PS Hardware Commissioning

Many thanks to: Fernando, Patrick, Mike, Antoine, Thierry, Pieter, Alvaro, Didier Thibaut, Denis, Frank, Raul, Vincent, Fabrice, Abdel, Oliver, Stephane, James, Yves, Fulvio, Quentin, Gilles, Raul, Jean-Marc, Carlo, Heiko, Alexander, Dominique, Anthony….

HWC week 47

	Monday 16/11	Tuesday 17/11	Wednesday 18/11	Thursday 19/11	Friday 20/11
Morning	Main coils tests (Heat run, audio, visual and thermal checks) POPS stress tests	PFW+W8L coils tests (Heat run, audio, visual and thermal checks) Polarity checks PFW	POPS + PFW lockout Intervention on the main units to fix issues	*Will depend on progress made (Polarity checks PFW, magnets in series with SWY…)*	*Will depend on progress made (Polarity checks PFW, magnets in series with SWY…)*
Afternoon	Main coils tests continued	PFW+W8L coils tests continued	Main + PFW + W8L Heat run and checks		
Comments	Only POPS pulsing SPECIAL PERMIT	Only PFW/8L pulsing SPECIAL PERMIT (for safety reason)	M : Access A : SPECIAL PERMIT	*C10 MHz water cooling circuits works*	

HWC week 48

	Monday 23/11	Tuesday 24/11	Wednesday 25/11	Thursday 26/11	Friday 27/11
Morning	Main coils + PFW + W8L tests (Heat run, audio, visual and thermal checks)	Lockout and remove Covers aux. magnets circuits common with PSR F61 magnets tests	*Magnets tests* *Recabling S74* *Lockout circuits (common SWY-PSR)* *Re-install covers*	*Bumpers magnets tests* *PSR LE correctors /quads heat runs and polarity tests*	*PSR/SWY accesses 10 MHz* *Long. Damper Survey*
Afternoon	Main coils + PFW + W8L tests (Heat run, audio, visual and thermal checks)	Switchyard aux. magnets circuits common with PSR F61 magnets tests	*PSR LE correctors /quads heat runs and polarity tests*	*Lockout circuits* *Re-install covers*	*PSR/SWY accesses 10 MHz* *Long. Damper Survey*
Comments	SPECIAL PERMIT	SPECIAL PERMIT			

In words (comments, questions, issues….)

- Safety first
  - Current accesses in Special Permit Mode
  - The n-TOF situation : the grid installation will be completed this morning
    - Then we will patrol, remove the lockout on FTN power converters and proceed with the HW commissioning
  - SMH16 out of the chain

In words (comments, questions, issues….)

- MSC tests
  - Heat runs, magnets inspections and polarity tests ongoing
  - Main coils / PFW / W8L inspections finished yesterday “only”
    - Preventive maintenance, reparation of W8L took longer than expected because of too long screws
    - Unusual noise heard in the machine, thorough investigation all day long yesterday
    - Source of the noise has been identified as the new regulation of the PFW and our functions with singular points (to be smoothed)
    - Shift and rearrangements of the original planning but no delays
  - Today beginning of the switchyard magnets with common circuit with PSR

In words (comments, questions, issues….)

- Commissioning
  - Almost all auxiliary power converters are ready for magnets tests and controllable from the CCC
  - PR.DVT74 / PR.QSK74 : cabling in the machine tomorrow
  - Programmed functions for MTE and Slow Extraction multipoles (and bumps) have been optimized (avoid singular points with new converters and regulation)
    - Fine tuning initially scheduled 01/2021
  - Support of the vacuum chamber broke between F16.BHZ377 and F16.BHZ378
    - Several bellows broken
    - TE-VSC organizing repair
      - No showstopper for beam – enough time margin for TT2
    - See Jose's presentation in AOB

In words (comments, questions, issues….)

- Dry runs and tests completed
  - KFA28 ok (signal saturation issue solved)
  - KFA13 and 21 ok
  - SMH26 ok but no acquisition : diagnostics delayed since SMH26 now has a veto
    - No rush
  - SMH16 ok
  - SMH61 ok
  - SMH57 good progress, Phase 4 will begin soon
  - Earlier start of B ramp-up tests ok for POPS

Comments / Questions

Gantt: https://oss-coordination.web.cern.ch/gantt/latest

Do not forget to send email if an IST is done: ist.done.ps@cern.ch

16:30 Daily Zoom meeting
Web address: https://cern.zoom.us/j/95705566988?pwd=ZVZFOEVLV2dzZDZ0V2FQZzJvZkdRUT09
Meeting ID: 957 0556 6988
Passcode: 848884