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 Superseded -- delete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
 - o 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:
 - o 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
- o KL; principles to send material by Monday or Tuesday next week;
- CM35:
 - o KL intro:
 - Modeling -- PS
 - o Racks and MLCR -- JT
 - o 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.