**RAT** Réunion Avancement Travaux

**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**

<table>
<thead>
<tr>
<th>Issue</th>
<th>Description</th>
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<tbody>
<tr>
<td>22.11</td>
<td>Fire detection – awaiting certification</td>
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<tr>
<td>01.12</td>
<td>Short cables on 13 kA EE to be changed later on (temporary solution in place)</td>
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</table>
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.

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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!).

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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)

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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>
<th>NEW UPS</th>
<th>PC CABLE</th>
<th>EOD LABELS OK</th>
<th>ERD LABELS OK</th>
<th>FINAL PC LABEL OK</th>
<th>OLD FIP ADDRESS</th>
<th>NEW FIP ADDRESS</th>
<th>DC EARTH CHECKED</th>
<th>INTERLOCK CABLE INVERSED</th>
<th>CONVERTER POSITION (U = UPPER, L = LOWER)</th>
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**qty:**
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- RPHGA: 4
- RPHGB: 2

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