

MICE Experiment Management Office

8th April 2015; 14:00 GMT

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

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

Notes

1. Introduction: KL

Standard MEMO agenda to follow discussion of magnetic alignment.

2. Magnetic alignment: JC, VB

See slides uploaded. Upstream flange of downstream solenoid appears to be out of true. Also, magnetic axis shows marked vertical displacement. Arguably unphysical. Long discussion. Points we agreed to act on:

- (a) Organise survey of mating flanges and warm bore;
- (b) Can we put current through the magnet? ?100mA? Measure field pattern;
- (c) Get discussion meeting with builders regarding tolerances;
- (d) Hall probes in a pattern at u/s and d/s solenoid;
- (e) The plan we execute if we don't know better;
 - Align SSU to FC;
 - Specify bespoke bellows or alignment of SSD.
- (f) JC/VB: continue to review analysis to find mistakes;
- (g) Check effect and which mis-alignments are the worst;
- (h) Compare with alternative analysis made by Maria.

3. Minutes and actions: All

Notes accepted.

- **SB:** Ensure that the Serbs and Chinese have correct list of collaborators in CHEESE.
Stands. Email has been sent but need to chase.
- **KL:** Continue to work with sleeping partners to ensure full shift pool.
Ongoing. Following up lead with NIKHEF. Other institutes need to be chased separately.
- **SB:** Seek to establish Detector Oncall Call.
SB is talking with F. Drielsma. Need a little more time to sort out the issue.
- **DR:** Work with AD to define a timeline to get the MAUS speed-up done.
Stands.
- **PMH:** Make a plan for maintaining the online-computing "estate" and resolving ongoing issues with P. Franchini with a view to freeing PMH time for control-system development.
Ongoing. Will meet with PF about various issues.
- **KL:** Initiate a magnet positioning meeting in the very near future.
Done. Now scheduled for 15:00 BST 08Apr15.

4. Report/actions from MIPO: RP

One item: safety windows for absorber. Inventory of windows was presented. AN is getting the windows pressure tested to for safety. LiH shutter cost of disk needs to be identified. Length of channel discussed; optimum seems to be -8 cm compared to that defined in MICE Note 452.

5. Planning for commissioning and operations: SB

- Rolling reminder list:
 - Status of operations in 2014(03):
 - * Plans for weekend running on Apr15;
This w/e: no running because of decay solenoid power-supply problem. Will use the weekend to allow P.M. Hanlet to shakedown the controls and monitoring. Next weekend plan to proceed on the assumption that the power-supply issue will have been fixed. May allow calibration work on downstream detectors.
 - * Progress on revision of run plan for Step IV;
CR has produced the plan of measurements; need to review and if necessary revise.
 - * Revision of shift analysis;
Options analysis will be presented at EB on Friday.
 - On-call (Detector, BLOC, ...)
Ongoing.
 - Status of documentation and liaison with ISIS;
Regular meeting arranged between A.Stevens; D.Adams and S. Boyd. Need to get some alarms sent up to MCR. PMH/PF will discuss this on Friday.
 - Next “general” MICE/ISIS operations meeting.
SB needs to set date in consultation with AS and DA.

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

No update this week.

7. C&M progress against milestones: PMH

- Progress against milestones.
Progress since last time: beam-line IOC is complete; detector IOC is more that 50% complete. This level of completeness will allow the state machine to be developed. Integration of the tracker is well advanced. E. Overton is now testing the tracker calibration. PMH has introduced a “button” to run the script. When this is complete the vacuum information needs to be incorporated from DL controls. During this w/e, work will be carried out on Run Control and detectors. Goal is to make Run Control more stable. Run configuration database will be updated to include configurations for “special runs”. PMH is meeting with S. Griffiths (DL) to identify open issues.

8. Status of Step I publications: VB

- Pion-contamination paper:
Reprocessing indicates reasonable agreement of MMB with muon template. Will now extract a limit.
- EMR beam-test paper:
Paper draft will be in circulation before MPB.

9. Preparations for analysis at Step IV: CR

- CR on leave; no item this week.

10. DONM

21Apr15; 14:00 BST

11. AoB

None.

Summary of actions

- **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 Detector On-call Call.
- **DR:** Work with AD to define a time-line to get the MAUS speed-up done.
- **PMH:** Make a plan for maintaining the online-computing “estate” and resolving ongoing issues with P. Franchini with a view to freeing PMH time for control-system development.