



## Science & Technology Facilities Council

### **Muon Ionization Cooling Experiment Oversight Committee**

Monday 21 March 2016, Rutherford Appleton Laboratory, Oxon

#### **Feedback & Actions**

1. The Committee would like to thank the Collaboration for their report, and congratulate them on recent successes such as the increase in staff effort for the RF power system, the installation of the Partial Return Yoke and the progress made on the Software and Computing. The Committee would also like to thank Daresbury Lab for their effort and the positive impact they have had on the project.
2. The Committee is concerned that the current MAP Director is leaving Fermilab to take up a position at Brookhaven National Laboratory and has indicated that his time spent on MICE will reduce to 15%.
3. The Committee note that at the present time there are a number of variables and uncertainties associated with MICE. These issues should become clearer by the summer of 2016 once the cost of the Spectrometer Solenoid is known.
4. The Committee agreed that building a new Spectrometer Solenoid to specification is the preferred option as this will decrease risk. However, the Committee also note that this may involve higher up-front costs.
5. The Committee agrees that rebuilding the cold mass is only a viable option if it can be delivered and commissioned effectively. It is the Committee's opinion that it is unacceptable from a UK perspective for a SSD to be produced in-house in the US unless the US takes on full responsibility for its delivery, commissioning at RAL and any remedial actions.
6. The Committee is concerned that the failure of the Spectrometer Solenoid represents a major issue for MICE. There is no clear technical solution that is likely to be financially viable and this could lead to the demise of the MICE project.
7. The Collaboration should consider what measures can be taken to descope the liquid hydrogen system, and present options to the Cost to Completion Review at the end of April 2016.

**Action: Collaboration**

8. The Committee would like to receive a copy of the report from the MICE Project Board when it meets in April 2016. The Committee would also like to be sent the reports from the previous two MPB meetings.

**Action: STFC**

9. For the Cost to Completion review, the Committee recommends that the Collaboration explore other scenarios for completing the MICE project, such as funding below flat cash level, reducing the RF power or terminating the MICE project after Step IV.

**Action: Committee/ Collaboration**

**Next Meeting**

10. STFC has set up a Doodle Poll and has identified 4 October 2016 as the best date for the next meeting of the Oversight Committee.

**Action: STFC**