

# Minutes of the 3rd FOM meeting held on 07.04.2009

## Agenda:

- 1) Follow-up of the last meeting (K. Hanke)
- 2) Status of the machines (Supervisors)
- 3) Schedule (K. Hanke)
- 4) AOB

## 1. Follow-up of the last meeting

Nothing special.

## 2. Status of the machines

**Linac2** (D. KUCHLER): Nothing special on the operational point of view. For the work ongoing on the LINAC4, D. KUCHLER pointed out that in case of access in the ventilation room: a) the LINAC supervisor has to be informed; b) the fire brigade has to be informed since they have the key for the access. The new access procedure, changed since the last FOM, can be found at this link <https://edms.cern.ch/document/984989>.

**PSB** (K. HANKE): Tuesday at about lunchtime, the setting up started after the issue with the vacuum controls cards had been solved that had resulted in a false external condition blocking beams being sent to the PSB since Monday. Quickly afterwards the ISOLDE beam intensity reached about  $3000e10$ . During the week, the vacuum valves suddenly closed and their status was declared as unknown. The vacuum piquet could solve the problem. The BI4.QNO40 tripped several times and the piquet had to intervene. The C04 cavity air-cooling needed repair by the specialist. The BT.BVT20 tripped several times and the power converter was replaced by its spare. The debugging of the new wire scanner system has started. The scanners seem to work whereas the new application is not yet operative. The beams currently produced are: ISOLDE beams, SFTPRO, EAST beams, TSTPS and work has started on CNGS, AD, LHCPILOT. The start-up has been pretty good so far.

**ISOLDE** (D. VOULOT): The setting-up of both separators has started. On HRS, stable beam has been produced and now work is ongoing on ISOCOOL. The problem with the valves has been fixed whereas the issue with the RF amplifiers is still under investigation. The current solution is to switch to the old amplifiers. The problem with the scanner after the RFQ is not solved yet. This device is fundamental for the setting-up. BI and RP are following-up the repair. The RFQ cooler controls are not working correctly and CO is trying to find a solution. The Be run has to be cancelled due to the different delays. However, as K. Hanke pointed out, this was a run granted only in case there were no problems during the start-up, since the period of physics at ISOLDE is not yet started.

**ISOLDE users:** No news from the users.

**PS (R. STEERENBERG):** On Monday the work on the fencing on top of the inflector zone has been consolidated. The patrol was done and beam could be injected into the PSB. The PS cold-check out started on Monday last week. The issues found with OASIS could be solved during the week. The problem with the power converters of the low-energy equipments could be solved by PO. Tests with the new MPS regulation continued and on Wednesday it has been decided to continue with the new regulation. All the magnetic cycles are going to be re-programmed for the new regulation. On Friday, the patrol was done in TT2. The road Goward barrier has been closed before injecting the first beam. Due to the work ongoing in the center of the ring for the new main power converter (POPS), the maximum intensity that can be injected is limited to  $200e10$  per pulse. This could be increased, but only if the radiation levels at the road is kept below  $2.5 \mu\text{Sv/h}$ . This restriction is due to the fact that the current POPS contractors are not equipped with dosimeters, which are required to cross the road Goward bridge with beam in the machine (Supervised Area). This will continue for the next two weeks and a half, when new CERN contractors will arrive.

Beam was injected on Friday, but it could not properly be extracted to TT2 since two quadrupoles were not pulsing correctly at  $26 \text{ GeV/c}$ . During the weekend, a low intensity h8 beam has been prepared. The orbit measurement and tune measurement worked since the beginning. K. Hanke wanted to stress the excellent support during the start-up from the CO, BI and equipment groups.

R. Steerenberg pointed out that the first injection was done 4 days in advance with respect to the official schedule.

S. Hancock added that the restriction to the maximum beam intensity is a problem for the setting up of the RF, which needs at least twice the  $200e10$  mentioned. M. Witorski will check if the intensity can be raised without passing the radiation limit at the road Goward.

**East Area (L. GATIGNON):** Nothing to report.

**East Area Users (H. BREUKER):** No users yet.

**AD (T. ERIKSSON):** Nothing to report.

**AD users (H. BREUKER):** No users yet.

**SPS (K. CORNELIS):** The SPS cold check-out is progressing. The HW commissioning started by testing the power converters of the main bendings. This continues with the power converter tests of the main quadrupoles. The transfer lines and the extraction power converters are also under tests. Work on TT40 (CNGS) is ongoing. The work on the cables in BA2 is almost finished. Everything seems to be on schedule such that the beam could be injected the 23rd of April.

**CNGS:** No news.

**SPS North Area (L. GATIGNON):** DSO tests will be done in the last week of April.

**North Area User (H. BREUKER):** No news.

**LINAC3 (D. KUCHLER):** No news

**LEIR:** No news.

**CTF3 (D. MANGLUNKI):** In week 12, triggering problems were solved by CO.

During last week, there was a problem with the MKS30 for CALIFES. In addition the water station and one of the water interlocks had to be bypassed. One of the klystrons (MKS03) had frequent trips and probably an intervention on the tank is required. Since the experts are currently not available, it has been decided to postpone the intervention until the following week. Another worry concerns MKD02 which powers the RF deflector for the injection in the delay loop. The power amplifier is out of service and there is no spare available, but a new one is under construction. There was also a problem with the MKF15 phase shifter.

CTF3 is supervised during the nights and during the EASTER long weekend by the PS crew from the CCC.

During the last night, all OASIS signals were disconnected for an unknown reason. CO will follow this up.

The control room is now under controlled access and needs the same access right CTF-KG as the klystron gallery.

C.-H. Sicard pointed out that a change in the access rights should be advertised well in advance, since CO experts could not access their equipments due to this change.

D.Manglunki replied that the klystron gallery had always needed CTF-KG, but it was a problem with access database which caused several people to lose their access rights.

S. Gilardoni pointed out that the FOM mailing list could be used to spread this kind of information, since everyone inscribed in the list has the right to send an email to the mailing list.

TI: Nothing special to add.

### **3. Schedule / supercycle / MD planning**

The 2009 schedule (V3.3) is available at:

<https://espace.cern.ch/be-dep/BEDepartmentalDocuments/BE/Schedule2009.pdf>

During the long EASTER weekend the piquet services will be available.

K. Hanke pointed out that ISOLDE will not have beam on Thursday next week since the PS will be in access for the magnet alignment. E. Siesling mentioned the program for ISOLDE: on Wednesday, GPS will be cooled down after which the SEMGRID target will be installed on Thursday. GPS will start to set up the line to be prepared for protons for Tuesday next week. On Wednesday next week, operation will move the SEMgrid to HRS, while on GPS a test target will be mounted. Tests on both HRS and GPS will continue until the 21<sup>st</sup> of April. ISOLDE will start the physics period on the 21<sup>st</sup> of April.

### **4. AOB – Special topics**

### **5. Next meeting**

The next meeting will be held on Tuesday, April 14th at 10:00 in 874-1-011.

Preliminary agenda:

- Follow-up of the last meeting
- Status of the machines
- Schedule
- MD schedule (E. Metral)