

Minutes PSB Upgrade WG Meeting 10th May 2016

Participants: E. Benedetto, J. Coupard, G. Csendes, T. Dobers, A. Floriduz, R. Froeschl, G.M. Georgiev, G. Guidoboni, M. Haase, K. Hanke, J. Hansen, C. Lolliot, B. Mikulec, R. Mompo, M.M. Morgenstern, A. Newborough, S. Pittet, J. Tan.

Agenda (<https://indico.cern.ch/event/514686/>):

- [1. Approval of Minutes](#)
- [2. Communications](#)
- [3. Follow-up of Open Actions](#)
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1. Approval of Minutes

- [The minutes of the last LIU-PSB WG meeting #172](#) have been approved.

2. Communications

- **LIU-PT Meeting:**
 - The last general LIU-PT meeting was held on 21st April 2016 (<http://indico.cern.ch/event/518641/>).
 - [J. Coupard presented the EYETS activities for all machines](#).
 - The LIU-ions TDR has just been released.
 - K. Hanke is hoping to get a PhD student to work on LIU-related subjects.
- **LIU and EN-EPC Activities:**
 - A meeting took place on 2nd May 2016 (<http://indico.cern.ch/event/522018/>).
 - S. Pittet presented the [EPC WP for the LIU-PSB project](#). He mentioned that some clear specifications were missing from ABT for the ALG1&2 upgrade (septa in extraction lines) as well as for the recombination and transfer line bending magnets. There was no ABT representative present to comment; A. Newborough said that the final specifications were related to the ongoing magnet design and that he was steadily reiterating with S. Pittet.
 - In the presentation it was also mentioned that certain lessons could be learned from the recent POPS incident; TE-EPC will follow up with EN-CV to add some openings in the room in the new MPS building where the capacitors will be located; moreover circuit breakers between the capacitors will be added.

Assigned to	Due date	Description
J.Borburgh	2016-08-30	Provide final specifications for ALG1+2 power converter upgrade.

Assigned to	Due date	Description
A.Newborough	2016-08-30	Provide final specifications for extraction line bending magnet power converter upgrade.

- **LIU and EN-MSA Activities:**

- A [meeting](#) took place this morning. A. Newborough reported for LIU-PSB. He stated that follow-up was needed for the BTP transfer line supports; K. Hanke has already requested this to Y. Muttoni and the integration team and is following this up in the integration meetings.
- Another point that was brought up was that a technical solution should be proposed this year by M. Buzio for the measurement of the magnetic field (see open action).

3. Follow-up of Open Actions

- K. Hanke went through the list of open actions:
 - Vacuum window at BTM exit: Will be the subject of an upcoming LIU-PSB meeting; deadline should be extended accordingly.
 - SRR for BLMs: No feedback yet. J. Tan will come back with an update at the next meeting.
 - F. Boattini: Provide the specifications for the maximum operational current of the power converters of the upgraded MPS. The document is in the EDMS approval process. The action can be closed.
 - K. Hanke, B. Mikulec: Clarify with all the relevant experts the need for new supports for the equipment in the BTP line. The need for new supports is clear, but now the design of new supports should be started. The action should therefore be rephrased and attributed to the relevant person with a proposed deadline of the end of this year.
 - Report which is the work that the TE-EPC Group can carry during the EYETS: J. Coupard will follow this up with D. Hay.

4. HST Readiness for HW Installation/Commissioning

- B. Mikulec started recalling the schedule update following the announcement of delays for the Linac4 100 MeV commissioning stage at Monday's [Linac4 installation meeting](#). Then she went through the different systems that will be installed in the HST to understand their readiness for installation and HW commissioning.
 - Stripping foil assembly: No representative present.
 - Stripping foil controls: Ready (P. van Trappen sent information by email).
 - BSW magnets: No representative present.
 - BSW controls: C. Lollot said that he received all the material, which now has to be assembled and tested. No serious issues are expected.

- BSW transformers + EPC rack installation: D. Aguglia confirmed by email that the installation will be done in June. G. Georgiev needs to know the dates more precisely to plan the cabling work.
- BTVs: OK
- BCTs: OK
- BLMs (standard + diamond): Status needs to be confirmed by C. Zamantzas.
- Dumps: No representative present.
- H0/H- monitor: B. Mikulec reported that the second version of the prototype electronics has been received and should now be tested. J. Tan mentioned that the low Linac4 peak current was a concern; A. Lombardi has promised to discuss the source options with J. Lettry.
- BIS: No representative present.
- WIC: OK; only correct configuration to be done.
- Timing: No representative present.
- Applications: Ongoing work; status to be confirmed by J. Sanchez.

5. LIU-PSB Budget

- K. Hanke went through the spendings of the different work packages.
 - EN-EL: 12% spent; it is not clear if the remainder will still be spent this year. Feedback on this question is requested - in general for ALL work packages.
 - Transport: Only 1% spent. There was no representative present, but it is hard to imagine that this year's budget will be spent in 2016, as the machine is currently running.
 - EN-STI: Only 2% spent. No representative present.
 - BE-BI: J. Tan mentions that the largest fraction of the missing spending is due to cabling during the EYETS, which will be transferred to an EN-EL budget code (general policy). The cost of the prototype wire scanner will be known soon, and some additional money will be spent on the BTMS acquisition chain.
 - TE-ABT: Spending is not sufficient. No representative present.
 - TE-EPC: Expecting a big step in spending for POPS-B.

6. AOB

- S. Pittet mentioned concerns with the Bdl converters. They will have to be replaced, as the LIU specifications cannot be obtained.
- Decabling campaign: An on-site visit (VIC) took place on 16th April 2016 with the aim to answer the question how the racks could be stabilised during the decabling campaign when it is planned to remove the full false floor. D. Hay will soon circulate the minutes (remark: The minutes have been circulated the day after the LIU-PSB meeting). During the VIC no solution was presented, but HSE seem to have a proposal, which needs now to be followed up.
- G. Minchev mentioned once more that the deadline for EYETS cabling requests was end of June 2016.
- R. Mompo asked for the WIC protection for EPC installations during EYETS. S. Pittet answered that they were aware that the WIC will not be deployed by then and that the old protection system has to stay in place until LS2.
- M. Haase: A prototype for the TFB amplifier is now available, but some modifications will be required. A 3D model for the Finemet cavity has also been produced and will be sent to M. Lacroix for integration.

- The next meeting is planned for the 24rd May 2016 on safety files and radioactive waste.