

RAT Réunion Avancement Travaux **Beam Dump System**

HARDWARE COMMISSIONING COORDINATION

May 8, 2007, 10:00 - Point 6

Present: O.Aberle, C.Bal, B.Bellesia, C.Bertone, E.Carlier, F.Castronuovo, C.Fernandez Robles, P.Fessia, B.Goddard, D.Grenier, S.Grillot, B.Henrist, J.Mazet, S.Pelletier, B.Pinget, M.Pojer, J.P.Tock, C.Vollinger.

PLANNED INTERVENTIONS IN THE AREA

- DFBK/L and corresponding proximity equipment are already installed.
- Dump Core transportation on w.26; transportation of Dump Core-Dump Line connection on w.24.
- Test of MSD foreseen for w.30; installation of pumps between MSDs will be completed by w.20.
- The bake-out of the whole MKDs-to-MKDs sector will be completed by w28.
- A cabling campaign (including fire detection system) is foreseen for w16 to w19. No interferences have been pointed out during the inspection visit of AB/BT, TS/EL and TS/HDO.
- A water maintenance intervention has been scheduled for the w18 to w20 (demineralised water, cryogenic services and iced water will be affected).
- Cool-down of sector 5-6 for mid August.
- Cool-down of sector 6-7 for mid October.

INSTALLATION STATUS

- ~~Some junction modules between MKDs in RA67, which are presently missing, will be installed on w.17; installation of jackets for bake-out will start right after.~~ The bake-out will be completed by w.20. **[action J.M. Jimenez]** The installation of the magnets will begin after jackets removal.
- The installation of MKD magnets in RA63 has been completed and the cables connected. Grounding of the tables is missing.
- The beam dump line in RA63 will be completed (mounting and alignment) in w.18 an 19; the last part close to the MKDs will be installed after the magnet installation: three days will be needed. **[action B. Henrist]**
- The second beam line in front of the MKDs in RA63 shall be installed after the *Low Level Control Tests HV* (w.25). **[action J.M. Jimenez]**
- Power distribution for MKB controller in UA67: the reception report has been issued by Norisko. Few modifications are requested, most of which require the *deconsignation* from TS/EL. **[action AB/BT & TS/EL]**

- The assembly of the missing distribution racks is the following:
 - for MKBs in UA63, it is already completed;
 - for MKDs in UA63, the assembly of the rack will finish by the end of w.17 and the installation will start right after;
 - for MKDs in UA67, the assembly will be carried out starting from w.18, after completion of the previous ones.
- ~~According to the previous point, the reception of the racks in UA63 has been fixed for second half of w.18 [action AB/BT & SC/GS]. (“note de calcul” to be sent to Norisko!!! [action A. Antoine])~~ The reception has been already carried out and the report sent. The connection of the cables to the PDC has been done by TS/EL. The de-condemnation of the racks will be done at the beginning of w.20.
- ~~Optical fibres for pulsing: only the part on surface is missing [action K. Loukili — TS/EL]. The communication problems detected between UA63 and UA67 are still under investigation [action TS/EL and AB/BT].~~
- BPM installation: BPMSD are already available and will be installed after completion of the vacuum line. BCTFD will be as well installed after completion of the beam dump line. **[AB/BI]**
- The TCSG will be installed at the end of w.19. **[AB/ABP]**
- Vacuum pipe on Q4: a verification of alignment to the beam dump line will be carried on after installation of the chamber with a laser tracker.
- Mismatch between the TCDS and the last MSD on each side: a solution has been proposed, which considers the use of standard bellows plus a transition part. A proposition will be made by A. Rossi.

TEST ACTIVITY

- The *Low-level control tests_comm* have been completed for MKD63/MKB67.

SAFETY

- In accordance with J. Etheridge and under the suggestion of S. Grillot, a new solution has been decided for the safety measures to be put in place around the equipment under test:
 - 2-m-high metallic nets are put around the magnets and flashing lights and advertising panels are attached to them;
 - chains and advertising panels are put close to the racks powering the magnets.

Open Issues

10.04	Installation of BPMSD	AB/BI
10.04	Installation of BCTFD	AB/BI
10.04	Modifications on PDC of MKB-67 requested by Norisko	AB/BT
10.04	Mounting and alignment of beam dump line in RA63	AT/VAC

03.04	Assembly of PDC for MKDs in UA67	AB/BT
20.03	Mismatch between TCDS and MSD	AT/VAC&AB/BT
13.03	Grounding of instrumentation/after <i>deconsignation</i>	AB/BT
27.02	TCS: installation on w.19	
27.02	Vacuum tube between carbon window and TDE (fabrication on going-ready for the end of June)	AB/ATB
27.02	VMTAB bellows are needed for w18	AB/BT
20.02	VAC: bake-out of MKD-6R	AT/VAC
20.02	TDE in UD68 ready for end of June	
20.02	Vacuum pipe on Q4	AT/VAC-AB/BT

Closed Issues

08.05	Installation of MKD magnets in RA63	10.04
08.05	Installation of junction modules between MKDs in RA67	10.04
08.05	Inspection by Norisko on PDC of UA63	03.04
08.05	Assembly of PDC for MKDs in UA63	03.04
08.05	Optical fibers for pulsing	20.02
17.04	VAC: bake-out of MKD-6L	20.02
10.04	Beam dump line in TD62	10.04
10.04	BLMs integration	13.03
10.04	Smoothing of the MSD	10.04
03.04	Assembly of PDC for MKBs in UA63	03.04
27.03	Safety inspection by Norisko on power distr.rack (MKB67)	20.02
27.03	Grounding of instrumentation/before <i>deconsignation</i>	13.03
10.04	Mounting supports for second beam (on drawings) (6L&R)	13.03
27.03	Place for storing MKDs in UX65	20.03
20.03	Grounding of magnets	13.03
13.03	Intermediate bellows availability	27.02
13.03	Interference between vacuum support and MKD	27.02
27.02	Space in UJ62 and UJ67 for installation of spare TDE (and transport equipment) – late installation of that part of dump line	20.02

Completed tests

➤ *Low-level control tests_comm:*

- AS-I test: security monitor programming done for MKD and MKB.
- MPI networks are working for MKDs and MKBs in UA63.
- For PROFIBUS-DP in UA63, the network connection of the generators for the MKB is properly working, as well as that for the generators for the MKD.
- All retriggering lines are installed and tested.

**Next meeting:
Tuesday May, 22
10:00 building 2685.**