## January 7, 2020

Montag, 6. Januar 2020 11:09

GSİ				Nr.: Jan 7, 2020, 14:	00 – 15:30
– Protocol					
Machine Meeting (MM)				Chair: M. Bai	
Distribution	Machine coordinators and their d Management board	eputies, departments leaders	accelerator, participants,		
Participants					
	<u>Attendees</u>				
	Stephan Reimann	✓ Markus Vossberg			
	Ralph Hollinger	Klaus Tinschert			
	Lars Groening	✓ Sascha Mickat M. Kaiser			
	Gerald Schreiber	Bernhard Schlitt			
	🗹 Markus Steck	Danyal Winters			
	🗹 Frank Herfurth	Zoran Andelkovic			
	Christina Dimopoulou	Jon Roßbach Regina Heß			
	Winfried Barth	S. Yaramychev			
	Gertrud Walter	Kalliopi Dermati			
	Udo Weinrich				
	🗹 D. Severin				
	M.Sapinski	C.Hessler			
	✓ Peter Spiller	🗹 Jens Stadlmann			
	Markus Schwickert				
		*Types: A = Actic	on, D = Decision, I = Information		
Important: I = Information D = Decision AI = Action Item					
1	Agenda				
	1. Approval of meeting minutes 2. Follow-up of action items				
2	Jindate				
2	Engineering Pure				
	<ul> <li>Highlights         <ul> <li>Highlights</li> <li>Uranium beam was successfully re-established in the UNILAC and subsequently throughout the chain.</li> <li>1e9 uranium 68+ was successfully extracted from SIS18</li> <li>ESR successfully re-established stored and cooled beam in storage ring mode. In addition, Ar beam was successfully decelerated from 70MeV/u to 13MeV/u.</li> <li>The decelerated Ar beam from ESR was successfully injected and circulated in the CRYRING</li> <li>o over 50% of beam studies were carried out, among which a handful of them are critically relevant to FAIR realization, such as beam instrumentation S.A.T. etc.</li> <li>Remaining issues                 <ul> <li>O UNILAC</li> <li>HSI RFQ not yet reached nominal u4+ level</li> <li>A4 wasn't available</li> <li>water leaks including the buncher in TK4</li> <li>o SIS18 quadrupole power supply problem</li> </ul> </li> </ul> </li> </ul>				

o Overall controls and beam diagnostic issues

very slow in making changes

This has been experienced through the chain. The colleagues hope this problem will be eradicated for the beam time 2021 and beyond

update of beam pattern still influences each other

no archiving

 quite a number of blind spots, such as screen into the FRS beamline that took 8 hours to be found out and allow ESR to continue

read back of actual values not available esp. for ESR

Operations status: https://indico.gsi.de/event/9837/contribution/14

Winter shutdown work started. Primarily repair and maintenance for upcoming Physics run. UNILAC RF conditioning

	starts next week. Actions: update of the beam time planning to reflect actual situation			
	Ion Source status: No report			
	No issues at the comment.			
	signed contract of 18GHz EZR MOU received shorty before Xmas			
	2) BH1 pump station project status (Roland Reich/Ralph Hollinger)			
	UNILAC status: https://indico.gsi.de/event/9837/contribution/5			
	Newly discovered water leak on A4DR58 is outside vacuum. Expected to be fixed in-time Actions: Results of HSI RFQ RF measurement at the end of Engineering Run			
	SIS18 status: https://indico.gsi.de/event/9837/contribution/7			
	<ul> <li>Besides GAF works, the quadrupole power supply repair will be carried out to the extent not to impact uncoming heam time</li> </ul>			
	• The unexpected long latency time of current FAIR control system was also an headache for the SIS18			
	tuning. The experience so far is some of the tunings with the same hardware now takes significantly longer time (30sec vs. 15 mins)			
	HEST status: No report			
	No issues. Working progress for operation			
	FRS status: No presence			
	ESR status: https://indico.gsi.de/event/9837/contribution/6			
	For upcoming physics run, there are still a number of challenges ranging from unexpected long reaction			
	time of the current control system to no operational beam instrumentation. The disappeared capability of being able to have the readback values of various devices also makes the machine setup even more painful			
	CRYRING status: https://indico.gsi.de/event/9837/contribution/13			
	While both D+ and Ar have shown excellent to good beam lifetime, there is still not yet knowledge on how the heavy ion heavs will perform this suspected that the lifetime of uranium heam will be much chector. In combination with			
	the current FAIR controls latency time, it is close to impossible to have any chance to tune the beam performance.			
	This means the feasibility of fulfilling CRYRING experiments that require more than 1e7 uranium beam in 2020 is compromised.			
	PSU status: https://indico.gsi.de/event/9837/contribution/11			
	cw-LINAC status: No presence			
3	Discussion		All	
	Critical systems <u>https://sf.gsi.de/d/c441335eb0/</u>			
	CriticalItem slistEmail			
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	GSI_Facility _CriticalIt			
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Any other business		
Next Machine Meeting: January 14, 2020 - 14:00-15:30 Uhr		