

MICE Experiment Management Office

5th May 2015; 14:00 GMT

Present: S. Boyd, V. Blackmore, A. Bross, P.M. Hanlet, K. Long, R. Preece, C. Rogers, C. Whyte
Apologies: D. Adams, A. Nichols, D. Rajaram

Notes

1. Introduction: KL

Try to complete meeting before the Operations Meeting scheduled start at 15:00.

2. Minutes and actions: All

- **SB:** Ensure that the Serbs and Chinese have correct list of collaborators in CHEESE.
Done. All Serbs are in and Sichuan too.
- **KL:** Continue to work with sleeping partners to ensure full shift pool.
Ongoing.
- **DR:** Work with AD to define a timeline to get the MAUS speed-up done.
Stands. CR reported that A. Dobbs has circulated a timetable to those who will contribute. Timetable still being discussed between CR, DR and AD.
- **RP:** Check whether measurement of end-flange position of SSD has been done.
Done. RP and S. Virostek looked at measurements taken in the Hall and compared them with previous measurements. Seems that geometry of end-flange is correct; i.e. measurements at RAL reproduce those at Wang.
- **VB:** Make doodle for meeting with magnet engineers to discuss magnetic alignment issues.
Done. Outcome: S. Virostek could not exclude the reconstructed magnetic axes. So, we take practical approach: align channel along geometrical centres then verify alignment with beam. SSD will be aligned to FC at the mating flange. **VB, JC:** will specify magnetic measurement along a vertical line passing through the centre of the magnet at the position of the bellows.
Superseded. Measurement will no longer be made.
- **RP** with S. Virostek will look at how to stand-off forces between SS and FC when full-channel training takes place.
Superseded. Measurement will not be made so stand-offs are not needed.
- **RP:** with S. Virostek will also define Hall-probe positioning system.
Superseded. Measurement will not be made so positioning system is not needed.
- **CR:** Organise a simulation to estimate the precision with which the magnetic axis can be determined from data.
Done. Presented at last week's MIPO.
- **ABR:** Touch base with Maria to ask about the status of here analysis so of the magnetic-field data.
Stands. No report this week.
- **KL, CR:** Finalise and post June run plan.
Done. Circulated for comment.
- **SB, KL:** Prepare special EB meeting to decide shift-option to present to CB.
Done.

- **CR, KL:** Specify how to move forward on specification of currents in the MMB and MICE channel for Step IV.
Done. CR will make a list of currents (all magnets) for Step IV and will be circulated for comment asap.
3. **Report/actions from MIPO: PMH**
MIPO discussed alignment issues as noted in the discussion of the actions. Discussion of delivery of north PRY; expected to be installed by end of May. Discussion of finalisation of design of cooling demo. Actions arising from this: determine final dimensions of the cooling demo lattice; exact configuration of the PRY.
4. **RLSR/MPB actions: All**
Discussed and agreed as posted.
5. **Planning for commissioning and operations: SB**
- Planning for 2015/01
 - Progress on revision of run plan for Step IV;
Latest revision circulated to MIPO and MEMO. Plan will be discussed in Operations meeting at 15:00. Once approved make configurations for each run.
 - Revision of shift analysis;
2015/01a will be one data-taking shift (overnight) with a “floating shifter” to support experts during the day.
Persons to take deputy MOM position being sought. SB is in the middle of re-configuring June shifts. Goal is to minimise impact on those that have volunteered for shifts in June.
 - On-call (Detector, BLOC, ...)
Still need to define detector on call. SB is working with H. Nebrensky with a view to producing a roster of BLOCs well in advance.
 - Status of documentation and liaison with ISIS;
Remove as agenda item. Regular meetings with ISIS are now routine.
 - Next “general” MICE/ISIS operations meeting. Remove as agenda item. Regular meetings with ISIS are now routine.
6. **S/w&C progress against milestones: DR**
DR is not at the meeting so no report this week.
7. **C&M progress against milestones: PMH**
- Progress against milestones;
Problem with Run Control was due to the multi-threaded nature of EPICS and the single-threaded nature of Python. J. Martyniak needs now to write a new API to write data for the beam-line elements to the Configuration Database. After that the Run Control is expected to be stable.
Also, vacuum controls being readout via terminal servers purchased by C. MacWaters. All temperatures for the trackers are now available.
 - Tasks that can be packaged for additional effort
PMH and KL will do this offline (**Action**)
8. **Status of Step I publications: VB**
- Pion-contamination paper:
Analysis is still ongoing; J. Nugent looking at systematic errors since the evaluation of the reconstructed MC contamination is different to the input to the simulation. Numbers being incorporated in paper draft.
 - EMR beam-test paper:
Wise-person’s meeting this PM. VB has taken over paper draft from analysis note.

9. **Preparations for analysis at Step IV: CR**

Analysis meetings have been fortnightly; now move to weekly (except for VC weeks). Recent presentations include: S. Middleton on beam polarisation; seek to move to paper by CM42. Effect of residual field from iron on beam made by HW. Have demonstrated a skew quadrupole component. Now seek to establish size of solenoid components. JN gave good-muon rate estimate with no field; 10k per hour.

2015/02 run plan being prepared; will summarise in a new document.

Call for physics shifters will go out.

10. **DONM**

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11. **AoB**

None.

Summary of actions

- **KL:** Continue to work with sleeping partners to ensure full shift pool.
- **DR:** Work with AD to define a timeline to get the MAUS speed-up done.
- **ABr:** Touch base with Maria to ask about the status of here analysis so of the magnetic-field data.
- **PMH, KL:** Generate list of CAM tasks with a view to passing out work-packages.