**RAT** Réunion Avancement Travaux

HARDWARE COMMISSIONING COORDINATION

December 11, 2006, 8:30 in CCC

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

**SCT in RR57 and UJ56**

- **Cables DC:**
  - After the over-heating of the 600 A cables on the tray during the 8h heat run test, those cables have been re-distributed to improve their ventilation. The re-distribution has been carried on in both areas (UJ56 and RR57).

- **Fire detection system:**
  - Raymond Cambarrat has confirmed by e-mail on Friday 8 the good result of the test of fire detection and the provisional acceptance of the system, as follows:
    
    Bonjour,
    Nous avons procédé, cet après-midi, aux tests réglementaires des détections incendies dans les locaux susmentionnés. Les alarmes filaires sont parvenues sur les écrans des salles de contrôle CCC et SCR dans les délais réglementaires. Nous avons accepté l'installation provisoirement en l'état actuel, dans l'attente de driver permettant de bien identifier les capteurs en alarme. Les rapports avec les plans de localisation suivent par courrier interne Cordialement raymond

    Raymond Cambarrat
    Safety Commission
    Cern

- **Cooling and ventilation:**
  - The full power ventilation test was successfully executed on Friday, 8. Green light has been given for the 24h heat run test.

- **UPS and AUG tests:**
  - Agreement has been found on the possibility of performing the two tests in the same day (NOT at the same moment!!!), namely Wednesday, 13. Knud has underlined that the stop of the pumps is also a necessary requirement for the AUG.
Half a day has been scheduled for the test of the new sequencer, on Friday, 15.

**24h heat run test**
The 24h heat run test has been started around 10.10, later than expected, because of access problems to the electrical distribution room in UJ56, as already experienced and reported during the 8h heat run.

All the power converters have been ramped successfully.

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

**Hardware commissioning coordination:** Mirko Pojer 162482

**Power converters:**
- Responsable ABPO: David Nisbet 164223
  - (en cas de absence) Hugues Thiesen 164205
- Numéro général ABPO-LHC-SCT-24H: 162333
- Permanences ABPO:
  - Journée 8h a 18 heures 11-12-2006: Emmanuel Garde (16 4035) / Philippe Marchon
  - Journée 18h a 20 heures 11-12-2006: David Nisbet (164223) / Jeff Thomsen (165008)
  - Nuit 20h 11-12-2006 a 2h00 12-12-2006: Okbi Zenasni tel (16 3678)
  - Nuit 2h a 8h 12-12-2006: Cédric Caffier tel (16 4133)
  - Journée 8h a 17 h 12-12-2006: Emmanuel Garde (16 4035) / Philippe Marchon

**Energy extraction system:** Knud Dahlerup-Petersen 163279

**DC cables:** J. Kis (10h-18h), B. Lebeau (18h-00h), S. Cotte (00h-7h), J. Kis (7h-end of test) 164879

**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
13.12  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  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 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.
The inversion of the point is confirmed. Test will start on second week of January (first working week!).

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

Next RAT meeting, 
Tuesday December 12
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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<th>OBJECT_ID</th>
<th>OLD PC NAME</th>
<th>RACK LOCATION</th>
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<th>OLD ERD</th>
<th>NEW ERD</th>
<th>OLD UPS</th>
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<th>PC CABLE</th>
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<th>ERD LABELS OK</th>
<th>FINAL PC LABEL OK</th>
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<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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