



**ELENA:
Commissioning Meeting**

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1 PLANS FOR THE ION COMMISSIONING

T. Eriksson says that it has been decided to start working with no RF (no acceleration) and with the BTV 118 locked in the beam line. A formal lock-out form will be filled for the BTV to be sure that it can't be taken out the beam path.

The main objective is clearly to commission the new Transfer Lines before the end of LS2. To do so, we need a working ion source at 100 kV with good reliability. Main objectives are to increase the intensity (to ease the line setup), to improve the longitudinal structure of the beam, investigate the observed intensity fluctuations over several cycles, study the optics of the source-to-ELENA transfer line and improve injection into ELENA.

C. Carli reminds that Ole Marqversen was kindly asked to change the gain of the first pickup in order to be able to use it as a diagnostic tool for the beam structure.

For the moment only the BTV is available, there are 2 electronics sets available for the SEM grids that could be used. These control electronics could be installed in the LNS/LNI lines. It also could be a good moment to try the new electronic prototype that has been developed by M. Hori.

G. Tranquille says that a new position has been created at BE-BI to help with the electronic control boards. The contract starts the 3rd of June.

T. Eriksson reminds that GBAR is still interested in getting H- beams in 2019.

C. Carli asks if it is possible to extract the beams after a very small number of turns. S. Pasinelli says that the timing system offers enough flexibility to do it.

The AD commissioning team will be on duty in ACR during office hours from June to September. Monday 10:00 briefings will be held when required.

2 SOURCE RESTART

The new transformer has been received. So far, the first tests at 100kV were not satisfactory but some modifications were applied and a new testing campaign is on-going.

3 SUBSYSTEM AVAILABILITY

F. Ehm reminds that all the applications have to be modified according to the new LSA/INCA/JAPC libraries. He also says that all the FECs should be upgraded to CentOS 7. T. Eriksson says that the winter shutdown could be a good moment to do it.

For the experiments, the timing triggers come from AD. Felix is asking if they need them? In other words do we need to pull new cables? S. Pasinelli will double check. In any case, AEGIS will still need the existing triggers.

The Beam Request Server (BRS) is ready. The cycle editor is still under development but will be ready on time

TE-EPC FGCs have been upgraded to V63 and tested (all but the EC filament and the very beginning of LNI).

Magnets have been visually inspected and are ready.

The Ion switch is ready.

RF Tomoscope needs Frev so it needs LLRF which is not that simple to restart... M.E. Angoletta says that there is no man power for this for the moment.

The lockout method of the HL RF should be discussed with Mauro Paoluzzi.

Kicker and septum are ready.

4 AOB

The ELENA lines element supports are being installed according to the master planning.

The Tune measurement kicker will be dismantled as late as possible to maximise the commissioning time. It is imperative that everything is reinstalled and baked-out before 2020 hence this operation must take place before the 11/11/19.