

Magnetic shielding meeting: 2013-03-12: 15:00 GMT

Venue at RAL to be advised (phone conference details circulated)

Present: JC, KM, CMacW, PS, MC, IT, JT, KL, VB, MG, CP, PH, HW

1. Actions:

- **KL:** Liaise with ISIS to set up joint meeting after Christmas.
Ongoing.
- **PS, KM, MC:** Provide first draft of questions and specification of advice required;
Done. VF will come to RAL tomorrow. The issue will be presented and initial discussion of consultancy.
- **PS, KM, MC, with KL:** Seek solution with VF to see what is feasible.
See above.
- **JW:** Advise on details of substations;
No report this week; action stands.
- **PS:** Common source of BH curve data;
Agreed that this would be implemented in the repository system that PS has set up for the comi files.

2. Magnetic model of MICE Hall:

PS

- See slides:
- Points noted:
 - General reassurance that Hall model and reduced model give similar answers.

3. Magnetic model of tracker cryostat

KM

- See slides:
- Points noted:
 - Cylindrical shields considered. Smaller cylinders must be thinner to have the same shielding effect. Large can will still be investigated;
 - Discussion of possible cylinder topologies discussed, for example, concentric cylinders; lengthening the shield; etc.

4. Magnetic model of racks and R9

MG

- Steps underway to understand VB's model of R9. Model was built to study safe operation of the FC. MG is now looking at building a model of the compressor. Rack model and R9 model not yet updated. Plans now to have three models which will be assembled at run time. Hoping for results next week.

5. Partial return yokes: magnetic analysis and design

HW

- No report this week.

6. Progress on magnetic measurements and validation of model

IT

- No more measurements. CP has made some plotting updates. These will be presented next week.

7. Schedule and plans, discussion

CMacW

- No report this week.

8. DONM:

19Mar13; 15:00 GMT

Propose MICE/ISIS magnetic field meeting – to be defined

9. AoB

- Post meetings on Sheffield WWW site. KL to tar and PS to post.
- KL: floated idea of technical publication (not imminently) on the modelling and mitigation.

Summary of actions:

- **KL:** Liaise with ISIS to set up joint meeting after Christmas.
- **PS, KM, MC, with KL:** Seek solution with VF to see what is feasible.
- **JW:** Advise on details of substations;
- **PS:** Common source of BH curve data;
- **KL:** tar meetings and send to PS;
- **PS:** Post meetings on Sheffield WWW site.