

Present: AB/CO: M.Koratzinos, R.Lauckner  
AB/PO: H.Thiesen  
AT/ACR: F.Millet, R.Rabehl, A.Suraci  
AT/MEL: V.Chareyre, R.Floria  
TS/EL: F.Cichecki  
TS/HDO: M.Coccoli, J.Etheridge, B.Perea, M.Solfaroli, A.Vergara

## Sector 78

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- The arc magnets are at an average temperature of 75K.
- The magnet D2 (LSS8L) is protected with panels and fencing since yesterday. This is because under vacuum-induced forces, a one support foot was severely damaged. The danger is that the magnet falls from its supports, thus breaking the vacuum and cryogenic lines (with a possible large helium leak).
- Due to the problems experienced during the first half of this week, the cooldown is suffering a small delay: the 20K in the magnets will be reached early next week.

## Sector 81

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### Warm Magnets (M.Coccoli)

- The second overnight run started yesterday with the LHCb compensators. The tests show that a good part of the issues raised with the first overnight run were solved.
- The other LSS8R warm magnets will be powered today after the balisage will be properly put in place. The concrete wall door PO744 (UJ86) will be closed this morning and the RA87 will be accessible from the 2 chicanes; it will be possible to go from the UJ88 toward point 1 and from the left of the MSIs toward left; the access will be blocked between the MSIs and the UJ88 chicane (see picture below).
- Tomorrow morning an ad-hoc test will be performed in order to check the interference between the TL magnets and the compensators.
- The magnet powering will end by tomorrow at 1pm and all the balisage in the tunnel will be removed (at least the flashing lights will be switched off and the full access to the RA87 will be granted again).

## 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.Dehting)
- 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**

**Thursday, February 15<sup>th</sup> 8:30 @ P8 2889-R-009**

Mirco Coccoli