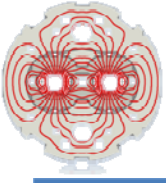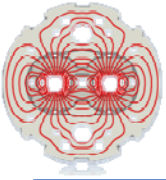# Status Report of Magnet Work
Week 26 / 2009

Francesco Bertinelli – TE/MSC

On behalf of - and with several contributions from - surface and IC teams
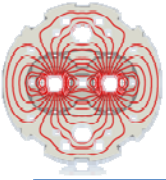
Tunnel News

- **Sector 3-4: last W closed Tuesday 23 June**
  - Vacuum leak from left support MB2104 in 28L4 being investigated
  - Vacuum leak in one W connection being repaired
  - DN200 repainting to be done
- Sector 5-6: last W closed Friday 26 June
  - Vacuum leak in QBQI.19R5 being repaired
  - Vacuum leak from IFS box in B32L6 (MB2229) being investigted
- Sector 1-2: cool-down started
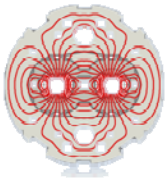 - Quench heater (x3) problem, see ELQA

Tunnel News: Sector 6-7

- Is now the first priority, objective all closed for end W28

- Large workload: overall 67 M to be rewelded and W to be closed, 46 busbar splices to be resoldered, 25 (x5) spools for US welding

- Monday evening 29 June: transport ventilation units from 6 to 7, move all large machines

- Actions to protect fragile thermometer connections and pre-inspect/protect fragile PIMs and nested bellows

- Important: ELQA support needed this week (with short reaction times) to validate US spools

Tunnel News: Sector 4-5

- Connection Cryostat intervention started Monday 23 June: accident with M lines still under 3.5 bar (rel.), no injuries

- Endoscopy: supports of M3 Upstream in CC 11L5 in same position as 2008 intervention, no further movement

- Segment resistance measurements, MB and MQ

- RF Ball Test (Point 5 to Point 4, ~2.5ms^{-1}) passed Wednesday 24 June, both V1 and V2. If confirmed in other sectors will remove a constraint in future

- There will be no PIM intervention (no preventive replacement in QQBI.7R4, QQEI.11L5, QBQI.8L5)

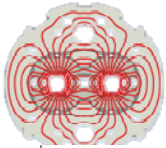- DN200 work started (S108 and EN-MME teams), all BLM removed/displaced, paint removal. Started DFBA L5.

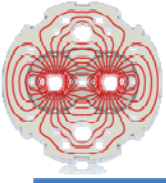# RF Ball test

Courtesy B. Jenninger

DN200

SECTEUR 4-5

INTERCONNECTIONS	équipes	Ponçage Peinture : date	perçage DN 200 date
QDQI 7 R4			
QQBI 7 R4	INEO	ok le 22/06/ 2 P	2 piquges
QBBI 8 R4	INEO	ok le 22/06/ 1 P	1 piquges
QBQI 8 R4			
QQBI 8 R4	INEO	ok le 22/06/ 2 P	2 piquges
QBBI 9 R4	INEO	ok le 22/06/ 1 P	1 piquges
QBQI 9 R4			
QQBI 9 R4	INEO	ok le 22/06/ 2 P	2 piquges
QBBI 10 R4	INEO	ok le 22/06/ 1 P	1 piquges
QBQI 10 R4			
QQBI 10 R4	INEO	ok le 23/06/ 1 P	1 piquage
QBBI 11 R4	INEO	ok le 23/06/ 1 P	1 piquage
QBEI 11 R4	INEO	ok le 23/06/ 1 P	1 piquage
QEQI 11 R4			
QQBI 11 R4	INEO	ok le 23/06/ 1 P	1 piquage
QBBI A 12 R4	INEO	ok le 23/06/ 1 P	1 piquage
QBBI B 12 R4	INEO	ok le 23/06/ 1 P	1 piquage
QBQI 12 R4			
QQBI 12 R4	INEO		1 piquage
QBBI A 13 R4	INEO		1 piquage
QBBI B 13 R4	INEO		1 piquage
QBQI 13 R4			
QQBI 13 R4	INEO		1 piquage
QBBI A 14 R4	INEO		1 piquage
QBBI B 14 R4	INEO		1 piquage
QBQI 14 R4			
QQBI 14 R4	INEO		1 piquage
QBBI A 15 R4	INEO		1 piquage
QBBI B 15 R4	INEO		1 piquage
QBQI 15 R4			
QQBI 15 R4	INEO		1 piquage

soudure manchette DN 200

INTERCONNECTIONS	équipes	soudure manchette	
QBQI 24 L5			NON
QQBI 23 L5	INEO	ok le 23/06/09/ 1 P	1 piquage
QBBI B 23 L5	INEO	ok le 23/06/09/ 1 P	1 piquage
QBBI A 23 L5	INEO	ok le 23/06/09/ 1 P	1 piquage
QBQI 23 L5			NON
QQBI 22 L5	INEO	ok le 22/06/09/ 1 P	1 piquage
QBBI B 22L5	INEO	ok le 22/06/09/ 1 P	1 piquage
QBBI A 22L5	INEO	ok le 22/06/09/ 1 P	1 piquage
QBQI 22L5			NON

SECTEUR 4-5

INTERCONNECTIONS	équipes	Ponçage peinture :date	percage DN 200 date	soudure manchette manchette DN 200date	Commentaires
QQBI 21L5	INEO	ok le 22/06/09/ 1 P	1 piquage		
QBBI B 21 L5	INEO	ok le 22/06/09/ 1 P	1 piquage		
QBBI A 21 L5	INEO	ok le 22/06/09/ 1 P	1 piquage		
QBQI 21 L5			NON		
QQBI 20 L5	INEO	ok le 22/06/09/ 1 P	1 piquage		
QBBI B 20 L5	INEO	ok le 22/06/09/ 1 P	1 piquage		
QBBI A 20 L5	INEO	ok le 22/06/09/ 1 P	1 piquage		
QBQI 20 L5			NON		
QQBI 19 L5	INEO	ok le 22/06/09/ 1 P	1 piquage		à réaliser 4em priorité
QBBI B 19 L5	INEO	ok le 22/06/09/ 1 P	1 piquage		à réaliser 4em priorité
QBBI A 19 L5	INEO	ok le 22/06/09/ 1 P	1 piquage		à réaliser 4em priorité
QBQI 19 L 5			NON		
QQBI 18 L 5	INEO	ok le 22/06/09/ 1 P	1 piquage		à réaliser 4em priorité
QBBI B 18 L5	INEO	ok le 22/06/09/ 1 P	1 piquage		à réaliser 4em priorité
QBBI A 18 L 5	INEO	ok le 22/06/09/ 1 P	1 piquage		à réaliser 4em priorité
QBQI 18 L5			NON		
QQBI 17 L5	INEO	ok le 22/06/09/ 1 P	1 piquage		à réaliser 4em priorité
QBBI B 17 L5	INEO	ok le 22/06/09/ 1 P	1 piquage		à réaliser 4em priorité
QBBI A 17 L5	INEO	ok le 22/06/09/ 1 P	1 piquage		à réaliser 4em priorité
QBQI 17 L5			NON		

Sector 4-5 Plan W27

- Open W and cut M3 for 2 dipole outliers as of this morning Monday 29 June

  - QBBI.A16L5, QBQI.16L5, QQBI.15L5, QBBI.B18L5, QBBI.A18L5

- Splice Quality Control, R16 measurements, gammas

- Start splice repair Wednesday, ELQA Friday

- If we had an indication of potential beam effect on CC splices, we could have an aimed intervention …

- Repeat segment measurements at more uniform temp?

- Further interventions only if discussed/approved LMC Wednesday

- As we stand, plan to close 4-5 end W28