

	Day	Shift	Time (h)	Activity	Key aims
27	SA	A	4	Injection and first turn b1 (All expts. magnets off except Atlas)	Quick check - no major problems, splash events as usual
28	SU	N	4	Injection and first turn b2	
28	SU	A	4	Circulating Pilot and RF capture b1	
28	SU	A	4	Circulating Pilot and RF capture b2	beam instrumentation checks
28	SU	N	8	CRYOGENICS INTERVENTION in point 8	
1	MO	M+A	16	CRYOGENICS INTERVENTION & ACCESS - HWC TESTS	
1	MO	N	4	CRYOGENICS RECOVERY IN POINT 8	
2	TU	M	14	QPS INTERVENTION	
2	TU	A	2	Pre-cycle for sectors 45 - 56- 67 - 78 - 81 and BIC, Dumped beam event problem investigation	
2	TU	A	2	Re-establish beam in the LHC	
2	TU	A	5	Dispersion, CO, Q, Q', C- measure and correct - beam2/beam 1	Circulating beam with main parameters corrected. To be repeated
2	TU	N	7	Beta beating measurements and correction	
3	WE	M	2	CLOSED ORBIT with 2 beams, checking of basic parameters	Circulating beam with main parameters corrected. To be repeated
3	WE	M	2	PRE-CYCLE	
3	WE	M	2	Re-establish beam in the LHC	
3	WE	A	7	Systematic hump investigations	
3	WE	A	1	ALICE TPC trip threshold test (linked to overinjection)	
3	WE	N	5	Injection and beam dump setting-up	
3	WE	N	3	Systematic hump investigations	
4	TH	M	8	HWC: preparation for 3.5 TeV	
4	TH	A	6	Recovery	
4	TH	N	8	Beta beating measurements and correction	
5	FR	M	4	Orbit tuning - Dump BLM	
5	FR	M	4	Switching on / compensate the experimental magnets - Orbit and tune feedback	
5	FR	A	8	Switching on / compensate the experimental magnets	
5	FR	N	4	Two beam operation - without bumps / with bumps etc.	Separation bumps on from here on in
5	FR	N	3	Cryo stop	
6	SAT	M/A/N	18	Cryo stop	
6	SAT	N	1	BIW problem	
6	SAT	N	2	Pre-cycle	
7	SUN	N	4	Revisit machine parameters: Q, Q', Coupling, dispersion	
7	SUN	M	6	Injection and dump protection setting-up	
7	SUN	M	10	Collimation setting-up & protection - 450 GeV	
7	SUN	N	2	Damper setting-up	to be revisited
8	MON	M	16	AUG & RECOVERY	
8	MON	A	5	Injection and dump protection setting-up	
8	MON	N	8	Test Q and orbit feedback	
8	TUE	M	12	Cryo controls/ current lead	
8	TUE	M	5	Finish collimators plus grazing for CMS	
9	TUE	A	4	BETS test ramps without beam and pre-cycle - interlock checks/collimators	
9	TUE	A	4	Trial ramp to 1.2 TeV - test Q and orbit feedback	
9	TUE	N	8	Measurements at 1.2 TeV (beating etc. - optics development with energy - test rampdown combo	
10	WED	M	4	RF from 08:00	Losses at injection, TCDO
10	WED	M	4	MPS - powering failures... from 12:00	
10	WED	A	8	Injection/LBDS checks	1 hour for RF, 5 e10
10	WED	N	4	Damper setting-up	end 04:00
11	THU	M	12	nQPS re-parameterization part 1/Cryogenics from 04:00	
11	THU	A	8	nQPS re-parameterization part 1/Cryogenics	
11	THU	N	8	nQPS re-parameterization part 1/Cryogenics	
12	FRI	M	4	Recovery - full parameter check	
12	FRI	M	4	Q'/b3 cross-check if time	
12	FRI	A	8	Trial ramp to 1.2 TeV - test Q and orbit feedback	
12	FRI	N	8	TOTEM interlock tests (2 hours - no beam). Aperture and RF adjustments	
13	SA	M	4	AC dipole	
13	SA	M	4	LHCb dipole - precycle	
13	SA	A	8	Beam quality tuning. Single beam intensity to 5e10	
13	SA	N	8	Aperture	
14	SU	M	12	Trial ramp to 1.2 TeV - test Q and orbit feedback	
14	SU	A	4	Injection/LBDS (19:00 - 23:00)	
14	SU	N	8	SF	
15	MO	MAN	24	nQPS re-parameterization part 2/TECHNICAL STOP	
16	TU	MAN	24	nQPS re-parameterization part 2/TECHNICAL STOP	
17	WE	M	8	RECOVERY++	
17	WE	A	8	RECOVERY++	
17	WE	N	8	3.5 TeV ramp commissioning including dry ramp for BETS	
18	THU	M	8	3.5 TeV ramp commissioning	
18	THU	A	8	3.5 TeV ramp commissioning	
18	THU	N	8	SF	
19	FRI	M	8	3.5 TeV ramp commissioning	
19	FRI	A	8	3.5 TeV ramp commissioning	
19	FRI	N	8	2 beam, setup, 4 bunch checks - extraction checks, collimators locked in position and gaps, beam dump, MPS tests	
20	SA	M	8	450 GeV collisions (tbc)	
20	SA	A	8	450 GeV collisions	
20	SA	N	8	450 GeV collisions	
21	SU	M	8	450 GeV collisions	
21	SU	A	8	MPS and beam dumping system - extracted pilot, b1: 0.45 - 3.5 TeV Protection device and collimator setting-up - b1 ramp	
21	SU	N	8	SF	
22	MO	M	8	MPS and beam dumping system - extracted pilot, b2: 0.45 - 3.5 TeV	
22	MO	A	8	Protection device and collimator setting-up - b2 ramp	
22	MO	N	8	SF	
23	TU	M	8	MPS and beam dumping system - extracted pilot, b1: 0.45 - 3.5 TeV	
23	TU	A	8	Protection device and collimator setting-up - ramp	
23	TU	N	8	SF	
24	WE	M	8	MPS and beam dumping system - extracted pilot: 0.45- 3.5 TeV	
24	WE	A	8		
24	WE	N	8	SF	
25	TH	M	8	Measurements at 3.5 TeV	
25	TH	A	8	MPS and beam dumping system - extracted pilot, - 3.5 TeV	
25	TH	N	8	SF	
25	FR	M	8	Measurements at 3.5 TeV	
25	FR	A	8	MPS and beam dumping system - extracted pilot, - 3.5 TeV	
25	SA	N	8	SF	
26	SA	M	8	Protection device and collimator setting-up - 3.5 TeV, b1	
27	SA	A	8	Protection device and collimator setting-up - 3.5TeV, b2	
27	SU	N	8	SF	
28	SU	M	8	Two Beam Operation setting-up - 3.5 TeV	
28	SU	A	8	Two Beam Operation setting-up - 3.5 TeV	
28	SU	N	8	SF	
29	MO	M	8		
29	MO	A	8	3.5 TeV collision setting-up	
29	MO	N	8	3.5 TeV collision setting-up	
30	TU	M	8	FIRST COLLISIONS AT 3.5 TeV (TBC)	