December 3rd, 2019

Donnerstag, 28. November 2019 08:30

– Protocol		**Nr.: Dec. 3rd, 2019 , 14:00 – 16:00**
Machine Meeting (MM)		**Chair:** M. Bai
Distribution	Machine coordinators and their deputies, departments leaders accelerator, participants, Management board	
Participants		
Magda Gorska Timo Dickel Mario Bevcic Dirk Acker Thomas Stoehlker Momme Kreutz	Attendees	

☑ Stephan Reimann	☐ Markus Vossberg
☑ Ralph Hollinger	☐ Klaus Tinschert ☐ Fabio Maimone
☑ Lars Groening	☐ Sascha Mickat ☐ M. Kaiser
☐ Gerald Schreiber	☐ Bernhard Schlitt ☐ A. Schnase
☑ Markus Steck	☐ Danyal Winters ☐ Sergey Litvinov
☑ Frank Herfurth	☐ Zoran Andelkovic
☐ Christina Dimopoulou	☐ Jon Roßbach ☐ Regina Heß
☑ Winfried Barth	☐ S. Yaramychev ☑ Hartmut Vormann
☐ Gertrud Walter	☐ Kalliopi Dermati ☐ Markus Romig ☐ Stephan Teich
☑ Udo Weinrich	
☑ D. Serverin	
☐ M. Sapinski	☑ C. Hessler
☐ Peter Spiller	☑ Jens Stadlmann
☐ Markus Schwickert	

*Types: A = Action, D = Decision, I = Information

Important: **I = Information** **D = Decision** **AI = Action Item**		**Confidentiality Notice** **It is requested not to scatter the protocols over the predetermined distribution circle or leave them on the publicly available printers.**		
1	**Agenda**			
	1. Approval of meeting minutes: 5mins 2. Follow-up of open action items: 1. status of spare parts of the UNILAC IH section: H. Vormann/W. Barth 3. Status update and others			
2	**Update**			
	Engineering run status: http://indico.gsi.de/event/9728/contribution/13/material/slides/0.pptx Engineering run plan is now updated http://indico.gsi.de/event/9728/contribution/13/material/poster/0.pdf Currently, beam availability is 35% due to the various technical hiccups, esp. UNILAC UH4 vacuum. No major technical issues for SIS18 and ESR. Neverthless, trimming latency of up to 1min (FAIR controls) has become really critical. In addition, no read-back of devices, several work-arounds established Outstanding issues: • UH4 vacuum is under close observation. So far, has been stable • trimming latency of up to 1min (FAIR controls) has become really critical **Ion Source status: no report** Working on establishing uranium beam from terminal North for the engineering run **UNILAC status:**http://indico.gsi.de/event/9728/contribution/13/material/poster/0.pdf HSI-RFQ:			

	RF conditioning status: about 7.25 Volts reached, but reflected power now reaches 60kW RF commissioning ongoing, incl. A4 (max. 7.2 V), will not be ready for uranium before tomorrow. SIS18 will be setup with uranium 68+ upto A3 energy **SIS18 status:** http://indico.gsi.de/event/9728/contribution/6/material/slides/1.pptx re-establish the MMTI, a function that was operational with the old controls The status of the e-septum for slow extraction will be reported to the next MM due to the time constrain. The slide is at http://indico.gsi.de/event/9728/contribution/6/material/slides/0.pptx **HEST status: no report** LSA database problems Bernd Schlei is responsible for uploading the LSA database **FRS status: no report** No major issues **ESR status:**http://indico.gsi.de/event/9728/contribution/7/material/slides/0.pdf Many progresses made: various beam manipulations including beam stacking, RF capture, tune measurements, etc. Currently, working on establishing decelerated Ar18+ at CRYRING injection energy Continue deceleration with Ar beam. Foreseen no beam tomorrow due to Uranium setup. FRS at the moment plans to have uranium beam asap as primary beam. Action: Coordination among FRS, ESR and HKR after MM. Agreement/plan will be available to Olog Issues: beam horizontal profile monitor not yet working. **Action:** Timo(BEA) is checking the MCP. Waiting for the opportunity **CRYRING status:** http://indico.gsi.de/event/9728/contribution/1/material/slides/0.pptx Encouraging progress made with e-cooler Lhe level in the Dewar. Reached for the 1st time measurable level until yesterday. Currently bake out for preparation for receiving beam from ESR Postmortem report of the latest VAC incident can be found at link **PSU status:**http://indico.gsi.de/event/9728/contribution/12/material/slides/0.pdf Internal technical review was held on Nov. 25. APO is leading the Summary report of the review findings and action items. **cw-LINAC status:**http://indico.gsi.de/event/9728/contribution/9/material/slides/0.pptx No major issues		
3	**Discussion**		**All**
	Status of spare parts of the UNILAC IH section: H. Vormann/W. Barth slides can be found in the UNILAC status http://indico.gsi.de/event/9728/contribution/4/material/slides/0.pptx and http://indico.gsi.de/event/9728/contribution/4/material/slides/1.docx. In short, • The RF coupling loop for IH2 is recently vacuum tested and leak was found. Nevertheless, the IH1 coupling loop can be used even it is a bit longer than the other one • triplet lens in the IH2 spare was found and un-boxed. Surface shows rusty and needs to be copper polished if not copper plated. To replace the current lens with this spare one takes 2-3 weeks, estimated by Mario • No end plate spares were found Winfried proposed to excercise the IH2 with the operation conditions required for 2020, i.e. 50Hz Au. This could cause the vacuum run away again if there is the leak. On one hand it is good to confirm the situation, on the other hand depending on where the leak is, there could be significant impact on the beam time 2020. **Action items:** • close to the end of Engineering run ○ exercise the IH2 with the operation conditions required for 2020, i.e. 50Hz Au ○ carry out the power measurements of HSI RFQ ○ re-install the phase probe • prepare the available spare parts	LAC/OPE LINAC RF Momme Kreutz (VAC) Hartmut	
4	**Open Action items**		
	1. FAIR Booster mode status: R. Baer, D. Ondreka (TBD) 2. Provide a list of planned controls release and changes in 2020-2021 along with their potential impact and effect on the GSI exisiting facilities and systems such as beam instrumentation, power convertor etc 3. Status report on the SIS18 electrostatic septum, in particular 1) clarify the designed and measured strength of exisiting electrostatic septum in terms of beam rigidity 2) project plan of the new electrostatic septum that can fulfill the needs of slow extraction of 18Tm beam **1. Dec. 10, 2019** **4. For the GSI facility operation archiving,** please contact Stephan to add or revise the needs and requests from your point of view http://indico.gsi.de/event/9728/contribution/13/material/0/0.docx R. Hollinger, Markus and Hartmut, 30mins with Reimann, today. Then release.	Ralph Bär/D. Ondreka Ralph Bär Peter Spill/J. Stadlmann MKs and other experts	

	5. IQS archiving system: how it works and status 6. 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 7. PostMortem report on the UNILAC IH vacuum issues	RH/Barbara Jens Winfried Barth		
	Any other business			
	• Next Machine Meeting: **10. Dezember 2019 - 14:00-15:30 Uhr**			