

## **RAT** Réunion Avancement Travaux

### HARDWARE COMMISSIONING COORDINATION

February 06, 2007, 8:30 in CCC

Present: Boris Bellesia, Alejandro Castañeda, Claude Dehavay, Robert Flora, David Nisbet, Ivan Romera, Jacques Toullieux.

### **SCT in UA67 and UJ67**

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- AC: -
- DC cables:
  - Little ducts between UA and RA were not closed during the 24hr run. This could have influenced the cable temperatures. Action to be discussed with AB-PO / TS-EL and TS-HDO.
  - Hardware problem of the temperature acquisition system (available only for the first 8h).
  - Rack RYLC03 not labeled by TS-EL. Baptiste has been informed.
- Power converters:
  - ~~The 24h heat run: Today 05.02. DONE~~
  - Further tests on RB (Active Filter) during tomorrow morning.
  - Polarity Checks foreseen for tomorrow (07.02).
- PIC and CCC: -
- Cooling and Ventilation:
  - Today (06.02) filter cleaning of the water cooled cables circuits.
- WIFI: -
- WorldFIP: -
- Energy Extraction: -

#### 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.
- 24h run resume:
  - 05 Feb.
    - ◆ 9:05: START
    - ◆ 9:08: RCBCH10.R6B1 down, there is a permit fault. Expert called, an on site check is necessary; 380V power missing

- ◆ 10:20: Some power converters tripped due to a low water flow - RB, RQD, RQF, RQ8/9/10.
- ◆ 10.30 restarted power converters
- 06 Feb
  - ◆ 09:30 Stop the 24 hours run.
  - ◆ 09:45 Restart all power converters for TS/EL and AT/MEL
  - ◆ 10:14 Set current to nominal - TS/EL tests
  - ◆ 11:11 Change current from nominal to ultimate for AT/MEL tests.
  - ◆ 11:36 Stop all power converters.

## Open Issues

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05.02	Little ducts between UA and RA not closed during the 24hr
05.02	Rack RYLC03 not labeled by TS-EL.
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.

## 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	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



## **PREPARATION SCT in RR73 and UJ76**

- ACCESS Information:
  - From Tomorrow (07.02) MORNING 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:
  - Due to access restrictions from point 6 to the working area, delays have been accumulated; schedule:
    - PO segments ready Thursday 8 at 12:00 AM
    - QPS segments: ready Friday 9 at 12:00 AM
- Energy Extraction:
  - The WorldFip loops which must be installed by the QPS team on their segment.
  - Equipotential connection: to be verified (intervention by J. Toullieux)
- Cleaning: today (02.02) in RR73; Friday (19.02) in UJ76



**Thursday February 8**  
**RAT meeting**  
**8:30 in Point 7**

**Boris**