

RAT in Point 8 Réunion Avancement Travaux

HARDWARE COMMISSIONING COORDINATION - WEEK 20

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

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

Powering Tests - Sector 78

- Yesterday (14/05) the PCC (Power Converter Configuration) test was completed for all the 80-120A correctors in Q4 (eight) and the two in Q5 that passed successfully the EIQA at cold. They are now ready for PIC2 test.
- The characterisation of RD2.L8 was completed using a 60A converter that was connected during the day specifically for this test. The quench heater power supplies of this magnet were disconnected. The rest of the PCC test for this circuit will continue this morning.
- The PCC test for the RQ4.L8 and RQ5.L8 could not take place due to the spurious quench signal generated by the quench detectors when the power converters started the regulation. Signals between 50-70 mV were seen by the quench detector. The threshold voltage for these circuits was recently lowered from 100 mV to 20 mV in order to ensure integrity of the busbar splices.
- Today, in parallel with the PCC test in RD2.L8, AB/PO and AT/MEL will focus on sorting out the problem in RQ4.L8 and RQ5.L8. A 60A converter will be connected to the circuit, as it was done yesterday for RD2.L8, and the quench detector will be disarmed in order to analyse the behaviour of the converter at low currents. Andrej confirms that as long as current is limited to 60A the splices will not be compromised.
- A boiling-off of the DFBA is planned for today in parallel with the electrical quality assurance works for the RB.A78 and RQD.A78 circuits.
- Some tests of the controls of cryogenics might make us lose the CRYO_START sometime today. In case a converter needs to be started in such situation, Luc recommends to ask the cryo-

operator before. The CRYO_MANTAIN signal should not be affected.

- Some condensation inside the plastic bags covering the current leads of the DFBMs was seen yesterday morning. However, it is not considerable enough to interrupt the tests. Luc recommends to keep an eye on them during today's tests.
- Boris confirms that, for the moment, no cryo-operator is needed in the FCR today.
- Next meeting Wednesday, 16th 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" https://edms.cern.ch/document/833365/1
	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>.