

 – Protocol		Nr.: Feb 4, 2020 , 14:00 – 16:00																																												
Machine Meeting (MM)		Chair: M. Bai																																												
Distribution	Machine coordinators and their deputies, departments leaders accelerator, participants, Management board																																													
Participants	<u>Attendees</u>																																													
	<table border="1" data-bbox="395 521 890 1189"> <tr> <td><input checked="" type="checkbox"/> Stephan Reimann</td> <td><input type="checkbox"/> Markus Vossberg</td> </tr> <tr> <td><input type="checkbox"/> Ralph Hollinger</td> <td><input checked="" type="checkbox"/> Klaus Tinschert</td> </tr> <tr> <td></td> <td><input type="checkbox"/> Fabio Maimone</td> </tr> <tr> <td><input checked="" type="checkbox"/> Lars Groening</td> <td><input type="checkbox"/> Sascha Mickat</td> </tr> <tr> <td></td> <td><input type="checkbox"/> M. Kaiser</td> </tr> <tr> <td><input type="checkbox"/> Gerald Schreiber</td> <td><input type="checkbox"/> Bernhard Schlitt</td> </tr> <tr> <td></td> <td><input type="checkbox"/> A. Schnase</td> </tr> <tr> <td><input checked="" type="checkbox"/> Markus Steck</td> <td><input type="checkbox"/> Danyal Winters</td> </tr> <tr> <td></td> <td><input type="checkbox"/> Sergey Litvinov</td> </tr> <tr> <td><input checked="" type="checkbox"/> Frank Herfurth</td> <td><input type="checkbox"/> Zoran Andelkovic</td> </tr> <tr> <td><input type="checkbox"/> Christina Dimopoulou</td> <td><input type="checkbox"/> Jon Roßbach</td> </tr> <tr> <td></td> <td><input type="checkbox"/> Regina Heß</td> </tr> <tr> <td><input checked="" type="checkbox"/> Winfried Barth</td> <td><input type="checkbox"/> S. Yarmychev</td> </tr> <tr> <td></td> <td><input checked="" type="checkbox"/> Hartmut Vormann</td> </tr> <tr> <td><input type="checkbox"/> Gertrud Walter</td> <td><input type="checkbox"/> Kalliopi Dermati</td> </tr> <tr> <td></td> <td><input type="checkbox"/> Markus Romig</td> </tr> <tr> <td></td> <td><input type="checkbox"/> Stephan Teich</td> </tr> <tr> <td><input checked="" type="checkbox"/> Udo Weinrich</td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/> D. Severin</td> <td></td> </tr> <tr> <td><input type="checkbox"/> M. Sapinski</td> <td><input checked="" type="checkbox"/> C. Hessler</td> </tr> <tr> <td><input checked="" type="checkbox"/> Peter Spiller</td> <td><input type="checkbox"/> Jens Stadlmann</td> </tr> <tr> <td><input checked="" type="checkbox"/> Markus Schwickert</td> <td><input checked="" type="checkbox"/> Emma Haettner</td> </tr> </table> <p style="text-align: right;">*Types: A = Action, D = Decision, I = Information</p>	<input checked="" type="checkbox"/> Stephan Reimann	<input type="checkbox"/> Markus Vossberg	<input type="checkbox"/> Ralph Hollinger	<input checked="" type="checkbox"/> Klaus Tinschert		<input type="checkbox"/> Fabio Maimone	<input checked="" type="checkbox"/> Lars Groening	<input type="checkbox"/> Sascha Mickat		<input type="checkbox"/> M. Kaiser	<input type="checkbox"/> Gerald Schreiber	<input type="checkbox"/> Bernhard Schlitt		<input type="checkbox"/> A. Schnase	<input checked="" type="checkbox"/> Markus Steck	<input type="checkbox"/> Danyal Winters		<input type="checkbox"/> Sergey Litvinov	<input checked="" type="checkbox"/> Frank Herfurth	<input type="checkbox"/> Zoran Andelkovic	<input type="checkbox"/> Christina Dimopoulou	<input type="checkbox"/> Jon Roßbach		<input type="checkbox"/> Regina Heß	<input checked="" type="checkbox"/> Winfried Barth	<input type="checkbox"/> S. Yarmychev		<input checked="" type="checkbox"/> Hartmut Vormann	<input type="checkbox"/> Gertrud Walter	<input type="checkbox"/> Kalliopi Dermati		<input type="checkbox"/> Markus Romig		<input type="checkbox"/> Stephan Teich	<input checked="" type="checkbox"/> Udo Weinrich		<input checked="" type="checkbox"/> D. Severin		<input type="checkbox"/> M. Sapinski	<input checked="" type="checkbox"/> C. Hessler	<input checked="" type="checkbox"/> Peter Spiller	<input type="checkbox"/> Jens Stadlmann	<input checked="" type="checkbox"/> Markus Schwickert	<input checked="" type="checkbox"/> Emma Haettner	
<input checked="" type="checkbox"/> Stephan Reimann	<input type="checkbox"/> Markus Vossberg																																													
<input type="checkbox"/> Ralph Hollinger	<input checked="" type="checkbox"/> Klaus Tinschert																																													
	<input type="checkbox"/> Fabio Maimone																																													
<input checked="" type="checkbox"/> Lars Groening	<input type="checkbox"/> Sascha Mickat																																													
	<input type="checkbox"/> M. Kaiser																																													
<input type="checkbox"/> Gerald Schreiber	<input type="checkbox"/> Bernhard Schlitt																																													
	<input type="checkbox"/> A. Schnase																																													
<input checked="" type="checkbox"/> Markus Steck	<input type="checkbox"/> Danyal Winters																																													
	<input type="checkbox"/> Sergey Litvinov																																													
<input checked="" type="checkbox"/> Frank Herfurth	<input type="checkbox"/> Zoran Andelkovic																																													
<input type="checkbox"/> Christina Dimopoulou	<input type="checkbox"/> Jon Roßbach																																													
	<input type="checkbox"/> Regina Heß																																													
<input checked="" type="checkbox"/> Winfried Barth	<input type="checkbox"/> S. Yarmychev																																													
	<input checked="" type="checkbox"/> Hartmut Vormann																																													
<input type="checkbox"/> Gertrud Walter	<input type="checkbox"/> Kalliopi Dermati																																													
	<input type="checkbox"/> Markus Romig																																													
	<input type="checkbox"/> Stephan Teich																																													
<input checked="" type="checkbox"/> Udo Weinrich																																														
<input checked="" type="checkbox"/> D. Severin																																														
<input type="checkbox"/> M. Sapinski	<input checked="" type="checkbox"/> C. Hessler																																													
<input checked="" type="checkbox"/> Peter Spiller	<input type="checkbox"/> Jens Stadlmann																																													
<input checked="" type="checkbox"/> Markus Schwickert	<input checked="" type="checkbox"/> Emma Haettner																																													

Important: I = Information D = Decision AI = Action Item			
1	Agenda		
	1. Approval of meeting minutes 2. Follow-up of action items 3. Status update		
2	Update		
	<p>Shutdown planning status Mei informed all the shutdown request list at https://sf.gsi.de/f/44f05474b30b465b8ba5/?dl=1 was first discussed with the PMO last Friday (Jan 31). Mei explained the difference between routine maintenance and major activities. There are still a few requests need to be further clarified by the corresponding technical groups before priority is assigned. The summary of these points can be found in the last MM minutes.</p> <p>The next step is to have the input from Mr. Menke to see the situation of available FTEs for supporting the shutdown works. Mei reminded everyone that currently most of the departments in the FAIR COMM are facing significant deficit FTEs. She also reminded everyone that the new approach of GSI technical request https://www.gsi.de/work/beschleunigerbetrieb/dokumente/gsi_acc_technical_requests.htm is to help us to prioritize our needs to find the right balance w.r.t FAIR phase 0 and FAIR realization</p> <p>Beam time status: http://indico.gsi.de/event/10085/contribution/5 Beam commissioning of UNILAC and SIS18 went well. Both are in principle ready for beam. Concerns:</p> <ul style="list-style-type: none"> • HEST particle counter not yet available due to DAQ controller issue. BEA is working on it per Marcus. This counter is needed for making sure the radiation safety is met • beam dump HHD is not available due to FRS vacuum problems in S1. See the details in the FRS status report below <p>Ion Source status: http://indico.gsi.de/event/10085/contribution/9 No major issues. HLI proton test is successfully done. In progress to switch to C beam for operations</p> <p>UNILAC status: http://indico.gsi.de/event/10085/contribution/8</p>		

- H2 test was successfully carried out. An intensity of 80uA at TK7 upto A3 energy was reached. Beam didn't go to SIS18 due to HHD dump not available during the weekend
- LINAC RF setup went smoothly during the test. Also tested the Alveraz phase setting for protons. Need to reverse for operation. And, A4 is ready for the start of the beam time. Not yet conditioned to the highest voltage
- E4 water leak (inside) is under repair. not yet available. Impact to physics is benign

SIS18 status: <http://indico.gsi.de/event/10085/contribution/12>

Operation risk due to rain water leaking into the kicker room is getting serious. Addressed to GA. But, the action taken so far is not enough to rule out this risk out. Jens is following up. **Will be updated with when permanent solution can be implemented to secure the safe option**

Integrated Installation of new TSIMU1 and HHD is under investigation

HEST status: <http://indico.gsi.de/event/10085/contribution/0>

Other than the beam counter problem mentioned above, HEST is also ready for beam. Deckvermerk of the New HHD line has been submitted. Mei confirmed that she released it.

FRS status: <http://indico.gsi.de/event/10085/contribution/7>

Emma reported the S1 vacuum problem, which is the reason that the beam dump at HHD is not available. A number of actions are followed up. Temporary solution to allow SIS18 operation.

ESR status: <http://indico.gsi.de/event/10085/contribution/11>

A number of experiments are working on preparation. Should be ready for beam coming week.

A lot of vacuum related work at the moment. Well organized coordination of different experimental groups is necessary to avoid conflict and mistakes. Markus will double check with Daniel Winters, who is responsible for the experimental coordination.

Frank Herfurth mentioned that for CRYRING, there is a well defined experimental coordination process/procedure (CRYRING website).

CRYRING status: <http://indico.gsi.de/event/10085/contribution/4>

Preparation for upcoming beam time is ongoing. electron cathode of the e-cooler is exchanged due to the vacuum incident last Nov. During the upcoming beam time, ring vacuum will be separated from the experimental setups

PSU status: <http://indico.gsi.de/event/10085/contribution/3>

FOS in progress. No major issues. Pulsed gas stripper project review upcoming

cw-LINAC status: <http://indico.gsi.de/event/10085/contribution/1>

Cleaning of the SH1 area after the cryo line installation was done. Vertical test of CH2 at IAP@GUF will continue when required oxygen sensor is available. Other planned activities ongoing. No major issues

APO: <http://indico.gsi.de/event/10085/contribution/13>

The activities of the APO is reported in the above link, including the status of follow-up of a handful AIPs (Acc Improvement Projects)

3	Discussion		All	
---	-------------------	--	-----	--

4	Open Action items			
---	--------------------------	--	--	--

- | | | |
|---|-------------------------|--|
| 1. FAIR Booster mode status: R. Baer, D. Ondreka (TBD) | Ralph Bär
D. Ondreka | |
| 2. Provide a list of planned controls release and changes in 2020-2021 along with their potential impact and effect on the GSI existing facilities and systems such as beam instrumentation, power convertor etc | Ralph Bär | |
| 3. Postmortem report on the topic of current controls related issues, in particular the issue that blocked beam injection into SIS18 at the beginning of the Engineering Run template can be found at https://www.gsi.de/fileadmin/Beschleunigerbetrieb/PostMortemAnalysisReport_Template.docx mid-Feb | Jens | |
| 4. work with the relevant technical groups, experts to develop the list of the critical systems/components with information of the existing status as well as the spare parts or other mitigation measures | All | |
| 5. Action: clarify the quality control for critical steps: UW/LG | Lars Groening | |

Any other business

- **Next Machine Meeting: February 11, 2020 - 14:00-15:30 Uhr**
- 1. Approval of meeting minutes
- 2. Follow-up of action items
 1. Special presentation on the UNILAC Emergency-off: (TBC)
- 3. Status update