

RAT in Point 8 Réunion Avancement Travaux

HARDWARE COMMISSIONING COORDINATION - WEEK 12

19 March 2007 08:30 2889-R-009

Present: AB/CO: M. Koratzinos, R.Schmidt, M. Zerlauth
AB/MEL: V. Chareyre, D. Bozzini, B. Flora
AB/PO: H. Thiesen, D. Niesbet
AT/MCS: M. Modena
AT/ACR: F. Millet
TS/HDO: R. Saban, A. Vergara, B. Perea, M-P. Casas Lino, M. Pojer

Sector 78

- F. Millet: Cooling to 1.9K effectively stopped at 14:00 on Saturday due to a hardware problem in the pumping group that needs to be investigated. Since then the 1.8K cryo unit is operating at a reduced setting. Temperature has risen to a median temperature of 5-6K and pressure has risen to 14bar. Safety valves open at 17bar. No helium has escaped. There are more than 12 tons of He in the whole system. Programme for today: restart active cooling and understand what caused the problem. Cool (again) DFBA and DFBC to 4.5K.
- F. Millet: A leaky plug has been found on Friday between cryo cell 29 and 33.
- F. Millet: Higher temperature in the middle of the arc could be due to some vacuum leak resulting in increased heat loss. This has been known for some days already and increased pumping is operating in that point.
- F. Millet: some condensation can be seen in DFBA on the vacuum enclosure on top of chimney. This is a known issue. Condensation is not easily seen on the DFBA monitoring cameras. F. Millet noted that an infrared camera would see such problems.
- M. Zerlauth: PIC1 tests have all finished. Waiting for CRYO OK to continue. Tests for the standalone magnets (Q4 and Q5) can start as soon as we get CRYO OK for 4.5K.
- D. Niesbet: Earthing fault has finally been debugged. It was traced (after a long debugging session) to a jubilee clip from the water cooling cable touching a He recovery line (which is earthed). This needs to be discussed between the ACR and CV groups and sorted out.
- D. Bozzini: sector 45: The pieces for galvanic insulation between cable lug and current lead are available but would probably benefit from an increased thickness.

- Balisage and flashing lights: It was reiterated that equipment that has flashing warning lights on it should not be touched under any conditions. On the other hand, every effort will be taken to avoid having false warning lights (leaving warning lights on after the end of a test, for example). Here a site manager would be helpful.
- Next meeting Wednesday 21 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

Wednesday, 21 March 8:30 @ 2889-R-009

R. Schmidt
M. Koratzinos