

## *RAT in Point 8* Réunion Avancement Travaux

HARDWARE COMMISSIONING COORDINATION - WEEK 20

16 May 2007 08:30 in 2889-R-009

Present: AB/CO: M. Zerlauth, R. Schmidt  
AB/PO: D. Nisbet, H. Thiesen, Y. Thurel, F. Bordry  
AB/OP: L. Normann, V. Kain  
AT/MEL: S. Feher, G. Kirby, B. Flora, K-H. Mess, A. Ballarino, S. Le Naur, D. Bozzini, R. Denz, V. Chareyre, P. Chambouvet  
AT/MTM: A. Siemko, G. D'Angelo  
AT/ACR: S. Claudet, R. Rabehl  
TS/HDO: R. Saban, M. Pojer, M. Koratzinos, B. Bellesia, A. Vergara

### **Powering Tests - Sector 78**

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- Yesterday (15/05) the PCC (Power Converter Configuration) test was completed for the RD2.L8 circuit. The signal displayed by the QPS monitoring was not the aperture voltage difference but the sum. That was causing the trip of the quench detector. Once the bug was solved, the tests ran smoothly.
- There are still problems with the other two main circuits of the powering subsector (RQ4.L8 and RQ5.L8). Reiner explains that the wrong signal seen by the quench detector may be caused by a wrong understanding of the exact position of the mid voltage tap. He will sort the problem out together with Davide just after the meeting.
- Today, once the remaining problems with the QPS signals for the two circuits above is solved, PCC will be carried out for them and, if there is enough time, the Powering to Nominal test (P2N) will be launched for one of them. In parallel, PIC2 will be carried out for the eight 80-120A circuits of Q4 and Q5.
- Serge informs that the issue with the cold compressor is now perfectly known. The protection parameters defined for this device were too conservative and these would never allow proper performance during operation. The values are being corrected and, if everything goes fine, the pumping to 1.9K in the arc could start today. Cryogenic conditions for at least powering the closed orbit correctors in the arc (60A) should be met on Friday.
- A calibration of the level measurements will be carried out on Friday in the DFBMA. Powering tests on Friday will then focus in the DFBMC and 60A circuits.
- Amalia confirms that the current leads involved in the tests are performing well.

- EIQA tests will continue today for the 13kA circuits in the DFBAO and DFBAN (transfer function and high voltage measurements).
- Next meeting Friday, 18<sup>th</sup> of May at 8:30 in 2889-R-009

Antonio Vergara

## Open Hardware Commissioning Issues in SECTOR 78

REGION	ISSUE
SECTOR 78	
	QPS voltage tap problem in quadrupole 33R7 - Another tap will be used instead. Attention because the damaged tap might be floating on the conductor.
	Non-conformity of the crates of cryo instrumentation (inrush current) (A.Suraci)
	Securing of the ventilation units
	Four circuits in Q5 suffer a breakdown at around 450V due to a weak insulation. The four circuits are RCBCVS5.L8B1, RCBCHS5.L8B2, RCBCHS5.L8B1 and RCBCVS5.L8B2. Insulation towards ground and other circuits is OK.
	EI_QA performed on C16L8. ICC test showed reversed sequence of V-taps on circuit RCBV16.L8B1 (D.Bozzini) check
	BPM connection in Q2 (R.Jones) ? waiting for Inner Triplet to be repaired
	MB1055 magnet to be changed before powering above 2kA RB.A78
	Inner Triplet in Point 8 to be repaired
	Failure of supports (red jacks) of D2-Q4 in L8 - temporary repair in place. EDMS document "Major movements of the D2-Q4 magnets and supports in 8L" <a href="https://edms.cern.ch/document/833365/1">https://edms.cern.ch/document/833365/1</a>
	Water leak on the tunnel concrete wall to be fixed (C33L8).

Closed hardware commissioning issues in sector 78 can be found at <http://hcc.web.cern.ch/hcc/activities/activities.php?region=S78>.