

MICE International Project Office and Experiment Management Office

15th September 2014; 14:00 BST

Present: P. Garbincius, P. Hanlet, K. Long, R. Kroll, M. Palmer, R. Preece, V. Blackmore, S. Boyd, J. Pasternak, P. Soler, A. Bross
Apologies: D. Adams, A. Nichols, C. Rogers

Notes

1. Introduction: KL

Rapidly deal with item on DOE report so that those involved can be excused.

2. Minutes and actions: All

MEMO: outstanding actions:

- **KL:** Take forward negotiations for additional support for the computing infrastructure;
Ongoing: Discussion with D. Wark and S. Boyd took place. Need to continue to discuss, but “of-line”. Keep action to remind of need to find the additional support.
- **VB:** continue to evaluate (and attempt to mitigate) deleterious effect of the longer RFCC.
Superseded. Action closed.
- **KL:** Add SW&C progress against milestones as an agenda item for the MEMO.
Done. Will appear on future MEMO and joint MIPO/MEMO agendas.
- **RP:** Tell us the schedule for the diffuser installation at the next meeting;
Done. Today installation plans are being finalised. Diffuser will be installed tomorrow.
- **KL:** Add C&M progress against milestones as an agenda item for the MEMO.
Done. Will appear on future MEMO and joint MIPO/MEMO agendas.
- **KL VB** to set up pion-contamination review meeting late September;
Ongoing: VB agreed to set up the review. Action transferred to VB. VB will meet with proponents on Thursday at 10:00. Trying to make a draft. Referees being sought.
- **KL VB** to set up EMR beam-test review meeting late September;
Ongoing: VB agreed to set up the review. Action transferred to VB. Paper draft has been provided, VB has commented. Some work required but in reasonable shape. Date will be set for a meeting in the near future.
- **RP:** Consider measurement of position or stress measurement;
Stands.
- **VB:** Specify, then initiate “Physics block challenge”.
Done. VB/CR have specified the Physics Block challenge and R. Bayes has agreed to lead this activity. The goal is a Physics Block analysed by the collaboration meeting in Rome.

MIPO: outstanding actions:

- **JPa, VB, CR:** Write 1–2 page descriptive note to give dimensions for engineers;
Stands. VB will document the configurations prepared for the DOE review **this week**;
- **JPa, VB, CR:** Complete MICE note on initial Step $3\pi/2$ studies.
Stands. MICE Note (to be ready by the **17Oct14**) to document the studies done on Step $3\pi/2$ so that it can be circulated ahead of the collaboration meeting in Rome.

3. **Document for DOE; final actions** Draft is in good shape. Some formatting issues being dealt with. New figures and tables have been put in. An issue with figure 4 was raised; VB will send update.
4. **Construction project:**
- (a) **FC status: RP/AN**
 Use of FC2 in Step IV: stronger constraints on performance in Step IV than Step V;
 Forces in Step 3pi/2 need to be calculated and the quench properties estimated;
 Quenched at 224.98 A. But perhaps not a real quench as there is a limit in the AMI controller. Plan now is to recondense He and then retest. Goal is 225 A+2%, then do 24-hour soak test;
 Thermal issue needs to be addressed too to be sure that it will operate safely before putting into channel;
 Field-mapping needs to be done. Expected that could be October;
 By end of next week would expect to have all information;
Action: KL/RP: So need to make a timetable for the various decisions and the information required;
 Minimum beta position is driving need for stronger current.
- (b) **PRY status: ABr**
- Frame is complete, will perform final fit up at Keller
 - New Step IV start schedule has 25th May 2015
 - Plates arrive in New York, 15th Nov 2014
 - Metrology will be performed at Keller, can then provide positions of holes and shims which can be prepared at RAL
 - Full South frame and wall 2nd Mar 2015
 - North Frame – 2nd Mar 2015
 - North Wall – 24th Mar 2015, perhaps North Frame also
 - No immediate plan to fit up north side before delivery
 - Will use time to fit up magnets, commission trackers, commission PID, etc.
 - **ACTION** – bring Plate, Tarrent, and interested parties together to devise a streamlined plan for installation/commissioning
- (c) **Infrastructure status: AN**
 No update this time.
5. **Operations and analysis:**
- (a) **SW&C update: CR**
 Data challenge being led by R. Bayes;
- (b) **Status of remaining Step I papers: VB**
 Done under actions.
- (c) **Planning for commissioning and operations: SB**
 Not too much progress since preparation of documentations for review. Now starting discussion of commissioning and operations. Also, shift planning being discussed. Noted that CM40 was the deadline for launching the shift planning.
 PS will complete a draft of the detector document. Essential input will be available.
Agreed: SB: will produce by 17Oct14 a document describing commissioning, operations and shift plans.
6. **DONMs:**
 MIPO: Tuesday 23rd September 2014; 14:00 BST;
 MEMO: Tuesday 30th September 2014; 14:00 BST.
7. **AoB**
 None.

Summary of Actions

MEMO: outstanding actions:

- **KL:** Take forward negotiations for additional support for the computing infrastructure;
- **KL VB** to set up pion-contamination review meeting late September;
- **KL VB** to set up EMR beam-test review meeting late September;
- **RP:** Consider measurement of position or stress measurement;
- **VB:** Specify, then initiate “Physics block challenge”.
- **KL/RP:** Make a timetable for the various decisions required related to the FC (use of FC1 or FC2 in Step IV; refit of FC1 for MICE cooling demonstration) and the information required;
- **SB:** Produce by 17Oct14 a document describing commissioning, operations and shift plans;

MIPO: outstanding actions:

- **VB:** Write 1–2 page descriptive note to give dimensions for engineers;
- **JPa, VB, CR:** Complete MICE note on initial Step $3\pi/2$ studies by 17Oct14;
- **RP:** Set up alignment task force;
- **KL/RP:** Make a timetable for the various decisions required related to the FC (use of FC1 or FC2 in Step IV; refit of FC1 for MICE cooling demonstration) and the information required;
- **AN:** Get Tarrant and Plate together with interested parties to discuss installation plan for the Step IV PRY.