

RAT in P4 - *Status of Sector 45* - Preparation of Cool-Down

HARDWARE COMMISSIONING COORDINATION - WEEK 45

9th November 2007, POINT 4 (2485 2-001 SX4)

Present: B. Bellesia, I. Brunner, K. Dahlerup-Petersen, R. Flora, P. Maesen, A. Perin, R. Schmidt, M.Solfaroli, A. Suraci, U. Wagner.

Next meeting: Wednesday 14th in CCC, 8:30

General news:

W46:Thursday 15th: Power cut - from 7:00 to 7:15 - the power cut will not influence the activities in the arc!

W46:Thursday 15th: CCC re-initialization - at 11:00-11:30

W46:Friday 16th: RP test (morning): RA43 - RA47 accessible.

W46:Friday 16th: RF interlock test (afternoon): RA43 - RA47 not accessible.

W47:Monday 19th: ELQA on LSSs

RP training course for Cryo + RF + HCC - (Doris F.):

- Doris will give a short RP introduction in POINT 4 (2485 2-001 SX4) to aware people about the safety aspect put in place for the RF tests, two sessions (Max 20p each):
 - Wednesday (21/11/07) at 10:00;
 - Wednesday (21/11/07) at 14:00
- *Lists of people are expected to be provided to Doris F. by the concerned team coordinators by the end of the week.*

Cooldown and Preparation for Powering

Cryo (U. Wagner):

- Cooldown ongoing
 - Cool down and pumping on line B
 - Filling of the magnets programmed for the beginning of this week
 - Starting of the cold compressor from Wednesday onwards
 - RF 100 kW heater is being commissioned

DFBs Commissioning (A. Perin)

- Today, 12.11, interference problem with Cryo-instrumentation: Antonio S. needed to disconnect all the instrumentation cables of all the DFBs for a general test/ DFBs commissioning had to be stopped. Tomorrow, 13.11 will be re-started.
- Order and progress in the commissioning can be found in: \\cern.ch\dfs\Users\a\aperin\Public\Commissioning\Sector 4-5 Sector 4-5 DFB comm.xls (Antonio P.'s Public)

DFBs:

- *Current leads heater problems (Pascal C./P. Denis):*
 - DFBAI:

- DFLCS.01: Le problème ne vient pas du chauffage. Comportement et débit A CONTROLER.
 - DFBLD:
 - DFLCS.09 Pas de problème de chauffage, mais tête de l'amenée froide (débit trop important?)
 - DFBLD, DFLFS.01: Pas de problème de chauffage, T° réelle ok, régulation ok problème de lecture de la température de l'amenée à la salle cryo (la T° visualisée en salle de contrôle est plus froide que la T° réelle). A CONTROLER : vérification des signaux sur l'amenée -> enlever le système air sec; pour lundi matin.
- *Clamp Installation/galvanic insulation (R. Mompou):* Done - still to be clamped the cable of RQ6 with the leak. To be done tomorrow 13.11
- *13kA Water cooled cable swapping in RR53 (TS-EL):* on Thursday 15th Nov: Meeting in Point 5 on 14.11 at 14:00 to verify cinsugnation.
- *Cable protection in UA/RA47* on Thursdays 15th - Friday 16th (TS-EL):
 - Thursday and Friday morning work in the RA47
 - Friday Afternoon in UA47 (access to RA not possible - RF tests)
- *Water leak in RQ6.R4 (S. Atieh):* ongoing - finished for tomorrow 12.11

DFB cryo instrumentation cables (A. Suraci):

- Started Today 12.11: (continuity and HV)
-

ELQA system setup (V. Chreyre): delayed to next week before the ELQA at cold

QPS (R. Denz) - EE (Knud): ready for IST

PIC (A. Castaneda, I. Romera): ready for IST

Sequencer test (M/ Zerlauth/D. Nisbet/A. Vergara)

- The test will be performed on the converter in the UA83. PC terminal short circuited.

Installation activities:

- BGI installation in 4R from Monday 12th - M. Jimenez
- Bake-out, jackets installation in 5L in the collimator proximities.

Access during RF test - Conclusions of the meetings of Wednesday 8th and Friday 10th:

- **Access and zone definitions:**
 - UX45 will be declared as a supervised radiation area (<3 μ Sv/hr)
 - To access the UX45 a personal dosimeter will be mandatory
 - The access to the zone is possible trough the two doors, YCPS03=US450, YCPS04=US450, linking US-UX and the lift in PZ45.

- The RF interlocked SAS in UX45 will be accessible only by RF people, a list will be provide to Access team. RF will provide the list.
 - Signalization of supervised radiation area will be put in place by RP team on the two doors, YCPS03=US450, YCPS04=US450 and on the door linking the PZ to the UX (YCPS03=UX450).
 - Warnings at the surface level of PZ45 will be put in place by RP team. (this avoids to classify the PZ45 as a supervised radiation area)
 - **UA43-UA47-US45-UW45 will be defined as non designed zones. ($\leq 0.5\mu\text{Sv/hr}$)**
 - Arcs: the RF trigger radiation level at the extremities of the RF interlocked zone will be set at $0.5\mu\text{Sv/h}$ in order to declare the arc as non designed zone (RP will substitute the actual sensors with more sensible), then:
 - Arc34 from point3 up to the DFBAK will be defined as non designed zones.
 - Arc45 from the DFBAK up to Point5 will be defined as non designed zones.
 - *Barriers 2m high will be installed on the last floor of the UX45 by TS-IC in order to avoid the access to the roof of the RB part where the cavities are hosted. (Action S. Weisz)*
- **Personnel protection and training:**
 - Network of reference people: RP (Isabelle B.), RF (Pierre M.), Cryo (Udo W.-Jean-Paul L.), HCC (Boris B. Matteo S.).

Open Issues sector45

12.11.07	Cable connection on going/DFBs cooldown...
12.11.07	Few problem on Cuurent leads heaters
12.11.07	LEM installation on RU.R4 circuit
07.11.07	Water leak in a water cooled cable of RQ6
08.10.07	EE water cooled cables swapped on DFBAI.

Closed Issues sector45

12.11.07	NC on the cabling of the undulator (num 851156). TS-EL
----------	--