

## *RAT in Point 8* Réunion Avancement Travaux

HARDWARE COMMISSIONING COORDINATION - WEEK 7

12<sup>th</sup> February 08:30 2889-R-009

Present: AB/CO: M.Koratzinos, R.Lauckner  
AB/PO: H.Thiesen  
AT/ACR: R.Rabehl  
AT/MCS: F.Savary  
TS/HDO: M.Coccoli, J.Etheridge, B.Perea, R.Saban, M.Solfaroli,  
A.Vergara

### **Sector 78**

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- Access to sector 7-8 is set back to CRYO-COOL from today. The cryo-access card is needed for accessing the sector from Point 8. UA83 will remain open. No card is needed for accessing the tunnel from Point 7 but the access to the sector 7-8 will be blocked by a fence and a panel at the level of Q6. Any personnel passing the panel must have a cryo-card.
- The US collaboration is completing the works on the DFBXG.
- The cryo-leak in the IFS in C13L8 (dipole 3002) is being repaired. Another leak has been found in SSS349 and being repaired. The cooldown is continuing in the magnets not concerned by the leaks.
- The water leak from the tunnel wall in C33L8 is being of the sector 78 access.
- The planning including the powering procedure tests is attached below.

### **Sector 81**

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#### **Warm Magnets (M.Coccoli)**

- The tests of last Thursday and Friday have raised a number of issues (wrong polarity on MCI/V88115/6/7, MQIF87800 and MQID87900; current levels to be checked; current/voltage regulation problems in the compensators; influence of TL on the compensators; one MBIA could not go through the overnight run).
- Today and tomorrow will be used to fix the problems and prepare for another overnight run this Wednesday 14<sup>th</sup> and Thursday 15<sup>th</sup> morning. The safety/access conditions have to be discussed tomorrow (J.Etheridge suggests to close again the access to the RA87 even if during this run the active parts of the magnets will be protected; this must be verified with TS/IC tomorrow).

## Open Issues

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### AC non-conformity

- 29.01.07 Installation of UPS PIC boxes (E.Barbero)
- 13.11.06 Non-conformity of the crates of cryo instrumentation (inrush current) (A.Suraci: ready next year)
- 13.11.06 Non-conformity of the AC cabling of the crates under the magnets. This concerns ACR, MEL & VAC.

### DC cabling

- 19.01.07 Warm Magnet cable positioning to be changed to avoid "antenna" effects (M.Condemine, J.C.Guillaume)
- 22.11.06 Pre-connection of 120A cables in LSSR7 (TS/EL) - PC Non conformities (H.Thiesen)

### Instrumentation Cabling

- 12.01.07 Cryo-instrumentation cables: 2 LSS8L connectors (A.Suraci-J-C.Guillaume)
- 10.01.07 Continuity error with cable 1813004A and a wrong housing of 1702440 which should be replaced (D.Bozzini)

### Cryogenics

- 12.02.07 Cryo-leaks in dipole 3002 and SSS349 (F.Millet)
- 16.01.07 Vac-Cryo Interlock tests - window of 1 day needed (P.Cruikshank-F.Millet)

### Safety

General remark: written communication in advance to announce operations!!!

- 23.11.06 Water leak on the tunnel concrete wall to be fixed (C33L8).

### Preparation of powering test

- 30.11.06 EI\_QA performed on C16L8. ICC test showed reversed sequence of V-taps on circuit RCBV16.L8B1 (D.Bozzini)

### AOB

- 08.01.07 Re-installation of 3 BLMs interfering with pumping groups (B.Dehning)
- 13.11.06 BPM connection in Q2 (R.Jones) - waiting for Inner Triplet to be repaired

## Closed Issues

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Mobile camera installed, tested, fully operational (K.Kershaw)	16.01.07
DFBXG Temperature sensors repaired (R.Rabehl)	16.01.07
Warm magnet transport stuck in the arc 78.	15.01.07
Connection of the NC Magnets in LSS8R (J-C.Guillaume)	15.01.07
DFBX Pumping of Current Leads insulation vacuum (S.Feher,	15.01.07

P.Chambouvet)	
QPS - 2 cables need repair (R.Denz-D.Tommasini)	12.01.07
DFBXG non-conformity on the current lead heater cables 1821322 and 1821323 (P.Chambouvet-J-C.Guillaume)	12.01.07
Cryo-instrumentation cables: 2 LSS8L + 1 LSS7R to be pulled (A.Suraci-J-C.Guillaume)	15.01.07
Bad positioning of the 13 kA power cable <i>cosses</i> corrected (J-C.Guillaume-P.Denis)	11.01.07
Cryo-instrumentation cables at DFBX inversion sorted out (A.Suraci)	10.01.07

### **Milestones: Test Schedule**

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Week 45	Interconnections
End week 46 [18.11.06]	Leak Test
End week 47 [24.11.06]	Pressure Test
Week 47-48	EE sensor tests in RR77
Week 48 & 49	Purge and filling
Week 49	Dry Run
Week 49	Short Circuit tests of 60 A
Week 49 [07.12.06]	Diesel Tests
Week 49	ELQA-TP4B (Phase I)
Week 50	Flushing
Week 50 [15.12.06]	ELQA-TP4B (Phase II)
Week 02 [15.01.07]	ELQA-TP4B (Phase III)
Week 03	Cool Down Sector 78
Week 05	Powering Procedure Tests (Phase I)
Week 07	Powering Procedure Tests (phase II)
Week 08	Decision on DFBs clamps disconnection from Sector 78 (to use them in Sect45 and Sect81)



### **Next RAT meeting**

**Tuesday, February 13<sup>th</sup> 8:30 @ P8 2889-R-009**

Mirco Coccoli

