

MICE Experiment Management Office

31st May 2016; 14:00 BST

Present: KL, CW, DR, CR, SB, PMH, VB

Notes

1. Introduction: KL

The excellent work that has been done on the descope options was transmitted in preliminary form to STFC and reported to the collaboration at the recent video conference. It is now very important to go back to delivering the Step IV programme. We should therefore push on to complete the papers that are in preparation and begin the preparations for the June/July ISIS User Cycle.

2. Minutes and actions: All

- **PH:** Remind system experts to complete and return the spreadsheets needed to implement the CDB entries for the state-machines.
 - **Stands:** PMH has not yet completed the statemachine for the SSs. This is expected to be complete this week. PMH will meet with M. Tucker later this week to resolve the remaining issues with the decay-solenoid state-machine.
- **DR:** Coordinate the spill-by-spill readout of the Hall probes.
 - **Stands:** DR reported that Y. Kharadzhev was waiting for the names of the relevant PVs from PMH. PMH resent the information to YK during the meeting. DR will remind YK of the need to implement the readout of these variables.
- **MOM(RB) and PMH:** propose schedule for the implementation of the transition to “SSH lockout” during data taking.
 - **Stands:** SB to replace MOM on this action and the task to be taken forward through the Operations Meetings.
- **CW:** bring network reconfiguration proposal to MIPO for decision on next steps.
 - **Stands:** CW will take this to the MIPO next week for a decision on whether the recommendations made by the expert group will be accepted.

Notes of the previous meetings were accepted.

3. Physics Coordinators report: CR

- For a discussion of the descope options for the cooling demonstration, see the presentations at the recent video conference.
- *Scattering analysis*: is in good shape; have agreed to appoint the internal referees. Two names have been proposed and there has been no objection raised. Need to decide whether to invite them to serve and to push on with refining and completing the analysis.

- *Demo paper*: the meeting between the authors and the internal referees meeting will take place in three weeks time. The work on this paper is now advanced.
- *Emittance paper*: a meeting between the authors and the internal referees has taken place. A number of improvements and actions were agreed at this meeting. A number of things are missing from the MICE Note, including the global-track reconstruction. CR plans to pick this up.
- *Run plan*: now have a first iteration of the run plan which CR has agreed to write up.

4. S/w&C (and MAUS): DR

- Issues:
 - (Helical) track-finding efficiency
 - The source of the inefficiency is being investigated. The principal loss in efficiency is for five-point tracks.
 - The event viewer is being integrated into MAUS and will be included in the next release. Once this is done it will be necessary to roll the event viewer out online in the MLCR.
 - Online:
 - Need to get the Hall probes read out (see above) and get the trigger pattern into the readout.
 - MC processing
 - Straight-track samples and 4T samples have been generated. Need to get the GRID processing going before large samples can be generated. This requires that the "z"-position issue in G4beamline be resolved. DR suggested that this would take a couple of days. Samples can then be generated on the GRID.
 - *General issue of G4beamline*: the currents that are presently used don't accurately reflect the currents used during data taking. Need to review and revise the currents.
 - *Size of data sample*: require simulated data sets 10 times the size of the real-data samples. Ideally this will be addressed by sampling the beam distribution at TOF1. Alternatively, a brute force approach will be taken to allow the analysis for the papers to be completed.
 - Speed of MC
 - Stands.

5. CAM status: PMH

- **Separation of controls network**
 - Status noted above.
- PMH busy with the QD/QP commissioning so less progress than usual.
- PMH expects to finish the SS state-machine this week.
- Because the compressors are running close to the limit of their cooling flow, compressor status information must be added to the display monitored by the ISIS operators.
- Archiver data integrity check:
 - Stands.

6. Commissioning and operations: SB

- Status of settings for “pionic beam”:
 - PF has currents for three settings. These need to be reviewed by JPa. Expect that the settings can be tested in the next User Cycle.
- Run plan and shifts for Jun/Jul run
 - There is uncertainty in estimates of how long it takes to bring up the channel. Agree to take a conservative approach to shift scheduling:
 - Wk 1: reserved for magnets
 - Wk 2: schedule one shift per day
 - Wk 3: schedule two shifts per day
 - Wks 4 and 5: schedule three shifts per day.
 - Need expert start up period; seek to do this as early as possible; consider the first day of the second week.
 - **Agreed:** need to take data to check alignment and to redo calibration.

7. DONM

- 14Jun16

8. AoB

- Bimonthly report is due; KL and CW will begin this and assign writing tasks as appropriate.

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