

**Next meeting:
Tuesday July 17th,
10:00 building 2685.**

July 3, 2007, 10:00 - Point 6

Present: Esther Barbero, Boris Bellesia, Etienne Carlier, Francesco Castronuovo, Carlos Fernandez, Brennan Goddard, Baptiste Lebeau, Jacky Mazet, Gerard Pastor, Mirko Pojer, Jan Uythoven.

PLANNED INTERVENTIONS IN THE AREA

- Control cables of the DFBA's proximity equipments: the length adjustments will be done with a campaign on w28-31 in RA63 and w30-33 for RA67.
- Installation of the roof over MSD platform on w27.
- Test of MSD foreseen for w.28.
- The bake-out of the whole MKDs-to-MKDs sector will be completed by w31. These are the works to be done per vacuum sub-sector:

| Sub-sector | Mechanical Installation | Bake-out |
|------------|-------------------------|----------|
| ABC5L6 | w28 | w29 |
| A4L6 | w23-w25 | w27 |
| IP6 | w23-w27 | w31 |
| A4R6 | w23-w27 | w28 |
| ABC5R6 | w25 | w26 |

- Second beam for MKDs67: bake-out on ~~w26-27~~; DELAYED, due to support-cover interference;
- Beam line below MKBs67: ~~installation of jackets for bake-out on w26~~ COMPLETED on w.27 (bake-out during tests);
- Second beam for MKDs63: installation during cabling campaign (w29-30); bake-out on w31; AFTER solution of support-cover interference problem;
- Beam line below MKBs63: before w29.
- Cabling campaign: a VIC is fixed for the 17th afternoon for additional cables pulling.
- Water cooled cables positioning: RA63 w24-w26 & RA67 w26-w28.
- Fire detection system installation in UD68 on w.25.

- Cool-down of sector 5-6 for the beginning of October.
- Cool-down of sector 6-7 for the end of October.

INSTALLATION STATUS

- The MKD67 system is all connected and ready for power tests. A final inspection by Norisko has to be planned after de-condamnation by TS-EL (foreseen for w.33).
- The beam dump line in RA63 has to be completed (mounting and alignment) **[action B. Henrist]**. A non-conformity for an electrical distribution box, which is behind the dump line, has been found. The vacuum installation for the two beam lines will end this week, and will restart at the end of August.
- Status of UDs:
 - in UD62 the window, the connection line, the Dump and the concrete block are already installed but not connected, because of the installation of BLMs on w.29;
 - ~~in UD68 the Dump core will be transported on Wednesday June,26; the connection line will be transported and installed on w.27; all pieces already in place;~~
 - the two spare cores are presently under fabrication and will be installed in the caverns at the end of September.
- 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]**
- 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.
- The TCDQs are connected and movement tests can begin next week - to check if the dump lines above the TCDQ are already aligned, because the clearances are very small.
- The MKB and FBCT need realigning by up to 8 mm (see ECR currently under approval – EDMS n.849665) - status to check and this item to be added in the planning **[Action Katy]**.

TEST ACTIVITY

- IMPORTANT: the PDC racks need to be condemned at the end of w.28, due to the cabling campaign of the following week.
- A measurement of interference with the converters has to be organised **[H. Thiesen]**, as well as with the QPS system **[R. Denz]**.
- Current leaks have been measured and resulted conform.

- The tests are now in the phase of calibration and synchronization of the system.
- Testing of the MKD63 system will soon require the generators being left under voltage for many hours without experts present in the UAs - before this can take place a first reception visit from Norisko may be needed **[action Mirko/Etienne]**.
- All 15 MKD63 kickers have been individually commissioned to full strength and were pulsed together for the first time last week. The details of the beam 1 tests will be sorted out by BT, in view of present progress and the lessons learnt so far. The commissioning is now focusing on the synchronisation. One generator is suspect and needs further investigation.
- The dump action is accompanied by a noise measured at 88 db in the tunnel - Katy will request an official measurement to see if this presents any environmental health issues which might need to be addressed **[action Katy]**.

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

| | | |
|-------|--|--------------|
| 03.07 | Interference between supports and MKDs' covers | |
| 26.06 | Final inspection by Norisko planned after de-condamnation | |
| 26.06 | Check if the dump lines above the TCDQ are already aligned (clearances are very small) | |
| 26.06 | Realigning of MKB and FBCT up to 8 mm | |
| 26.06 | Measurement of the noise during Dump action | |
| 10.04 | Installation of BPMSD | AB/BI |
| 10.04 | Installation of BCTFD | AB/BI |
| 10.04 | Mounting and alignment of beam dump line in RA63 | AT/VAC |
| 20.03 | Mismatch between TCDS and MSD | AT/VAC&AB/BT |
| 27.02 | Vacuum tube between carbon window and TDE (fabrication on going-ready for the end of June) | AB/ATB |
| 20.02 | TDE in UD68 ready for end of June | |
| 20.02 | Vacuum pipe on Q4 | AT/VAC-AB/BT |

Closed Issues

| | | |
|-------|--|-------|
| 05.06 | Grounding of instrumentation/after <i>deconsignation</i> | 13.03 |
| 05.06 | Assembly of PDC for MKDs in UA67 | 03.04 |
| 05.06 | Modifications on PDC of MKB-67 requested by Norisko | 10.04 |
| 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 |
| 27.02 | TCS: installation on w.19 | |
| 20.02 | VAC: bake-out of MKD-6R | 11.05 |