

MICE Experiment Management Office

10th March 2015; 14:00 GMT

Present: V. Blackmore, S. Boyd, P.M. Hanlet, K. Long, D. Rajaram, C. Rogers

Apologies: D. Adams, A. Bross, A. Nichols, R. Preece

Notes

1. Introduction: KL

2. Minutes and actions: All

- **PMH:** Investigate us of job-card system for C&M with RP.

Stands. PMH has spoken to R. Preece. Principal has been agreed; need now to put into practice. We agree, on PMH's recommendation, to keep action as a reminder.

Notes accepted.

3. Report/actions from MIPO: PMH

Principal issue discussed at the MIPO was the position of the secondary LiH absorber and the need for a Pb shutter. The decision has been made to maintain a Pb shutter to protect the tracker during cavity conditioning. Two options are being considered for the position of the secondary absorber: in the bore of the spectrometer solenoid, or, as a movable pair close to the position of the lead shutter. From the MEMO point of view, the important thing will be to document the advantages/disadvantages of the two alternative positions for the secondary absorber. PRY-south plate delivery expected to be by 07Apr15. North-plate deliver expected by 28Apr15.

Envelope and interface specification document being prepared by R. Preece. Actuators for the Pb shutters discussed. Believed that most likely failure is in vacuum rather than in shutter mechanism.

In person meeting to finalise documentation for the April reviews will be at FNAL on 23Mar15.

4. Planning for commissioning and operations: SB

- Status of preparations for:

– Planning for weekend running in User Run 2015(01);

* 21/22Mar15:

No decay solenoid. Calibration of centre of TOFs can be done with relatively small amount of data, but calibration will be limited to the centre. Larger data set required to get calibration in corners of the detectors. In addition to the absolute calibration need to do the time-walk calibration. Run plan has to be:

- Commissioning of system;
- Including the comparison of old and new trigger;
- Calibration of the TOFs;
- Pion beam for tests;
- Target training for BLOC.

* 28/29Mar15:

Run plan:

- Calibration of the TOFs;
- Ckov scan in parallel with TOF calibration;

- Pion beam for tests.

* **11/12Apr15:**

Decay solenoid expected to be available. So, run plan:

- TOF calibration to check;
- MMB commissioning. Start with Step I MMB to check for consistency with old settings. The start search for optimum settings for new absorber. Then try and maximise rate into trackers.

* **18/19Apr15:**

Run plan, MMB commissioning:

- Continue the search for optimum settings for new absorber. Then try and maximise rate into trackers;
- TOF2, KL, EMR commissioning and calibration.

* **25/26Apr15:**

Run plan, MMB commissioning:

- Continued search for optimum settings for new absorber, optimisation of rate into trackers;
- Revisit/continue TOF2, KL, EMR commissioning and calibration;
- Tracker commissioning. Should be possible for south-side cryostats since the south PRY will have been installed (milestone 14Apr15).

– Progress on revision of run plan for Step IV;

In KL/CR's hands.

– Revision of shift analysis;

Re-analysis is underway. EB pointed out at the last EB that it was necessary to make a check comparing the CHEESE sign-up list with the collaboration list. This has been done and it looks as though shift sign-up is pretty much saturating those who are eligible.

SB will ensure that Serbians and Chinese sign up the appropriate number of persons. **KL** will continue to chase sleeping partners.

- Status of MOM rota;

No change since last time. Empty slots are Dec14, Mar15 and May15. SB will invite P. Franchini to take two. Then have reduced problem to 1; and will need to fill.

- Preparations for on-call;

Arrangements for BLOC, SOC, TOC were discussed. We identified need to have detectors (TOF, Ckov, KL, EMR) covered and noted the fact that Mississippi, Milano and Rome have few people on whom to call. In view of the similarity and stability of the systems, it was agreed that SB will seek to establish a "Detector on call" (DOC!).

- Status of documentation and liaison with ISIS; and

Ongoing pressure on documentation. Liaison with ISIS seems good at a working level.

- Status of planning for MICE/ISIS operations meeting.

Meeting 16Mar15; no agenda yet. Need to push on agenda. KL to talk Z. Bowden again this PM. Need to generate agenda asap.

- Issues noted:

Need to establish details of Friday training sessions.

Presently shift sign-up for 28/29Mar15 running is poor.

5. S/w&C progress against milestones: DR

- Progress against milestones;
- Consideration of processing time issues.

See http://micewww.pp.rl.ac.uk/projects/memo/wiki/2015-03-10-MEMO_C+SW.
EMR detector model reported by CR to be not sufficiently advanced. DR took note.

6. C&M progress against milestones: PMH

- Progress against milestones;

Integration of beamline in run control is now complete. Can operate in test mode. In test mode, need to be able to read from power supplies, which means they need to be on.

Some issues with CDB related to IP addresses. These were fixed. This verified both read and write to CDB. At the moment, however, MMB currents not being written correctly.

Detector systems not yet in RC. EMR (C. Heidt) making progress, but not yet complete.

Tracker is now capable of being initiated from controls system; an important step. In the mean time E. Overton is modifying J. Leaver code to allow multi-threading to allow parallel startup of tracker systems. Following this need to make calibration start-up from RC. Also need to read the temperatures.

RR2 computer set-up to begin commissioning work. Need to check on status of terminal server.

C. Heidt is starting work on RC documentation.

Outstanding from 02Mar15 milestone is EMR and tracker. Progress will be made this week. Likely that it will be possible to complete this work by the 21Mar15.

- Investigation of use of job-card system.

Have discussed with R. Preece. Still need to make use of the job-card system.

7. Status of Step I publications: VB

- Pion-contamination paper:

Issue is that the re-processing of the data has revealed changes in various distributions that are not understood. Now are trying to make sure cuts are appropriate to the reprocessed data. Plan now is to revisit all cuts using the new reconstruction. So, would expect in a short time to come up with a revised selection. Meet again in a couple of days. Y. Kharadzhov has proposed a cut on KL that removes the observed double peak.

- EMR beam-test paper:

Good progress reported at the recent VC. VB is pushing on the completion of the draft of the note. Goal will be to make the Note available in April. Perhaps ask YK if he can support the work.

8. Preparations for analysis at Step IV: CR

- Status of analysis tools etc.
- Status of preparation of first Step IV paper; and
- Status of cooling-demo design paper (including placement of secondary absorber).

See http://micewww.pp.rl.ac.uk/projects/memo/wiki/2015-03-10_physics_coordinator_report.

Held up by secondary absorber position uncertainty. Hoping to make a revision of analysis at the analysis meeting on Thursday.

No big change to the status of preparation of the analysis dashboard. Two groups are lined up to look at materials studies.

9. DONM

24Mar15; 14:00 GMT

10. AoB

None.

Summary of actions

- **PMH:** Investigate us of job-card system for C&M with RP.
- **SB:** Ensure that the Serbs and Chinese have correct list of collaborators in CHEESE.
- **KL:** Continue to work with sleeping partners to ensure full shift pool.
- **SB:** Seek to establish DOC.