Beam Commissioning Working Group

Minutes for 6 December 2019

Present: A. Huschauer, S. Albright, R. Alemany Fernandez, D. Cotte, J. Coupard, G. P. Di Giovanni, B. Goddard, M. Gourber-Pace, A. Lasheen, B. Mikulec, G. Papotti, F. Tecker,

Meeting objectives

This meeting is dedicated to the Dry Run schedule in the PS.

Approval of Minutes and Matters Arising - A. Huschauer

The minutes of the 29th of November are approved without comment.

Dry Runs: PS - D. Cotte

Presentation

- The schedules are still approximate where defined, a final iteration of ISTs and HW planning are required before it can be frozen.
- Some simpler tests are are present in the check list tool and require small updates, new systems and complicated tests are treated separately.
- Two Dry Runs have been completed already.
- CO + OP dry runs have been defined, some are still to be scheduled.
- EPC + CO tests have been identified and scheduled, support from OP will be needed.
- ABT + OP tests have been defined, all but one is scheduled, support from CO will be needed.
- OP tests have been defined and scheduled, support will be needed from all equipment groups.
- STI + OP tests have been defined and scheduled, support will be needed from BI and CO.
- BI tests have been defined and scheduled, support will be needed from CO.
- RF tests have been defined and scheduled, support will be needed from CO.

Discussion

- A. Huschauer asks what the purpose of the SEM-PS destination is, D. Cotte explains it is one of the two methods that have been requested to ensure the SEM grid is not damaged during injection matching studies, the other is an option in the sequence manager to lock the sequence.
- M. Gourber-Pace explains that the automatic supercycle filling will only become available in late 2020 and D. Cotte says adds that the deadline is marked as "to be defined" in the schedule and will be discussed with CO.

- A. Huschauer asks if the PS VISTAR will be modified to suit 32 PLS users, D. Cotte says yes.
- M. Gourber-Pace asks when the VISTARs will be tested, D. Cotte says it will be staged to be done when each one is ready to be tested.
- M. Gourber-Pace asks if there will be new external conditions for the new destinations and when they will be tested. D. Cotte says yes and these can be tested some time after the destination control is tested.
- R. Alemany Fernandez asks if the ion injection septum will be tested during the injection dry run, D. Cotte says yes, it will be added to the planning along with KFA28.
- A. Huschauer asks if it will be possible to use the injection kicker along the ramp, and D. Cotte says yes, after discussions with TE-ABT, the 2nd injection instance will be usable ass it was before LS2.
- A. Huschauer remarks that virtual correctors will have to be included in the new optics model of the PS so that YASP can be used to calculate the necessary displacement of the main magnets during the realignment campaign.
- A. Huschauer asks M. Fraser if there will need to be any modifications of YASP for the transfer line matching, M. Fraser says possibly, but it's more of an MD study so may not be worth implementing in YASP.
- R. Alemany Fernandez asks if the BI tests include the new wire scanner, D. Cotte says yes. R. Alemany Fernandez has asked for the application to implement the particle type for the measurement, and requests that the functionality be tested in the dry run. D. Cotte says that will be checked.
- A. Huschauer asks if the SEM grids and BTVs in TT2 and the connected lines will be tested, D. Cotte says yes.

AOB: Status of ISTs and Next Steps - J. Coupard

- The e-mail has been sent to BI, RF, STI, ABT, EPC, MP, MSC and VAC.
- There was a meeting with EPC to discuss the possible resource conflict between the PSB and PS. The same resources will be needed for both machines, which means the tests cannot be run in parallel, which is the case in the current master schedule. A proposal will be brought forward for how the tests can be rearranged to compensate.
- If the EPC tests are displaced it will be necessary to ensure there's no knock on effects that causes problems for the other groups.
- R. Alemany Fernandez asks to confirm that the schedule goes up to beam commissioning, as LEIR starts late. J. Coupard confirms that everything on the planning tool is being considered. R. Alemany Fernandez says that there has been feedback from RF that there is overlap between LEIR and AD/ELENA and asks how this will be considered. J. Coupard says that is still to be decided as a different group handle the anti-proton machines, and suggests discussing it within the LIU-CCC. A. Huschauer agrees that this would be a suitable place to discuss the overlap between injectors and anti-protons, it will be added to the list of topics for future meetings.

- The coordinators of the experimental areas will need to consider the transfer lines to their experiments, the elements in the accelerator access area will need to be worked on according to the accelerator schedule, not the experiment's schedule.

Next meeting will be on the 13$^{\text{th}}$ of December discussing the status of Dry Run planning in the PSB and HWC planning in the PS and PSB.