

SSRL ACCELERATOR - 2010 SHUTDOWN

9/23/10

ID	% complete	Task Name	Safety Forms	Notes	Duration	Start	Finish	Predecessor	Project Manager	Task person	Resource/SF	2010							O	
												9/13	Sep 20	Sep 27	Oct 4	Oct 11	Oct 18	10/25		
1	11%	Key Dates			91 d	7/27/10	11/15/10													
2	26%	Injector			52 d	7/27/10	10/4/10													
4	0%	Linac roof & Booster access			29 d	8/27/10	10/4/10													
5	5%	SPEAR			66 d	7/27/10	10/20/10													
7	0%	Down time tunnel access			66 d	7/27/10	10/20/10													
9	0%	Accel - complete shutdown work			8 d	10/11/10	10/20/10	12												
10	50%	ACCESS			35 d	8/9/10	9/24/10													
11	50%	Seismic Upgrade			35 d	8/9/10	9/24/10													
12	50%	NO access through construction area			35 d	8/9/10	9/24/10													
15	0%	Installation of new precast roof blocks			5 d	9/20/10	9/24/10													
18	0%	Startup			40 d	10/4/10	11/15/10													
19	0%	Injector Startup			23 d	10/4/10	10/28/10													
20	0%	SPEAR Startup			18 d	10/21/10	11/7/10	9												
21	0%	User-beam commissioning			7 d	11/8/10	11/14/10	20												
22	0%	Deliver beam to users			0 d	11/15/10	11/15/10	21												
24	21%	Projects - Summary List			67 d?	7/26/10	10/20/10													
25	48%	Injector			63 d?	7/27/10	10/15/10													
27	0%	Linac RF diagnostic upgrade with temperature controlled rack			0 d	8/27/10	8/27/10	271SS	Gierman, I											
28	0%	Tune Modulator PFNs K1, K2 and K3			5 d	10/11/10	10/15/10	325SS	Morris											
30	0%	Install Lambda HV PS into modulator K3			0 d	9/13/10	9/13/10	196SS	Morris											
31	0%	Spare chopper drive cable			0 d	8/25/10	8/25/10		Ortiz											
32	0%	SF6 recovery tie-in			0 d	8/25/10	8/25/10	333SS	Ernst											
33	0%	LINAC to Diagnostic room alignment		survey BPM	1 d?	7/27/10	7/27/10	96SS	Dellorco											
34	30%	LTB alignment			27 d	8/3/10	9/8/10	96SS	Dellorco											
36	25%	LTB B3 - Hall probe			0 d	8/19/10	8/19/10	108SS	Traut, Ort											
37	0%	White Circuit PS - controller upgrade (Ethernet)			0 d	7/27/10	7/27/10	193SS	Lam, Rafae											
38	0%	White circuit capacitor replacement			0 d	7/27/10	7/27/10	194SS	Lam, Rafae											
39	0%	Booster Klystron PM/testing (remove working klystron to Test Lab)			0 d	8/23/10	8/23/10	124SS	Park, Eichn											
40	0%	Booster/Linac RF phase lock			0 d	8/12/10	8/12/10	266SS	Martin											
41	0%	Replace Booster choke thermostats and internal bus		Recertify MPS thermal swtch after	0 d	8/3/10	8/3/10	120SS	Ernst, Dell											
42	0%	Electronic pressure/temp gauging for LCW			0 d	9/8/10	9/8/10	222SS	Ernst											
44	18%	SPEAR			67 d	7/26/10	10/20/10													
45	5%	SPEAR RFHV PS spare installation			49 d	7/27/10	10/1/10		Trautwein/											
46	40%	RF Cavity zone - NPCT removal and replacement by drift tube			0 d	9/2/10	9/2/10	429SS	Nalls											
48	0%	SPEAR kicker upgrade (K1, K2, K3)			66 d	7/27/10	10/20/10		Beukers/Ra											
49	0%	SPEAR BL13 ID - readouts		define project	0 d	9/1/10	9/1/10	294SS	Dell'Orco											
50	0%	ID - emergency-off switches (BL 5, 6, 9, 10)			11 d	7/29/10	8/12/10		Dao											
51	0%	Electronic pressure/temp gauging for LCW			0 d	9/3/10	9/3/10	216SS	Ernst											
52	0%	Electronic monitoring LCW (ph, dissolved O2, conductivity)			0 d	9/3/10	9/3/10	216SS	Ernst											
53	40%	Facilities			57 d	7/26/10	10/8/10													
55	0%	SPEAR Seismic Upgrade			10.4 w	8/2/10	10/8/10		Cadapan/C											
56	0%	E/W pit sump pumps - connect to emergency power			0 d	8/31/10	8/31/10		Guerra											
58	0%	Removal old HV XTRANS north of Booster		Date TBD	2 d	7/26/10	7/27/10		Blomdal											
59	0%	Beamline			45 d	7/26/10	9/24/10													
60	0%	BL HPI TOSOIC modifications			0 d	7/27/10	7/27/10		Ortiz											
61	0%	Bend magnet line bellows mask (BL1, 2, 8, 3, 14)		BL1 before 8/2	0 d	7/29/10	7/29/10	442SS	Nalls											
62	0%	BL2-1 M0 mirror slides upgrade			5 d	8/23/10	8/27/10		Johnson											
63	0%	Mirror pitch feedback - BL9, 10, 12, 13			25 d	8/23/10	9/24/10		Rabedeau											
64	0%	BL14-3 Installation			0 d	7/26/10	7/26/10													
66	41%	DOWNTIME PROJECTS																		
67	91%	PRELIMINARIES																		
87	88%	Open SPEAR Equipment Access			66.75 d	7/28/10	10/22/10		Ernst											
90	0%	Close west equipment door access/install EQB	Close RSWCF		6 hrs	10/20/10	10/20/10				FACR									

Incomplete tasks

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ID	% complete	Task Name	Safety Forms	Notes	Duration	Start	Finish	Predecessor	Project Manager	Task person	Resource/Staff	Calendar																								
												'10	Sep 20, '10	Sep 27, '10	Oct 4, '10	Oct 11, '10	Oct 18, '10	O	F	S	T	F	S	T	F	S	T	F	S							
94	46%	PROJECTS																																		
95	45%	INJECTOR			95.13 d	7/26/10	11/18/10																													
96	52%	LTB alignment																																		
103	69%	Survey and magnet re-alignment		Q1- 1cm X align error	42.38 d	7/26/10	9/22/10		Dell'Orco																											
107	0%	Move magnets			4 d	9/8/10	9/13/10	106																												
108	95%	PM LTB magnets behind G11 (hose replacment)		Pressure test	4 hrs	8/19/10	8/19/10	100SS+																												
109	0%	Install Hall probe on B3			4 hrs	9/2/10	9/2/10	106SS+																												
110	0%	Install support mods for new B3 BPM			6 hrs	9/2/10	9/2/10	106SS+																												
111	0%	Roll girder into place and lower onto pedestals			1 d	9/14/10	9/14/10	107																												
112	0%	Replace injection septum shielding	Close RSWCF		3 hrs	9/15/10	9/15/10	111																												
113	0%	Survey and align girder			2 d	9/15/10	9/17/10	112																												
114	0%	G11 - re-connect mag/trim cable			4 hrs	9/17/10	9/17/10	113	Lam																											
115	0%	Install steel plug/locking hasp in Booster, Linac, LTD walls	Close RSWCF		1 d	9/17/10	9/20/10	114																												
116	0%	Replace vacuum chambers as necessary			3 d	9/17/10	9/22/10	113																												
117	94%	LTD			33 d	8/3/10	9/16/10		Dell'Orco																											
119	0%	Survey BPM			1 d	9/16/10	9/16/10	118																												
124	9%	358 MHz Klystron PM			75.13 d	8/23/10	11/18/10		Park																											
141	71%	SLAC Facilities			7 d	8/16/10	8/24/10																													
143	0%	Remove old XTRANS station on north side of Booster		Date TBD	2 d	8/23/10	8/24/10																													
144	47%	SPEAR																																		
145	46%	Seismic Retrofit - Zone 1/BTS			67 d	7/26/10	10/20/10																													
146	86%	Outside tunnel	RSWCF		60.06 d	7/26/10	10/12/10		Choi																											
153	0%	Relocate building 120 main compressed air header			8 hrs	10/11/10	10/11/10		Ernst																											
154	0%	Change over air supply from Aux to new main feeder			0.5 hrs	10/12/10	10/12/10	153	Ernst																											
162	49%	Subcontract:			58 d	7/26/10	10/9/10		Cadapan																											
173	0%	Install new precast roof blocks		Roof block delivery 9/13	5 d	9/2/10	9/8/10	172																												
174	0%	Install new anchorage			12 d	9/9/10	9/24/10	173																												
175	0%	Install roofing			5 d	9/27/10	10/1/10	174																												
176	0%	Re-install PPS, electrical & Vesda			3 d	10/2/10	10/4/10	175																												
177	0%	Punchlist and Demobilization	Close RSWCF		5 d	10/5/10	10/9/10	176																												
178	0%	Return SPEAR to ready status			9 d	10/4/10	10/12/10																													
179	0%	Replace lead shielding around Injection Raft I-beams			2 d	10/11/10	10/12/10																													
180	0%	Re-install bottle cage			5 d	10/4/10	10/8/10																													
181	0%	Remove accel plywood cover			2 d	10/9/10	10/10/10	180																												
182	0%	Relocate SPEAR main air filter housings, and replumb main line			1 d	10/11/10	10/11/10																													
183	0%	Change over air supply from Aux to new main feeder			0.5 d	10/12/10	10/12/10	182																												
184	0%	Re-attach cables/trays to roof shielding	Penetration permit		1.5 d	10/11/10	10/12/10	180FS+		Rogers																										
185	0%	Pumpdown zone 2			1 d	10/11/10	10/11/10																													
186	0%	Pumpdown zone 1			1 d	10/12/10	10/12/10	185																												
187	0%	Pumpdown BTS			3 hrs	10/12/10	10/12/10	185																												
188	0%	Zone 1			6 d	10/13/10	10/20/10																													
189	0%	Levelling, mapping			3 d	10/13/10	10/15/10																													
190	0%	Data reduction			1 d	10/18/10	10/18/10	189																												
191	0%	Magnet moves			2 d	10/19/10	10/20/10	190																												
192	54%	Power Conversion Projects			63 d	7/27/10	10/15/10																													
193	90%	White Bias PS Ethernet controller upgrade			40 d	7/27/10	9/20/10		Lam																											
195	90%	B2-B6 Ethernet controller upgrade			0 d	9/20/10	9/20/10		Lam																											
196	60%	Install lambda HVPS into K3		Inst cable week of 8/30	5 d	9/13/10	9/17/10		Morris																											
197	0%	SPEAR kicker driver upgrade project K1, K2, K3			63 d	7/27/10	10/15/10		Beukers																											
198	0%	Upgrade K1 (5 stack)			35 d	7/27/10	9/13/10		Beukers																											
199	0%	Test K1	EWP	Approvals?	2 d	9/15/10	9/16/10																													
200	0%	Upgrade K2, K3			25 d	9/17/10	10/15/10	199																												
201	44%	RF HVPS Spare Installation			67 d																															

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												9/13	9/14	9/15	9/16	9/17	9/18	9/19	9/20	
206	0%	B514 prep			2.5 d	9/28/10	9/30/10					F	S	S						
207	0%	Oil containment			1 d	9/28/10	9/28/10	203FS+			Subcontractor									
208	0%	PS base frame			1 d	9/29/10	9/29/10	207	UTR		Subcontractor									
209	0%	B514 utility disconnect			4 hrs	9/30/10	9/30/10	208			FACE									
210	0%	B514 wall removal			4 hrs	9/30/10	9/30/10	208			Subcontractor									
211	0%	HVPS Installation			6 d	10/1/10	10/6/10													
212	0%	Setup crane at PEP RF Station 8			1 d	10/1/10	10/1/10													
213	0%	Load trailer for move			1 d	10/4/10	10/4/10													
214	0%	Move HVPS down trestle and into B514			2 d	10/5/10	10/6/10	213	UTR		Subcontractor									
215	13%	Mechanical			52 d?	7/26/10	10/3/10													
216	0%	SPEAR O2, PH Conductivity Monitor Project			9.38 d	9/3/10	9/16/10		Ernst											
217	0%	Install new regulator and piping			8 hrs	9/3/10	9/3/10				MSG -1									
218	0%	Install monitor manifold			3 hrs	9/6/10	9/6/10	217			MSG -1									
219	0%	Install Hoffman box, and control units			1 d	9/6/10	9/7/10	218			MSG -1									
220	0%	Install cabling			3 d	9/7/10	9/10/10	219			CBL									
221	0%	Install System power			4 d	9/10/10	9/16/10	220			FACE	FACE								
222	45%	Injector Electronic Gauge Upgrade Project			7.25 d	9/8/10	9/17/10		Ernst			▼								
230	0%	Install trays and cables			3 d	9/13/10	9/16/10	229			CBL	CBL								
231	0%	Test/set transmitters			1 d	9/16/10	9/17/10	230			MSG -1	MSG -1								
232	0%	Quadrant 1/review - after shielding upgrade			3.5 d	9/27/10	9/30/10		Ernst											
233	0%	SPEAR ring quadrant 1 inspections			2 d	9/27/10	9/28/10				MSG -1									
234	0%	Install pneumatics lines/SPEAR scraper S1/test			1 d	9/29/10	9/29/10	233			MSG -1									
235	0%	Install filters - SPEAR main air			4 hrs	9/30/10	9/30/10	234			MSG -1									
236	0%	New Equipment Test			52 d?	7/26/10	10/3/10		Ernst											
237	0%	Test new SPEAR O2, PH, Conductivity equipment			2 d	9/30/10	10/1/10				MSG -1									
238	0%	Test/set new Injector pressure/temperature transmitters			2 d	10/2/10	10/3/10	237			MSG -1									
239	0%				1 d?	7/26/10	7/26/10													
240	38%	SYSTEM MAINTENANCE			346 d?	8/10/09	11/7/10													
241	40%	Beam Diagnostics			57.71 d	7/15/10	10/2/10		Martin											
242	36%	SPEAR			57 d	7/15/10	10/1/10													
244	33%	Replace fan guards, B118, I&C cabinets			25 d	7/29/10	9/1/10													
248	30%	Complete 358 MHz cable compensation chassis			6 d	7/15/10	7/22/10													
249	10%	Install 358 MHz cable compensation chassis			2 d	7/22/10	7/23/10													
250	0%	Commission 358 MHz cable compensation chassis			26 d	7/23/10	8/27/10													
251	0%	Timing Cable terminations, B118			5 d	9/20/10	9/24/10													
253	50%	Fan cleaning, B116-101			15 d	8/9/10	8/27/10													
255	0%	Fan cleaning, B132-102			15 d	8/9/10	8/27/10													
256	0%	SCI calibration & cert. procedure			4 d	8/11/10	8/16/10													
257	0%	TOSCI replacement & cert. procedure	Open RSWCF		2 d	8/16/10	8/17/10													
258	0%	Return PTS500 for modification			2 d	7/19/10	7/20/10													
259	0%	Photograph LO Driver chassis			1 d	8/16/10	8/16/10													
260	0%	LION's pre-run testing			3 d	8/23/10	8/25/10													
261	0%	Power up BPM Eqpt. 116/132			1 d	10/1/10	10/1/10													
262	0%	Start-up certifications & testing			3 d	9/21/10	9/23/10													
263	4%	Booster			27 d	8/2/10	9/7/10		Martin											
264	0%	Install new cables to M.O.			4 d	8/2/10	8/5/10													
266	0%	Install Booster/Linac synch chassis			7 d	8/12/10	8/20/10													
267	0%	Commission Booster/Linac synch chassis			13 d	8/20/10	9/7/10													
268	77%	Linac			41.71 d	8/6/10	10/2/10		Martin											
269	95%	Air conditioned rack installation			12.38 d	8/27/10	9/14/10													
270	95%	BIO review			5 d	9/7/10	9/13/10													
271	99%	Install rack EQB, anchors in concrete	BIO approval	Rebar scan complete	4 hrs	8/27/10	9/14/10	270	Ernst		MSG -1	-1								
272	99%	Boltdown new rack, B140-111			3 d	9/14/10	9/17/10	271												
273	99%	Remove RF Diode Detector chassis			1 d	8/6/10	9/17/10	272												

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ID	% omplet	Task Name	Safety Forms	Notes	Duration	Start	Finish	Predec	Project Manager	Task person	Resource/Sr	10	Sep 20, '10	Sep 27, '10	Oct 4, '10	Oct 11, '10	Oct 18, '10	O																
												F	S	S	T	T	F	S	S	T	T	F	S	S	T	T	F	S	S	T	T	F	S	S
450	0%	BL13 M1 mpf retrofit			3 d	8/23/10	8/25/10		Brehmer																									
451	0%	BL14 vac insterspace bake		Waiting on BL under vacuum	8 hrs	8/3/10	8/3/10			Bach/Pak																								
453	0%	BL14-3 install (out alcove)		(Align to 14-3 pivot mask in alcove)	1 d?	8/23/10	8/23/10																											
455	0%	Pre-start up check outs in alcove and out		Start in-alcove	11 d	9/17/10	10/1/10			Bach/Pak																								
456	2%	Misc			24 d	7/20/10	8/20/10		Nalls																									
457	0%	Mono emergency pumpdown kit			24 d	7/20/10	8/20/10			Jacobson																								
458	0%	Beam line emergency pump kit			24 d	7/20/10	8/20/10			Nalls																								
460	0%	Cleanroom filter installation			3 d	8/2/10	8/4/10			Vargas/Jacob																								
461	0%	Pre-Startup Checks			1 d	9/27/10	9/27/10																											
462	0%	Magnets			1 d	9/27/10	9/27/10																											
463	0%	Check polarity of magnets disconnected from PS (hall probe)		SP intermediate PS	1 d	9/27/10	9/27/10			Huang,Rafael																								
464	0%	Lockdown			1 d	9/27/10	9/27/10																											
465	0%	Remove RFHVPS LOTO			1 d	9/27/10	9/27/10				FACOE																							
466	0%	STARTUP			93 d?	7/26/10	11/15/10																											