

## MICE Experiment Management Office

6<sup>th</sup> November 2015; 12:00 GMT

Phone details: <http://mice.iit.edu/phonebridge.html>

Present: KL, CR, VB, EO, PH, DR, CW, PMH, AN, SB

### Agenda

#### 1. Introduction: KL

- Now that Step I papers are complete and the data taking has become more routine its time to regroup in order to make sure that the commissioning and operations activities are more robustly organized and dovetailed.

#### 2. Safety: AN

- Duty Coordinator job has been agreed in concept with relevant people in ISIS, PPD and SHE. AN is 75% through redrafting the responsibilities document and plans to circulate it later today. A draft of the letter of appointment has been sent to KL and D.Wark for comment. G. Finlan will allow MICE personnel on the safety-for-managers course which takes place 1—3Dec15. Need to specify who is on the course next Wednesday.
- Penultimate meeting of the LH2 working group yesterday. It was agreed that the sign-off mechanism will be a revision to the OP-I document to correspond to a re-definition of the experiment with LH2. H/w is complete; 19Nov15 is the final meeting of the LH2 safety w/g. When JTh is happy then the sign-off can begin.
- **CW:** Additional people mentioned in EB.

#### 3. Minutes and actions: All

- Minutes not completed, so return next to this topic next time.
- **SB:** Initiate failure-mode analysis as input to MICE/ISIS Safety Committee discussion of operation of target with access to MICE Hall allowed. Not yet defined whether we seek access in “controlled entry” or “free”.
  - **Stands.**
- **CW:** Define timetable for offset bellows.
  - **Superceded.** Drive for offset bellows complete. Have price £11k+VAT; 6—8 week lead time. Drop action, resurrect when we want it.

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

- Online:
  - OnMon requires clean-up. Redundant information needs to be removed. R. Gardner will make the clean up, YK and DR will review.
  - Alarms from OnMon will be updated too. PMH can check the alarms.

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- YK is implementing the revisions for the DAQ deployment from repository. Not ready yet.
  - Offline:
    - Geometry:
      - Tracker and EMR are being finished.
    - Want to reprocess data taken so far with tracker bug fixed.
    - MC processing: will start Monday. Tracker issue may be removed by Monday, otherwise move forward in any case.
    - Need a production manager for the standard productions of MC. **KL/DR**: need to take forward together.
    - Speed of MC: profiling of MC looks like the issue is in Geant. Need to take care to worry about speed up in due course.
  - Infrastructure:
    - Need to make careful failover tests in the MLCR.

#### 5. CAM status: PMH

- E5ACs controlling heaters on SSs are now read-out. Have found that SSD heaters are on around 70% of the time, in SSU heaters are on only 30-25% of the time. Not sure about resistance of the heater to estimate power.
- Tracker controls are being advanced; vacuum gauges being read. Oxford controllers being brought into the controls. Wiener power supply addressing fixed. Also, new interlocks being completed too.
- Anti-icing fans replaced with blowers. Observation that vacuum degrades when magnet is on. Instrumentation effect? Or, perhaps it's because of icing on the leads.
- Configuration database needs to be updated to add channel magnet currents. This means that need to make Run Control write the magnet currents. Goal is that this will be done in the near future.
- Ordered task list:
  - E.g. expert-layer; archiver data-integrity check.
- Network review:
  - PMH met with Diamond network expert yesterday. Diamond close access from outside.
  - Static or DHCP not addressed with Diamond.

#### 6. Commissioning and operations: SB

- Shifts to December partially filled. Need to decide re shifts in December by the end of next week.
- CW, VB, SB discussed planning for next couple of weeks. Priority list has been made. Need to repeat discussion ahead of operations meeting.
- Step IV "system-level review"; light-touch review of the system issues that need to be addressed before combined magnet powering. Discussions have begun on how to move forward. Need to raise this at the MIPO too.

#### 7. Revision of run plan: SB, CR

- 2015/03:

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- LH2 readiness discussed by AN above. S. Watson has goal of 11Dec15 for fill start.
  - Plan to do scattering measurement. CR has J. Nugent working on the amount of data required to deliver the measurement.
  - Also FC alignment run. Could do straight vs. straight to check FC alignment.
  - Q789 to check alignment.

#### **8. Status of cooling demo specification paper: CR**

- Phone meeting with JBL and JPa (authors) to discuss the paper. Need to justify optimization algorithm and need to demonstrate understanding of emittance growth and reconstruction of measurement. Longitudinal phase space discussion for MICE Note only.

#### **9. Step IV: CR**

- Precise measurement of emittance analysis/paper: **VB**
  - Tracker reconstruction and geometry needs to be fixed. Need TOF reconstruction to rework again.
- 2015/03:
  - MC required for preparation of run plan.
- Running in 2016
  - CM43 run plan stands. Needs to be revised in the light of experience.

#### **10. Response to RLSR/MPB: All**

- Response document circulated and discussed. All aware of what they need to do.

#### **11. DONM**

- 17Nov15; 14:00

#### **12. AoB**

- PMH: asks SB whether another activation run is needed. SB will meet D. Adams next week.
- EO: raised issue of do we need MDR? We agreed that it was necessary.

#### **Summary of actions:**

- **SB:** Initiate failure-mode analysis as input to MICE/ISIS Safety Committee discussion of operation of target with access to MICE Hall allowed. Not yet defined whether we seek access in “controlled entry” or “free”.
- **KL/DR:** Seek MC production manager.