

	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
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	TUES	M	3	Finish collimators plus grazing for CMS	
8	TUE	M	5	Aperture	
9	TUE	A	4	BETS test ramps without beam and pre-cycle	
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	8	Injection/LBDS/MPS checks	
10	WED	A	8	High intensity setup (IQC limits...) High single bunch intensity - emittance blow-up on flat bottom etc, loss maps,	1 hour for RF
10	WED	N	4	Damper setting-up	
11	THU	M	12	HWC: preparation for 3.5 TeV phase 1/Cryogenics	
11	THU	A	8	HWC: preparation for 3.5 TeV phase 1/Cryogenics	
11	THU	N	8	HWC: preparation for 3.5 TeV phase 1/Cryogenics	
12	FRI	M	4	Recovery.	
12	FRI	M	4	Q'/b3 cross-check	
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 continued - IRs	
13	SA	M	8	High intensity - multibunch (4 and 4) - establish good conditions for collisions at 450 GeV	
13	SA	A	8	Beam quality tuning	
13	SA	N	8	SF	
14	SU	M	8	Trial ramp to 1.2 TeV - test Q and orbit feedback	
14	SU	A	8	2 beam, setup, 4 bunch checks - extraction checks, collimators locked in position and gaps, beam dump, MPS tests	

14	SU	N	8	SF	
15	MO	M	8	450 GeV collisions	
15	MO	A	8	450 GeV collisions	
15	MO	N	8	450 GeV collisions	
16	TUE		24	nQPS to 3.5 TeV/TECHNICAL STOP	
17	WED		24	nQPS to 3.5 TeV/TECHNICAL STOP	
18	THU				
18	THU				
18	THU				
19	FRI	M	8	MPS and beam dumping system - extracted pilot, b1: 0.45 - 3.5 TeV	
19	FRI	A	8	Protection device and collimator setting-up - b1 ramp	
19	FRI	N	8	SF	
20	SA	M	8	MPS and beam dumping system - extracted pilot, b2: 0.45- 3.5 TeV	
20	SA	A	8	Protection device and collimator setting-up - b2 ramp	
20	SA	N	8	SF	
21	SU	M	8	MPS and beam dumping system - extracted pilot, b1: 0.45 - 3.5 TeV	
21	SU	A	8	SF	
21	SU	N	8	Protection device and collimator setting-up - ramp	
22	MO	M	8	MPS and beam dumping system - extracted pilot: 0.45- 3.5 TeV	
22	MO	A	8		
22	MO	N	8	SF	
23	TU	M	8	Measurements at 3.5 TeV	
23	TU	A	8	MPS and beam dumping system - extracted pilot, - 3.5 TeV	
23	TU	N	8	SF	
24	WE	M	8	Measurements at 3.5 TeV	
24	WE	A	8	MPS and beam dumping system - extracted pilot, - 3.5 TeV	
24	WE	N	8	SF	
25	TH	M	8	Protection device and collimator setting-up - 3.5 TeV, b1	
25	TH	A	8	Protection device and collimator setting-up - 3.5TeV, b2	
25	TH	N	8	SF	
25	FR	M	8	Two Beam Operation setting-up - 3.5 TeV	
25	FR	A	8	Two Beam Operation setting-up - 3.5 TeV	
				SF	
				3.5 TeV collision setting-up	
				3.5 TeV collision setting-up	
30	TU	M	8	MEDIA EVENT FIRST COLLISIONS AT 3.5 TeV (TBC)	