

## *RAT in Point 8* Réunion Avancement Travaux

HARDWARE COMMISSIONING COORDINATION - WEEK 6

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

Present: AB/BT: J.Uythoven  
AB/CO: M.Kovatzinos, R.Lauckner, R.Schmidt  
AB/PO: R.Genand, H.Thiesen  
AT/ACR: F.Millet, R.Rabehl, A.Suraci  
AT/MCS: D.Bozzini, G.De Rijk  
AT/MEL: P.Chambouvet, S.Russenschuck  
TS/EL: S.Brown  
TS/HDO: M.Coccoli, J.Etheridge, B.Perea, R.Saban, M.Solfaroli,  
A.Vergara  
TS/IC: E.Barbero

### **Sector 78 (M.Coccoli, A.Vergara)**

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- Access in Sector 78 is not restricted anymore. The access might be restricted again next Monday 12<sup>th</sup>; the access for next week will be discussed at next RAT meeting on Friday 9<sup>th</sup>.
- The EIQA at 80K was successfully completed. No further information regarding the short to ground measured at the beginning of cooldown.
- The mobile camera will be moved today out of sector 78 to allow charging the battery.
- There is a problem with a cryogenic PLC and F.Millet suggested keeping the temperature of 80K this week while fixing this problem.
- Next week the temperature will be lowered to 20K and then the EIQA will be performed.
- The DFBs are ready to be cooled. P.Chambouvet is ready with the equipment to perform his test once the DFBs will reach 80K.

### **Sector 81 (M.Coccoli, A.Vergara)**

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

- To allow the warm magnets power converters tests this afternoon, the current leads insulation vacuum pumping DFBX in LSS8R will be performed this morning.
- The flashing lights will be turned on by M.Coccoli right after this RAT meeting and then he will give the green light to R.Genand and J.Uythoven for the warm magnets/power converters remote

operation. A.Vergara stressed the importance to check the balisage in LSS8L that was not organized yet due to the access restriction in sector 78 during the last weeks.

- During the overnight run starting tomorrow Thu 8<sup>th</sup> at 1pm and running to Fri 9<sup>th</sup> at 4pm the access to the RA87 will be restricted. To ensure this restriction the concrete wall number PO744 (UJ86) will close the direct access to the RA87, and between the UJ88 and the RA87 there will be an HC panel with proper fencing not allowing the passage. (see attached figure)

## 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

- 16.01.07 Vac-Cryo Interlock tests - window of 1 day needed (P.Cruikshank-F.Millet)
- 22.11.06 Instrumentation and remote control not fully stable (P.Gayet - 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, P.Chambouvet)	15.01.07
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	Preparation for Powering Tests
Week 08	Decision on DFBs clamps disconnection from Sector 78 (to use them in Sect45 and Sect81)



Next RAT meeting

Friday, February 9<sup>th</sup> 8:30 @ P8 2889-R-009

Mirco Coccoli

