

## MICE Executive Board

27<sup>th</sup> June 2016; 15:00 BST

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

**Present:** KL, CR, CB, RT, SB, ABr, JC, PS, MP, MB

### Notes

#### 1. Introduction: KL

This is the second extraordinary Executive Board meeting called to how to react to the formal feedback to the collaboration in the STFC Executive Board decision regarding the extended Step IV running, which has been approved, and the descoped cooling demonstration, which has not.

KL reported that the FC had been run up to current (86A in solenoid mode) but that it had not yet been possible successfully to execute a soak test because of an intermittent failure in the controls system which causes the loss of the “ramp-enable” signal. The problem is being investigated.

#### 2. Minutes and actions: All

- **KL:** Post measurements of 8 V ms activation run:
  - o **Superseded:** upon investigation, it turned out that there had been no 8 V.ms activation run, this for a number of reasons. The MICE/ISIS Safety Meeting that immediately preceded today’s EB approved running at up to 3 V.ms. Further it was agreed that incremental updates to the beam-loss limit would be considered as experience was gained.
- **CW:** obtain costing for minimum viable RF-power programme;
  - o **Underway:** meeting at DL with the RF team this Friday to assess progress and to revise the costing. It is now important to take stock of what has been completed so far and to estimate the work needed to complete one RF-power system. It is hoped that total headline cost will be lower since work has continued.
  - o The need to produce a costing for the stabilisation of SSD during Step IV was discussed. This is in hand in the US. MP will forward the costing when it is read. The following action was agreed:
    - o **MP:** Provide costing for the stabilisation of SSD.
- **CR:** Pull together the Doodle poll for a brainstorming on a possible beam test with RF.

- o **Done.** CR circulated a summary of the options discussed at the meeting. There was no clear option in which a cooling demonstration could be carried out with one cavity-module replacing a focus coil. We agreed that it was important to maintain the single-cavity-module assembly process in order to keep an option for a cooling demonstration open.
- **KL:** Resolve the issue of the venue/date of CM45 asap.
  - o **Done.** The meeting will be held from 28 to 30 October at the Coseners House. Consequently, because of the DOE travel rules, attendance from US Laboratory staff may be lighter than is desirable.
  - o A meeting at LBNL to discuss the single-cavity module assembly would be required towards the end of the assembly process. CW will organise this meeting at the appropriate time through the MIPO.

The notes of the previous meeting were accepted subject to comments being sent in by email before the next meeting on 15Jul16.

### **3. Response to STFC Executive Board decision: KL/All**

Slides summarising the status of discussion with country representatives of the collaboration had been circulated. These slides have not been posted on the meeting page because they contain confidential information. All countries remain committed to delivering a cooling demonstration in a descoped configuration to be defined. A number of countries believe that they can raise resource.

The following points were noted in the discussion:

- The concept of assembling a document outlining a descoped cooling demonstration and how it could be financed, including contributions from the international collaboration was endorsed. While it was recognised that there was no guarantee of success, it was felt to be worth pursuing.
- All believed it to be important to have demonstrated that the Step IV measurement programme was underway.
- The timeliness of responding to STFC was discussed. Pressure to respond formally in the short term came from the present negotiations for resources to continue the MICE programme in the UK. CW noted, in particular, that if the h/w teams are disbanded then it will be hard to pull them back together. He argued that it would be better to find a “tidy” way to leave the work on the RF hardware in particular so that the work could be restarted if such an opportunity presented itself. He also noted that some redeployment of the excellent engineers upon whom MICE relies is already in progress.

- It was **agreed** that a formal, place-holder response to S. Garlick's email would be drafted and sent by KL and PS. This response would indicate formally that the collaboration will seek to bring forward a proposal for a cooling-demonstration programme that substantially improves the scientific output of MICE for a modest cost and that can be executed before the long ISIS shutdown. In this way discussions can continue at CM45 with a view to finalising the revised plan.
- It was also **agreed** that it was critical not to lose focus on delivering a first-rate programme at Step IV.

#### 4. Next collaboration meetings:

- **CM45: 28–30 July 2016: The Coseners House**

#### 5. DONMs:

- 15Jul16

#### 6. AoB

**14Jul16; 15:00:** The next VC would be devoted to presentations of the analyses that will be presented at ICHEP. Formal requests for "preliminary" status of the results of these analyses will be presented at this meeting.

**01Jul16; 15:30:** impromptu VC to allow rehearsal presentations for the talks D. Rajaram and S. Boyd are to make at Neutrino 2016.

### Summary of actions

- **CW:** obtain costing for minimum viable RF-power programme;
- **MP:** Provide costing for the stabilisation of SSD.
- **KL/PS:** A place-holder response to S. Garlick's email should be drafted and sent.