

Magnetic shielding meeting: 2013-03-19: 15:00 GMT

Venue at RAL: CR1 R1 (phone conference details circulated)

Present: MG, KL, JT, JW, HW, PS, IT, CMacW, MC, JC

1. Actions:

- **KL:** Liaise with ISIS to set up joint meeting after Christmas;
Ongoing.
- **PS, KM, MC, with KL:** Seek solution with VF to see what is feasible;
PS: Meeting with VF was a success. C. Riley from VF was shown the Hall and PS presented the problem. VF took the information back to VF and is now preparing a quote. Formally action is ongoing.
- **JW:** Advise on details of the substation;
JW has taken note of the equipment on the outside of the sub-station. Idea is to purchase a sub-set of these components and expose them to a magnetic field to see what effect the field will have. Add a standing agenda item under item 6.
- **PS:** Common source of BH curve data;
Done. Link has been added to the WWW site where curves etc. can be added. In PS comi code the BH curve is hard coded.
- **KL:** tar meetings and send to PS;
Done.
- **PS:** Post meetings on Sheffield WWW site;
Done.
- **PS:** Ask for a link to the Sheffield WWW site from the MICE IIT site.
Done.

2. Magnetic model of MICE Hall:

PS

- Beginning to look at error information that OPERA is able to provide;
- AutoGen is now working with the Quad model. Seems like boundaries of sub-model are too close. Needs to be reviewed.
- Another quad sub-model has been run, will help with the determination of the correct specification of the boundary conditions.

3. Magnetic model of tracker cryostat

KM

- No report this week.

4. Magnetic model of racks and R9

MG

- See slides.
- Points noted:
 - Issue of measurements being outside steel and therefore need to make a mesh somewhere outside steel. OPERA has an extrapolation feature. MG will think through advantages/disadvantages.

- MG may need a powerful computer. PS will liaise with MG to specify a desirable machine.

5. Partial return yokes: magnetic analysis and design

HW

- Work on integration on shields in the MICE Hall requires around 2-weeks of JT's time to work on the integration drawings. Goal is to have some progress by the end of April.

6. Progress on magnetic measurements and validation of model

IT

- No update this week.
- Need to consider reviewing possible magnets once the FC schedule is better known.

6.1 Progress on assessment of substation-components

JW

- Placeholder this week.

7. Schedule and plans, discussion

CMacW

- No update this week.

8. DONM:

26Mar13; 15:00 GMT

Propose MICE/ISIS magnetic field meeting – to be defined

9. AoB

- None.

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;