Project Manager Report

MICE Collaboration

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CM 20

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Where are we at the moment?

- Two possible visions

"Glass half full"

  - Everything is installed and almost everything is connected
  - We understand all the outstanding problems
  - We don't need to do anything new - just keep going

- We may be at risk of confusing Lethargy with Strategy!

"Glass half empty"

  - Everything is installed but nothing really works yet!
  - We know some of the problems but what else is around the corner?
  - We should change our working regimes immediately

- *Like the traveller who asks for directions and is told……*
- "If I were going there, I wouldn't start from here!"

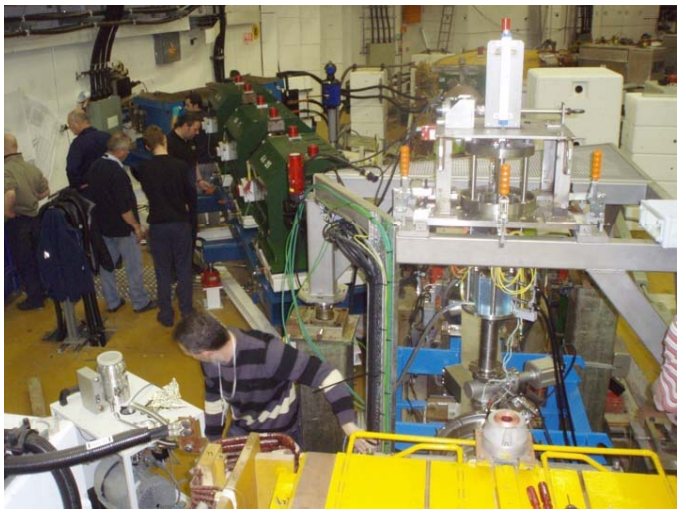
MICE Hall and Infrastructure

Much progress has been made:

- *A well co-ordinated engineering team has evolved and we must maintain this*
- *Very good relationship with ISIS.*
  - *David Findlay (ISIS) said the same thing at the CB*
- *Infrastructure project well understood*

However ….

- *Linde plant is delaying Decay Solenoid*
- *Minor mechanical issues cause big delays*
- *DSA access depends on ISIS beam schedule*
- *Target. Limit switch problem*
- *To get beam in the hall we need **everything** working*
- *Delay in one area causes delays & costs in others (installation of temporary items*
- *Costs, future funding……*



Engineering Services & Integration
The Technical Coordinator's Rant

- QA. Why do it…..?
  - Example: Q35s cannot be run because a water flange was missing – we now can't access until ISIS beam is off
  - If all services documented :- less chance of it happening
  - Potential for this type of problem in many other areas

We are a little late to catch this on phase one, but we must plan better for phase two:

- Greater diversity among the beamline elements
- Much higher risk potential :- safety, technical and financial
- The Hall will be more crowded (equipment, people, RF, radiation, magnetic fields, H2 …….

How might we manage it?

- We need to document: 'off detector' services
  - Largely part of phase one and will hopefully be done anyway (legal requirement for CDM regime)
- Then we define patch panels and interfaces
- Then we define and document 'on-detector' services

Collect everything as an activity within the Phase II WBS

Hall Infrastructure – lots of dates

- **All planned with reviews, tenders and delivery dates known**

Decouple the RF project from the false floor.

  - RF components under the false floor. False floor provisional design review **15th Feb**

- **Removal of the concrete ramp**
  - Survey completed **10th Feb.**
  - Contractors need 4 weeks to excavate, start work on the **18th Feb**.
- **South magnetic shield wall and mezzanine**
  - Design agreed. Tenders back for steel plates **14th Feb**
  - Installation work due to start **10th March.**
- **North magnetic shield wall and mezzanine**
  - PDR on **22nd Feb**
- **Air conditioning**
  - AC layout agreed. Tender process started, delivery expected **31st March**
- **Rolling platforms**
  - 1 and 7 tracker platforms out for manufacture, delivery **1st March**.
  - Design #2,3,4,5,6, ready **12th April**
  - Delivery of #2,3,4,5,6 **11th July**
- **MICE hall roof**
  - Need a layout drawing of the roof & check the roofs structural rating

Phase II

- From Alain's talk on Monday, we can see the early impact of the hall & infrastructure project overruns …..
- It is hard to see how the Tracker can be tested with beam in the hall before July 08 ***unless*** we consider a pause in the infrastructure schedule.

Options

1. Pause infrastructure. Don't install tracker in solenoid and test with beam
2. Pause infrastructure. Install in solenoid and test with beam
   - Needs S and/or shield walls to be (partially??) complete.
3. Don't install in solenoid and test with cosmics as done in R8
4. Install in solenoid and test with horizontal cosmics (where?, rate?)
5. Wait until infrastructure finished and test with beam (as planned)
   - Effectively combine MICE Step 1 and Step II
   - Probably allows for the delay in ToF1

None of these are ideal!

Evaluation of schedule for Phase II

- Step III.1is now scheduled for Dec 2008.
  - This looks feasible given the current status of the 2nd Tracker and Solenoid and the spool piece.
  - It still needs a concerted effort to meet this milestone

BUT Focus-coil module: funding-limited schedule

Step	Milestones (Calendar years)	
	Agreed schedule [5]	Funding-limited schedule
III	Q1 2008	Q3 2008
IV	Q4 2008	Q4 2009
V	Q2 2009	Q3 2010
VI	Q4 2009	Unfunded

Very disappointing:

-More delay in placing the order (of course) implies more delay in Step IV

Some other issues

- We are in the process of setting up a "Common Fund"
  - "The Fund will be used to benefit of the collaboration and in support of the collaboration at (working at) RAL."
- The MOM is now an essential part of the management of MICE, taking the role of experiment leader in the Hall
- We are starting to put together a package of support for visitors.
- There is a EuCard Transnational Access bid being sough through FP7. It should provide ~ 250k Euro.
- We are all VERY aware of the STFC funding crisis.
- Please make your views known about the likely impact on MICE schedules (FC modules and possible limits on ISIS running time in future years)

…….and finally…..

Thank you for attending the MICE CM 20 at RAL.

We hope you have enjoyed your stay and the dinner at Christ Church (Many thanks to Debbie!)