

## **RAT** Réunion Avancement Travaux

### HARDWARE COMMISSIONING COORDINATION

October 23, 2006, 8:30 SX6

Present: Pal Anderssen, Maria Paz Casas-Lino, Knud Dahlerup-Petersen, Julien Kis, Robin Lauckner, Jean-Pierre Malod-Dognin, David Nisbet, Philippe Pigne, Ronaldus Suykerbuyk, Jeff Thomsen, Jacques Toullieux, Antonio Vergara.

### **SCT in UA63**

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Rosario will be away during week 43. Maria Paz and Antonio will replace him as coordinators of the short-circuit tests.

### **Present situation**

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- Verification of  $I_0$ . Intervention of some 30 minutes done on Friday, Oct 21, before 9h00. Jeff informs that the short-cut was not seen by the power converters. The explanation is that EL set off only the EBD distribution board, and not the ERD distribution board, which is the one actually powering the converters. The tests will be therefore repeated after the 24-hour run and  $I_0$  measured again.
- CV: demineralised water off on Thursday Oct 12. Off again on Friday and on Monday Oct 16. Same alarm: "debit de fuite". The analysis of the failure is ongoing. Philippe informs that the only possible explanation so far is the switching on of the Rose station. Knud says that this would be rather strange since the amount of water taken but this station is quite low (around 50 l.) and moreover it would not explain the double generation of the alarm in two different days. CV will keep investigating the issue. Phillippe asks Knud to inform CV when they intend to take water.
- Check of the elettas: joint intervention, CV + EL, agreed and scheduled for Friday Oct 13 in the morning. Done, Oct 19. Julien summarises the issue and its solution in his email from October 19

Après vérifications, nous avons constater que les débits fournis étant tout à fait justes. Nous avons alors essayer de comprendre pourquoi nous rencontrons des difficultés sur certains d'entre eux. Ayant constaté que la plupart du temps, les Elettas qui ne déclenchaient pas étaient ceux dont le rapport est important ( X20 ), nous en sommes arrivés à la conclusion suivante:  
le réglage du seuil minimal demandé par EL est très délicat à paramétrer dans ces cas là étant donné le fait que pour 1 graduation, nous modifions la valeur de 20l/min ce qui veut que dire que l'on que par exemple, nous demandons 75l/min avec un seuil minimal de 66l/min, il est très difficile de régler l'Eletta sans que quelqu'un vérifie en même temps que le contact soit électriquement bien fermé ( qui se traduit par un débit d'eau convenable). Le débit est juste mais le contact de l'Elletta ne se ferme pas.

C'est pourquoi nous avons décidé d'un commun accord que nous irons, Franck et moi-même, paramétrer les Elettas ensemble pour les prochaines zones de tests. Franck réglera les Elettas et je contrôlerai immédiatement l'ouverture du contact. De ce fait, nous gagnerions beaucoup de temps et il sera alors inutile de revenir là dessus à chaque fois.

- ABPO: all the 120 and 600A PC with and without EE have been tested except one. Today all the converters in the zone will be tested except the RB and the two RQs, which should be completed before the 8-hour heat run planned for Friday (10.27).
- EE: All EE systems 600A already tested without current. These tests will be completed by next Wednesday, Oct 18.
- EE: 13kA Interlock tests ready to start tomorrow.
- 13kA EE non-conformity: Knud informs that all the fans installed in the DQRs (including those of the areas already tested) turn in the wrong direction. Intervention will be carried out in all the stations for setting the sense of the spin properly.
- Wifi operational. Three Wi-Fi access points are operating now in UA63. Pal will check their proper functioning after the meeting.
- Polarity tests: They are planned for Wednesday (10.25) and Thursday (10.26)
- For comments: TSIC proposes a date for the "endurance tests" in point 5. December 4. No feed back from EE.
- It was proposed in the last HCC meeting to carry out the 24-hour heat run at ultimate and operational (instead of nominal) current. By operational it is understood the current in the different converters at 7 TeV operation. The heat load will be therefore lower than at nominal current for all the converters. HCC will get the current values from AB-ABP.
- HCC will start preparing the AUG and UPS failure tests. It is generally agreed that it would be use to make such tests for wherever possible.

## Heat Runs and Test Schedule

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24.10	8-h heat run: 120A, 600A and >2kA (pre-test CCC 23.10).
27.10	8-h heat run: RB.
01.11	24-h heat run (pre-test 30.10).

## Open Issues

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09.10	Installation of the FCR (reduced size) by TSIC.
09.10	Ventilation caps on the cable ducts between UA and RA.
13.10	Wifi extra-box in the UJ.
13.10	ED pumping station off 3 times. Failure analysis.
16.10	13kA switch, EE tests.
19.10	ABPO tests 600A with EE.

## Closed Issues

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05.10	Fire detection installed.	05.10
05.10	Short circuit parts in UA63.	10.10
09.10	Cleaning of the area.	10.10
09.10	"Tableau BT" tested. Conformity certificates ok.	10.10
09.10	Detailed schedule SCT in UA63 available.	10.10
09.10	Wifi operational.	10.10
09.10	"Balisage" of the UA63 in place.	11.10
09.10	Worldfip operational. Gateway operational.	11.10
10.10	Installation of the FGC completed.	10.10
09.10	EE, "test isolement" on the QF and QD. Done.	13.10
09.10	Water leakage on the RQF to be verified. Done.	13.10
09.10	ED water circuits balancing. Done.	13.10
09.10	Few modules 120 and 600A to be installed. Done.	13.10
09.10	Flashing boxes and "baches" for the short circuit parts.	13.10
17.10	PIC installation done.	17.10
09.10	Elettas calibration. Done.	19.10
20.10	Verification of $I_0$ .	20.10
16.10	Correction of cabling EE	17.10
16.10	PIC installation	17.10



**Next RAT meeting  
Tuesday October 24, 8.30 in CCC**

Maria Paz Casas-Lino  
Antonio Vergara