

Present: AB/CO: M. Koratzinos, R.Schmidt, I. Romera, A. Castaneda
AB/MEL: V. Chareyre
AB/PO: H. Thiesen, D. Nisbet
AB/OP: G-H Hemelsoet, R. Alemany
AT/MCS: F. Savary
TS/HDO: R. Saban, A. Vergara, B. Perea, M. Pojer, P. Casas

Sector 78

- R. Saban reported on Cryo progress: A problem appeared yesterday in the cryo plant. The temperature of the supply line C is currently higher than nominal. Recovery from the problem has started. DFBs are empty but Q4 and Q5 are filled with liquid He. This problem has resulted in a delay of one day.
- V. Charayere: reported on ELQA tests (see slides attached). Problems reported:
 1. One circuit (RCBCHS5.L8B1) in Q5 shows a high resistance (35mΩ compared to 0.8 mΩ for the other similar circuits). Will repeat the test under stable cryogenic conditions.
 2. Transfer function measurement (TFM) (frequency sweep 1Hz to 20kHz) couples to the temperature measuring hardware at 5kHz. In the cryo control room this looks as if the temperature suddenly drops for the duration of the test and the control PLC throws an interlock. MQ5 was not done due to this issue.
 3. High voltage qualification not done yet, as stable cryo conditions could not be guaranteed in the DFB.
- D. Nisbet: similar test to the TFM is done when testing the power converters, but at a lower frequency (10Hz). Would this also affect the temperature reading? This seems to be ruled out since the problem with the cryo instrumentation appears at 5 kHz.
- M. Pojer: 600A polarity test in UA83 could not be done due to QPS not allowing powerup (plugs removed). Problem will be fixed today and test will start at 10:00. RR77 polarity tests done successfully. Another problem: four converters in UA83 unable to switch on. Fuse suspected.
- A. Vergara reported on quench heater tests: On D2, two heaters were found to have much lower resistance than expected. This is

being investigated. (After the meeting: this is a non-issue, the resistance of the heaters measured is what is expected from these type of magnets).

- M. Pojer: some 600A cables were bolted to the power converters the wrong way (but on the correct lug). These cables have been inspected and passed by TS/EL. AB/PO agreed to put them right in this sector so as to avoid possible delays.
- A. Vergara: P7 door is now locked, so is the chicane door in P8.
- Next meeting Friday 23 March.

Open Issues

AC non-conformity

- 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. Missing still for 81.

DC cabling

- 19.01.07 Warm Magnet cable positioning to be changed to avoid "antenna" effects (M.Condemine, J.C.Guillaume)

Instrumentation Cabling

- 10.01.07 Continuity error with cable 1813004A and a wrong housing of 1702440 which should be replaced (D.Bozzini) check

Cryogenics

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) check

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

Vac-Cryo Interlock tests - window of 1 day needed (P.Cruikshank-F.Millet) check Friday	26.02.07
Cryo-instrumentation cables: 2 LSS8L connectors (A.Suraci-J-C.Guillaume) ok	12.01.07
Cryo-leaks in dipole 3002 and SSS349 (F.Millet) ok	12.02.07
Installation of UPS PIC boxes (E.Barbero)	29.01.07
Pre-connection of 120A cables in LSSR7 (TS/EL) - PC Non conformities (H.Thiesen)	22.11.06
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



Next RAT meeting

Friday, 23 March 8:30 in 2889-R-009

M. Koratzinos