**Preparation of Cool-Down in Sector 78 RAT** Réunion Avancement Travaux

HARDWARE COMMISSIONING COORDINATION - WEEK 47

20 Novembre 2006 8 :30 2889-R-009


**Preparation of the Cool-Down in Sector 78**

AC cabling non-conformity: -

DC cabling:
- Cabling for the BPMs on going.
- Connections (made by TS/MME) of 120 A cables to be verified (TS/EL) from Q6 to Q10.
- L. Prever-Loiri will contact J.P. Malod-Dognin (160387) to borrow a scaffolding.
- Connections of 600 A cables to the DFBAO to be verified.
- Flohe will start working on the 6 kA and 13 kA of the DFBAO or DFBAM on Wednesday to be defined by TS/HDO depending on the co-activities.
- J.C. Guillaume, will not install the profibus-PA cable requested by J. Casas before the end of the year.
- J.C. Guillaume requested an “ok” from D. Bozzini to go on with the cables of 600 A in 7R.
  - D. Bozzini gives is “ok” for both DFBAN and DFBMH.
  - After performing the galvanic insulation tests, minor modifications have to be done (connections will be done from week 48).

Assembly: -

Vacuum:
- Pressure test foreseen for Friday. The tunnel from RR73 to UJ87 will be not accessible since 13:00. The tests will start at 14:00.
- S. Junker: 21 leak detectors will be placed today all along the arc 78.
- Q11L8 leak repaired.

Cryogenics:
- A. Suraci informs that HV tests of the cryo instrumentation and extra-cabling on the DFBs in LSS8L and LSS7R will be done this week.
- The AT/ACR crates will be installed in UA83 and RR77.
- The problem on the cryo-valves of the DFBX was resolved.
- On DFB instrumentation cables have to be connected.
- The support for WRL on DFBAO will be installed today.
• F. Millet informs that during the leak test on Saturday (18.11) a certain number of leaks have been identified and particularly on current leads of the DFBAO: to be repaired today (1 or 2 hr. should be enough).

DFB Commissioning:
• Davide informs that the tests TP4-A and QPS continuity tests and cable assignments on DFBs are still on going in LSS8L and LSS7R.
• S. Junker informs that the valve on the WRL is operational.
• Insulation vacuum of the DFBs R7 will start today (P. Chambouvet) and in L8 next week.
• Current leads racks should be installed by tomorrow evening (A. Funken).

Safety:
• Roberto remained that to perform any activity in a part of the tunnel one requires a:
  o AEC – to be asked via EDH.
  o VIC – Visite Inspection Commune (J. Etheridge).

Preparation of Powering Procedure Test (previously called Dry Run): -

AOB:
• Planning for week 47 as attached file.

Open Issues

AC non-conformity
13.11.06 Non-conformity of the crates of cryo instrumentation (inrush current)
13.11.06 Non-conformity of the AC cabling of the crates under the magnets. This concerns ACR, MEL, orbit corrector power converters & VAC.
13.11.06 Non-conformity of the DC cabling of the orbit corrector power converters

DC cabling
13.11.06 6 kA and 13 kA cables positioning at DFBAO, DFBMA and DFBMC
13.11.06 120 A cable connections in DFBAO, DFBMC, DFBMA and DFBX LSS8L
17.11.06 600 A cable positioning on DFBA
20.11.06 Connections (made by TS/MME) of 120 A cables to be verified (TS/EL)
20.11.06 Connections of 600 A cables to the DFBAO to be verified
20.11.06 Flohe on DFBAO or DFBAM? To be decided

Assembly
-
Vacuum
20.11.06 21 leak detectors to be placed all along the arc 78
17.11.06 Bellows damaged in Q6-Q7 LSS8L

Cryogenics
20.11.06 DFB instrumentation cables to be connected
20.11.06 leaks on DFBAO in reparation
17.11.06 Instrumentation cable HV tests in LSS8L
17.11.06 Pressurized air supply to valve on WRL
13.11.06 Support on DFB AO WRL

DFB Commissioning
17.11.06 Prototype of galvanic insulation to be tested at Point 6
13.11.06 ElQA-TP4-A in the DFB AO, DFBAN, DFBAX
17.11.06 Pumping of insulation vacuum will start next week in 7R

Safety
General remark: written communication in advance to announce operations!!!
16.11.06 Cool down safety procedure & access conditions
16.11.06 Definition of Safety procedure for Powering Procedure Test (aka Dry Runs)
17.11.06 Monorail in Point 8 locked off on Monday (20.11) starting from 10.30!!!

Preparation of powering test
16.11.06 Water circulating in UA83 for the Powering Procedure Test: filters need to be cleaned!

AOB
13.11.06 BPM connection in Q2, Q3, Q4, Q5, Q6, Q7
13.11.06 Quench protection continuity tests and cables assignment LLS7R (DFBMH, DFBAN) and LSS8L (DFBMC, DFBMA and DFBX)

Closed Issues

Valve on the WRL is operational 20.11.06
Leak in arc Q11-8L 20.11.06
Cryogenic valve manipulation on DFBX 20.11.06
BLMs’ monitor removal 17.11.06
120 A Cables connection in DFBAO, DFBMC, DFBMA and DFBX LSS8L 17.11.06
DS7R and DS8L leak test finished 17.11.06
Leak in R7 repaired 17.11.06
Q6-Q7 bake-out completed 17.11.06
Current lead vacuum: man power and pumping groups availability 15.11.06
Hydraulic connection of the current leads 15.11.06
DFBX AT/MEL Transformers installation 14.11.06
WRL connection DFBMH LSS7R 14.11.06
ELQA-TP3 test of the sector 78 14.11.06
Polarity tests of the 600A and 120A cables for DFBAN and DFBMH (LSS7R) 14.11.06
QUI available 10.11.06
Pressure tests of QUI and DFBs safety valves finished 10.11.06
QRL valves available for all sector 09.11.06
QRL valve opening/cabling verification 13.11.06
Interconnections DFBAO, DFBMA and DFBMC 13.11.06
WRL connection at DFBMC, DFBMA and DFBX 13.11.06
120A cables positioning at DFBAO, DFBMA and DFBMC 13.11.06
Q6-Q11L8 leak test envelope 13.11.06
Interconnections of DFBAN and DFBMH 13.11.06

**Milestones: Test Schedule**

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**Next RAT meeting**
Tuesday, November 21th 8:30 @ P8 2889-R-009

Boris Bellesia