

RAT Réunion Avancement Travaux

HARDWARE COMMISSIONING COORDINATION

February 05, 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

- AC: -
- DC cables: -
 - ~~Connection fixation on RQ8-RQ9.~~
- Power converters:
 - AB/PO will possibly open a NC regarding the connection of the "plage" of the 6 kA power converters.
 - Test on the RQ8-9 have been done on Friday after the reparation of the bad connection; a higher temperature than usual has been recorded (~90 deg instead of ~60). As the busbar contact resistance was degraded by the original over-heating, AB/PO chose to replace the affected busbars. New measurements indicate the problem has been resolved.)
 - The 24h heat run: Today 05.02.
- PIC and CCC:
 - ~~Today 02.02 test from CCC to prepare the 24hr run. DONE~~
- Cooling and Ventilation:
 - ~~Investigation of the too high temperature of the cooling water circuit. Cause found.~~
- WIFI: -
- WorldFIP: -
- Energy Extraction: -

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.

24h heat run test

The 24h heat run test has been started around 09.00; RB,RQF/D and RQ8/9/10 temporarily tripped at 11:00 due to a water flow drop – Possible cause: dirty filters or bad setting of Elettas (too sensitive) or temporary perturbation of pump output – TS-CV on alert in case of an other flow drop;

At 11:30 all the power converters UP.

During the next 24 hours the following contacts will be available for the different systems:

Hardware commissioning coordination:

Boris Bellesia	162482
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Power converters :

Responsable AB/PO:	David Nisbet	164223
(en cas de absence)	Hugues Thiesen	164205
Numéro général AB/PO-LHC-SCT-24H:		162333

For AB/PO – in the tunnel:

Journée 8:00-18:00 heures:	Emmanuel Garde	164035
Journée 17:00 -20:00 heures:	Vincent Barbet	165148
Nuit 20:00–02:00 heures:	Halil Oruc	165193
Nuit 02:00-8:00 heures:	Okbi Zenasni	163678

Energy extraction system:

Reiner Denz	165289
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DC cables:

Journée jusqu'a 12:00 heures:	D.Camus	164903
Journée 12:00-20:00 heures:	B.Lebeau	160913
Nuit 20:00-02:00 heures:	S.Boutte	163390
Nuit 02.00-08.00 heures:	D.Camus	164903

Open Issues

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

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



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:
 - 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



**Tuesday February 6
RAT meeting
8:30 in CCC**

Boris