

Magnetic shielding meeting: 2013-01-09: 15:00 GMT

Conference Room 4, R1 (phone conference details circulated)

Present: JT, KL, JW, IM, PS, CMacW, PH, HW, AGallagher, AGrant, RP, MG

1. Actions:

- **KL:** Liaise with ISIS to set up joint meeting after Christmas.
Could not identify a date before CM35, perhaps no bad thing. Present date is 28Feb13, but this may not hold up. More news next week.

2. Status of magnetic model of MICE Hall:

PS

- See slides.
- Points noted:
 - Models take ~40 hours to run. Addition of additional rooms will increase the time taken.
 - IM:
 - Rack-room 2: shape of room is understood not to be the right shape, what is field?
 - Not yet run modelled. What is the priority?
 - For IM this is a priority. CMacW reminds us that there are estimates of the fields in the existing rack room which can be looked at.
 - KL pointed out that need to get rack-model done.
 - RP says hope to hold at 50A tomorrow, so first measurements may be quite soon.
 - **Agreed:**
 - Priorities:
 - Comparison with measurement in R9;
 - Parellisation;
 - ISIS rack rooms; and
 - MICE rack rooms.

3. Design and detailing of West Wall, MLCR extension and Room of Requirement:

JT

- Have met with ISIS and BPG representatives and agreed that Room of Requirement will be Rack Room 2, the present MLCR will be extended and, possibly later, an office for the Hall Manager/Principal Contractor;
- West Wall: have document defining the work to be done on the West Wall. Goal is to send document to the TB next week.

4. Partial return yokes: magnetic analysis and design

HW

- See slides:
- Points noted:
 - Detailed discussion of options of mitigating joints between the material making up the yoke. Care needed to ensure field leakage is managed appropriately.

- Need to study effect of “azimuthal gaps” in the present shield walls.

5. VC and collaboration meeting presentations

All

- VC (KL)
- CM35: sent to and published by Chris Rogers.
 - Introduction – KL
 - Modelling – PS
 - Racks and MLCR – JT
 - Return yoke – HW
 - Measurements – CmacW
 - Schedule considerations – KL

6. Schedule and plans, discussion

CMacW

- CMacW has taken information from tracker and west-wall move schedule. MPP circulated. This is to be regarded as a starting point. Goal now is to include more information in order to derive milestones.

7. DONM:

23Jan13; 15:00 GMT

Propose 28Feb13 for MICE/ISIS magnetic field meeting

8. AoB

- KL asks re comparison of models. CMacW reports that he believes PS results are similar to HW results. This would indicate that the models are in agreement.
- CMacW reports that MC urges us to understand the VB calculations. We agreed.

Summary of actions:

- **KL:** Liaise with ISIS to set up joint meeting after Christmas.