as already specified in the schedule (2 months of target commissioning).
- A. Lasheen asked whether the SPS MDs will be organized as in 2018 (Thursday parallel MDs are done with long cycle, while parallel MDs are still possible during the week on short flat bottom cycles). G. Rumolo confirmed, and added the action that a discussion on the MD organization during the 2021 run should be organized.
- A. Huschauer raised the question on the consequences of a delay of the LHC schedule on the end of year LHC ion run.

- V. Kain noted that the proposed 2021 run is long, and that a longer stop between 2021 and 2022 could be relevant for debugging and corrections of the issues found with the injectors upgrades. The YETS may run a week earlier depending on the remaining work to be done.

Actions

- **G. Rumolo : A discussion on the MD organization during the 2021 run will be organized.**

Commissioning Organization 2020 - A Proposal - V. Kain

Presentation

- V. Kain presented a proposal of organization for LIU working groups in view of the 2020/2021 recommissioning period - possibly beyond this period.
- The structure would consist of three meetings
 - A weekly "FOM light" to follow-up the progression of ISTs (only with equipment groups) and the HWC period
 - A weekly meeting combining the existing working groups (Technical coordination, Beam Dynamics, Commissioning) per machine, starting from the HWC period
 - A bi-weekly Accelerator Performance Meeting targeting the beam performance across all the injectors and synergies, starting from or after the beam commissioning period

Discussion

- R. Steerenberg pointed a possible overlap between the "FOM light" with the EN-ACE technical coordination meetings. He proposed that these meetings could follow up the progression of the ISTs, as EN-ACE is in charge of setting up the planning and this would allow to track the required adjustments to the schedule.
- A. Huschauer suggested the meetings to be led by a single chairperson and deputy with a core team to represent the different expertise/groups, rather than a team of chairpersons.

Addendum

Additional comment from R. Steerenberg: The Technical Coordination Meetings will follow up on the IST periods the (light-)FOM should start with the hardware commissioning, when OP becomes responsible for the machines. Presently it looks to be LINAC4 that starts with hardware commissioning, but it may well be ELENA (tbc).