

MICE Experiment Management Office

17th October 2017; 15:30 BST

Present: KL, DR, AK, SB, CW

Apologies: CR,

Agenda

1. Introduction: KL

Presently future of data taking in this Cycle is uncertain. Need to remain flexible and expedite the completion of our case for operation in Cycle 2017/03. Discussion of run plan for 2017/03 and routine reports on progress and issues will form bulk of meeting.

2. Minutes and actions: All

- **KL/CW:** Propose date for decision point to switch from preparation of LH2 system to re-installation of LiH absorber.
 - **Done.**
- **CR/KL:** document settings in short document; upload to wiki.
 - **Done/superseded.**

3. Paper status and new public results for VC: CR

Analysts are active taking data, so work on analysis has slowed. Work is ongoing in the same areas reported last time.

4. Review of tasks listed at last MEMO

Items from CM48		
Id	Item	Assigned to
1	Understanding of field; offset simulation	J. Langlands, C. Hunt
2	Mmt scale, effect of non-uniformity of field in tracer volume	J. Langlands, C. Hunt
3	Treatment of systematic errors (e.g. field) in emittance-evolution paper	J. Langlands, C. Hunt
4	Definition of fiducial volume (definition of apertures)	C. Rogers, C. Hunt
X	Standard event selection routine	Code in test server
X	Alignment (e.g. of MR) in MC effect on GLOBAL	M. Federov, C. Hunt
X	System performance paper (SW)	D. Rajaram, C. Rogers
8	Beamline simulation (recontact Mokhov?) Perhaps look at target geometry?	P. Franchini
9	TOF reconstruction in the MC (not like the data)	Fix calibration. Then seek additional issues in digitisation.
10	Volume transformation poststream/downstream	"simple cooling demo"; presently unassigned.
X	Speed of GLOBALS issue	Two possible ways to address: an issue to be used in the control room. Geometry look-up.
X	Spares for DAQ	Perhaps OK. Check MR spares. Perhaps repair faulty board that was taken out.
X	Buy more space in MICE RAID array	Not necessary.
X	Configuration control at the start of the run	Perhaps set-up as check list.

Agreed to keep following the tasks in future meetings.

5. Run plan for 2017/03: KL/all

Will need to take the following data:

- LiH, empty channel (priority),
- Empty-channel LH2 (priority) because of risk to completion of this data set.

The risk to the programme if personnel to cover the shifts could not be delivered was noted.

Agreed:

- Need an inventory of the existing data categories already recorded.

- Need to initiate a discussion of whether magnets can be left on overnight unattended?

Discussion of possible scenarios:

- Block 1:
 - ~15-20Nov17 – LH2 empty flip in 2 setting;
 - Remove LH2 vessel;
- Block 2:
 - 23-27Nov17 – LiH empty solenoid mode
 - Solenoid mode to flip mode transition.
- Block 3:
 - 29Nov-03Dec17 – LiH installation
- Block 4:
 - 7-13Dec17

6. S/w and computing: DR

Including tracker s/w review, ToF review and controls etc.

See notes. Points noted;

- Agreed to contact people taking over from A.Dobbs on MAUS and tracker s/w.

AMI issue (AK):

- S.Feher and V.Blackmore ran magnets and observed that some parameters spontaneously changed. Not sure why. Possible scenario: corrupted read-back of AMI420 because of command buffer limitation means that read-back order is not the same as that expected. Then, at next read, this is fixed.
- Looks as though these events have been going on for a long time. Parameter file was changed last October; parameter assignments were changed. Might have been motivated by the requirement to fix these errors.
- Need to investigate during shutdown. **Need to decide** if investigation of this is required; presumption is YES!
- Flow control/handshaking needs to be considered.

7. Operations: SB

Smooth! User Cycle a success. Rapidly define run plan for next Cycle. Polling experts for shutdown tasks on the assumption that we run (**Action SB**).

Problems with DAQ and expert availability. DAQ expert; **KL** to consider and approach to E.Overton.

End of run party 27Oct17 ... lunchtime.

8. DONM

- 31Oct17

9. AoB

None.

Summary of actions:

- **SB:** Prepare for Cycle 2017/03 on the assumption that it will go ahead.

- **KL:** Consider contact with E.Overton re DAQ.