

RAT Réunion Avancement Travaux

HARDWARE COMMISSIONING COORDINATION

December 12, 2006, 8:30 in CCC

Present: Carlos Castillo Trello, Knud Dahlerup-Petersen, Robin Lauckner, Sandrine LeNaour, Jean-Pierre Malod-Dognin, David Nisbet, Mirko Pojer, Ronaldus Suykerbuyk, Hugues Thiesen, Jacques Toullieux.

SCT in RR57 and UJ56

24h heat run test

All the power converters were ramped successfully.

Around 11 o'clock, some power converters were stopped, because of a "defaut d'eau", probably due to some dirty filters. They were ramped again.

At 13.15 all power converters in RR57 tripped, due to a wrong handling of the EL team. Jacques has confirmed that it was due to a wrong manipulation on the protection relay of the 18 kV during measurements and that it does not pose any problem for normal operation.

At 4 o'clock the current was lowered from ultimate to nominal, without any problem.

At 10 o'clock, after Jeff Thomsen confirmed the completion of the infrared camera scanning, all power converters were ramped down.

Few minutes later all the 600 A PCs had to be ramped up again to ultimate to permit Reiner Denz to perform his calibration campaign on the LEMs.

At 12.11 all PCs were ramped down and the test considered concluded.

All systems responsible (PO, AC, energy extraction and sequencer) have reported no anomalies. Also CV has informed that the acquisition of temperature was working properly and that a preliminary analysis of the data shows a normal operation for both areas. DC cables people also have confirmed that the temperature stayed all the time within acceptable limits.

AOB

Knud Dahlerup-Petersen has asked to PC responsible to keep the interlock state as it is to avoid the opening of the switches. He also stated that the pumps have NOT to be blocked during the 13 kA EE test.

Open Issues

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	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 DONE
08.12	Full power ventilation tests in RR57 – from 8:30 till 12:00 DONE
08.12	Afternoon: Polarity Test_1 st part TO BE RE-SCHEDULED
11.12	10am: 24-h heat run DONE
13.12	9.00: UPS test and Electric cut (AUG simulation).
13.12	Polarity Test_2 nd part TO BE RE-SCHEDULED
14.12	13kA energy extraction test
15.12	14.00: New sequencer test

Closed Issues

07.12	Cables re-distribution for 600 A	11.12
22.11	Fire detection – awaiting certification	11.12
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 18
8:30 at Point 5.**

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