SPS								
Machine Coordinator last week			Verena Kain					
Machine Coordinator this week								
			Beam Scheduled					
LHC	Yes/No	NA	Yes/No	AWAKE	Yes/No	HiRadMat	Yes/No	
		Beam	Availability k	by Destination	on (AFT)			
LHC	%	NA	%	AWAKE	%	HiRadMat	%	
Facility Status								
Summary	 successful beam based alignment: 4 quads in H and 5 quads in V. RMS measured afterwards for LHC and SFTPRO as predicted. Excellent tools and ALPS system. aperture scan: vertical and horizontal. All similar to end of 2022. fast extractions: set up LHC, AWAKE, HiRadMat with single bunch extracted to TEDs. LHCPILOT to TI 2 and TI 8 TEDs with LHC mastership, LHC frequency for re-phasing, BQM and extraction bump interlocking enabled. Extraction setting-up info: LSS4 bump had to be slightly reduced to maximise aperture (not understood). LHC cycles prepared in terms of tunes and chroma for single bunch and orbit through cycle: LHCPILOT, LHCINDIV cycle with single injection and MD5 for multi-bunch (Laslett tune changes working). beam instrumentation checked: TT10 ALPS electronics qualified (several issues encountered and patched: e.g. with intensity spikes of MTE BB beam; one dead horizontal BPM in TT10 fixed, polarity inversion of last vertical BPM fixed), wire scanners set up (synchronised for slot 1 corresponding to bucket 1), several ring BPMs fixed as well after kick response measurements from last weekend. damper set up for SFTPRO and LHC cycles. 800 MHz commissioned on Thursday to be ready for scrubbing. scrubbing: started to take 12 bunches on Wednesday. Scrubbing for real commenced Friday evening. MKP4 outgassing is driving progress. Temperatures on MKP4 are stable! 4x72 bunches Sunday evening (250 ns batch spacing, 1.4e+11 ppb, emittances 1.6 um at injection - 1.9 um at end of FB) other studies: successful ML algorithm test for tune denoising through cycle (1-2 measurement/clicks to correct entire cycle), successful test of Laslett-like incorporation of tune changes with intensity on fixed target (1 measurement/click to follow intensity change through entire cycle); preparation of accurate chromaticity measurement on MD cycle for power clamping EPC test next week; cavity voltage calibration and phasing check - analysis ongoing							
155065	LHC injection: no beam before Wednesday							
Plans	 find slot for pLHC module on SFT test for dampers (Gerd) test trajectory interlock (could not be done this week due to many issues with TT10 BPMs) set up slow extraction to TED scrubbing towards LIU intensities MKE6 waveform scan Slot for 800 C2 measurement after update of amplitude and phase (C1 done) 							
Intervention Request								
Yes	Duration	½ day	/	Preferred a	late/time	Before mid-	Мау	
Reason	Inform survey team for BA1 tunnel access if opportunity							
Impact	Impact No beam							