

Minutes of the 2nd FOM meeting held on 31.03.2009

Agenda:

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

K. Hanke pointed out that FOM will be held, from now on, regularly every week until the end of the run.

1. Follow-up of the last meeting

R. Steerenberg said that the humidifier of the PS reference magnet room repairing is ongoing. The humidifier will be ready in case of need.

2. Status of the machines

Linac2 (G. BELLODI): The LINAC start-up suffered from CO related problems. The transformer working sets were not available and the VISTAR was not available. Both issues were solved by BI and CO. The patrol, the safety tests and the RP survey were done on Tuesday of week 12. Then the LINAC was ready for beam. On Wednesday, the Watchdog tests showed that one of the transformer limits was not set correctly. The first solution, i.e. rebooting the watchdog, was not possible because no reboot was available in DIAMOND. Once this was fixed, RP took radiation measurements at the PAX22 to monitor the radiation level near the LINAC4 working area. On Friday, the polarity of the vertical spectrometer magnet (BVT10) on the longitudinal emittance line was reversed. This was due to a wrong polarity of the BVT10. On week 13, one of the BLMs was not working correctly. Its photomultiplier has been changed. Actually, one BLM is mounted on Tank3 and one BLM per quadrupole in the LT line.

The Laser console was showing old and false alarms, as the alarm monitor would not start in order to clear them. CO have fixed the problem but wish to review how the monitor works.

A problem with the PLC control of the RF caused some problems. With beam, the RF power was not correctly stabilized, causing the large beam loading. In this case the tail clipper was acting but the source was not correctly cut.

By Friday of week 13, all the safety elements were ready to send the beam to the PSB and to allow the OP patrol.

On Friday M. Ludwig released dlintraf with RDA2.8. The reboot was made on Monday and the watchdog retested. The source is delivering about 300 mA, with 160 mA at the end of the LINAC.

G. Bellodi wanted to stress again that in case of an access in the LINAC, the supervisor has to be informed before the access and the special procedure, available at

<https://edms.cern.ch/document/984989>, should be followed.

The procedure has been updated since the last FOM.

PSB (K. HANKE): The PSB patrol was done on Friday. The start-up with beam was foreseen for Monday (30 March), but this was not possible due to two problems: a) the fencing on top of the PS tunnel, changed due to the LINAC4 civil work, was not conform to the safety rules and the DSO did not give the green light to have beam in the PS inflector zone; b) the vacuum valves were shown closed by the control system whereas they were open. This condition, taken by the interlock system, prevents the beam injection.

The problem of the PS fencing was solved by Monday afternoon. The fence has been moved and radiation panels have been installed.

S. Maury commented about the civil engineering work ongoing for the LINAC4 (plan of the area available [here](#)). The protection from radiation produced by the LINAC2 has been improved by adding a concrete shielding between the two tunnels. M. Widorski added that the operation of the high intensity beams in the PS is compatible with the LINAC4 civil works, since typically the losses at the PS extraction increase the radiation levels in the LINAC3 tunnel but not further away. In any case, there are in total 5 radiation monitors in the zone to survey the radiation levels, which are not expected to increase with respect to last year. S. Gilardoni asked if the thresholds of the radiation alarms have been changed. M. Widorski replied that the thresholds are unchanged with respect to last year.

I. Laugier commented about the problem related to the vacuum valve controls. The false status of the valves is generated by a bug in the software of the control cards. The modification of the software will be done before the end of the day and then it will be applied also to the TT2 and the LINAC.

Apart from these two major problems there has been a CO problem with the POW-V class which could be solved by E. Roux and with the control of the MTVs which is being worked on by BI.

ISOLDE (D. VOULOT): The patrol and the safety tests were done on Monday of week 13. Then the tests with stable beam started with the HRS separator. GPS is not ready yet since HW intervention is needed to fix the GPS front-end. In any case, the first proton beam is foreseen for the 14th of April. K. Hanke asked if the RF for REX is ready. D. Voulot replied that the low energy part is already been tested, whereas the high energy will be done by the end of the week. Currently everything is on schedule, with first REX run foreseen for the 20th of April.

ISOLDE users (A. HERLERT): Users are preparing for an off-line run. D. Voulot said that the only remaining problem for this run is related to the RFQ. The integration of the vacuum controls should be finished soon and everything should be ready by the end of week 15.

G. Vandoni added that no vacuum piquet service is foreseen for this year for ISOLDE. The interventions will be done on a “best –effort” basis.

PS (R. STEERENBERG): The PS patrol was done on Friday, with the problem related to the fence on top of the deflector zone mentioned by K. Hanke. G. Metral is now coordinating the cold checkout. The PO group is testing the new MPS regulation, with the goal of substituting the old one directly at start-up. TT2 works are ongoing, but should be finished by Friday for the patrol. The hope is to be able to finish the cold checkout work by Friday, to collect all the necessary agreements to have beam in the machine before the weekend. The only potential problem is the vacuum controls mentioned for the PSB. S. Gilardoni mentioned that the connection work of the TWB-PU00 should be finished as soon as possible. U. Raich will follow this.

East Area (L. GATIGNON): The closing of the East Area primary zone will start next week.

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

AD (T. ERIKSSON): The shutdown work is progressing, in particular in the target area for the reassembly of the horn and the target. The safety commission noticed during a visit that the storage of the material in the experimental area must be improved. Users will take care of the cleaning.

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

SPS (K. CORNELIS): The SPS has been closed and the patrol was done on Monday. The commissioning of the power stations started. A problem appeared for the cable loop. This will require an intervention in the tunnel, but for the moment the power tests will continue.

CNGS: No news.

SPS North Area (L. GATIGNON): No news.

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

LINAC3 (D. KUCHLER): The shutdown work will start by the end of April.

LEIR: No news.

CTF3: No news.

TI (P. SOLLANDER): 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>

Beam in the PSB will be available as soon as the vacuum valve control problem will be solved. The goal is to be ready to deliver beam to the PS by Friday. The PS will officially start with beam on week 15th and ISOLDE after Easter.

Concerning the MD planning, one day might be added to the first block of three days on week 25. E. Metral added that this extra day could be used to set up the cycle for the crystal collimation experiment (UA9). The change in the schedule is still under discussion. E. Metral will give a presentation about the MD schedule the 14th of April.

M. Widorski asked if the PS will start with beam on Friday. R. Steerenberg replied that this is a possibility, but it depends on the cold checkout results. The goal is to have the machine ready for beam by Friday, but this does not imply that the beam will be injected.

4. AOB – Special topics

S. Gilardoni added that the new FOM web page is available at

<https://espace.cern.ch/be-dep/FOM/default.aspx>

The ABOC web page will not be updated anymore.

5. Next meeting

The next meeting will be held on Tuesday, April 7th at 10:00 in 874-1-011.

Preliminary agenda:

- Follow-up of the last meeting
- Status of the machines
- Schedule