

RAT Réunion Avancement Travaux *Point2 - UA27 - UA23- UJ23*

HARDWARE COMMISSIONING COORDINATION



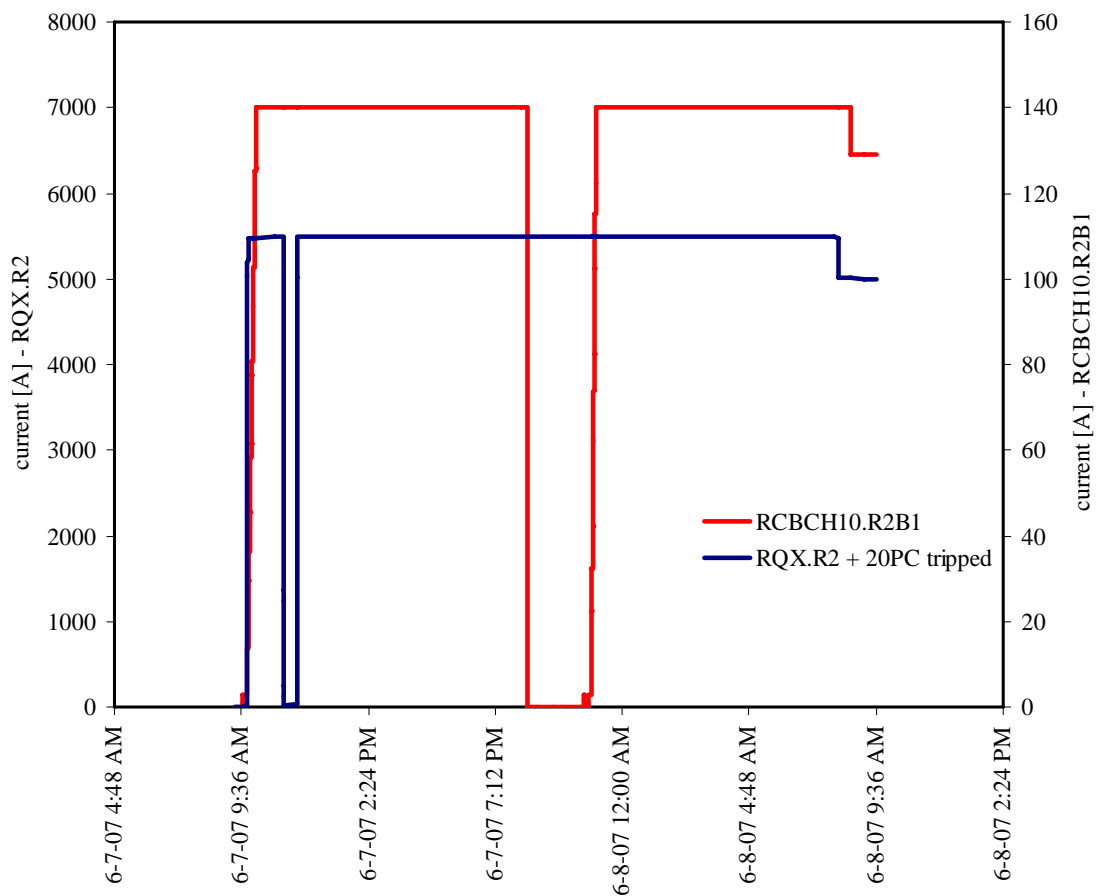
**NEXT RAT meeting UA23-UJ23
Tuesday 12.06
8:30 in ALICE meeting room - SX2 - 6619**



June 07/08, 2007, 8:30 in CCC

Present: Boris Bellesia, Claude Dehabay, Ivan Romera, Maria Paz Casas Lino, Gert-Jan Coelingh, Guy Crockford, Hubert Gaillard, Serge Grillot, Magali Gruwe, Valerie Montabonnet, Knud Dahlerup-Petersen, Baptiste Lebau, Jacques Toullieux.

24hr heat run - UA27



➤ **From E-logbook**

- 07:00 Delphine and Magali
- 09:29 Created soc for UA27 heat run: UA27_24h_heatrun
- 09:35 Started 24h heat run for UA27
- 10:10 All power converters up
- 11:17 RCBCH10.R2B1 tripped. Apparently PC_permit has been removed (why?)
- 11:42 Ramping up RCBCH10.R2B1
- 14:00 Guy & Verena
- 20:26 21 converters trip at the same time. Call Valerie
- 20:31 Possibly due to thunderstorm. PC-Permit was lost on these circuits. See file for tripped circuit names (in red).
- 21:03 RQX.R2 H.Oruc changing the FGC, powering off for this.
- 22:03 Ramping all PCs apart from 5 still being checked by H.Oruc in the tunnel.
- 22:24 The RQ7.R2B1 and B2 now ok, ramping again. Still no "circuit ok" return to PIC for RQX.R2, so unable to power this and the 2 RTQXs.
- 22:43 Valerie reset and started the above 3 circuits by hand. We still no not see the PIC ok for RQX.R2 and it is not possible to start these three circuits synchronously from the heat run sequencer.
- 23:02 All 3 PCs now back to I Ultimate, but this might cause a problem for the logging, as it was not done using the sequencer.
- 07:00 Delphine and Magali
- 08:10 Change from Iultimate to Inominal all the power supplies in UA27. Can't change RTQX1, RTQX2 and RQX because from the sequencer point of view they failed.
- 08:25 RTCX1.R2 RTQX2.R2 and RQX.R2 changed to nominal (by hand)
- 09:58 Terminate the heat run test. RTCX1.R2 RTQX2.R2 and RQX.R2 have to be ramped down by hand
- 10:22 Heat run test stopped

SYSTEMS:

- AC:
 - AC meas. have been taken at I_ult yesterday and today at I_nom.
- DC cables:
 - Temperature of the cables measured during the run was well below the upper limit of 80deg.
- Power converters:
 - 2 trips during the run:
 - First at 11.17: RCBCH10.R2B1 – PC permit lost – possible cause is a noise coming from the PC itself – by the way the WorldFip is being checked ().
 - Second at 20:26: RQX.R2 tripped and made trip 20PC more including all three 13kA. The problem could be due to the storm occurred during the night. TS-EL (Jacque) will check the AC measurements looking if micro-cuts occurred.
 - During the run high temperature of the inlet T of the FGC was recorded in the 120A circuit of the Inner triplet.
 - Temperatures inside the RB converter was higher than normally but still in tolerance.
- PIC:
 - PC permit was masked in RQX.R2 – the Interlock test of the inner triplet circuits have been postponed to PIC1 tests (Knud)
 - PC permit was masked in RCBCH7.R2B2 – Probably the problem comes from the PIC side – Problem under investigation (Ivan – Alex – AB/PO).
- Cooling and Ventilation:
 - During the run high ambient temperature was recorded all along the UA27.
 - Around 18:30 Josa discovered that a by-pass of the air-flow circuits was operational. He switched off the by-pass and the temperature in the zone dropped of about 2-3 deg.
- WIFI: -
- WorldFIP: -
- Energy Extraction:
 - 13kA: -
 - 600A: to high temperature inside the switches racks, especially inside the DYPE01-02-03-04. After the recovering of the ventilation the temperature dropped, but still high. Gert is analyzing the data.
- **AOB: Electrical departures EBD in UA27 and the AUG-UPS test will be performed today at 14:00.**



Short Circuit Tests in UA23

Review of the status on the preparation of the tests in short-circuit UA/RA23:
See below last minutes prepared by Serge Grillot updated with the input given in the meeting and after the meeting.

- **Cables refroidis (TS-EL):**
En cours d'installation. Tests en pression (eau) samedi 2 et lundi 4 juin.
Test d'isolement en charge le ~~lundi 11 juin~~ (Mardi 12 Juin)
Raccordements sur convertisseurs ~~les 12-13 juin.~~ (13-14 Juin)

- **Refroidissement (TS-CV):** (Mise en circulation de l'eau décalée au ~~lundi 11 Juin~~)
Protections en place.
Installation des nipples et bouchons en cours. Raccordements des flexibles en cours sur les 30% de la UA disponible.
Raccordements des flexibles et by-pass restant les mardi, mercredi 6 matin.
Remplissage + tests + réglages du mercredi 6 au vendredi 8 juin
Clarinettes à réorientées (prévu pour le 31 mai) sur racks RYMCB11->14 cause raccordements impossible.

La barre d'échafaudage entrant dans le rack CYCIP03 devra être enlevé pour installation PIC les jeudi et vendredi 8 juin.

- **Câblage contrôle et DC (TS-EL):**
Câbles DC sur RYMCB01->05 non sertis.
La connectique et les tests sont en cours
Le câblage extraction d'énergie sera fini le 1er juin.
Fin du câblage contrôle et DC annoncé ~~pour le 8 juin~~ (info B.Lebeau) (pour le 12 Juin)

- **Câblage AC (TS-EL):**
- 18kv RB.A12 / Mise à la terre et finitions éclairage à faire pour DQS / Réception avec AB/BO en S.23
- Mises sous tension:
 - dès le 11 juin par les équipements utilisateurs "DQ/DY",
 - dans la semaine 24 pour les autres équipements
- Prévoir inspection de SC-GS pour ~~le vendredi 8 juin.~~ (lundi 11 Juin, a confirmer)

- **PIC (AB-PO):**
- Pas de commentaires, en attente de la mise a disposition du câblage.
- Installation en CYCIP03 les jeudi et vendredi 8 juin (barre échafaudage traversant le rack)

- **Contrôle (AB-CO):**
- La mise à disposition des équipements se fera en semaine 24 (livraison du câblage testé par Ineo en ~~S.23,~~ S.24)
- World Fip:
 - Ready for QPS
 - PO segments :
 - Segment A UA23 (Pit side) : Ready Tuesday 12th
 - Segment B UA23 towards UJ23 : Ready Thursday 14th
 - Segment C UA23 towards UJ23 : Ready Friday 15th

- **DQS/DQR (AT-MEL):**
- Mise en place des panneaux d'isolation est faite
- Gaine de ventilation interne ~~en attente de pose par AT-MEL.~~ **Dejà installée.**
- Tests installation possible le 11 juin.

- **Ventilation TS-CV:**
- ~~La ventilation DQS est en attente de la pose de la gaine interne.~~

- **Détection incendie (TS-CSE):**
- Elle est opérationnelle.

- **Réseau WIFI (IT-CS):**
- Trois systèmes wifi sont installés en UA23 et la couverture générale est maintenant suffisante.
- Pour des zones entre les rangées des rack des systèmes wifi mobile ont été fourni a Boris.
- (info O.Van Der Vossen)

- **Convertisseurs (AB-PO):**
- Pas de remarques, les modules seront finis d'installés pour le vendredi 1er juin.
- En attente de raccordements des clarinettes après passage CV sur RYMCB11->14

- **Nettoyage (TS-IC):**
- Nettoyage DQS/DQR les 7 et 8 juin.
- Nettoyage final si nécessaire le 11 juin.

- **Système MKI (AB-BT):**
- Les tests des connecteurs sont en cours. **(Sera fini le mardi 12 Juin)**

- Remise de la zone à TS/HDO pour les tests CC, le 12 juin.
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Maria Paz and Boris for the HCC



Open Issues SCT in UA27

- 06.06 Electrical departures EBD in UA27 – 67 and 47 to be tested by TA-EL
- 04.06 ROX.R2 has been powered with a PIC by-pass / PC side. – interlock test postponed to PIC1 test.

Closed Issues

- 04.06 Water Fault on RQTF.A23B1 / B2
- 22.05 PIC cable of RX circuits
- 31.05 Too high resistance of the conic junction of the RB
- 22.05 RX circuits still to be done – Problem of AC distribution
- 22.05 PIC cables of IPO (Q4-Q10) to be repaired
- 22.05 **Pressure test in SX2 on 24.05**
- 25.04 The Roess station has been filled up but it was not possible to follow the procedure. Knud is waiting for the supplier enterprise to come and check this and the other stations.



SCT in UJ33

- 13kA EE:
 - The 08.06 the IST with a portable PC (1400A) will be performed in RA37 and RA34. Water must be circulated 3 days before the tests. – Apparently the water cooled cables in R34 and R37 will be not ready for Friday 08.06. Another slot must scheduled in agreement with TS-IC.

Open Issues SCT in UJ33

- 20.04 Re-routing of the DC cables.
 - 20.04 24hr heat run NOT PASSED – to be repeated
 - 20.04 13kA in RA34 and 37 will be done on Friday 01.06
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Open Issues SCT in RR73 and UJ76

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