



- Boiloff tests with extra instrumentation to try and measure the resistance of the sc cable connected to the current leads as the level drops. – afternoon
- D. Nisdet reported a limit of the PM viewer: cannot combine systems, which is inconvenient. HCC will follow up with the viewer experts.
- Next meeting Monday 21 May at 8:30 in 2889-R-009
- Please look at the appendix for the EIQA activity report for Wednesday (V. Chareyre)

Mike Koratzinos

## 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>.

## Appendix

ELQA HCC activity report 2007-05-16

From: Vincent Chareyre

Sent: Wed 5/16/2007 7:17 PM

Dear colleagues,

ELQA at cold of main 13kA and spool-piece circuits has been partially performed in order to allow powering tests at low current without having 1.9 K in the magnets.

Continuity, instrumentation checks and high voltage qualification (based on voltage levels for system at WARM) have been performed. Transfer function measurements have had to be postponed due to powering tests on stand-alone magnets at the same time.

The HV qualification has been successfully performed on the following circuits:

MB.A78.A

MB.A78.B

MQD.A78

MQF.A78

MCD.A78B1

MCD.A78B2

MCS.A78B2

MCO.A78B1

MCO.A78B2

MCS.A78B1 is BLOCKED.

Indeed the hi-pot test of this circuit has revealed a short to ground. The test has been repeated on the cold circuit with the proximity equipment connected BUT WITHOUT the instrumentation cable C50 connected (going to the electronics monitoring the temperature sensors). The 2nd test passed thus the short is on the "cryo side".

A very similar problem occurred during ELQA at 80K on the circuit MSD2.A78B2 (see NC, EDMS 832564).

At this time Paulo informed me that two instrumentation cables (C50) were cross-connected on the electronics side. These cables route temperature signals of the two circuits MCS.A78B1 and MSD2.A78B2. As the problem disappeared on the circuit MSD2.A78B2 afterwards, the problem may have been only MOVED from one circuit to another when swapping cables but NOT fixed.

Regards,

Vincent and Mateusz