

RAT in Point 8 Réunion Avancement Travaux

HARDWARE COMMISSIONING COORDINATION - WEEK 21

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

Present: AB/CO: M. Zerlauth, R. Schmidt
AB/PO: H. Thiesen, D. Nisbet, V. Montabonnet, F. Bordry,
A. Cantone
AB/OP: E. Veyrunes, R. Giachino
AT/MEL: S. Feher, G. Kirby, K-H. Mess, A. Ballarino, S. Le
Naur, V. Chareyre
AT/MTM: A. Siemko, G. D'Angelo, S. Sanfilippo
AT/ACR: R. Rabehl
TS/HDO: R. Saban, M. Pojer, A. Vergara

Powering Tests - Sector 78

- Yesterday (21/05) morning RQ5.L8 was successfully tested up to PLI3.4 (maximum current of 2500A). During the ramp up of the PNO.5 step (first test at nominal current, 4310A), a quench occurred at 3941A. These tests were performed manually without using the sequencer.
- During the afternoon, the powering to nominal of RQ4.L8 started. It passed successfully the different tests at injection current (PLI1 at 250A). PLI2.1 test started without problems and the test current (600A) was reached without problems, however due to an attempt to speed up the test, the sequencer was blocked and it had to be repeated. During the second trial a quench occurred around 300A.
- Both quench events (RQ4.L8 and RQ5.L8) will be studied today and green light to continue the powering is expected for tomorrow morning from MPP. The quench in RQ5.L8 was very likely to happen looking at the quench history of the magnet. QPS confirms that it is not a spurious signal from the detector but an actual training quench. A more detailed study needs to be done for RQ4.L8.
- Rudiger proposes that for future tests, the quench history of the magnets under tests needs to be available in the control room.
- Glyn proposes to review the test procedure for this IPQ circuits since the number of current cycles can be considerably reduced. MPP will propose the changes to HCC as soon as possible after meeting the different teams involved.
- For safety reasons, AB/PO unable the access to the converter from any external user, this includes operators. David reminds that in order to get access to the FGC, authorisation has to be requested every day to the PO EIC.

- Francois informs that the issues found last Thursday has been understood and, in principle, solved. 2K should be reached again tomorrow.
- The Line D has been heated up (15K) to ensure proper pumping of the Line B.
- The 4.5K refrigerator has been properly regulated and should be totally available now.
- Yesterday condensation was seen when the chimneys at 70K were cooled down to 50K. Some other chimneys are now at 70K but no measurement can be done till the insulation bags are installed. Roger confirms that installation of the 6kA lead bags will start today and all the leads should be covered soon.
- Roberto informs that, unless the 1.9K commissioning scenario for the main circuits in the arc becomes feasible soon, the alternative consisting on connecting a 120A converter to the three main circuits (RQ, RQF, RQD) will be implemented.
- Next meeting Wednesday, 23rd 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>.