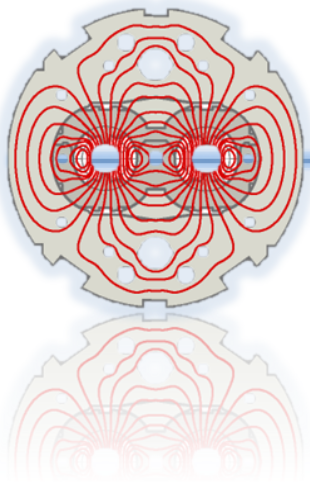


TEMB - 19 January, 2009



Status Report of Magnet Work Week 03 / 2009

Francesco Bertinelli - TE/MSC

Surface magnet planning with important contributions from
N. Bourcey, V. Parma, M. Modena, M. Bajko, R. Veness



Summary tunnel 3-4 Week 03/2009

■ 3-4:

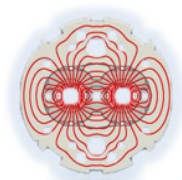
- 1 (2) MB reinstalled in D area in W03
- VAC cleaning ongoing
- SAM ongoing (Q6L4)
- Y-line repair ongoing

■ 1-2 shutdown:

- SAM ongoing (Q4R1, Q5R1, Q6R1, Q5L2, Q6L2)
- triplet braid R1 ongoing
- RF ball, 3 PIMs with buckled fingers on V2 (QQBI.18L2, QBQI.18L2, QQBI.19L2); R1 cleaned
- MB B16R1 decryostated, opening W04 in Bdg. 181
- 50 n Ω 31R1-31L2: magnet data OK (snapshots), 20/24 IC US tested, open and test 4 others?

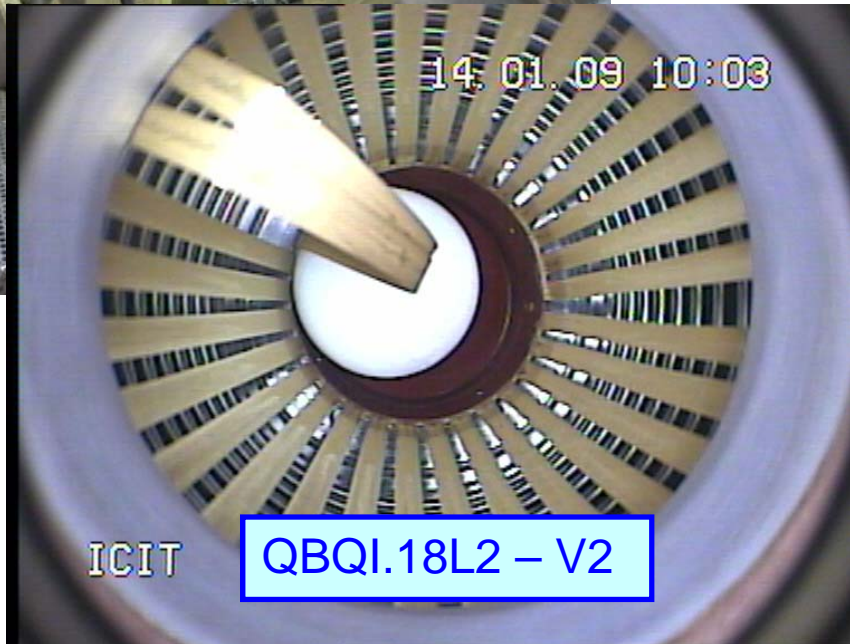
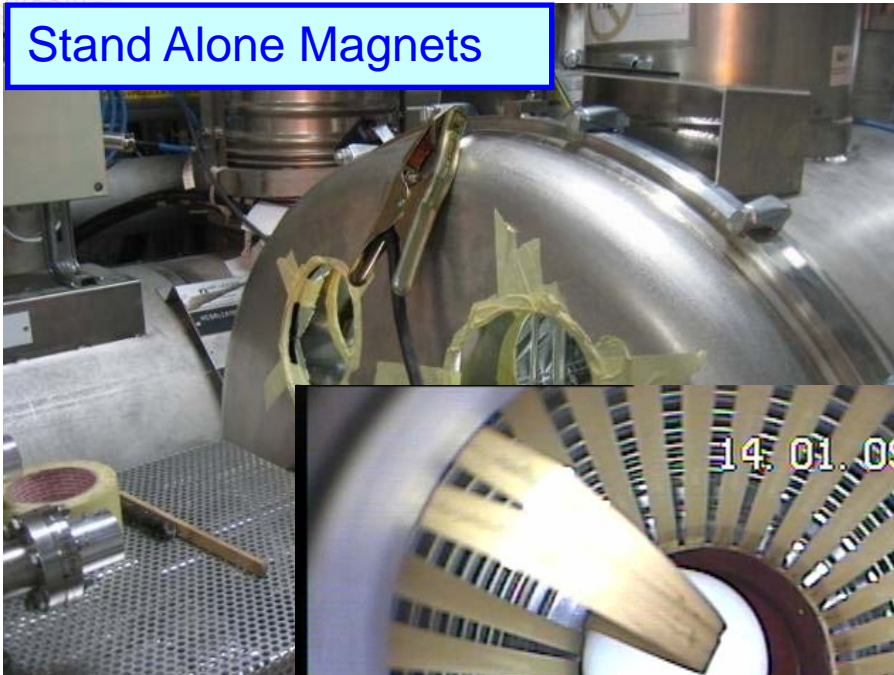
■ 5-6 shutdown:

- 3 Connection Cryostats started
- arc SSS He guards started



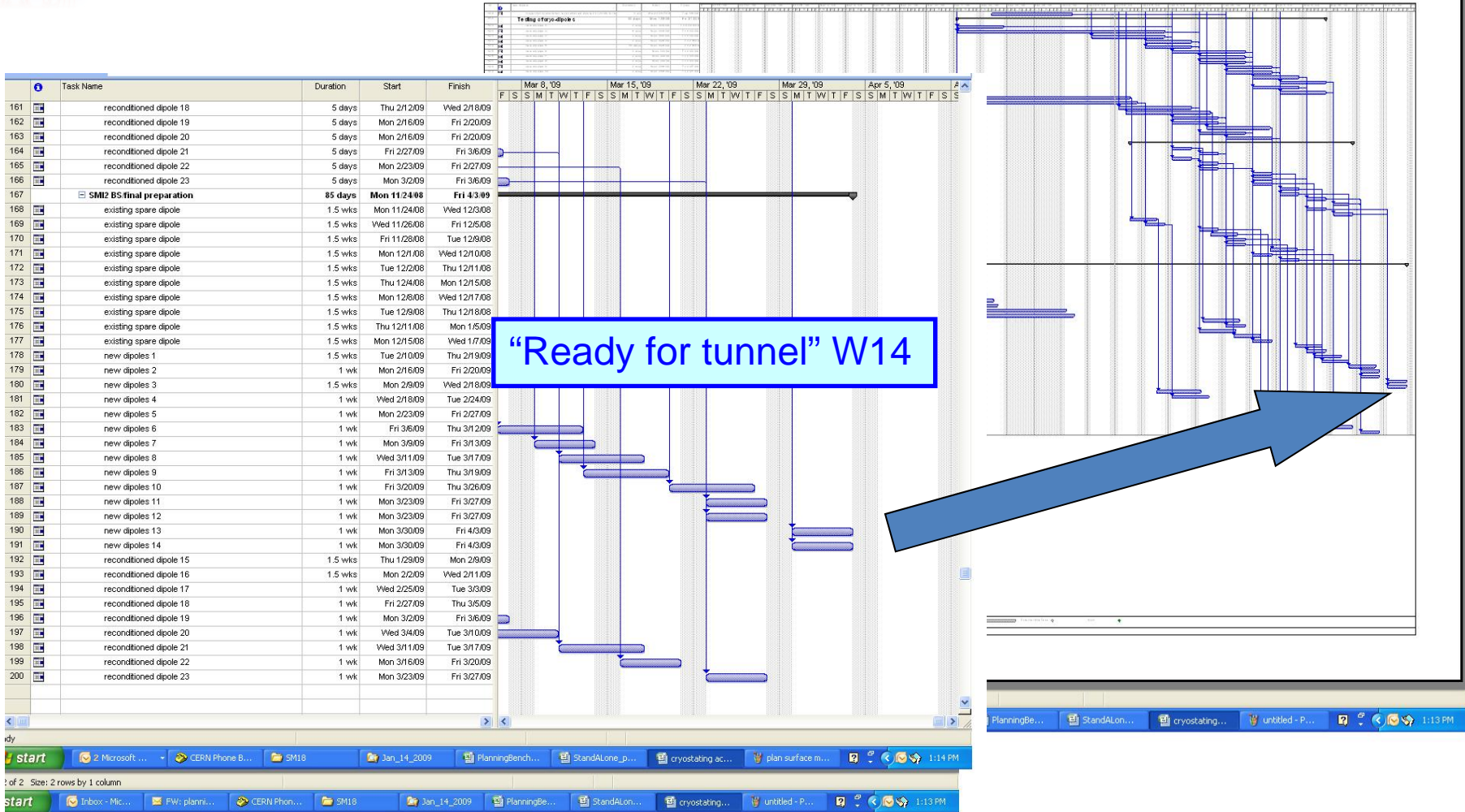
Tunnel activities

Stand Alone Magnets



Courtesy J. Mazet, P. Borowiec (ICIT), H. Prin

Surface Magnet Planning: Dec. 08



Surface Magnet Planning: individual Jan. 2009

Microsoft Excel - PLANNING_3-4 bourcey

File Edit View Insert Format Tools Data Window Help

Type a question for help

AE66 fx 3

PLANNING CRYOMAGNETS ASSEMBLY AT SURFACE

UPDATED 16/01/2009

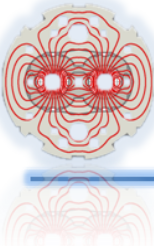
| SLOT | POSITION | NEW MAGNET ID | OLD MAGNET ID | END DECRYOSTATING | END CRYOSTATING | END PREPA FOR COLD TESTS | END COLD TESTS | END STRIPPING & POLARITY TEST | END FIDUCIALISATION | END BS INTEGRATION | END PREPA FOR TUNNEL | READY FOR INSTALLATION |
|------------|----------|---------------|---------------|--------------------|-----------------|--------------------------|----------------|-------------------------------|---------------------|--------------------|----------------------|------------------------|
| LBALB.20R3 | C20 | 2054 | 2054 | STAY IN THE TUNNEL | | | | | | | | |
| LQATS.20R3 | Q20R3 | 195 | 195 | N.A. | N.A. | W 4 2009 | W 7 2009 | W 8 2009 | W 8 2009 | W 9 2009 | W 10 2009 | W 10 2009 |
| LBBLA.21R3 | A21 | 2035 | 2035 | N.A. | N.A. | W 5 2009 | W 10 2009 | W 11 2009 | W 11 2009 | W 13 2009 | W 14 2009 | W 14 2009 |
| LBALA.21R3 | B21 | 1092 | 1092 | N.A. | N.A. | W 6 2009 | W 11 2009 | W 12 2009 | W 12 2009 | W 13 2009 | W 14 2009 | W 14 2009 |
| LBBLD.21R3 | C21 | 1099 | 1099 | N.A. | N.A. | W 6 2009 | W 10 2009 | W 11 2009 | W 11 2009 | W 12 2009 | W 13 2009 | W 13 2009 |
| LQATA.21R3 | Q21R3 | 225 | 225 | W | W 7 2009 | N.A. | W 10 2009 | W 11 2009 | W 11 2009 | W 12 2009 | W 13 2009 | W 13 2009 |
| LBALA.22R3 | A22 | 1085 | 1085 | N.A. | N.A. | W 2 2009 | W 5 2009 | W 6 2009 | W 6 2009 | W 7 2009 | W 8 2009 | W 8 2009 |
| LBBLA.22R3 | B22 | 3118 | 3118 | N.A. | N.A. | W 3 2009 | W 8 2009 | W 9 2009 | W 9 2009 | W 10 2009 | W 11 2009 | W 11 2009 |
| LBALB.22R3 | C22 | 1071 | 1071 | N.A. | N.A. | W 4 2009 | W 8 2009 | W 9 2009 | W 9 2009 | W 9 2009 | W 9 2009 | W 9 2009 |
| LQOBA.22R3 | Q22R3 | 203 | 203 | W done | W 4 2009 | N.A. | W 6 2009 | W 7 2009 | W 7 2009 | W 7 2009 | W 7 2009 | W 7 2009 |
| LBBLA.23R3 | A23 | 2430 | 1236 | N.A. | W 20 2008 | N.A. | W 31 2008 | W 34 2008 | W 40 2008 | W 43 2008 | W 5 2009 | W 3 2009 |
| LBALA.23R3 | B23 | 2790 | 2193 | N.A. | W 20 2008 | N.A. | W 40 2008 | W 43 2008 | W 44 2008 | W 46 2008 | W 4 2009 | W 2008 |
| LBBLD.23R3 | C23 | 2399 | 1109 | N.A. | W 47 2008 | N.A. | W 5 2009 | W 4 2009 | W 4 2009 | W 5 2009 | W 6 2009 | W 6 2009 |
| LQASR.23R3 | Q23R3 | 243 | 233 | N.A. | W 47 2008 | N.A. | W 4 2009 | W 5 2009 | W 5 2009 | W 6 2009 | W 7 2009 | W 7 2009 |

Feuil1 / Feuil2 / Feuil3 /

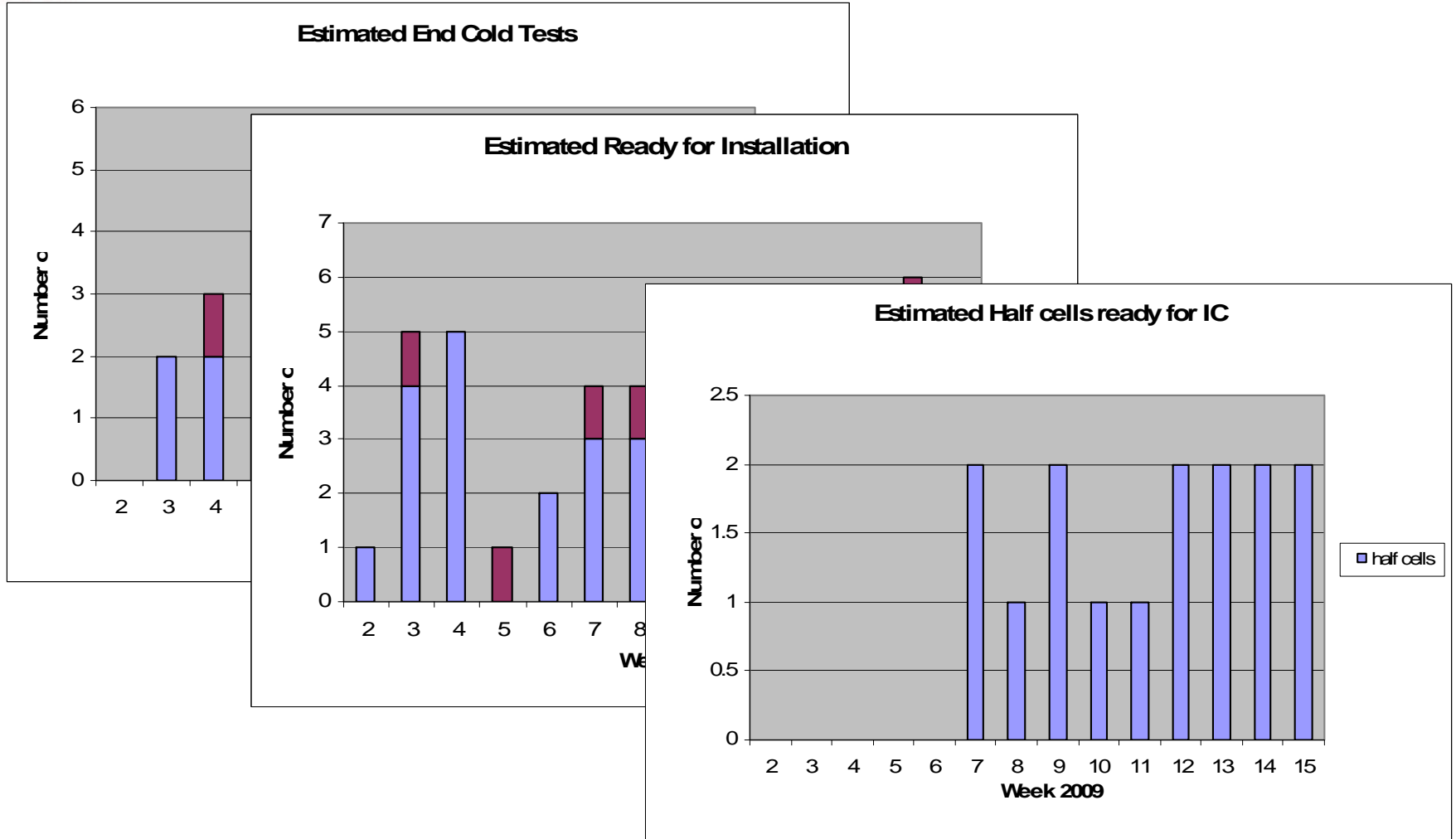
Ready

start 8:28:12 Wanadoo British Airways - Pass... TravelDrive (E:) Microsoft PowerPoint ... Microsoft Excel - PLA... 00:07

“Ready for tunnel” W15



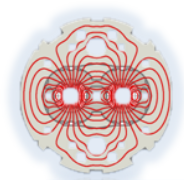
Surface Magnet Planning: individual Jan. 2009





Surface Magnet Planning: important issues

- Balanced resources through activities: ~ 3MB + 1 SSS per week
 - in the short available time, and for the relatively short durations no obvious further increase in capacity
 - no (very little) contingency
- Commitment there (good!), but ...
 - **Cold testing risks:**
 - number of quenches
 - magnets failing test (e.g. MB2420 with 27 nΩ)
 - retesting / thermal cycles (e.g. MB....)
 - **SSS risk:**
 - SSS failing = 6-8 weeks for a replacement
 - **Non-conformities:** e.g. spiders, diodes in W03
- Do not “chase” the 1 magnet on the planning = “handle with care”
- Now redo IC planning (survey etc.)
 - cohabitation with transport: may imply night shifts from ~ W08, (to be discussed)



Quality Quality Quality

- Many new intervenants collaborating (but of course many left ...), organisational changes etc.
 - Please accept and help towards this
- **Quality-Quality-Quality:**
 - no paranoia, but need to at least do “as good as before” and better where we know what to improve: let’s not be complacent (“it has always been done like this ...”)

From TE-MSG Group Meeting, 15 January

- Quality issues in W03: spiders, diodes
 - no showstoppers, but expect more and some delays