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| **T** | **V** | **Name** | **FAIR/GSI** | **BINP** |
|  |  | I.Koop |  | x |
|  |  | H. Hagelskamp | x |  |
|  |  | H. Reich-Sprenger | x |  |
|  |  | M. Marenich | x |  |
|  |  | S. Lucic |  | x |
|  |  | H. Schwarz | x |  |
|  |  | A.Krasnov |  | x |
|  |  | V. Prosvetov |  | x |
|  |  | A.Dolinskyy | x |  |
|  |  | H. Simon | x |  |
|  |  | F. Hagenbuck | x |  |
|  |  | K. Knie | x |  |
|  |  | D. Senkov |  | x |
|  |  | A.Starostenko |  | x |
|  |  | K. Istomin | x |  |

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| **Nr. / Datum** | **Thema** | **Zuständig** | **Termin** | **Status** |
| **1** | **Supplier Report & Dashboard** | **N Oepen** |  |  |
|  | *Report Tracking sheets implementation:*  *HEBT – well established for Magnets – to be introduced for Vacuum chambers*  *CR – Further introduction needed – shall follow the example and good experience of HEBT - special session during the week and follow up in March 2020.*  *SFRS – Introduction needed and wanted by SPL/WPL – will be discussed in SFRS session on Thursday. Aim is to agree the implementation in 2020*  *PANDA – there is a reporting structure existing – there are too few items to justify a tracking report.* | *F Hagenbuck*  *I Koop/ H Hagelskamp*  *H Leibrock*  *INFO* | *Feb 20*  *Mar. 20*  *Mar 20* |  |
|  | *Report content:*  *There is further alignment needed to agree on detail of the report content.*  *Production statue of agreed production steps.*  *Forecast delivery dates (FAT and delivery to GSI, not SATa)*  *Meet new PMO team at BINP (HH NOe)*  *Estimated time effort for monthly updates is ½ to 1 hour per report.* | *HH/HRS/OD/IK/NOe* |  |  |
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| **2** | **CR Status and Time Line** | **I Koop** |  |  |
|  | *Presentation of Time Schedule revision from MAC (Sep 2019).*  *Time Schedule needs new revision with detailed delivery dates for each component* | *I Koop* | *Mar 20* |  |
|  | *Dipoles and Quadrupoles*  *FOS delivery date has been shifted by three months. Successful start and completion of series production is doubtful.*  *Revision and confirmation from BINP is required.*  *Magnetic Survey:*  *Seems to be a bottleneck in the production process.*  *Please review and advise alternative or capacity increase* | *I Koop*  *I Koop* | *Mar 20*  *Mar 20* |  |
|  | *General experience is that production rates increase exponentially.*  *This should be shown in detail in the MS Project and reporting documents.* | *I Koop* | *Mar 20* |  |
|  | *Power Converters:*  *The time schedule shows delivery simultaneous to magnet delivery.*  *Power supplies are needed for pre-assembly and testing at GSI.*  *Power Converters not to be delayed any further to align with electrical and technical building installations.*  *Critical: Main Dipole PC will be built in Czech Republic.* | *I Koop* | *Mar 20* |  |
|  | *Septum Magnets and Kickers:*  *Detailed Pre-assembly and Testing Planning for work at GSI is required. will be further discussed in Pre-assembly session on 29.11.19* | *I Koop* | *Mar 20* |  |
|  | *CDR Dates for DI/Q Power Supplies*  *Completion dates to be up-dated in MS Projects after CDR results from this workshop.* | *I Koop* | *Jan 20* |  |
| **3** | **CR Delivery Schedules** | **H Hagelskamp** |  |  |
|  | *Presentation and discussion of the BINP delivery table according to present MS Project schedules*  *Schedule to be reviewed and workshop capacity to be balanced to meet all requirements for BINP Processes and FAIR Installation schedules.*  *Synchronizing of DIP and VC delivery together is required.*  *Factors to be considered during schedule review:*   * *cash flow;* * *storage capacities;* * *Production efficiency.* * *SAT Requirements* * *magnetic testing requirements*   *A Critical review of revised production & delivery schedule shall take place in an additional workshop.* | *N Oepen*  *I Koop*  *I Koop/HH* | *Mar 20*  *Mar 20* |  |
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| **5** | **Super FRS Delivery Schedule** | **H Simon** |  |  |
|  | *First Deliveries and Pre-assembly to Target Halle at GSI Campus.*  *For later deliveries the possible use of finished building R3B for pre-assembly is to be investigated.*  *Set up a process to adjust the dates in the future (according to reporting and tracking template)* | *HRS/HH/HS*  *H Simon* | *Jun 20*  *Mar 20* |  |
|  | *Diagnostic chambers – more detail on deliveries*  *Deliveries in 2020 are preferred in order to organize pre-assembly and testing before work in new building has started.*  *Avoid manpower capacity overload.* | *H Simon/ A Krasnov* | *Mar 20* |  |
|  | *Bellows:*  *produce and deliver in batches starting in 2021 already*  *To be synchronised with GSI vacuum group and magnets delivery.* | *A Kraemer/ A Krasnov* | *Mar 20* |  |
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| **6** | **PANDA Delivery Schedule** | **L Schmitt/** |  |  |
|  | *Solenoid Production:*  *First assembly of Yoke at BINP in Q2 2020*  *Rutherford Cable Procurement in Q3 2020.*  *It was confirmed that component production does not collide with other FAIR components in the BINP workshop capacity* | *E Pyata* | *INFO* |  |
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| **7** | **pBar Delivery Schedule** | **K Knie** |  |  |
|  | *Critical items:*  *Radiation-hard Magnets – DIP QUP Steerer*  *Bending Dipole:*  *Design and production will be delayed by approx.. 1-2 years*  *Part of pBar discussion and dicision on 27.11.2019.*  *The influence of the late delivery on the installation of other areas of the beam line has to be investigated.* | *KK/HH/HRS*  *KK/HH/HRS* | *Mar 20* |  |
|  | *CR-Type Sextupoles (4 pcs.) (less critical)*  *Can be combined with CR production Line (12pcs.).*  *GSI/BINP have to decide on priority between pBar and CR.*  *To be discussed and agreed in session on 27.11.19.* | *KK/HH* | *27.11.19* |  |
|  | *It was confirmed that vacuum components and Power Converters can be done in time.*  *Deliveries before or in line with magnets are requested. Review MS Projects accordingly if required.* | *P Shatunov* | *Mar 20* |  |
|  | *Pumps, valves, diagnostics, commercial items (excl. vacuum chambers).*  *GSI remarked that these components can be part of the Vacuum package contracted in a frame agreement by GSI (BINP can participate).*  *Deliveries can be commissioned in several lots starting 2021 and shall be aligned with the pre-assembly requirements* | *KK/A Krasnov/ A Kraemer*  *KK/AK/AK* | *Mar 20*  *Jun 20* |  |
|  | *Collimators*  *Rescheduling by 1 year is required. MS Projects is planned too early.* | *KK/Oepen* |  |  |
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| **8** | **HEBT Delivery Schedule** | **F Hagenbuck** |  |  |
|  | *A new delivery schedule for Batch 2&3 was handed over on 25.11.19* | *INFO* |  |  |
|  | *Production rate chambers 3-4 per day*  *Procurement for Batch 2&3 Material is in progress.*  *Risk on Batch 4:*  *Relative magnetic permeability*   * Material qualities – very few experienced suppliers * Material requires annealing * Specification is perhaps restrictive – * BINP request a review of the requirements to reduce the impact on on time schedule.   *Problems with EDMS Access. – BINP require help.* | *A Krasnov/LU* | *Feb 20* |  |
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|  | *Proposals for schedule improvement:*  *Split pre-assembly activities between GSI and BINP:*  *Set up- task teams to investigate and to weight pros and cons on the following proposals.*  *Subject:*   * *Integration of Vac chambers into Quadrupoles and Steerer at BINP (approx. 150 units).* * *Reduce delivery scope: ie. deliver chambers with one open flange to be welded at GSI* | *HRS/FH* | *Mar 20* |  |
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| **9** | **Sychronisation Vacuum and Magnets** | **A Krasnov** |  |  |
|  | *New schedule reviews (25.11.2019) show delayed deliveries, however keeping the final delivery date for magnets (example 23 magnets in the last month).*  *All HEBT Schedule require review and synchronization of vacuum chamber deliveries and magnet deliveries to enable pre-assembly in the GSI workshops*  *Batch 4 Vacuum schedule to be reviewed and aligned with contract schedule dates. intermediate delivery date shall be included in MS Project.*  *Balance BINP delivery schedule with installation priorities (ie. SIS18 to SIS 100 connection T1S1)* | *F Hagenbuck/L Urban/ KRasnov*  *LU/NOe*  *FH/HRS* |  |  |
|  | *BINP confirm that FAIR project and SKIFF Project do not collide in the laboratory capacities* | *A Krasnov* |  |  |
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| **10** | **Schedules Results** | **H Hagelskamp** |  |  |
|  | *Interim Workshop in March 2020* | *HH/HRS* |  |  |
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