

MICE Experiment Management Office

28th July 2015; 14:00 BST

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

Notes

1. Introduction: KL

- Much going on in the Hall with the remedial action on SSU and necessary shutdown work. Important to coordinate operations with the training and, given the fact that the magnet commissioning has been delayed, important now to replan operations for Step IV.

2. Minutes and actions: All

- **KL:** to push through meeting with SS; we need: PMcI, SS, CW, RP, KL, KR.
 - **Stands.**
- **KL:** email to DR to suggest he considers buying a dedicated computer if necessary.
 - **Done: DR** knows this is an option OnRec03 currently being used. Is this satisfactory medium to long term?
- **KL, CR, DR:** Meet to understand the processing timetable.
 - **Done.** Discussed in S/w&C report.
- **SB, CR:** Review the Step IV run plan in the light of the measured data-taking rate.
 - **Stands.** Will be done also in the light of the delay to the schedule caused by the magnet-training issues.

3. S/w&C: DR

- See notes on wiki.
- MAUS:
 - Speed-up completed; can now reconstruct in parallel to data taking. Zero suppression is on. Need to validate speed with zero-suppression off.
 - Trying to release version 1.0. Have new tracking code from C. Hunt. Calibration and mapping needs to be updated.
 - Presently default is to run with helical tracking if there is a magnetic field in either tracker. S/w is not structured to reconstruct one magnet on, the other off. DR will make a request for such functionality.
 - For the moment, agree to run reconstruction twice; once with field on, once with field off.

- **Magnet currents are not written into the CDB.** This is an important issue for the reconstruction and needs to be addressed.
 - Geometry:
 - R. Bayes wants to push geometry fixes. DR has set deadline of mid-day 29Jul15 for geometry for this data processing. Will reprocess when new geometry becomes available.
 - New MAUS release on Thursday 30Jul15. Process some runs then send to experts for checking.
 - Memory leaks
 - Many memory leaks have been fixed. Track reconstruction still gives some leaks. This is not an issue for OnRec processing as OnRec machines have large memory.
 - **Need DAQ feedback to EPICS.** Y. Kharadzhov has been asked.
 - Routine plots from processing end up in the ROOT file. Needs to be done by detector groups.
4. **Commissioning and operations: SB**
- Last user run summarised in the recent Operations meeting. Names have been assigned to each of the actions.
 - Shifts for next user run are 95% full. About 10 slots still need to be filled. Reminder email will be sent in a week.
 - Training plan needs work to ensure that relevant information gets passed on. SB is considering how this might best be done.
 - CDB filling:
 - RB and JM will collaborate on getting the CDB up to date.
 - Overton is presently MOM in September. We agreed that this would not be compatible with a full-on tracker debugging role. **SB** will seek to substitute Overton with another (experienced) MOM.
 - Completing the experiment for the September run; we noted that a number of things need to be done including the completion of the tracker:
 - Replacement of top hat to allow He fill in US tracker volume;
 - Readout of Hall probes
 - **CW:** will make plan re exchange of top hat and completion of tracker h/w.
5. **Revision of run plan**
- We agreed to revise the run plan based on the following assumption:
 - Data taking will not be possible interleaved with magnet training;
 - Regard any data taking during training as an opportunity to advance the schedule.
 - Develop two options:
 - Magnet training will take half of next user run;
 - Magnet training will take all of the next user run.

- We noted that it was still necessary to validate the tracker timing.
6. **Status of Step I publications: VB**
- EMR beam-test paper:
 - F. Drielsma has second round comments from referees. FD is travelling so not clear when we get a new version. [note added; third draft circulated 29Jul15].
 - Pion-contamination paper:
 - P. Soler will make a new version this week. DK has made comments that have been taken into account.
7. **Physics Coordinators report: CR**
- See notes on wiki.
 - Online reconstruction plots will be updated by CR.
 - Alignment:
 - We discussion whether it was necessary to have two sets of bellows; i.e. can one side of the FC be rigidly coupled to the SS. Needs further discussion.
8. **DONM**
- 11Aug15; 14:00 BST. During NuFact.
9. **AoB**
- None.

Summary of actions:

- **KL**: to push through meeting with SS; we need: PMcI, SS, CW, RP, KL, KR.
- **SB, CR**: Review the Step IV run plan in the light of the measured data-taking rate and present magnet-training status.
- **SB/DR**: ensure that magnet currents are written into the CDB.
- **SB** will seek to substitute Overton with another (experienced) MOM.
- **CW**: will make plan re exchange of top hat and completion of tracker h/w.