

MMM- 13 February, 2009

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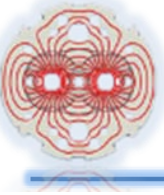


# Status Report of Magnet Work Week 07 / 2009

Jean-Philippe Tock - TE/MSC

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

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# Tunnel News Week 06/2009

## Secteur 3-4

Situation semaine 06/09 du 02.02.09 au 06.02.09

Réinstallation des aimants semaines 7/09 (09.02.09 au 13.02.09) et 8/09 (du 16.02.09 au 20.02.09)

<= Point 3

Function	A				B				C				Q WITH JUMPER				A				B				C				Q			
Docum (start)	LBBLA 3115				LBALA 1091				LBBLD 3099				SSS228				LBALA 3152				LBBLA 1130				LBALB 2054				SSS195			
	7479.2 C19R3				7494.8																											
Docum (start)	LBBLA 2035				LBALA 1091				LBBLD 3099				SSS228				LBALA 3152				LBBLA 1130				LBALB 2054				SSS203			
	7586.1 A21				7601.70 B21				7617.4 C21				7639.5 C22R3				7655.2 A22				7670.8 B22				7686.5 C22				7686.5 Q22			
Docum (start)	LBALA 2430				LBALA 2790				LBBLD 2399				SSS243				LBALA 2436				LBBLA 2434				LBALB 2439				SSS277			
	7593.0 A23				7708.6 B23				7724.3 C23				7748.4 C24R3				7772.1 A24				7777.7 B24				7793.4 C24				7793.4 Q24			
Function	A				B				C				Q WITH JUMPER				A				B				C				Q			
Docum (start)	LBBLA 3383				LBALA 2739				LBBLD 2422				SSS218				LBALA 2446				LBBLA 2433				LBALB 2598				SSS208			
	7799.9 A25				7815.5 B25				7831.2 C25				7853.3 A26				7869.0 B26				7884.6 C26				7900.3 Q26							
Docum (start)	LBBLA 2427				LBALA 2690				LBBLD 1219				SSS055				LBALA 2868				LBBLA 2421				LBALB 2551				SSS369			
	7906.8 A27				7922.4 B27				7938.1 C27				7953.7 Q27				7960.2 C28R3				7975.9 B28				7991.5 C28				8007.2 Q28			
Docum (start)	LBBLA 2419				LBALA 2342				LBBLD 2418				SSS221				LBALA 2435				LBBLA 2428				LBBLA 2444				SSS006			
	8013.7 A29				8029.3 B29				8045.0 C29				8060.6 Q29				8067.1 A30				8082.6 B30				8098.4 C30				8114.1 Q30			
Docum (start)	LBBLA 2440				LBALA 3413				LBBLD 2429				SSS192				LBALA 2624				LBBLA 2252				LBBLA 2443				SSS279			
	8120.6 A31				8136.2 B31				8151.9 C31				8167.5 Q31				8174.0 A32				8189.7 B32				8205.3 C32				8221 Q32			
Docum (start)	LBBLA 2103				LBALA 2192				LBBLD 2108				SSS227				LBALA 2177				LBBLA 1100				LBALB 1248				LQOBK 0202			
	8227.5 A33				8243.1 B33				8258.8 C33				8274.4 Q33				8280.9 C34R3				8296.6				8312.2				8327.9			

Leak test of repaired jumper today or tomorrow



S7

S8

S7

S9

Point 4 =>

Slot libres
Prévision réinstallation
éléments réinstallés
dd/mm/yy Date de transport

↓ Cantons électriques

○ Fin remontage jumper

Courtesy H Gaillard



# Tunnel News Week 07/2009

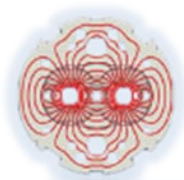
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## ■ 3-4:

- 6 cryomagnets are prealigned ; releasing 4 ICs
- Pre Inspection of 4 ICs done ; some NCs detected ; to be corrected in the tunnel
- Welding of PIMs, E line and soldering of main BB W 8
- Not yet authorisation to install PIMs outside D-area !
- V flanges replacement in on-going
- Undulator in L4 to be replaced? To be discussed in TE

## ■ 1-2 shutdown:

- PIM reinstallation started: 12/16 done ; Visual inspection OK ; to be tested (VSC)
- Dipole B16R1 is lowered today 13/02 ; then alignment ; First one equipped with Pressure Relief Device DN200  
Reinterconnection start foreseen for W8 (delay only 1 week margin wrt overall schedule)

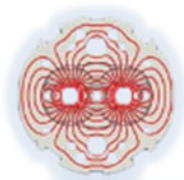


# Surface Week 07/2009

Only one cryomagnet lowered this week



All dipoles for 3-4, 1-2 & 6-7 are cryostated ; the remaining 6 spare CMs will be cryostated now.



# Tunnel News Week 07/2009

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## ■ 5-6 shutdown:

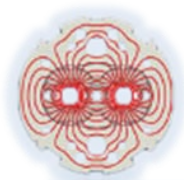
- PIMs under reinstallation ; welding beginning of next week
- Insulation reinforced on 2/3 CC ; closure is starting
- **Access for the 17<sup>th</sup> needs to be validated: environment constraints ; first infos shows that intervention is useful**
- **Not yet critical wrt overall schedule**
- arc SSS He guards: rewelding is starting-

■ 4-5 : Intervention on 2 SAM almost completed ; level gauges to reinstall

■ 2-3 : Priorities for interventions on SAM defined according to CRG and RP infos : To be coordinated with other activities

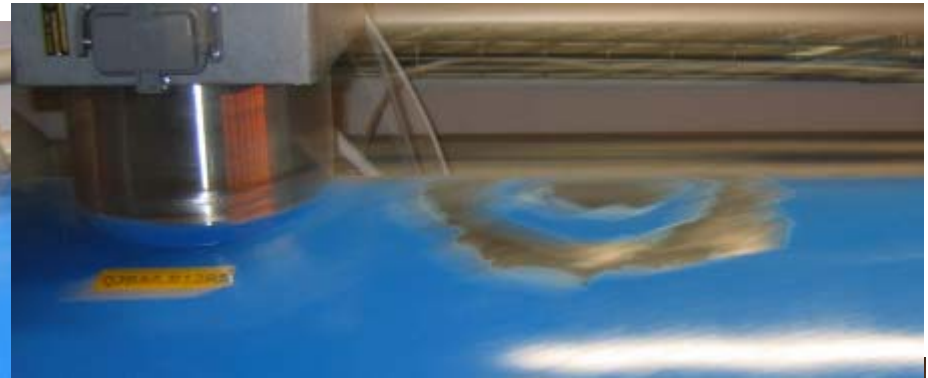
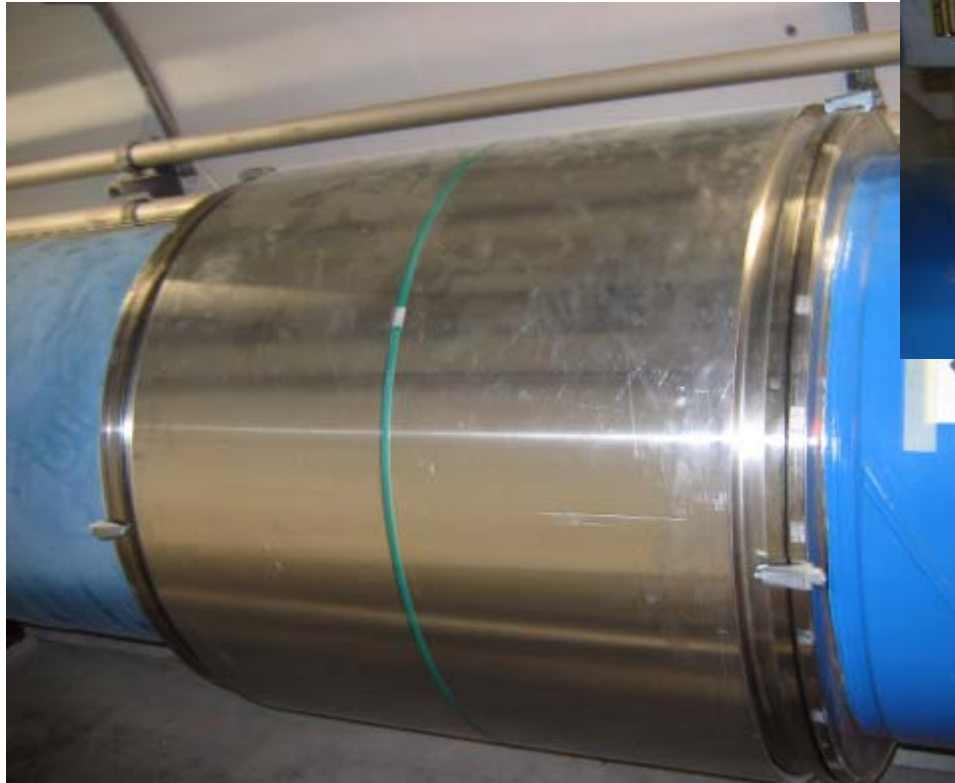
■ 6-7 : Should start intervention on W10 (TBC by CRG) shutdown:



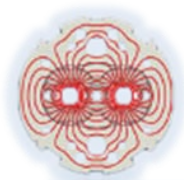


# Pressure relief DN200 News i/ii

- Preparation for opening (1-2 & 5-6):

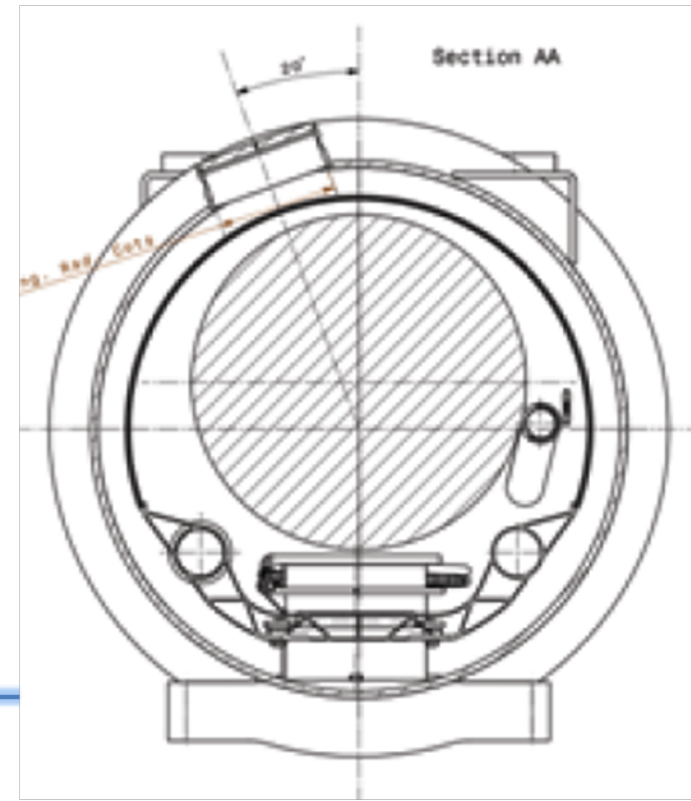


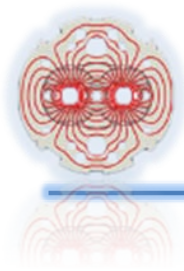
Courtesy J C Perez, M. Karppinen



# Pressure relief DN200 News ii/ii

- Extra devices required (centre sector/DS zones)
- Extra work to cope with new QDS cable support
- Reliability of the cutting machines to be improved ; 3 experienced mechanics allocated to this from next Monday
- Delay in schedule ; to be reassessed when cutting and welding activities are started in the tunnel
- Solution for P6 (Dump)

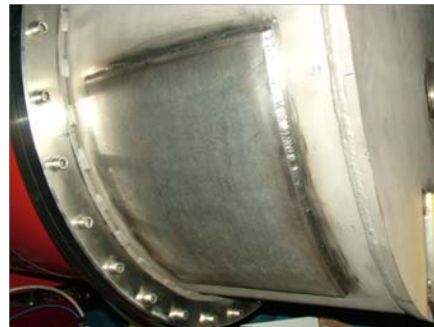
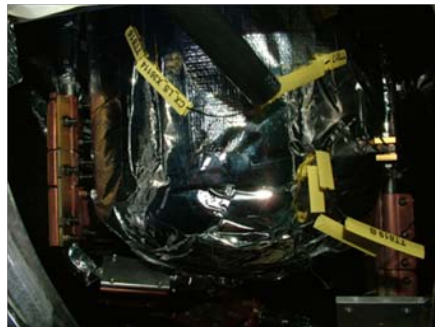
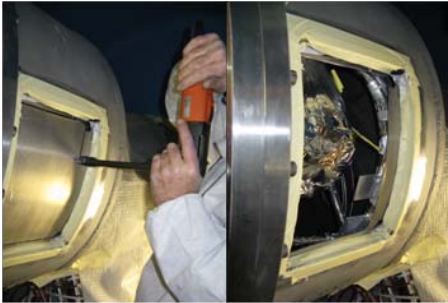




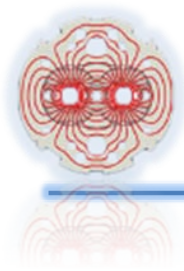
# Triplet News i/ii

## Status of Q1R1:

- equipped with thermal strips
- Equipped with new thermal sensors
- Vacuum vessel closed
- Cryogenic instrumentation tested
- Leak test shows a  $3E-6$  mbar.l/s leak on the multipin electrical connector which is mounted on the ISO-K-63 flange → **NC 986238**



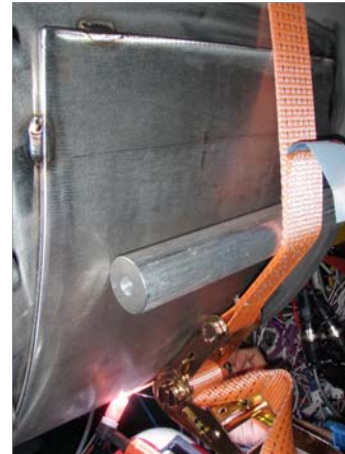




# Triplet News ii/ii

## Status of Q1L5:

- equipped with thermal strips
- Equipped with new thermal sensors
- Vacuum vessel closed
- Cryogenic instrumentation presently tested
- Leak test to be done





# SAM Helium level gauge i/i

MISE A JOUR le 12/02/2009 19h00												
		Découpe soufflet	Découpe ligne LD	Ouverture fond bombé	Remplacement capillaire	Test Reniflage	Soudure ligne LD	Test radio/vidé ligne LD	Soudure soufflet	Soudure Bride 160	Détection globale circuit interieur	Test global de l'enveloppe
S 8-1 (A)	Q6L1											
	Q5L1											
S 1-2	Q4R1						Week 05~07					
	Q5R1				Week 05~07	Week 05~07	Week 05~07					
	Q6R1							vide				
	Q6L2						Week 05~07					
	Q5L2						Week 05~07					
S 2-3	Q4R2	02/03	02/03	02/03								
	Q5R2*	04/03	04/03	04/03								
	Q6R2*	03/03	03/03	03/03								
	Q6L3*											
S 3-4	Q6R3	2/10 Nab	2/11 Nab									
	Q6L4							R+v				
	Q5L4	2/9 Nab	2/11 D Etienne									
S 4-5	Q6R4							vide				
	Q6L5*											
	Q5L5*											
	Q4L5							vide			12/02	12/02
S 5-6	Q5R5				Week 07	Week 08	Week 08	Week 08	Week 08	Week 08	Week 08	Week 08
	Q6R5				Week 07	Week 08	Week 08	Week 08	Week 08	Week 08	Week 08	Week 08
S 6-7	Q6L7	05/03	05/03	05/03								
S 7-8	Q6R7											
	Q6L8											
	Q5L8											
S 8-1 (B)	Q4R8											
	Q5R8											
	Q6R8*											

- Progress :
  - 3/27 completed: 11%
  - By tasks: 24 %
- 3-4 :
  - 1 completed
  - 3/3 opened
- 4-5 :
  - 2/4 completed
  - Next 2 for 2<sup>nd</sup> time window
- 1-2/5-6:
  - On-going
  - Not critical

■ All available SAMs are started

■ 2-3 to start W10:

- Sequence :
- 1. Q4R2 & Q6R2 ;
- 2. Q6L3 (RP and CRG)
- 3. Q5R2 : Difficult to make ; to decide following actual progress