

RAT Réunion Avancement Travaux **RR17/UA23-UA27/UJ33**
HARDWARE COMMISSIONING COORDINATION

◆ ◆ ◆
NEXT RAT meeting
Wednesday 15.08 at 8:30 in CCC
◆ ◆ ◆

August 13-08-2007 08:30 in **Point 1 – Bld. 3190-R-002**

Present: Maria Paz Casas Lino, Knud Dahlerup-Petersen, Hubert Gaillard,
David Nisbet, Jacques Toullieux.

Heat runs general schedule:

UA23: 6th August: 9:00-17:00 – **8hr heat run – Done**
UA23: 9th August 14:00 – 10th August 14:00 – **24hr heat run - Done**
UA23: **AUG** (postponed) To be done together with UA27 AUG (September)
RR17-UJ16: 14th August 16:00 **Pre-test 8h run**
RR17-UJ16: 15th August: 9:00-17:00 – **8hr heat run**
RR17-UJ16: 20th August 9:00 – 21th August 9:00 – **24hr heat run**
RR17-UJ16: 21st August 9:30 **AUG**
Short Circuit Tests in RR17-UJ16

- **AC (TS-EL): -**
- **DC (TS-EL): -**
 - Interlock cables for DC_CABLE_WATER are inversed in the circuit RQ10 and RQ6 in RR17. TS/EL will fix it next Tuesday 14.08 in the morning.
- **Cooling and Ventilation (TS-CV):**
 - Eletta regulation of the RR17 and UJ16 completed (10.08).
 - Water problems in UJ16, in RQX.R1, RTOX1.R1, RTOX2.R1, converters were still present today morning 13th August after intervention by TS/CV the 10th August. A new intervention by TS/CV will be carried out today to fix the problem.
 - In RR17, a water flexible is touching a bar in RQ5.R1B1 (Correction to be done)
 - Cleaning of the filters is to be carried out today (13.08).
- **PIC (AB-CO):**
 - A third PIC interface tests will be carried out next Tuesday morning (14.08) in the following circuits:

RCBCH5.R1B1	RCBYVS4.R1B1	RCBCV10.R1B1	RQX
RCBCV5.R1B2	RCBYHS4.R1B2	RCBCH10.R1B2	RTOX2
RCBCV6.R1B1	RCBYHS4.R1B1	RCBCH7.R1B1	
RCBCH6.R1B2	RCBYVS4.R1B2	RCBCV7.R1B2	

RCBCYV4.R1B1
RCBCYH4.R1B2

RCBCH9.R1B1
RCBCV9.R1B2

RCBCV8.R1B1
RCBCH8.R1B2

- **Energy extraction (AT-MEL):**
 - Grounding of the DQR. Done
 - A test on the 6kA is foreseen for Wednesday 23rd August. (about 4 hours test)
- **WIFI (IT-CS): -**
- **WorldFip:** Knud pointed out problems with the WorldFip. Raymond Brun went to study the problem. The connection points to the QPS equipment were not done. Now they are installed and ready to be tested.
- **Convertisseurs (AB-PO):**
 - Installation of the 120A modules in RR17 done. To be tested tomorrow 14th August.
 - DFBX circuits on going.
 - Concerning the definitive DC busbar protection on the converters in UJ16 requested by John Etheridge, AB/PO will install before next heat run (15.08) a temporary solution to prevent direct contact with the bare copper bars by placing an insulating material around the output contacts.
John Etheridge requested a written approval from either Guy Salomon or Christian Bernard before the start of the tests. Copy register journal.
 - Circuits on the DFBAB will not be powered on Monday 13.08 and Friday 17.08 (Installation works can be carried out in the DFB)
- **24h heat run:** Beginning at 9:00, 20 August
- **Co-activities:**
 - Circuits on the DFBAB will not be powered on Monday 13.08 and Friday 17.08 (Installation works can be carried out in the DFB)
 - Q1L8 transport will take place during the 8h run 15.08.
The material blocking the exits of the converters area in RR17 was moved in order to leave the required passage.

Open Issues SCT in RR17-UJ16

30.07 Minor prob. with a temp. prob of 13kA EE sys – **AT-MEL**



Short Circuit Tests in UA23 – UA27

- **Pre-test ok** – minor problem with the DQS
- **8h Heat run (6th August):**

- The test began at 9:50 for all circuits except RB.A12 which was added to the test around 10:30.
- RB.A12 had some internal water problems at the beginning that were quickly solved.
- It was not possible at the beginning of the test to give the PC permit by using the PIC SU. Alexandro gave the PC permit directly.
- When starting the test for RB.A12, the current at Stand by state was over 800A (Configuration to be verified)
- o **24h Heat Run (9th August):**
 - The test started at 15:00 9th August and finished at 14:30 10th August. Temperatures in the cables decreasing after the change of current to Inom and practically stabilized again.
 - A small water leak in a connection to a water cooled cable of RB was detected before starting the tests. It did not prevent to carry out the tests but it has to be fixed by TS/CV.
 - Klaus informed at the end of the test that the inlet dematerialized water temperature was lower than usual. TS/CV is looking at it.
- o **AC (TS-EL):**
 - Jack asked for a delay in the AUG test. TS/EL has not enough personnel to carry out the tests next Monday 13.08. He proposed to do the test together with the UA27 AUG. The proposal was accepted by all the presents. The test will be done without current since the short-circuits will not be anymore in place.
 - Transformer in UA27 is foreseen to arrive at CERN the 13th August. It is foreseen to be operational after undergoing several tests, on week 35 or beginning week 36.
- o **Cooling and Ventilation (TS-CV):**
 - Air distribution modification DONE in both zones
- o **PIC (AB-CO): -**
- o **Energy extraction (AT-MEL):**
 - Communication problem with the DQS from the CCC during pre-test of the 8hr run
- o **WIFI (IT-CS): -**
- o **Convertisseurs (AB-PO): -**
- o **Système MKI (AB-BT):-**
- o **Balisage:**
 - A flashing light lengthen had been removed and used to plug a vacuum pump with the consequent delay in the start of the 8h run 6th August and extra-work for Gerard Pastor. Hubert will contact the responsible person of the vacuum pump.

Open Issues SCT in UA23

- 06.08 Next week the DQS 6kA cables are to be prepared.
- 10.08 A small water leak in a connection to a water cooled cable of RB was detected before starting the tests. It did not prevent to carry out the tests but have to be fixed by TS/CV.

Open Issues SCT in UA27

- 19.06 Due to the burnt out of the transfo EMT6/0627 and the high temperatures registered during the UA27 heat run, it has been decided to repeat the 24h heat run.
- 06.06 Electrical departures EBD in UA27 – 67 and 47 to be tested by TA-EL (Jacques agrees with Knud the best moment)
- 04.06 RQX.R2 has been powered with a PIC by-pass / PC side. – interlock test postponed to PIC1 test.



Open Issues SCT in UJ33

- 04.08 13kA: bad DC cabling of the water cooled cables in R37! **(TS-EL)** Knud pointed out it would be preferable to carry out the correction in the DFB side to avoid repeating the tests. Waiting for an answer from Baptiste
- 04.08 No fixed AC connection for the DQR racks – cables disconnected from the net to free the plug for other activities in the tunnel – not acceptable. **(TS-EL)** Jack will take care of the problem.
- 04.08 Eletta cabling in the tunnel side (both R34 and R37) to be checked **(TS-EL)**. Eletta calibration done **(TS/CV)**
- 04.08 In two racks of 600A electronic filter to be changed – they have been broken during the re-routing of the cables. **TS/EL** is to remove the cables so that the replacement of the filters can be done. Waiting for an answer from Baptiste
- 20.07 The cables of the converter RPNBB.UJ33.RSS.A23B1 are close to the current leads of the circuit RSS.A23B2 and vice versa. During next week TS-EL will invert the two circuits at the PC side. The cabloteque will be modified. **(TS-EL)**

Open Issues SCT in RR73 and UJ76

- 08.02 Temporary WIFI cable to be replaced by TS/EL – IT/DI

Open Issues SCT in UA67 and UJ67

- 02.02 RSF2.A67B1 and RSF2.A67B2 PIC cables to extend
- 02.02 NC opening on the bad connection of the “plages” on the 6kA racks
- 08.01 EE fan rotation problem – all ring – **ON GOING**