

Minutes of the 45th FOM meeting held on 06.12.2011

Agenda:

- 1) Follow-up of the last meeting (K. Hanke)
- 2) Status of the machines
- 3) Schedule (K. Hanke)
- 4) Comments on detailed start-up schedule of the PS complex (K. Hanke for F. Chapuis)
- 5) Final list of piquets available during the technical stop (B. Salvant)
- 6) AOB
- 7) Next agenda

1 Follow-up of the last meeting

The minutes of the 44th FOM meeting were approved.

Follow-up from the last FOM:

Pending actions:

Status of the PS-Bfield fluctuation with POPS

A coil was installed to measure the Bfield, and thermal load on PFW will also be measured. Action not closed and carried over to next year.

2 Status of the machines

IONS

LINAC3 (M. O'Neil):

On Wednesday the source RF tripped twice along with the extraction solenoid. No trip happened since.

On Thursday and Friday, there were buncher instabilities that reduced the beam transmission to less than 50%. A coax cable was replaced and it has worked since.

On Saturday, the source gas regulation was lost following a penning pressure gauge controller fault and shutdown. It was restarted with a new working point.

The recovery after the power glitch on Monday was quick, but there were small InCA controls problems with the quadrupoles. It was fixed by the piquet CO.

M. O'Neil said the Linac3 operation relies on BCT readings and that installing new hardware should not be done during the run. L. Soby acknowledged and mentioned it was a communication problem.

LEIR (S. Pasinelli)

On Friday afternoon, a pickup rack was found OFF, which led to losing the beam at capture. The pickup specialist has no idea why the racks had been switched OFF.

There is a problem with the pickup in the ETL/ETP lines. The signals on OASIS are missing.

Restarting the electron cooler after the glitch took 3h.

PS (A. Grudiev)

It was a smooth week.

The amplifier in C76 10 MHz cavity was replaced. This caused 1h downtime.

A POPS fault caused 1h downtime.

Working sets have been very slow this week. A. Bland was not aware and took note. G. Metral said that the reason may have been found.

SPS (Y. Papaphilippou for K. Cornelis)

It was a good week.

On Tuesday, the energy was changed from 200 GeV to 106.5 GeV (proton equivalent) upon NA61 request.

LHC complained about satellite bunches, and the PS 80 MHz phase was corrected by the PS. After the meeting S. Hancock sent the following message on this topic:

“

There has been much talk about unwanted ion satellites and, yes, there was a problem for a while in the PS due to an erroneous radial steering at transition. However, what has been forgotten is that the intermediate ion beam imposes a higher demand on the cooling in LEIR because there is no splitting in the PS. That extra demand is not always met and for some time now the longitudinal emittance budget in the PS has effectively been negative. Lamentably, this and other good reasons (unquantified issues like IBS on the SPS injection plateau and luminosity lifetime in the LHC) for returning to the nominal ion beam - even just for one fill to make measurements - have been met with derision.

“

An MD to see if the Q20 optics could reduce IBS was not very conclusive.

The expert had to be called for a power supply problem in TI8.

North Area ():

No report.

North Area users (H. Breuker):

NA61 got all the statistics that they need and switched back to higher energy. They will then switch back to 80GeV in primary beam mode.

LHC (M. Lamont)

Apart from power glitches, it ran smoothly, and it has been a very successful ion run.

CTF3 (T. Persson)

T. Persson sent a report for the following week by email:

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We spent the week to continue with the optimization of the factor 8. It was successful and on Wednesday we had a good factor 8 beam. The beam was used to do stability measurements, deceleration measurements in TBL and two beam acceleration in TBTS.

We haven't tried to recover from the power cut since there is another power cut foreseen for tomorrow morning. After that we will try to recover for a few last day of running this year.

“

TI:

No report.

3 Schedule / Supercycle / MD planning

The 2012 schedule (V1.1) is available at:

https://espace.cern.ch/be-dep/BEDepartmentalDocuments/BE/Injector_Schedule_2012.pdf

All planned interventions for the injector complex are available via the on-line agenda:

<https://espace.cern.ch/be-dep/FOM/Lists/Agenda/calendar.aspx>

4 Comments on detailed start-up schedule of the PS complex (K. Hanke for F. Chapuis)

There were no comments.

5 Final list of piquets available during the technical stop (B. Salvant)

B. Salvant presented the list of piquets for the winter stop and the Christmas break ([slide](#))

Contrary to what was initially thought, J. Vollaire said that RP will offer normal piquet during the whole winter stop.

6 AOB

A. Bland said that POPS will be upgraded from servers PVSS 3.6 to 3.8. POPS people are aware. He added that problems are expected when switching to SLC6 for vacuum applications.

R. Brown said that AUG tests are delayed and that the PS will be on a no-break power supply after Christmas. As a consequence, any glitch will cause a trip. There will be limited access due to POPS. The PS tunnel is open for access. R. Steerenberg said that people who want to access need to contact R. Brown (septum and magnet only). A note will be sent out.

Superintendents are now in charge.

7 Next meeting

The next meeting will be held on Tuesday, 14th February 2012 at 10:00 in 874-1-011.

Preliminary Agenda:

- 1) Follow-up of the last meeting
- 2) Are machines ready?
- 3) Schedule
- 4) AOB
- 5) Next agenda

Minutes edited by B. Salvant