**RAT** Réunion Avancement Travaux

HARDWARE COMMISSIONING COORDINATION

February 02, 2007, 8:30 in CCC


**SCT in UA67 and UJ67**

- AC: -

- DC cables
  - Aluminum panel installation will be done for today (31.01): DONE
  - Connection fixation on RQ8-RQ9.
  - The conical junction of the RQD measured is about 20 mV instead of a normal value of 5 mV. By the way the 8h run will be performed. Today (31.01) TS-EL will re-do the connection. DONE

- Power converters:
  - Today (30.01) second 8h run: all circuits again: DONE
  - The RB will be probably excluded from the 24H test as AB/PO is completing tests of the Active Filter on this circuit. Further tests to be decided.
  - AB/PO will possibly open a NC regarding the connection of the "plage" of the 6 kA power converters.
  - The 24h heat run: Monday 05.02.
  - At the end (~16.00) of the last 8hr run (30.01) the too high water cooling circuit temperature provoked a trip of all converters. Cause: a PLC regulating the water flow stalled, the resetting caused a general trip of the pumps.

- PIC and CCC:
  - RSF2.A67B1 and RSF2.A67B2 used a 'bouchon' at the power converter level instead of the PIC cable: TS-EL will fix it in the coming week, not essential for the 24hr run.
  - Today 02.02 test from CCC to prepare the 24hr run.

- Cooling and Ventilation:
  - Investigation of the too high temperature of the cooling water circuit. Cause found.

- WIFI:-
WorldFIP:

Energy Extraction:

- Following a request by Noel, Emmanuel Garde (AB/PO) will be present tomorrow (Thursday 01.02) at 9am in UA67 to power the QF and QD circuits for supplementary tests of the 13kA EE system. DONE

AOB:

- AUG: 9th Feb. 07:
  - EE-QPS team will need ONE person in the tunnel during the AUG.
  - PIC team will need ONE person in the tunnel during the AUG.
  - It has been suggested that the PIC / EE-QPS / PC systems provide a short hand-book (just few lines) of the most common manipulations of their system to easy the CCC operator work. DONE. See attachment.

Open Issues

- 02.02 NC opening on the bad connection on the 6kA racks
- 29.01 Access to the tunnel during AUG
- 08.01 EE fan rotation problem – all ring

Heat Runs and Test Schedule

- 08.01 600A and 13 kA EE-system IST.
- 08.01 RB-IST. ON-GOING
- 11.01 120A powering tests.
- 15.01 2-kA powering tests.
- 15.01 600A powering tests.
- 17.01 600A EE-powering tests.
- 22.01 PIC-PC-QPS Interface tests.
- 23.01 RQD&F powering tests.
- 24.01 RB powering tests.
- 25.01 CCC tests for preparing 8hr run
- 26.01 120A-600A-2kA 8h heat run.
- 30.01 RQD/F-RB 8h heat run.
- 05.02 24h heat run test.
- 07.02 Polarity test.
- 09.02 AUG&UPS test.
**Closed Issues**

29.01  Slightly higher resistance of a conical junction  02.02
31.01  too high cable connection temp. of RQ8/9 during 8hr run  02.02
21.12  Aluminum panel for the cables ducts/ shipping and install  02.02
31.01  Identified cause: too high water temp. during 8hr run  02.02
26.01  Dirty filters to be cleaned in the 13kA water cooled cables  29.01
29.01  Minor problems in the monitoring system of the EE  29.01
10.01  QPS racks connection  29.01
24.01  Eletta in RQ4 to be repaired  25.01
17.01  Broken thermostat on 13 kA EE  26.01
17.01  Broken thermostat on 13 kA EE  25.01
19.01  HV Insulation test of the DQS poles  21.12
19.01  Cleaning of filters by CV (planned for 17.01)  12.01
19.01  Power cut in ERD-R13  12.01
17.01  Loosen bolts on RCBYH4.R6B1 and RCBYV4.R6B2 PCs.  15.01
12.01  Water circuit in RR73 (next SCT)  10.01
10.01  Problem with the CYNET03  08.01
10.01  Database update for ECR LHC-RPH-EC-0001  12.01
18.12  PC powering  10.01
18.12  Cooling station test by Roese  10.01
18.12  ERD rack powering  09.01
18.12  Elettas calibration  08.01
18.12  Ventilation station  08.01
21.12  HV Insulation test of the DQS poles  08.01
18.12  EOD rack powering  23.12
18.12  Cleaning of the areas  21.12
18.12  Water circulation  21.12
18.12  HV test with circulating water  21.12
18.12  Water-cooled cables supports  21.12
18.12  WorldFip cabling for PO  21.12
18.12  CYNET01 and CYNET02 powering  21.12
18.12  Connection of cable extremities on DQS  21.12
18.12  Electrical protection IP2 on LEMs  21.12

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**PREPARATION SCT in RR73 and UJ76**

- **ACCESS Information:**
  - Monday 05.02: NO access to the UJ76 / RR73 accessible from P6
  - Tuesday 06.02: accessing to the UJ76 with LHCCOOL card/ RR73 accessible from P6.
  - Wednesday 07.02 unlimited access to UJ76-RR73
- **AC:** Simon Brown will link the ECR1 on Wednesday 07.02
DC cables
  - Baptise will start the cabling of the UJ76 on Wednesday
  - Jean-Claude will start positioning the cable for the fire detection system on Wednesday 07.02

Power converters:
  - The modules will be put in place on Wednesday 07.02

PIC and CCC: -

Cooling and Ventilation: -

WIFI:
  - Wednesday (07.02) morning: zone verification

WorldFIP:
  - Claude will intervene on Wednesday – Co-activities with WorldFIP no problematic. Segment Consignation: Thursday evening (08.02)

Energy Extraction:
  - Equipotential connection: to be verified (intervention by J. Toullieux)

Cleaning: today (02.02) in RR73; Friday (19.02) in UJ76

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Monday February 5
RAT meeting
8:30 in CCC

Boris