

<b>Quality Management</b>	Kind of Document	Template Number:	
	<b>Meeting Minutes</b>	Q-FO-QA-0012	Page 1 of 3

**Meeting:** 7<sup>th</sup> Workshop BINP FAIR

**Date:** 8.11 – 11.11.2021 **Author:** L.Urban

**Document Number:** : F-PR-HEB-en-0013

A: Action, D: Decision, I: Information

W	ho
D	

## 1 Discussion

I	<p>8.11.2021 Discussion: 9:00-12:00</p> <p>Assembly drawing: F-PR-HEB-en-0012_Report_dip15_2D_assembly-V001.docx</p> <ol style="list-style-type: none"> <li>Information on Screws/Bolts: The drawings are ok. The Information for screws and bolts is given in the drawings for the magnet! We do not need further information on the assembly drawing.</li> <li>Revision number for the Magnet was corrected.</li> </ol> <p>New drawing is available: <a href="https://edms.cern.ch/document/2569798/1">https://edms.cern.ch/document/2569798/1</a></p> <p>Bakeable chambers:</p> <ol style="list-style-type: none"> <li>How do the supports look like for bakeable chambers? GSI has to give more information and pictures for the supports to BINP. This needs still to be clarified. Week 48/49</li> </ol> <p>FEM MV010</p> <ol style="list-style-type: none"> <li>Revision number is missing in the report. BINP will upload the new Version soon.</li> </ol> <p>New version is available: <a href="https://edms.cern.ch/document/2429060/2">https://edms.cern.ch/document/2429060/2</a></p> <p>RISK Assessment:</p> <ol style="list-style-type: none"> <li>GSI needs more information about the handling of chambers in radioactive areas like it was written in the Risk Assessment for NC magnets produced by BINP. This needs to be clarified.</li> </ol> <p>FDR quads</p> <ol style="list-style-type: none"> <li>An additional Document is needed for the fixation of the chamber into the magnet. In this document, a short description of how the chamber will be clamped in the magnet is required (e.g. wrapped with Kapton tape etc.). In addition, the fixation for steerer chambers can be described there. GSI has to give a variant of the document about the chamber fixation in the quadrupole magnets.</li> </ol> <p>Dashboard Batch 4:</p> <ol style="list-style-type: none"> <li>LU will change the dashboard similar like Batch 2/3 with sequences.</li> <li>Changed dashboard will be presented in week 47</li> </ol> <p>Dip13 chambers FAT reports:</p> <ol style="list-style-type: none"> <li>The criteria in the FAT reports for the RGA is still taken from Batch 1. GSI asked kindly to use the RGA criteria from the specification from Batch 2/3. (F-DS-HEB-en-VC_0052_Detailed_Specification_Batch_2_3_vacuum-V007)</li> </ol>		
---	--	--	--

9.11.2021 9:00-12:00  
Workshop visit  
Check of raw material for dipole chambers.

10.11.2021 14:00-15:00  
TÜV vacuum training (visual inspection/ mechanical inspection).

10.11.2021 16:00-18:00  
HEBT vacuum session:

Short Status Batch 4 from GSI prepared by LU.

QS092 3D (Batch 2/3):

1. The chamber needs a new design. The rectangular cross section /aperture of the chamber will be changed to a round cross-section.
2. GSI has to give a new variant of the pump location and fixation for this chamber (3D&2D).
3. New model is planned to be uploaded in to EDMS in week 47/48

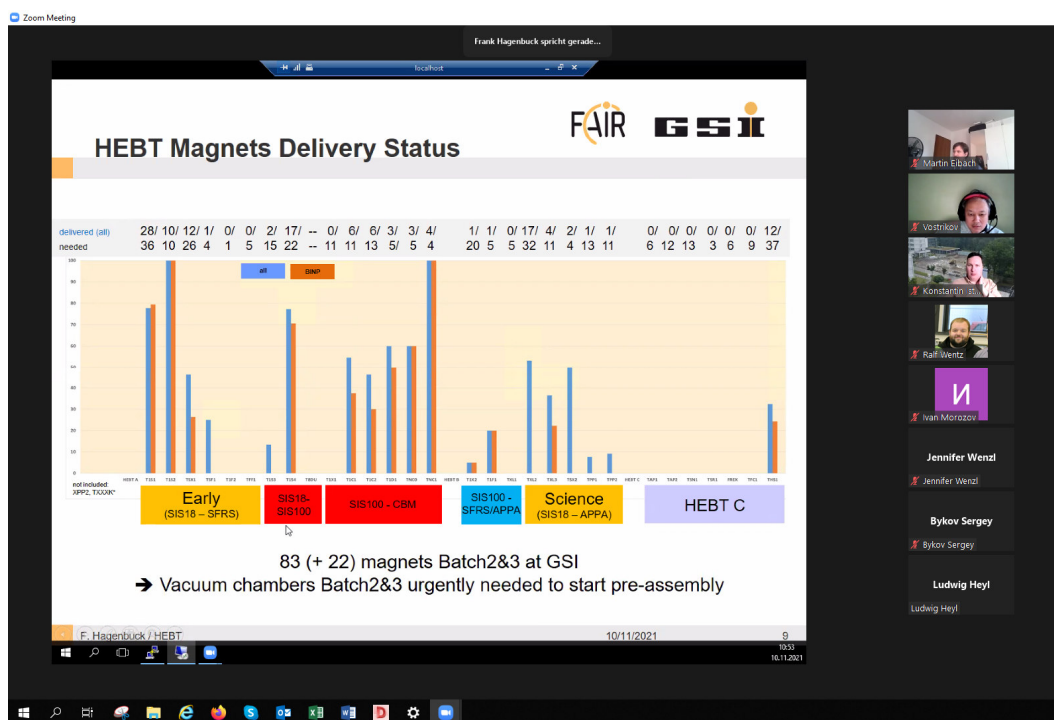
Prototype of pumping chamber (Batch 4): Production of the FoS pumping chamber from now needs 1 ½ month more. It is necessary to debug the equipment to obtain the requested accuracy and then use it for serial production.

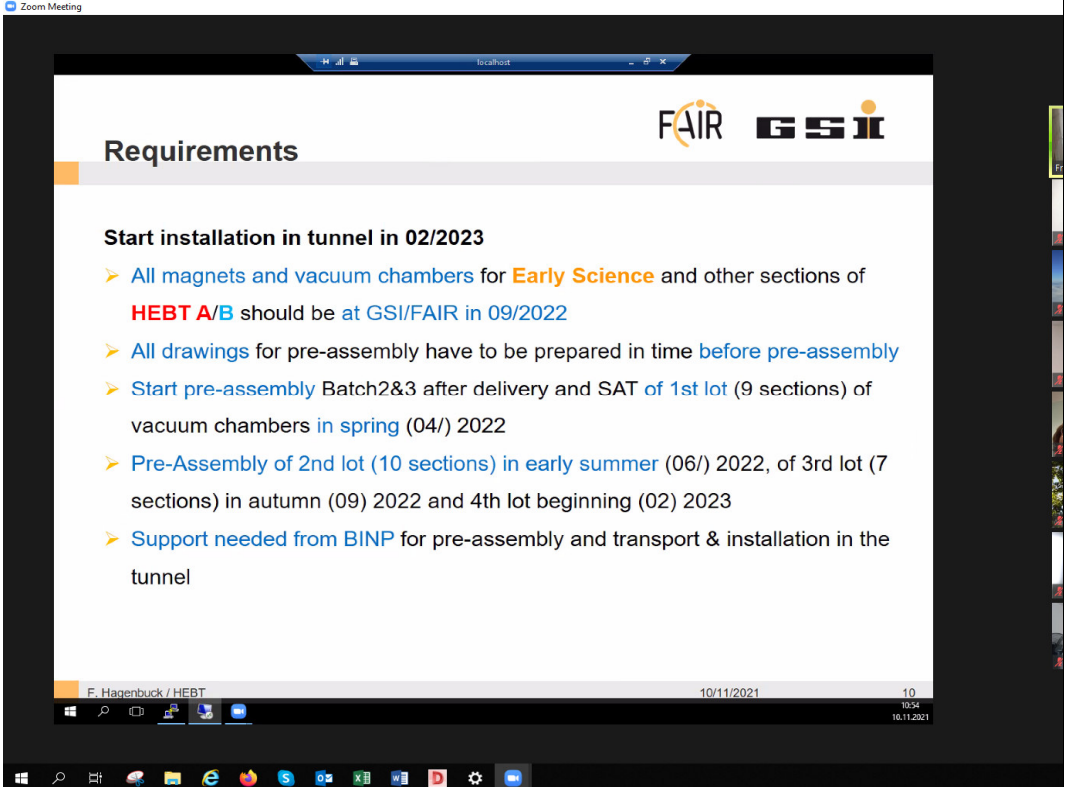
X-Cross chamber under production and it will be finished in this year.

Checking and approving 3D and 2D (Batch 2, 3, 4) by GSI still takes a lot of time, sometimes more than 3 weeks.

BINP received bellows from two different companies (China and Ufa, Russia). The necessary tests are done. All bellows types checked by GSI and approved for production. Manufacturing of the bellows units (Batch 4) and vacuum chambers with bellows (Batch2&3) began.

Presentation from Frank, regarding the delivery times and IO





11.11.2021 14:00-16:00  
HEBT Magnet Session

Raw material:

1. Option MARPHIL France (ss sheets)
2. China for plates and tubes. GSI claims we are running out of time. A quality comparison between both companies isn't possible anymore.

For the 4mm sheets, BINP wants to have more options. The contract for transport from China to BINP is not yet signed. Signing is possible at the end of November,

BINP has profiles for 40% of the dipole chambers, left over from Batch 1. One sheet of 4.76 mm is at BINP.

AK said it's not good just produce partly batches. The Workshop wanted to produce the whole batch of chambers. This point was given to the management from FAIR and BINP to think how this problem can be overcome.

Dashboard: We discussed new dates and sequences during the October visit, but the dates were changed again in the Dashboard by BINP due to delays in receiving the raw materials.  
This delay could shift the installation phase for the HEBT and must be avoided. However, BINP stated that this is the actual situation

AK would like to wait for another 2.5 month before shifting the installation phase and wait what is happened at beginning of next year!  
AK will try to make the exact planning as soon as possible. A new Dashboard should be released in week 47/48.