

HARDWARE COMMISSIONING COORDINATION

February 02, 2007, 8:30 in CCC

Present: Boris Bellesia, Alejandro Castañeda, Claude Dehavay, Sandor Feher, Robert Flora, Noell Fournier, Baptiste Lebeau, David Nisbet, Mirko Pojer, Ivan Romera, Jacques Toullieux.

**SCT in UA67 and UJ67**

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- AC: -
  
- DC cables
  - ~~Aluminum panel installation will be done for today (31.01). DONE~~
  - Connection fixation on RQ8-RQ9.
  - ~~The conical junction of the ROD 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: 9<sup>th</sup> 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

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02.02	RSF2.A67B1 and RSF2.A67B2 PIC cables to extend
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

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

## Closed Issues

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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 CYNETO3	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 Roesse	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	CYNETO1 and CYNETO2 powering	21.12
18.12	Connection of cable extremities on DQS	21.12
18.12	Electrical protection IP2 on LEMs	21.12



## PREPARATION SCT in RR73 and UJ76

- ACCESS Information:
  - Monday 05.02: NO access to the UJ76 / RR73 accessible from P6
  - Tuesday 06.02: access 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



**Monday February 5  
RAT meeting  
8:30 in CCC**

**Boris**