

4 April 2007 08:30 in 2889-R-009

Present: AB/CO: R. Schmidt, M. Zerlauth, A. Castaneda,
M. Koratzinos, J. Fleuret
AB/OP: W. Venturini, L. Ponce
AB/PO: H. Thiesen, A. Cantone, V. Montabonnet
AT/MEL: D. Bozzini, V. Chareyre, B. Flora, P. Chambouvet
AT/ACR: R. Rabehl, P. Gomes
AT/MTM: A. Siemko
AT/MCS: S. de Rijk
TS/HDO: M.P. Casas, M. Pojer, B. Perea, A. Vergara
TS/MME: J-M. Dalin

Sector 78

- R. Schmidt and AT/ACR colleagues reported on progress with the understanding the various pending cryo related DFB issues. He noted that DFBs with current leads connected have never been tested before.
 - The platinum thermometers and associated calibration curves were found to be ok, although it should be noted that the accuracy of this type of thermometers is not very good at 20K, but sufficient for this application.
 - Regarding the DFBMA liquid level: "Lead" chimney measurement is more accurate than "service" chimney measurement. The former will be used as the main reference from now on (up to now, the service chimney measurement was the one used).
 - Condensation problems will be investigated and a solution will be proposed. This might include the use of active or passive heating of the top of the chimneys as well as increasing the operational temperature of the bottom of the current leads by a few degrees (from 20K to, say, 25..28K).
 - Today tests of the cryogenic conditions of the DFBs and the cool-down of the arc will continue. There will be no powering of magnet circuits.
- D. Bozzini reported on diagnostics of the 120A circuit with the weak insulation (first reported 22 March): The breakdown happens inside the DFB and not inside the magnet, in the vicinity of the 'pig tail', immediately after the current lead. A few more hours of tests needed. Results will be presented in MPP and in the next RAT meeting.

- J. Dalin: an X-ray investigation will be performed (to better understand the aforementioned problem). First access will be requested at 16:00 with the procedure taking place between 20:00 and 23:00 today.
- M. Zerlauth: Sequencer tests finished, specifications have been set. A. Vergara noted that there might be a need for some final adjustments, so the power converter in short circuit mode that was used up to now should be available for a bit longer.
- There was a discussion about safety issues. The current period is especially tricky as it is between the cooling down phase and the powering phase. R. Schmidt will follow this up and propose procedures to be followed.
- Next meeting tomorrow, 5 April.

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

Thursday, 5 April 8:30 in 2889-R-009

R. Schmidt
M. Koratzinos