

RAT Réunion Avancement Travaux

HARDWARE COMMISSIONING COORDINATION

December 18, 2006, 8:30 at Point 5

Present: Boris Bellesia, Knud Dahlerup-Petersen, Claude Dehavay, Julien Kis, Jean-Pierre Malod-Dognin, David Nisbet, Mirko Pojer, Ronaldus Suykerbuyk, Jacques Toullieux, Antonio Vergara-Fernandez.

SCT in RR57 and UJ56

UPS and AUG Test

A problem was detected during this test: the 13 kA switch opened during the AUG test. Investigations are on going.

13 kA Energy Extraction Test

The test was successfully performed, apart a cable reversion. An intervention of TS/EL has to be foreseen.

New Sequencer Test

The new sequencer was successfully tested. It could be operational for the next Short Circuit Test.

Polarity Test

The tests have been completed this morning.

AOB

Some additional tests on the 600 A EE will be performed this afternoon, due to some abnormal voltage signals recorded during previous tests.

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
11.12	10am: 24-h heat run DONE
13.12	9.00: UPS test and Electric cut (AUG simulation) DONE
14.12	13kA energy extraction test DONE
14.12	Afternoon: Polarity Test_1st part DONE
15.12	Polarity Test_2nd part DONE
15.12	14.00: New sequencer test DONE

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 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



SCT in UA67 and UJ67

N.B.: All installations works needed for Short Circuit Test should be completed by the end of this week, Dec 22.

➤ Safety:

- Electrical installation has been validated by SC-SG.
- The fire detection system has been approved by SC-GS.

- AC cabling: following the installation reception, the 'mise sous tension' has been started.
 - ERD rack was tested and the 'mise sous tension' will be done on the first day of the SCT.
 - EOD rack: the 'mise sous tension' will be done by tomorrow, Dec 19.

- DC cables:
 - The connection of the cable extremities on DQS, depending on the anti-noise barrier, has not yet been finished.
 - The HV test without water has been already done.
 - The HV test with circulating water will be done on Tue, 19. It is agreed that Flohe won't leave CERN before validation of hydraulic and electrical tests.
 - Water-cooled cables: some supports have to be placed to respect the curvature of the cables.

- Power converters:
 - PC modules have been completely installed.
 - PC alimentation has been completed, but the "mise sous tension" is foreseen for beginning of next year.

- Cooling and Ventilation:
 - The installation of the flexible hoses has been completed.
 - The water circulation should be done today.
 - The Elettas calibration will be done between today and tomorrow.
 - The ventilation station will be operative by the end of the week.

- WIFI:
 - CYNETO1 and CYNETO2 have to be powered for the operation of the WIFI.

- WorldFIP:
 - Cabling for PO will be completed probably by Wednesday, 20, after some corrections by TS/EL (i.e. at TAPs level).
 - QPS segment has been completed and R. Denz can start the connection on his racks.

- Energy Extraction:
 - The light installation and the equi-potential connection on DQS have been completed.
 - Roese will test the cooling station for DQR on Jan, 8.
 - The 6 PL2LC cables on the DQS have been installed.
 - The DYPE racks have been tested.
 - Anti-noise barrier has been installed.
 - An electrical protection IP2 will be installed on LEMs this week.

- Cleaning:
 - Further cleaning is needed, especially closed and above the DQS.

Open Issues

- 18.12 ERD rack powering
- 18.12 EOD rack powering
- 18.12 Connection of cable extremities on DQS
- 18.12 HV test with circulating water
- 18.12 Water-cooled cables supports
- 18.12 PC powering
- 18.12 Water circulation
- 18.12 Elettas calibration
- 18.12 Ventilation station
- 18.12 CYNET01 and CYNET02 powering
- 18.12 WorldFip cabling for PO
- 18.12 Cooling station test by Roese
- 18.12 Electrical protection IP2 on LEMs
- 18.12 Cleaning of the areas



**Next RAT meeting,
Thursday December 21
8:30 at Point 6.**

Mirko