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

## Conference Room 4, R1 (phone conference details circulated)

**Present:** HW, KL, JW, JT, LF, CMacW, AN, RP, LF, PS, MG, PH, MC, AG, JC

### 1. Actions:

* **ABr:** Pursue development of test of non-standard lengths of Cryomech hoses
Superseded -- delete
* **KL:** Liaise with ISIS to set up joint meeting after Christmas.
Principle agreed with ISIS. KL to set up a Doodle poll.

### 2. Status of magnetic model of MICE Hall: PS

* See slides:
* Points noted:
	+ Matrix of models for the racks under various configurations. Systematic study in preparation;
	+ CMacW is making analysis of the results as the models finish;
	+ Sub-models:
		- Has been in abeyance because of other work;
		- Increase in personnel, summarized;
			* Emaill jim Clarke
		- PS will make a meeting of the modellers
	+ JW:
		- Can we decide on modeling of racks?
		- Not yet, need to study the various configurations. Can check model against R9 equipment with FC energized;

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

* West Wall/Mezzanine:
	+ Have now developed design to point at which it can be documented. Goal is to produce a document for review in a week or so;
* Rack room and revised MLCR:
	+ LF is developing detail of cable routing taking space constraints into account;
	+ Meeting tomorrow with BPG to discuss building modifications. Will require civil engineering review, but hope to have some cost information after this meet;
	+ Next week have meeting with Alan Stevens to discuss how we fit with ISIS requirements;
	+ Issues of cable routing discussed. Seek to avoid too many major revisions to the building;
	+ Goal to use CM35 as venue for reporting of review;
* Status of rack build:
	+ Rack build is underway. FC control rack and power-rack are: complete/50% complete;
	+ Then can send out the spectrometer racks;
* Proposed timescale:
	+ CM35 need timescale;

### 4. Partial return yokes: magnetic analysis and design HW

* See slides:
* Points noted:
	+ B-H curves used for the magnetic modeling of the Hall were supplied by Opera with the exception of the 1010 used for the shield walls and magnets. The resolution of the B-H curves at low field is poor and needs to be corrected;
	+ Results presented by HW emphasises the priority of comparing model to data, for example in R9 with the FC;

### 5. VC and collaboration meeting presentations All

* VC
	+ KL; principles to send material by Monday or Tuesday next week;
* CM35:
	+ KL intro:
	+ Modeling -- PS
	+ Racks and MLCR -- JT
	+ Return yoke – HW
	+ Measurements -- CMacW
	+ Schedule considerations – KL

### 6. Schedule and plans, discussion All

* CMacW agreed to “own” the schedule.

### 7. DONM:

16Jan13; 15:00 GMT

Meeting with ISIS to be confirmed

### 8. AoB

* PH: asks for change in colours to distinguish items on the drawings.
	+ - Issue is time (and money) – HW will do something intelligent.

## Summary of actions:

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