

Magnetic shielding meeting: 2012-12-05: 15:00 GMT

Conference Room 1, R1 (phone conference details circulated)

Present: JW, PS, KL, JT, HW, LF, AG, PH

1. Actions:

- **ABr:** Pursue development of test of non-standard lengths of Cryomech hoses Stands.
- **PH:** Simulate Wang situation and compare to the measurements made by LBNL colleagues. Now an agenda item. Delete action.
- **CMacW:** Liaise to ensure that Hall probes are installed and readout during SS and FC energising.
It has been agreed to instrument the compressors and the control rack with Hall probes. And will make a crude map of R9.
- **KL:** Liaise with ISIS to set up joint meeting after Christmas.
Contact made with David Findlay – in hand.
- **KL:** Contact DL MARS Group to see whether some effort might be available.
Done.
- **KL:** Add agenda item on modelling the existing situation owned by PH and VB.
Done.

2. Status of review of items in Hall and contacts with system owners: LF/MOM

- Agreed to keep as an agenda item. Need to re-activate when sub-models become available.

3. Status of magnetic model of MICE Hall: PS

- See slides: [here](#)
- Options for use of sub-models discussed:
 - **Agreed:**
 - Start with compressor (for Hall model that would mean the West Wall) and compare with VB simulation and with sub-model in the simulation;
- LF: points out that need to estimate field on the roof to be sure that there is no issue for equipment or personnel. CMacW will add plane of the roof and PS will try and make an estimate of field.

4. Modelling the SS and FC situations: PH (SS) and VB (FC)

- PH:
 - Decrease in step size and inclusion of racks reduce stability of the results. Problem is that can not compare to data as the fluctuations in the model are very large.
 - Discussion of whether the Opera might be indicated to help solve the meshing problem. PH noted that Mark Buelher has an OPERA model of the magnet and that this will be developed in collaboration with Maria Leonova to the solenoid mapping. It would be interesting to know whether MB or ML (or together) the OPERA model

could be extended to accommodate the compressors and rack at Wang. PH will follow up with ABr et al.

- VB:
 - No report. KL (or CMacW) will contact her to discuss when might be appropriate for a contribution.

5. Status reports:

Racks behind north wall: TH, IM

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Compressors along west wall: JT

Rack room 2: JT, JW, IM

6. Discussion of options:

Partial return yokes: HW

- See slides: [here](#)
- MC asks that HW checks slide 13 to see whether the location of the plant room is correct. Suggest that PS helps HW with dimensions.

7. Consideration of shielding for tracker: PS, MC, CMacW

- No report this week.

8. DONM:

12Dec12; 15:00 GMT

Meeting with ISIS to be confirmed

9. AoB

- Meeting time and date, online would like is to consider a change;

Summary of actions: