

SPS Start-up

- Saw first beam Friday 12/09
 - Very quickly circulating beam
 - MOPOS scopes (remote desktop) very helpful for OP
 - Wrong timing setting BA5 (INT/EXT)
 - TT10 BPM, Ring BLM, Ring BCT, BQSB all seen to work 😊

List of systems (LIDS)

Code-name	Description	Instrument responsible	Software
BCTFI	Fast BCT acquisition system for transfer-lines	D. Belohrad	L. Jensen/A. Topaloudis
BCTSDC	SPS Ring DC BCT in BA3 and BA4	P. Odier	L. Jensen
BCTSDC_vd80	SPS DC BCT Class with acquisition based on the VD80	P. Odier	L. Jensen
BESCLD	SPS SEM CLOUD acquisition system	E. Effinger	L. Jensen
BESTLD	SPS SEM acquisition system	E. Effinger	L. Jensen
BFCTSR	Fast BCT acquisition system for circulating beams	P. Odier	L. Jensen/A. Topaloudis
BGISPS	IPM acquisition and control system	M. Sapinski	A. Guerrero
BLMDSPS	BLM Diamond in the SPS	E. Effinger	S. B-Pedersen
BLMI	Beam Loss Monitors for SPS->LHC	J. Emery	L. Jensen
BLRSPS	SPS Ring Beam Losses	J. Emery	L. Jensen
BOBSPS	SPS BST master control system	A. Boccardi	L. Jensen
BOBR	SPS BST master control system	A. Boccardi	L. Jensen
BOSTEP	SPS Stepping-motor control based on MIDI	M. Durrafourg	S. B-Pedersen
BPLOFS	LHC type BPM acquisition system	E. Calvo	L. Jensen
BPMI	SPS->LHC Beam Position Monitors	E. Calvo	L. Jensen
BPMINT	Beam Position Monitors for the Interlock system	T. Bogey	J. Fullerton
BPMOPOS	Orbit measurement for SPS	C. Boccard	S. Jackson
BPMTFL	TT2/TT10 trajectory	T. Bogey	L. Jensen
BQSB	SPS tune-measurement system based on BBQ	M. Gasior	S. Jackson
BQSHT	SPS head-tail acquisition system	T. Lefevre	L. Jensen
BSESPS	SPS Servo-spill control and acquisition system	E. Effinger	J. Fullerton
BTVI	Single turn TV monitors	S. Burger	A. Guerrero
BWSINJ	SPS Wire Scanners (LHC electronics)	J. Emery	A. Guerrero

Issues with BI SPS systems

- TT2 Fast BCT calibrator not working
 - Tunnel access pending
- TT10 Fast BCT electronics not powered (surface)
 - BA1 switch 'on'
- BA3 Fast BCT calibrator broken
 - Access to tunnel required (P. Odier)
- BA5 Fast BCT Termination missing
 - BA5 surface intervention (P. Odier)
- TT10 and LSS1 (dump) SEM-grids not connected
 - Tunnel interventions (M. Duraffourg)
- RF timings (Frev, 40MHz) not connected to SPS BST
 - Intervention in BA3 (T. Levens with BE/RF)
- MOPOS system
 - Interventions 1, 2, 5 and 6 (C. Boccard et al)
 - BPCE * 6 to replace BPA/BPD
 - Unable to reboot bmu60s remotely (cabling)
- Vacuum issue with mini-scanner in LSS2
 - Tunnel intervention (C. Vuitton)
- BWS timing setting
 - Software configuration issue (A. Guerrero)
- LHC BPM system electronics broken (E. Calvo)
 - Repair by BE/CO
- TT20 SEM electronics (VME) not working
 - Issue with power outlet and CPU
- SPS logging disabled
 - BE/CO intervention

Next steps for SPS

- Slow extraction to North area
 - Already had beam on TT20 -> OK
 - Mainly SEM-based systems
 - New TBID/TBIU boxes
 - Fast spill instrumentation
 - E. Effinger (diamond) ?
 - EA systems
- Fast extraction to TT40/TT60
 - Expected in the coming weeks (V. Kain coordinating)
 - BLM, BCTF, BPMI, BTVI
- Scrubbing-run
 - Electron-cloud monitors (BA5)
 - Fast Ring BCT (BA3/BA5)
 - LHC-type BPMs (BA5)