

Monday 23 Nov

- **08:00** Stop of fixed target beams in all injectors, end of the non-LHC physics program

Monday 23 Nov 08:00 – Wednesday 16 Dec 24:00

- LHC commissioning; early and multi-bunch LHC beams in the injectors.
- In addition to the LHC beams, the following beams will continue to be executed:
 - **until Monday 7 Dec 08:00** AD (approved 2 weeks extension)
 - **until Monday 7 Dec 08:00** 1-2 PS EAST cycles for CLOUD (approved 2 week extension)
 - **some days of SFTPRO** (AMS test beam in H8); the dates are **26 November, 1 December, 4 December**. Setting up in the SPS as from the 25 November.
 - **During the whole period** a few TOF and CNGS cycles (MTE setting up) plus beams for parallel MDs in the PSB and PS.

Tuesday 24 Nov

- **12:00** beam stop in all machines, cool-down for RP survey.
- **14:00 – 18:00** RP survey of the SPS ring 30 hours after CNGS & North Area beam stop
- **14:00 – 18:00** RP survey of the PS complex 32 hours after stop of SFTPRO and CNGS beams.
- **14:00 – 18:00** in the shadow of SPS RP survey put SPS TX amplifiers in safe mode before starting the RF heavy maintenance program
- **14:00 – 18:00** in the shadow of SPS RP survey access to LSS4, inspection of Coldex area, for crab cavity project.
- **14:00 – 18:00** in the shadow of SPS RP survey access to LSS5, in 520, for possible installation of a SLAC collimator in addition to the existing one.
- **14:00 – 18:00** in the shadow of RP survey, install patch on Linux consoles and reboot (A.Bland)
- Possible vacuum intervention TI8, t.b.c. by vacuum group if necessary and when exactly

Wednesday 16 Dec

- **24:00** LHC stop and start to put in standby for X-mas; exact time to be confirmed, may be earlier
- **24:00** SPS beam stop; exact time to be confirmed, may be earlier

Thursday 17 Dec

- **00:00 – 06:00** dedicated PS MD (loss studies); beam in Linac2, PSB, PS; exact start time t.b.c., as soon as SPS and LHC stop.
- **06:00** at the latest beams stop in Linac2, PSB, PS.
- **06:00 – 14:00** radiation cool-down, required by RP before PSB/PS access.
- **14:00 -18:00** PSB and PS access (magnet patrol, HV tests, MPS tests); access system must be operational.
- **08:00 – 18:00** Linac 2 interventions (source cathode change, HV cage maintenance)

- **as from XX:XX** LHC radiation survey; exact time t.b.c.
- **08:00 – 18:00** SPS interventions:
 - Magnet patrol of TT lines (1/2 day) and HV test main magnets (1/3 day) in order to select the critical magnets to be repaired/changed during a possible technical stop
- **08:00 – 18:00** Access system maintenance:
 - Maintenance of Linac2 doors (08:00-12:00)
 - Maintenance TT2 D.221(accès) et Booster D.38 – D.39(secours) doors (13 :30 – 17 :00)
 - SPS access system controls (just at surface: turnstiles, surface doors)
- **08:00 – 18:00** legal controls of personal and good lifts of all BAs

Friday 18 Dec

- **08:00 – 18:00** Linac 2 interventions ctd (source cathode change, HV cage maintenance)
 - **as from 08:00** change of PS generator brushes t.b.c. / in case shutdown after X-mas is confirmed, this will move into January.
 - **as from 08:00** PSB access for M.Haase to put cavities in safe state
 - **08:00 – 18:00** Access system maintenance:
 - PS ring D.102(accès) 08h00-10h00
 - Booster D.31(accès) 10h00-12h00
 - PS ring D.121(accès) 13h30-15h00
 - PS ring D.101(accès) and D.111(accès) 15h00-17h00
 - SPS access system controls ctd (just at surface: turnstiles, surface doors)
 - **08:00 – 18:00** legal controls of personal and good lifts of all BAs
 - **08:00 – 18:00** installation of 2 cables for the mobile turbo-pump in sector 34 of the LHC
 - **08:00 – 18:00** installation of temporized system in PZ76
 - **18:00** all machines in safe state for X-mas (all power supplies OFF)
-

Saturday 19 Dec

- **08:00 – 12:00** Access system maintenance:
 - Maintenance of CAMAC chassis 354-R-015 (morning)
 - Maintenance of PS and TT2 doors

Monday 21 Dec

- **08:00 – 18:00** Access system maintenance:
 - Maintenance of PS and TT2 doors
- **08:00 – 18:00** legal controls of personal and good lifts of all BAs

Tuesday 22 Dec

- **08:00 – 18:00** legal controls of personal and good lifts of all BAs

Throughout the X-mas stop

- CV interventions according to their detailed planning (ref S.Deleval)
 - LHC interventions (CV, doors, lifts) according to detailed planning (ref K.Foraz)
-

Monday 04 Jan

(A) In case of rapid re-start of the machines:

- **08:00 – 12:00** “Patrouilles” of Linac2, Booster, PS, TT2; depending on availability of operators, may partly slide into Tuesday.
- **12:00 – 14:00** DSO tests Linac2/Booster (after patrouilles)
- **08:00 – 10:00** LPS complex tunnel inspection (after CV intervention).
- **as from 08:00** Linac 2 interventions:
 - setting of spare LTB.BHZ30 “fourchettes”
 - adjustment of quadrupole water flow

Tuesday 05 Jan

- **08:00 – 12:00** DSO tests PS/TT2 (after patrouilles)

Wednesday 06 Jan

- **08:00 – 12:00** DSO tests SPS (after patrouilles)

(B) in case of LHC technical stop: maintenance work according to EN/MEF planning