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 “défaut 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_1st 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_2nd 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)

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<tr>
<th>OBJECT_ID</th>
<th>OLD PC NAME</th>
<th>RACK LOCATION</th>
<th>NEW PC NAME</th>
<th>OLD ERD</th>
<th>NEW ERD</th>
<th>OLD UPS</th>
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<th>ERD LABELS OK</th>
<th>FINAL PC LABEL OK</th>
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<th>DC EARTH CHECKED</th>
<th>INTERLOCK CABLE INVERSED</th>
<th>CONVERTER POSITION U = UPPER, L = LOWER</th>
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