

Minutes of the 19th FOM meeting held on 07.06.2011

Agenda:

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

1 Follow-up of the last meeting

V. Prieto commented that the small inspection stops she requested at the last FOM were not only for SPS but for all machines over which the magnet group has responsibility.

The minutes of the 19th FOM meeting were approved.

Follow-up from the last FOM:

Pending actions:

Problems with POPS (3 actions)

Studies will be resumed when POPS is back. Actions not closed.

Identify someone to comment the Major Event Reports for the SPS and LHC

People have been nominated. Action closed.

Clarify responsibility for the PS splitter at the IEFEC

K. Hanke will present it at the next IEFEC in 2 weeks and it is on the list. Action not closed.

2 Status of the machines

LINAC2:

LINAC2 colleagues were attending the LINAC4 source review, and A. Lombardi sent the LINAC2 report before the meeting:

“On Wednesday June 1st, the tube for the Frank James amplifier of DTL tank1 has been changed as a preventive measure in view of the long weekend. Change was smooth and the beam was back after 30 min. After the change two discharges happened in tank1, corresponding to two peaks in the vacuum. Possibly it is the discharges that caused the vacuum peak.”

PSB (J. Tan):

It was overall a smooth run for the PSB.

On Wednesday a longitudinal instability occurred on LHC beams. The RF specialist replaced a phase loop amplifier and it has been running well since.

On Thursday there was a water flow problem, and cavities and steerers tripped but it was resettable (BR3.C16, BR4.C16, BT3.DVT40 and BTP.QNO40). Around midnight the ring 3 distributor failed. Two specialists (best effort) came in and replaced a thyristor.

On Sunday, the same cavities and steerers tripped again and the beam was cut for 15 min.

On Monday an InCa MD was performed. It went well, and some bugs were reported. The ring4 distributor had to be reset.

K. Hanke pointed out that the frequent cavity and steerer trips are resettable, but that an underlying problem is suspected. P. Sollander said that no problem was seen on TI side. B. Mikulec and K. Hanke said that RF and CV should investigate on these repeated trips

The beam transfer group was thanked for their intervention at the beginning of the long weekend. J. Borburgh reminded that CERN numbers and private numbers had been provided and that both should be used.

R. Steerenberg asked why there is a kicker piquet service for the SPS and not for the PS. J. Borburgh said that the real experts would not be part of the piquet anyway but he also said that ABT is looking at the best way to help PS and Booster. Compared to the SPS, the equipments are too diverse to be efficient. Knowledge needs to be transferred.

Finally, a wire scanner measurement campaign is followed up with BI.

ISOLDE (P. Fernier):

GPS was stopped this week and target 443 (Tantalum) was installed. Beam is planned to be sent to Solid State Physics experiments today around lunchtime.

HRS ran at 30 kV for REX (Lead). The beam should be available again on Wednesday at 19h and should stop on Friday lunchtime. There is no technical fault to report. Same beam will be sent to ISOLTRAP today.

Both HRS and GPS will run in the same time and a special authorization was granted by RP to reach total beam current of up to 2.5 μ A.

ISOLDE users:

P. Fernier said users were happy.

PS (Y. Papaphilippou):

It was an eventful week for the PS, in particular for the PS RF cavities.

On Wednesday there was a problem with cavity C91 (10 MHz). The spare cavity 11 was used while C91 was repaired.

During all week, there were a lot of resettable faults of cavity 51 (10 MHz). It was thought to be a badly programmed timing.

On Thursday the specialist was called again for a trip of C61 and then also C51.

On Friday, C51 could not be reset and a big fuse needed to be changed by the expert. Despite an intervention during the week end, trips occurred on Monday again and are under investigation.

Other small events occurred:

Upon RP request a radiation test was carried out in the TT2 line in the shadow of an SPS stop discussed at the last FOM.

Wire scanner measurements were performed but some need to be repeated.

A problem occurred with septum 57 and cut beam to EAST on Saturday: the temperature was going down but the interlock remained. It is thought to be a software problem. A temporary fix was put in place and the specialist was informed.

Later that night, magnetic septum 42 could not be reset. The piquet power was called but the septum came back without intervention. The settings are close to the maximum and it actually tripped again yesterday. This is being followed up by the expert.

K. Hanke asked when POPS is planned to be back. R. Steerenberg got an email of J.P. Burnet who indicated that tests started on the test magnets and he would like to switch back to POPS sometime next week (this needs a 2-hour-stop). This will be decided at the FOM next week.

East Area (L. Gatignon):

No particular problems. CLOUD has not started and a user change happened in T9.

East Area Users (H. Breuker)

DIRAC is still fighting with start-up problems (trigger and acquisition).

T9 cryogenic beam loss monitors is to be tested.

CLOUD is basically ready for beam.

TOF (H. Breuker):

TOF is running fine. Users are aware that intensity will be reduced from Thursday onwards.

AD (L. Bojtar):

A problem with a cavity was fixed the next morning. No other faults to report.

AD Users (H. Breuker):

ACE install for the dedicated week end of this month. AEGIS control room is on hold (depending on TT2 radiation measurements).

ASACUSA has a major publication in the pipeline.

ATRAP and ALPHA are going fine.

SPS (K. Cornelis):

The main event is the setting up of the fixed target beam. DSO tests were performed; extraction on TT20 was set up and set-up, continued over the week end.

The week end was good for the SPS.

A kicker fault in 6 caused a stop of 2 hours.

On Monday morning a water leak was found on a QD. Yesterday afternoon, a repair of some spare power supplies was needed.

Last Wednesday a fault was found close to the control room on the 18 kV network.

F. Tarita said they would like to finish for this weekend and he requested another stop. This cannot wait for a technical stop as it is eating up the SPS spares. This intervention should cause an SPS stop of the order of 1 hour. To be arranged with SPS operations (K. Cornelis).

North Area (L. Gatignon)

The North Area should be starting today. Some of the shutdown work was delayed due to the TAX problem. One of the issues was that the access system was delivered rather late. RP tests will be done today. Beam permit is expected by the end of the day. Secondary beams then need to be set up. H4 IRRAD is not completed, and will start later.

North Area users (H. Breuker)

H4: IRRAD is working on the access system.

H6: ALICE has cancelled (they were not ready). No user for H6 until 20 June.

H2 and H8: CALICE.

Physics should start on Thursday morning 8am at the earliest.

CNGS (E. Gschwendtner)

CNGS is running very well.

CTF3 (S. Pasinelli):

Combiner ring operation was perturbed by virtual BPM sampler issues; fixed by CO. On Wednesday the recombined beam was ejected at 16A and setting of the TL2 was done.

TI (P. Sollander):

Nothing to add.

LHC interface with injectors (M. Lamont):

LHC is steady at 1100 bunches. LHC starts seeing intensity effects, and more UFOs. Otherwise it has been a smooth run for LHC.

3 Schedule / Supercycle / MD planning

The 2011 schedule (V3.0) is available at:

https://espace.cern.ch/be-dep/BEDepartmentalDocuments/BE/injector_schedule.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>

The planning for the upcoming MD is available at

<https://ab-mgt-md-users.web.cern.ch/ab-mgt-md-users/2011/>

4 AOB

D. Mc Farlane asked whether it was time to launch the call for interventions for the technical stop.

LEIR will be “de-consigned” for water flow rate tests.

R. Brown asked if we should not discuss the heavy work for the TT2 shielding. This issue will be discussed at the IEFM rather than at the FOM.

5 Next meeting

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

Preliminary Agenda:

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Minutes edited by B. Salvant