



MICE PM Report

- *Phase One installations to date*
 - *Phase One remaining items*
 - *Progress with Phase Two*
 - *Phase Two planning sequence*
 - *Worries*
- *Don't have time for a detailed status report, have a look at: <http://mice.iit.edu/mico/>*

MICE EB, 25th July, 2008





Phase One Installations to date

• South shield wall:

- Support structure now complete
- Over 75% of the plates fitted
- Minor mechanical niggles, but nothing we can't fix, but see later!
- Based on current progress, we'll finish early August
- BUT: Charles Day have stopped work due to contractual dispute with RAL – supply of steel plates has stopped (they want another £5K due to steel price, but they took contract at a fixed price – letter from RAL Contracts on the way)

• Decay solenoid:

- Re-worked compressor now installed, but still problems, serious oil spillage on 9th July – a reported H&S incident. No running until this aspect is cleared
- Clean-up completed on 17th July, ready for cooldown now
- But later oil leak problems – see other slides

• Target:

- New on & offline targets to RAL by 21st July – confirmed during Sheffield visit 17th July
- Installation in R78 and ISIS over August shutdown
- Current target still reliable – must fully understand need to change existing, now well-proven, target – formal meeting with ISIS w/b 21st July
- Need to avoid clash with OsC
- Decided on 23rd to leave existing target in place, with approval of ISIS





Phase One remaining items

- **North Shield Wall support structure:**
 - *Bottleneck with RAL Procurement now cleared – over two months delay*
 - *£50K firm quote*
 - *Order now placed, but +£10K revision to quote while RAL dithered!*
 - *Important to accelerate this work to clear Hall for step II*
- **False floor**
 - *Magnetic modelling now verified – OK*
 - *Design and M/F drawings complete*
 - *Out for tender*
 - *£20K estimate – Order now placed*
- **DSA roof and walkways**
 - *Design complete – quotes expected in two weeks, install August shutdown*
 - *£10K estimate – Order now placed*



Phase One remaining items

- Upgrade compressed air supply:
 - *In progress*
 - Estimate £12K*
- Roof-extract fan
 - *Somehow escaped from previous estimates*
 - Estimate £15K*
- Fencing on R5.2 roof
 - *Another 'new' thing, but a safety obligation*
 - Estimate £10K*
- Main Hall door upgrade
 - *ISIS pays apparently*
- RF refurbishment
 - *Restoration/Installation costs - £30K (Hardware), firm quote, £50K staff costs*
 - ** need to explore how to pay for these items with non MICE funds, eg, Well Found Lab*





Phase One Remaining items

Mound excavation:

- *Long-running problem, but good progress:*
- *Design is done, vents and services ducts re-ordered*
- *Least possible impact on mound and therefore shielding*
- *Has removed Hydrogen vents from critical path*
- *Design done*
- *Order placed*
- *Scheduled for August shutdown – all detail planning is done!*
- *Our last chance till next May, hope for non – British weather*





Phase One Remaining items

LH2 Installation:

- *No new information received*
- *But September installation for prototype system will almost certainly slip to November/December 2008*
- *Manpower estimates need revising upwards*
- *Second HAZOP review needed*
- *Then formal RAL safety review*
- *Both these in September*
- *LH2 commissioning plan also required (Mike Courthold) to be submitted thro' MICE-ISIS Safety Management meeting.*
- *Prior approval for this from MICE TB*





Progress with Phase Two

Technical Status:

- *At CM21 I Promised draft of master project plan for each step by 4th July, but I'll be late*
- *Step One is making reasonable progress:*
- *TOFO (in temporary location) and KL are installed, cabling is complete, commissioning of TOFO, starts 14th July*
- *Sliding beamstop is in manufacture – scheduled for August shutdown, but fallback is to use existing (manually placed) shield blocks.*
- *Permission to run with existing beamstop blocks removed this week for one-off tests with KL & TOF granted*
- *Fixed beamstop parts all here – assembly in August*
- *Tracker #1 cosmic run with FNAL readout in R8 has gone very well*
- *Steps 2 & 3 dependent on delivery of spectrometer solenoids at end August and October – currently on target, but some unforeseen cooldown problems at vendor*
- *Integration of these should not be under-estimated, is being worked into the above plan*



Phase Two Planning Sequence (my view only!)



- *Aim to complete outline of project plan for OsC*
 - *Enough detail to define project major steps and milestones*
 - *Will be reconciled with current level of knowledge of UK funding from STFC*
- *Then:*
 - *Discussion with MICE Spokespeople in early August about how things might look*
 - *Another iteration of the project plan and milestones*
 - *The WBS also clarifies itself at this point*
 - *Approval of both by collective MICE project*
 - *Group leaders approached to ensure nominated staff are available*
- *That all probably takes us to mid-late September*

Progress with Phase Two



TOF0 in temporary position



Tracker #1 cosmic Run in R8



KL In position



Worries

- *Contractual problem with Charles Day*
 - *Potential for them to pull out, 70 tonnes of steel yet to be delivered*
 - *Theirs was the only sensible offer out of around twenty approaches*
 - *Don't have a fall-back*
 - *RAL Contracts Dept currently in legal process with Charles Day*
- *Conflict between civil work (North Wall and False floor) and steps II & III – realistic plan for Spectrometer solenoid/tracker installation vital to this*

