

 - Protocol	Nr.: 20190115, 14:00 – 15:00
<b>Machine Meeting (MM)</b>	<b>Chair:</b> M. Bai
<b>Distribution</b>	Machine coordinators and their deputies, departments leaders accelerator, participants, Management board
<b>Participants</b>	S. Reimann, D. Severin, U. Weinrich, K. Tinschert, M. Steck, F. Herfurth, P. Gerhard, L. Groening, K. Trumm, M. Schwickert

<b>Important:</b> I = Information D = Decision AI = Action Item	<b>Confidentiality Notice</b> It is requested not to scatter the protocols over the predetermined distribution circle or leave them on the publicly available printers.
<b>1</b>	<b>Agenda</b>
	<p>-- <b>Approval of meeting minutes</b>  <a href="http://indico.gsi.de/event/8252/material/minutes/0.pdf">http://indico.gsi.de/event/8252/material/minutes/0.pdf</a></p> <p>-- <b>Status update from all MKs</b></p> <p style="margin-left: 20px;">a) SIS18 main magnet power convertor for long spill at highest rigidity: K. Trumm/J. Stadlmann</p> <p style="margin-left: 20px;">b) machine setup planning: S. Reimann</p> <p style="margin-left: 20px;">c) others</p> <p>-- <b>Open Action Items followup:</b> all</p>
<b>2</b>	<b>Update</b>
	<p><b>Operations:</b>          beam setup/machine development run plan</p> <p><b>Physics programs: none</b></p> <p><b>Ion Sources status report: all prepared</b></p> <p><b>SIS18 status report:</b>  <a href="http://indico.gsi.de/event/8345/contribution/4">http://indico.gsi.de/event/8345/contribution/4</a></p> <p>Kariheinz showed the schematics of SIS12 and SIS18 modes for powering the SIS18. He confirmed that the at the moment SIS18 modus is active for the upcoming beamtime, which means the maximum ramp rate is limited to 4T/s. The switch between the two modus can be carried out via the control pannel in the BG building. The duration of change can be as short as 30s to 1min. To accommodate both fast ramp and DC mode of SIS18 operation mode, requires bigger cable which at the moment not only posts the challenges to the higher cost but also physical limitation in the cable trays as well as the inside of the cabinet.</p> <p>email von Peter Spiller          - Bei dem nicht den Anforderungen entsprechend dimensionierte Kabel, handelt es sich NICHT wie gerüchteweise verbreitet, um das 20 kV Kabel zwischen der neuen Freifläche Nord und den SVE des SIS18.</p>

	<p>Es handelt sich um drei, ca.30 m lange Kabel, welche die Trafostation die neben dem TK angeordnet ist mit den Stromversorgungseinheiten des SIS18 verbindet.</p> <p>Die ca. 1 kV Spannung führenden Kabel verlaufen auf einer Trasse direkt von dieser Trafostation in den Netzgeräteraum. D.h. es handelt sich um keine unterirdische Kabelführung in Leerohren.</p> <p>Der Abteilung EPS wurden noch einmal die Anforderungen, die sich aus dem Wechsel zwischen Booster- und Experimentbetrieb ergeben, vorgestellt.</p> <p>Die betroffenen Kabel wurden von GE im Rahmen des SIS18 upgrade neu verlegt. Es handelt sich also nicht um eine Maßnahme die im Rahmen GAF ausgeführt wurde.</p> <p>Die Kabel liegen zusammen mit anderen Leistungskabel auf einer Pritsche. Bei einem erneute Austausch sollte eine saubere Trennung hergestellt werden.</p> <p>Die Versorgung des SIS18 Modus (wie letztes Treffen vorgestellt), ist problemlos möglich.</p> <p>Mit der Abteilung EPS wurde über mögliche Vorgehensweisen zur Herstellung eine geeigneten technischen Lösung gesprochen.</p> <p><b>UNILAC status report:</b> <a href="http://indico.gsi.de/event/8345/contribution/5">http://indico.gsi.de/event/8345/contribution/5</a></p> <p><b>HEST status report:</b> none, in operation state</p> <p><b>FRS status report:</b> absence. Will report at OCM</p> <p><b>ESR status report:</b> <a href="http://indico.gsi.de/event/8345/contribution/7">http://indico.gsi.de/event/8345/contribution/7</a></p> <p><b>CRYRING@ESR status report:</b> started discussion on the beam time. Question on the time frame of CRYRING test bed for synchrotron mode. Further clarification at beam time retreat</p> <p><b>CW-LINAC demo:</b> absence</p> <p><b>COMM systems:</b></p> <p><b>ACO:</b></p> <ul style="list-style-type: none"> <li>• longer than 16sec beam process time is under testing</li> <li>• Data master development ongoing, ie. the part for ESR operation. New release could be postponed from originally planned</li> </ul> <p><b>BI:</b></p> <ul style="list-style-type: none"> <li>• Preparation for upcoming beam time</li> <li>• Finishing some prototype for FAIR and to be tested with beam</li> </ul>	
<b>3</b>	<b>Discussion</b>	<b>all</b>
	<ul style="list-style-type: none"> <li>• beam study / machine development: proposed machine development/beam study items <a href="https://sf.gsi.de/f/ed69a8ef26eb490c88c0/">https://sf.gsi.de/f/ed69a8ef26eb490c88c0/</a> were discussed. Synergies of</li> <li>• Technical limitation assessment for AR meeting/JSC             <ul style="list-style-type: none"> <li>• SIS18: DC modes and fast ramping                 <ul style="list-style-type: none"> <li>• SIS12modus: booster mode and DC mode</li> </ul> </li> </ul> </li> </ul>	

	<ul style="list-style-type: none"> <li>• ACO interface board currently limits at 16sec cycle length. Questions were raised, ie. What's the forseen longest cycle time? 20s will be tested in Q1 2019. What's perspective of beyond 20sec cycle time in the future for FAIR operation?             <ul style="list-style-type: none"> <li>• FAIR is ACU based system. This is not an concern. For GSI existing facilities, timing is based on MILbus which has a limitation on the synchronization between interface board beyond certain time duration (16s currently)</li> <li>• Impact to ESR was discussed, yet to be clarified</li> </ul> </li> <li>• From user point of view, don't see needs of co-existence of both modes until the full operation of SIS100</li> </ul>	
<b>4</b>	<b>Decisions</b>	
	<ul style="list-style-type: none"> <li>• <b>Strategic planning will take place in the Machine meeting on Jan. 29, 2019</b> <ul style="list-style-type: none"> <li>○ goal is to identify impact factor and clarify required resources for each request</li> <li>○ propose 2hours on Jan 29, engage technical group leaders in addition to the MKs, representatives from experimental side (inputs from DS)</li> </ul> </li> </ul>	
<b>5</b>	<b>Open Action items (existing ones not discussed in the meeting)</b>	
	<ul style="list-style-type: none"> <li>• develop then commissioning plan of the SIS18 spill structure cavity. Expect report at the Nov. 6 machine meeting</li> <li>• <i>meeting with HADES team on 12<sup>th</sup> of December to decide on HADES user schedule in user beam time 2019 done, but no reported yet</i></li> <li>• <b>new: communication of updated overview list of ACC activities to machine coordinators and other colleagues</b> <ul style="list-style-type: none"> <li>○ this will be upgraded to the latest technique of sharing files safely as soon as GSI IT allows. R. Bär will keep us informed.</li> </ul> </li> <li>• <b>new: submit all the items that requires significant support of vacuum group during the 2019 summer shutdown period. Impact/benefits of each request along with required FTE should also be provided for planning</b> <ul style="list-style-type: none"> <li>○ <i>update HEST input from MS (before Xmas)</i></li> </ul> </li> <li>• <i>update priority list for shutdown with the e-cooler@esr, i.e. postpone beyond 2020, and remove it from the AIP list done</i></li> <li>• <b>Technical limitation of GSI existing facilities</b></li> <li>• <b>Survey construction waste falling from ceiling onto cavity A1</b></li> </ul>	<p>J. Stadlmann/P. Husmann/Spill quality experts</p> <p>D. Severin</p> <p>All MKs</p> <p><b>F.Herfurth J.Stadlmann M.Steck M. Sapinski M.Bai</b></p> <p><b>M.Bai</b></p> <p>All MKs</p>

		P. Gerhard
	<b>Any other business</b>	
	<ul style="list-style-type: none"> <li>• <u>Next Machine Meeting: Jan. 29, 2019. Strategic Planning</u> 14:00—16:00             <ul style="list-style-type: none"> <li>○ Approval of meeting minutes: 5mins</li> <li>○ Strategic Planning discussion to clarify                 <ul style="list-style-type: none"> <li>▪ required FTE from each technical group for each activities</li> <li>▪ priority based on impact factors</li> <li>▪ Overview lists are at <a href="https://sf.gsi.de/d/26ea0fb93ce6412fbc8d/">https://sf.gsi.de/d/26ea0fb93ce6412fbc8d/</a> for the ACC AIP activities and <a href="https://sf.gsi.de/d/bbca2319ad7c4814b668/">https://sf.gsi.de/d/bbca2319ad7c4814b668/</a> for the significant 2019 shutdown activities,</li> </ul> </li> </ul> </li> </ul>	