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| **Meeting:** | **Steering parallel II at 1st BINP-FAIR workshop** | |
| **Date:** | 06.11.2018 13:00-17:45 | **Author: S. Utermann** |
| **Participants:** | Y. Levichev  V. Varentsov  D. Urner  J. Blaurock  A. Andreanov  D. Shwarz  S. Utermann  M. Schwickert  M. Marenich  L. Urban  A. Krämer  A. Krasnov  H. Simon | |
| **Distribution:** | Participants + K. Knie, Y. Rogochev, Y. Tichonov, P. Shatunov, F Hagenbuck | |
| **Document Number:** | F-PR-...to\_follow (see work instruction for document identification) | |

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| HEBT vacuum chambers (batches 2&3) without FBL | | | |
| D  I  A  A  A | 1.544 M€ at 2018 prices and scope are acceptable to BINP  Want to close this ASAP without FBL  FAIR needs a letter of assignment, IKRB will write recommendation to Council, Council makes assignment, then official negotiations.  Request for assignment is drafted, FAIR will support this letter.  FAIR is confident that request will be recommended by IKRB (we have submitted estimates based on information from BINP).  Specs are ready, CB value is ready  S. Utermann to send request for assignment draft to Y. Levichev. ROSATOM does not need to sign. YL returns to IOP (DU, SU or MM) within two weeks.  HEBT SPL needs to specify size of initial tubes (standard tube size or not (this has financial consequences) --> This needs to be sorted before council (mid-December)  Action: Aim to close batch 2 and 3 contract 2018 SU to send to YL within two weeks. Partly unassigned, we can put a disclaimer to this end in the contract. | SU, YL  F. Hagenbuck  SU | 2 weeks  By council  2 weeks |
| **Beam Diagnostics (mechanical and pre-amp, screens and drives)** | | | |
| I  A  A  I  I | Items identical or similar to CR  M. Schwickert will send Y. Leveichev, D. Shwarz & Y. Rogovsky--> a technical description and scope and PSP and CB value. (YR is BINP responsible)  YL will answer first informally in writing, then assignment will follow as above.  First technical, then administrative  Capacity is available at BINP for greater productivity beyond batches 2 & 3 | MS, DS, YR  YL, FAIR IOP |  |
| HEBT Vacuum batch 4 | | | |
| I  A  A  A  A | Technical aspects were discussed in parallel session. Because there is little scope for series production (many types), A. Krasnov has concerns about BINP workshop capacity.  Action: L. Urban sends list to A.Krasnov  Action: FAIR looks at relaxing schedule wrt to pre-assembly and also looks at standardisation  Meeting L. Urban and A. Krasnov to look at the proposed delivery schedule for batch 4 this week  BINP to check workshop capacity, taking into account batches 2&3 and all the others (S-FRS, CR etc.) | LU  LU &  DMU  LU & AK  AK | Q1 2019  This week  Q1 2019 |
| Radiation resistant dipoles for Super FRS (2 pcs) | | | |
| I  A  A  A | 1.9 M € per dipole, and FAIR would supply the cable at 450 k per dipole (2018 prices)  So BINP would make 2 dipoles for 1.45 M each, 2018 prices.  Not yet assigned to BINP.  BINP can possibly buy the steel for the dipoles and multipoles together: it is the same steel, should BINP agree to provide multipoles  Dipole contract is on the critical path  Specs and draft contract are ready.  Decision from BINP this week, after magnet expert meetings  SU to send YL draft contract. Aiming for 2018 signature (as HEBT vacuum batches 2&3) including the assignment clause.  IOP to get the assignment done, responsible IOP. | YL and BINP magnet experts  SU  IOP | This week  2 weeks  By council |
| Radiation resistant multipoles for Super-FRS | | | |
| I  A  A  A  D | 3 different quadupoles, 2 sextupoles and beam catcher, not assigned  1.2 M Euro  H. Simon reports that technical discussions are still underway re. steel procurement, titanium for chamber with grazing primary beam.  Action: BINP to make a cost estimate: H Simon will send technical information to the sessions during this week.  BINP to assess the resources needed to develop cost estimate by the end of November.  Video conference for follow up (also supports, beams, pipes).  Result may be R&D contract or price quote.  No assignment until then. | HS, YL  BINP  HS, YL, others | This week  By 30 Nov  End Nov |
| Super-FRS diagnostics chambers | | | |
| I  D  A  D | Status: Assigned to BINP, CB exists. Specs are ready. BINP can produce at CB 2005 escalated to 2018.  Specs are ready for beam diagnostics chambers.  A. Krasnov: BINP has capacity.  Decision: no AFAAs (Annex for additional assignment)  SU to send draft to YL within two weeks  Aim for contract signature end of 2018 | SU | 2 weeks |
| Super-FRS dipole chambers | | | |
| I  A  A | Super FRS dipole chambers are very similar to CR vacuum chambers.  Assigned to BINP, PSP in CB. There has been change of scope -->dedicated beam catcher in the chamber.  Need adjustment of specs (titanium or not?)  Action: joint preliminary technical decision process starting this week.  Preliminary assessment finished by the end of 2018 in writing as joint initiative.  Then BINP needs to estimate price. | HS, others  FAIR, BINP | This week  End 2018 |
| p-bar rest contract | | | |
| Q  D  Q  A  A  A | Workshop capacity? It was close before CR was moved by a year.  Scope includes 2 quadrupoles and 1 dipole radiation hard.  Elements before TCR line that are identical to CR: BINP agrees to produce all items that are already series items.  CR type quadrupoles: BINP capacity is there.  What about beam optics? What happened to the change request to optical ion layout?  Who is the responsible person at fair? Sergey Litvinov? FAIR to answer this week.  Complete beam optics: K. Knie end of February 2018 (to be confirmed by KK) --> send to D. Shwartz and P. Shatunov  Scope/list of components: K. Knie --> BINP | DU  KK  KK | This week  28.2.19?  Q1 2019? |
| Vacuum chambers forgotten beam line (FBL) | | | |
| I  A  Q  A  A  A  D | CB 8 value = 4.8 M€ in 2018 money (power, magnets, vacuum etc.  D. Urner notes that some of FBL was reassigned to ACC from EXP. Same type, FAIR will join the PSPs. Not in costbook 7  Action: FAIR to prepare detailed steering activities this for 2nd FAIR-BINP meeting.  How soon does BINP need the contract? To this end:  Action: FAIR itemised list AtB to Y. Levichev, A. Krasnov and I. Morozov in two weeks  Q is optical layout ready? Action: D. Urner to check  BINP to say when they need the contract in order to fit FBL production into existing series production.  Aim for contract signature 2nd half of 2019 | IOP, PMU  DU  DU  A.Krasnov | Q1 2019  2 weeks  2 weeks  Q1 2019 |
| PANDA dipole | | | |
| I  A | Proposal: common collaboration contract FAIR-BINP  In draft at FAIR  Then action an implementing agreement for the PANDA dipole.  300 k€ R&D engineering agreement exists, signed between FAIR and BINP  Action: meeting D. Urner and Y. Tichonov to discuss the status of the R&D contract and future contracts this week | DU & YT | This week |
| Other business | | | |
| D  D  A  A | On Thursday afternoon there will be a parallel session to disccuss progress 17:00 and 18:00. action S Utermann: communicate this, D. Shwartz to invite on the BINP side  BINP liaison officer programme: all parties wish an extension. 90 days is not enough.  Letter to Y. Leveichev from J. Blaurock --> BINP directorate  Next liaison officer need a visa with a work permit for Germany. FAIR to check. | SU, DS  JB  DU | Wed. |

# Attachment(s)

none