

Machine Studies

Draft Schedule for Run01-1, 2021

January 19th 0800 – January 26th 0800

Time	Descriptions	Studios	SR Status
Monday, Jan. 18, 2021 - Prestudies			
0700-0900	MPS Validations	Smith/Flood	No injection
0900-1000	Prepare SR for RF Conditioning with beam	Flood/OPS	Stored beam & inj.
1000-2400	RF Conditioning with Beam (24 singlets)	OPS	Stored beam & inj.
~1500	Pinhole camera initial set-up (current above 50mA) parallel to RF conditioning w/beam	Yang	Stored beam & inj.
~1700	BPM checkout (parallel to RF conditioning w/ beam)	Sereno	Stored beam & inj.
Tuesday, January 19, 2021			
0000-0800	RF Conditioning with beam	OPS	Stored beam & inj.
0800-1200	BPLD Validations	Sereno	Stored beam & inj.
1200-1400	X-BPM Sanity Check	Sereno	Stored beam & inj.
1400-2000	Lattice set-up	Xiao	Stored beam & inj.
2000-2400	Orbit recovery	Yipeng Sun	Stored beam & inj.

Wednesday, January 20, 2021

0000-0100	Orbit recovery (continued)	Yipeng Sun	Stored beam & inj.
0100-0700	RG1 conditioning	Yine Sun	No injection
0100-0700	CPU/IEX checkout	Xiao, OPS	Stored beam & occ. inj.
0700-0900	Test B3C2P1 and B3C2P2 BPMs after configuration change	Yao, Pietryla	Limited inj.
0900-1100	Booster singleTurn injection x-controllaw setup	Yao, Shang	Limited inj.
0900-1400	SR Lifetime study (parasitic to Booster studies)	Yipeng Sun	Stored beam & inj.
1100-1400	Booster chrom optimization with SD/SF new ramps.	Yao, Shang	Limited inj.
1400-1500	Operator requalification	Grodecki, Schroeder	Stored beam & inj.
1500-1700	Operator requalification	Smith, Schroeder	Stored beam & inj.
1700-1900	Booster tune-up	Calvey	Stored beam & inj.
1900-2300	Set-up optics correction for new 6 GeV lattice	Emery, Xiao	Stored beam & inj.
2300-2400	ID Steering & BPM offset measurement	Xiao	Stored beam & occ. inj.

Thursday, January 21, 2021

0000-0500	ID Steering & BPM offset measurement (continued)	Xiao	Stored beam & occ. inj.
0500-1030	RG1 beam in linac optimization	Yine Sun, Shang	No injection

0700-0800	Prepare for SR access	OPS	No beam
0800-0900	Check in-tunnel connections for S26B:P1	Blake	Access Zone D
1030-1130	BPLD Validation for 26B:P1 if needed	Sereno	Stored beam & inj.
1130-1300	Injector training	Kimbro, Grodecki	Limited inj.
1300-2300	Timing & synch test	Wienands, et al	Stored beam & inj.
2300-2400	Accumulation limit as a benchmark of performance (hybrid setup)	Xiao/Emery	Stored beam & inj.

Friday, January 22, 2021

0000-0500	Accumulation limit as a benchmark of performance (hybrid setup) (continued)	Xiao/Emery	Stored beam & inj.
0500-1100	RG1 beam lattice matching, PAR injection optimization, control law set up and beam stability measurements	Yine Sun, Fystro	No injection
1100-1300	testing booster x-injection controllaw with beam	Calvey, Fystro, Yao Shang	No injection
1300-1500	Injector training	Grodecki, Kimbro	Limited injection
1300-1500	SR Lifetime study	Yipeng Sun	Stored beam
1500-1700	Booster TBT history with rf ramp and Ext kicker as pinger	Yao	No injection
1700-1900	Check PC gun transmission through Linac	Dooling	No injection
1900-2300	optimize injection of the above 6 GeV lattice	Emery, Shang, Huang.	Stored beam & inj.
2300-2400	vertical scan of scraper for lifetime.	Emery	Stored beam & inj.

Saturday, January 23, 2021

0000-0100	vertical scan of scraper for lifetime. (continued)	Emery	Stored beam & inj.
0300-1000	Top-up verification (24 singlets,gaps closed, all controllaws running)	OPS	Stored beam & injection
1000-1600	CPU/IEX correction	Xiao	Stored beam & inj.
1600-2000	6GeV Undulator Perturbation	Emery	Stored beam & inj.
2000-2400	Top-up verification (24 singlets,gaps closed, all controllaws running) - 6 hours with interleaving	OPS/Dooling	Stored beam & inj.

Sunday, January 24, 2021

0000-1000	Top-up verification (continued)	OPS	Stored beam & inj.
1000-1500	6 GeV single bunch limit	Emery	Stored beam & inj.
1500-2000	Online optimization with TBT BPM	Yipeng Sun	Stored beam & inj
2000-2200	Abort kicker checkout	Harkay, Xiao	Stored beam & inj.
2200-2400	Final Optics Set-up	Xiao	Stored beam & Inj.

Monday, January 25, 2021

0000-0200	Final Optics Set-up (continued)	Xiao	Stored beam & Inj.
0300-0700	Sextupole offset measurements	Sajaev	Stored beam & inj.
0800-1200	7 GeV Dimtel feedback testing	Emery/Diag	Stored beam & inj.

1200-1400	P0 feedback	Yao	Stored beam & inj.
1400-1800	Final set-up of bunch purity monitor and pinhole camera	Yang	Stored beam & inj.
1800-2200	Final orbit set-up	Yipeng Sun	Stored beam & inj.
2200-2400	Bunch Purity checkout	Harkay, Yipeng Sun	Stored beam & inj.
Tuesday, January 26, 2021			
0000-0630	OPEN		
0630-0800	Prepare for User beam (no gaps closed)	OPS	Stored Beam & Injection