

HARDWARE COMMISSIONING COORDINATION

December 7, 2006, 8:30 in CCC

Present: Julien Kis, Sandrine Le Naour, David Nisbet, Mirko Pojer, Ronaldus Suykerbuyk, Jacques Toullieux.

SCT in RR57 and UJ56

8h heat run test

The 8h heat run test started around 9.15 on Wednesday 6 with no major problems.

Around 11 o'clock, the temperature in UJ56 was detected to be above normal; some cables reached around 85 °C. The ventilation system was apparently not working. Following the indication of J.Inigo-Golfin, J.Kis started the ventilation in manual. The automatic operation was re-established after intervention of CV group at noon.

J.Kis has also informed about an over-heating of the 600A power converters cables (around 100 °C attained), due to grouping of cables on the tray. An intervention to re-distribute the cables is planned for this morning. Due to this cable overheating, around 3 o'clock the current for the 600 A power converters was lowered to 300 A, to continue the test with acceptable cable heating.

D. Nisbet has informed about a problem with a 6 kA power converter: a software application problem produced a change of the power converter control from "current control" to "voltage control", responsible for a drift of the current value. The problem was solved and the power converter re-started.

J.Toullieux has confirmed that the acquisition of the power consumption was working properly and no anomalies have been reported.

Concerning the EE system, S.Le Naour has confirmed that no problems were detected and the system is ready for the 24h heat run test.

A problem with the access key for the electrical distribution room in UJ56 has been reported by D.Nisbet. A solution is under discussion.

Open Issues

22.11	Fire detection – awaiting certification
01.12	Short cables on 13 kA EE to be changed later on (temporary solution in place)

- 06.12 Permanent labels for RQ converters in RR57 (according to ECR)
- 07.12 Cables re-distribution for 600 A
- 07.12 Access key to electrical distribution room in UJ56

Heat Runs and Test Schedule

- 01.12 ~~Squeeze test~~ DONE (all the power converters involved have been tested)
- 06.12 ~~8-h heat run~~ DONE
- 07.12 Fire detection test
- 08.12 Full power ventilation tests in RR57 – from 8:30 till 12:00
- 08.12 Afternoon: Polarity Test_1st part
- 11.12 10am: 24-h heat run
- 12.12 UPS test.
- 13.12 Electric cut (AUG simulation).
- 13.12 Polarity Test_2nd part
- 14.12 13kA energy extraction test.

Closed Issues

- | | | |
|-------|--|-------|
| 23.11 | Ripples in RQT12R5B1 power converter. | 05.12 |
| 29.11 | ELETTAS threshold setup | 01.12 |
| 29.11 | WIFI problems | 01.12 |
| 20.11 | Problem with water conductivity in DQS | 29.11 |
| 23.11 | Cables inversion on rack RYMCA04 | 29.11 |
| 13.11 | Test de circulation ED (waiting UJ56) | 29.11 |
| 13.11 | DC cables high voltage test | 29.11 |
| 22.11 | DQS acousting shielding and cabling | 27.11 |
| 22.11 | Wi-Fi damaged cable has to be repaired | 27.11 |
| 13.11 | Ventilation in UJ56 | 27.11 |
| 19.11 | Eletta tests RR57 | 22.11 |
| 13.11 | High Voltage tests with and without water RR57 | 22.11 |
| 13.11 | Balisage | 22.11 |
| 13.11 | Calibration rack connection | 20.11 |
| 13.11 | Elettas test. Done | 20.11 |
| 13.11 | 13kA EE shielding. | 16.11 |
| 13.11 | Elettas Installation. Done | 15.11 |
| 13.11 | Detailed schedule SCT. Ready. | 15.11 |
| 13.11 | Fire Detection in the area. Ok. | 15.11 |



Dry-Run in UA83 and RR77

CV informs that operations in UA83 needed for the Powering Procedure Test (dry-run) have already been started (some flexibles have to be connected

and filters checked). It is important to know that water can circulate in the area apart the water-cooled cables, where operations are on going.



Proposal of Short Circuit test inversion between RR73/UJ76 and UA67/UJ67

The inversion of the point is confirmed. Test will start on second week of January (first working week!).



**Next RAT meeting,
Monday December 11
8:30 in CCC.**

Mirko

ANNEX 1 _ Changes in power converter notation, in agreement with the Engineering Change Request (EDMS No. 804188)

OBJECT_ID	OLD PC NAME		RACK LOCATION	NEW PC NAME	OLD ERD	NEW ERD	OLD UPS	NEW UPS	PIC CABLE	EOD LABELS OK	ERD LABELS OK	FINAL PC LABEL OK	OLD FIP ADDRESS	NEW FIP ADDRESS	DC EARTH CHECKED	INTERLOCK CABLE INVERSED	CONVERTER POSITION (U = UPPER, L = LOWER)	REMOTE RESET OK
321110	<u>RPHGA.RR57.RQ7.R5B1</u>	<u>RPHGA</u>	RR57	<u>RPHGA.RR57.RQ7.R5B2</u>	106	107	105	105	OK	OK	OK		13	6	OK	OK	L	OK
321111	<u>RPHGA.RR57.RQ7.R5B2</u>	<u>RPHGA</u>	RR57	<u>RPHGA.RR57.RQ7.R5B1</u>	107	106	105	105	OK	OK	OK		6	13	OK	OK	U	OK
321156	<u>RPHGA.RR57.RQ9.R5B1</u>	<u>RPHGA</u>	RR57	<u>RPHGA.RR57.RQ9.R5B2</u>	110	111	105	105	OK	OK	OK		15	8	OK	OK	L	OK
321157	<u>RPHGA.RR57.RQ9.R5B2</u>	<u>RPHGA</u>	RR57	<u>RPHGA.RR57.RQ9.R5B1</u>	111	110	105	105	OK	OK	OK		8	15	OK	OK	U	OK
321077	<u>RPHGB.RR57.RQ5.R5B1</u>	<u>RPHGB</u>	RR57	<u>RPHGB.RR57.RQ5.R5B2</u>	103	102	104	104	OK	OK	OK		18	19	OK	OK	L	OK
321078	<u>RPHGB.RR57.RQ5.R5B2</u>	<u>RPHGB</u>	RR57	<u>RPHGB.RR57.RQ5.R5B1</u>	102	103	104	104	OK	OK	OK		19	18	OK	OK	U	OK
321184	<u>RPHH.RR57.RQ4.R5B1</u>	<u>RPHH</u>	RR57	<u>RPHH.RR57.RQ4.R5B2</u>	115	116	104	104	OK	OK	OK		12	5	OK	OK	U	OK
321185	<u>RPHH.RR57.RQ4.R5B2</u>	<u>RPHH</u>	RR57	<u>RPHH.RR57.RQ4.R5B1</u>	116	115	104	104	OK	OK	OK		5	12	OK	OK	L	OK
	<u>RPHGB.RR57.RQ6.R5B1</u>	<u>RPHGB</u>	RR57	NA											OK		L	
	<u>RPHGB.RR57.RQ6.R5B2</u>	<u>RPHGB</u>	RR57	NA											OK		U	
	<u>RPHGA.RR57.RQ8.R5B1</u>	<u>RPHGA</u>	RR57	NA											OK		L	
	<u>RPHGA.RR57.RQ8.R5B2</u>	<u>RPHGA</u>	RR57	NA											OK		U	
	<u>RPHGA.RR57.RQ10.R5B1</u>	<u>RPHGA</u>	RR57	NA											OK		L	
	<u>RPHGA.RR57.RQ10.R5B2</u>	<u>RPHGA</u>	RR57	NA											OK		U	

	qty
RPHH	2
RPHGA	4
RPHGB	2