

27 March 2007 08:30 in 2889-R-009

Present: AB/CO: M. Koratzinos, R.Schmidt, M. Zerlauth, A. Castaneda, R. Harrison  
AB/MEL: V. Chareyre, D. Bozzini, B. Flora, K. Dahlerup-Petersen, P. Chambouvet  
AB/OP: L. Ponce, G. Crockford  
AB/PO: V. Montabonnet, D. Nisbet, H. Thiesen  
AT/ACR: F. Millet, A. Suraci  
AT/MTM: A. Siemko  
TS/HDO: R. Saban, A. Vergara, B. Perea, M. Solfaroli, B. Bellesia

## Sector 78

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- Highest attendance in many weeks, 23 persons.
- F. Millet: reported on CRYO progress. More details were in an email sent to R. Saban last night. Here are the main points:
  1. The cold part of the 4.5 K refrigerator was modified to increase refrigerator flexibility/availability and decrease the temperature of supplied supercritical helium.
  2. The control logic of 1.8 K refrigeration unit was upgraded last week and tested with success Monday with pumping down to 150 mbar. Consolidation on instrumentation connectors is planned for Tuesday to allow final pumpdown to 15 mbar.
  3. About 14 Tons of helium are now present in sector 78 and helium inventory in surface is now compatible with cooldown to 1.9 K thanks to urgent liquid helium deliveries from Cryolab (AT-ECR) and the liquid He supplier.
  4. Since Wednesday 21 March, DFBMs and stand-alone magnets have been in regulation (liquid helium in bath and 70 K at bottom of current leads) to provide correct conditions for the ELQA tests.
  5. Future plans: Continue the tuning of cooling control for DFBs, magnets and beam screens in collaboration with interested groups and consolidate instrumentation (level gauges, temperatures or heaters) to reach stable conditions. Main objective is now to pump down to 15 mbar on Wednesday 28/03 in parallel with electrical tests on DFBMs.

- F. Millet: If temperature of current leads kept at the nominal 50K with no current flowing through, condensation will occur. For this, temperature is kept to about 70K.
- F. Millet also noted that pumpdown has influence on the liquid He level of the DFBs.
- B. Flora: D2 heaters were discharged successfully. Note that previously D2 was tested with a lower voltage heater. Now D2 is connected to dummy load.
- Q4 still not tested (PM problem reported in previous meetings) – will be done this morning.
- Connecting the cables (due this afternoon) postponed to tomorrow.
- F. Millet: DFBMC: Nominal level is around 42%; below 32% the 600A current leads are not immersed. During the last couple of days the level has fallen to low levels a couple of times. This might have affected the ELQA tests.
- V. Chareyre: gave some details on the DFBMC test that gave high resistance in one circuit (for instance he mentioned that power dissipation at 6A is 0.9W). Will present his findings tomorrow.
- Next meeting Wednesday 28 March.

## Open Issues

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### 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

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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

**Wednesday, 28 March 8:30 in 2889-R-009**

R. Schmidt  
M. Koratzinos