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|  - Protocol | Nr.: 20190326, 14:00 – 16:00 |
| Machine Meeting (MM) | Chair: M. Bai |
| Distribution | Machine coordinators and their deputies, departments leaders accelerator, participants, Management board |
| Participants | S. Reimann, D. Severin, U. Weinrich, R. Hollinger, M. Steck, F. Herfurth, P. Gerhard, G. Schreiber, M: Schwickert, R. Bär, J. Stadlmann, R. Gebel(guest from FZJ) |

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| Important: I = Information D = Decision AI = Action Item | <u>Confidentiality Notice</u> It is requested not to scatter the protocols over the predetermined distribution circle or leave them on the publicly available printers. |
| 1 | Agenda |
| | <p>1) Approval of meeting minutes</p> <p>2) Open Action items followup</p> <p>3) status update</p> <p>4) other topics</p> |
| 2 | Update |
| | <p>-- Open Action Items follow-up:</p> <p>Action: Risk registration list from S. Wielsch is now available at https://indico.gsi.de/event/8626/contribution/0.</p> <p>Action: status update on the spill cavity and preliminary installation plan In mid March. Jens reported the brief status update on the spill cavity. In short, the spill cavity team is doing their best to have the cavity installed during the summer shutdown. Nevertheless, there has been concerns regarding available manpower for the installation as the priority one shutdown activities have to be fulfilled first,</p> <p>Action: Analog signal digitization of GSI facilities project status update in March 2019: Please see details in Jens' report at http://indico.gsi.de/event/8704/contribution/8 According to R. Bär, the digitization is an ad-hoc project initiated by R. Steinhagen. The ACO colleague Mathias Thieme has been work on this project. This so far is not an official Work Package and has no documents on the project scope nor project planning. The resource this project has been planned by two parts: ACO part done by R. Bär and the other part is R. Steinhagen(no official plan). Budget request and planning started since 2018 for ESR as well as for SIS18. For CRYRING, hardware layer for digitization dipole and quadruple has already been running.</p> <p>For ESR, nothing in the digitization has been realized while hardware has been ordered. The digitization is not expected to be implemented for the</p> |
| | <p>Sven, MKs</p> <p>J.Stadlmann</p> <p>J.Stadlmann</p> |

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| <p>upcoming engineering run except the AEG part. Also, need the support from EPS group for the implementation. Required/planned resources in terms of FTE is not known at the moment.</p> <p>Action: Schedule a presentation by RS on SIS18 and ESR, April 9, 2019 (TBC): not done</p> <p>Action: For each MK, please contact all relevant technical groups/departments regarding the amount of FTE required for routine maintenance for the operations: Mid of April</p> <p>Operations: http://indico.gsi.de/event/8704/contribution/1 Beam on target 80% record!!! Parallel operation mode: trim latency problem is mitigated to the extent that ESR team can start work with beam as long as the beamline for injection into the ESR from SIS18 is not trimmed. For UNILAC, multiple experiments are served in parallel. This is back or even surpassed what was done before 2016. For SIS18 users, multiple experiments are also now served in block mode, i.e. ping-pong between different fixed-target experiments with an interval of couple of hours. Top 10 technical problems seems to show HEST vacuum issue is a bit worse than others. UNILAC problem seems also is dominated by RF issues</p> <p>Physics programs: No report No major issues. See the information above on Operations. According to Daniel, the number of experiments (UNILAC + SIS18) can be carried out simultaneously has surpassed what was possible in the past</p> <p>Ion Sources status report: No report IQ running smoothly for the beam time. No major issues</p> <p>SIS18 status report: http://indico.gsi.de/event/8704/contribution/8 Routine maintenance is ongoing including dedicated setup for the latest spin structure improvement technique by Forck/Sighn/Welker</p> <p>Major items during shutdown is the installation of spill cavity and IPM magnet.</p> <p>Contract for design of new E-septum for extraction should start in 2019</p> <p>UNILAC status report: https://indico.gsi.de/event/8704/contribution/9/material/slides/0.pdf Phase controller of A4 suffered a broken cable. This could be due to the cleaning of LINAC gallery. Took a while to identify as the symptom was only seeable at the end of TK LINACRF is currently serving high peak power(maximum reached Au and Ca), high average power and multiple operation. Expected to have more failure rates, but surprisingly smooth. FOS dummy copper plating experiencing further delay. Expect beginning of April, now in May. (check)</p> <p>HEST status report: No report In operation</p> | <p>Jens</p> <p>All MKs</p> <p>S. Reimann</p> <p>D. Severin</p> <p>R. Hollinger</p> <p>Jens</p> <p>P. Gerhard</p> |
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| | <p>FRS status report: Absence Daniel reported that FRS needs the pattern, which is not yet available since it perturbs SIS18. Seeking new time window to test. Planned beam time starts April 1 with the first 3 days for commissioning</p> <p>ESR status report: https://indico.gsi.de/event/8704/contribution/11/material/slides/0.pdf Injection beamline setting was wrong, identified this week. But, beam got lost again after setting up. Could confirm the loss is at the exit of SIS18. Seems to be associated with data supply of SIS18. Further investigation is ongoing including ESR injection devices. Ongoing commissioning with beam in the remaining beam time can continue except the O beam block</p> <p>CRYRING@ESR status report: no report Goal is to prepare Mg beam for spectroscopy. Stable beam at highest rigidity is achieved. Required cooled beam due to the defect of the cryo issue of e-cooler. Other issues too.</p> <p>Will continue its operation till mid of April. Will try to achieve the goal within the remaining beam time.</p> <p>CW-LINAC demo: normal Upgraded the test area. Will continue the cave construction after beam time.</p> <p>Test with bunch structure monitor is not successful. The bunch structure monitor is currently in the HLI. Would like to check this monitor with beam on April 15 (couple of hours). In discussion with Beamtime Coordinator. Seems possible at the moment.</p> <p>COMM systems: ACO: implementation of storage mode: investigation by the team is delayed by ~2 month w.r.t. to the original plan that was set to ensure the start of engineering run in Fall 2019. Re-arranged the task assignment within the team (Andreas, Anne will be focused on this instead of on-call service for beam time). Expect to deliver on-time.</p> <p>BI: The move due TGA, lab is not available for 3-4 weeks.</p> | <p>S. Reimann</p> <p>M. Steck</p> <p>F. Herfurth</p> <p>R. Bär</p> <p>M. Schwickert</p> |
| 3 | Discussion | All |
| | <p>There was another round of discussion on the FTE required for beam time as well as shutdown activities. Mei explained again that ACC has been asked to provide required FTEs by the PMO in order to have meaningful resource balancing. During this discussion, it is again reminded that</p> <ul style="list-style-type: none"> • Shutdown items have not yet clarified to be priority 1 due to required resources and the relevance to upcoming beam time should clarify these points with relevant technical groups and PMO. • For the SIS18 IPM installation, according to MS, it is critical for the prototyping of SIS100 IPM. In this case, this should be clarified and required resources should be linked to the project. | |
| 4 | Open Action items | |
| | <ul style="list-style-type: none"> • Risk registration list: for each item, the MKS are asked to provide the following information: <ul style="list-style-type: none"> ○ technical name of the system or component | <p>All MKs</p> |

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| | <ul style="list-style-type: none"> ○ probability of the failure and its impact including duration of loss of operation as well as financial loss if applicable ○ counter measure including involved budget if possible <p>S. Wielsch list is available at https://indico.gsi.de/event/8626/contribution/0</p> <ul style="list-style-type: none"> ● Invite the spill cavity expert P. Husmann to give a brief report on the commissioning plan of the spill cavity ● Confirm the presentation by R. Steinhagen on the topic of Analog signal digitization of GSI facilities project status, April 9, 2019 ● new: communication of updated overview list of ACC activities to machine coordinators and other colleagues <ul style="list-style-type: none"> ○ this will be upgraded to the latest technique of sharing files safely as soon as GSI IT allows. R. Bär will keep us informed. ● Technical limitation of GSI existing facilities | <p>J. Stadlmann</p> <p>J. Stadlmann</p> <p>All MKs</p> <p>All MKs</p> |
| | Any other business | |
| | <ul style="list-style-type: none"> ● <u>Next Machine Meeting</u>: April. 2, 2019. status update, 14:00—15:00 <ul style="list-style-type: none"> ○ Approval of meeting minutes ○ Follow-up of action items ○ Status update ○ Others | |
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