










LCLS Commissioning Schedule

ID	Task Name	Duration	Start	2008												2009												2010											
				O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S
1	Controlling Milestones	1073 days	2/28/06	Controlling Milestones																																			
1	Milestones from P3 schedule, Feb 2006	1030 days	2/28/06	Milestones from P3 schedule, Feb 2006																																			
2	Level 1 DOE (SC1)	1030 days	2/28/06	Level 1 DOE (SC1)																																			
5	Level 2 DOE (SSO)	615 days	11/20/06	Level 2 DOE (SSO)																																			
13	Level 3 (Project Office) (selected Start dates)	663 days	10/18/06	Level 3 (Project Office) (selected Start dates)																																			
23	Schedule Drivers (from P3)	1062 days	3/16/06	Schedule Drivers (from P3)																																			
24	Vault ready for laser beam	0 days	1/2/07	Vault ready for laser beam																																			
26	Virtual Cathode ready for laser beam	0 days	2/27/07	Virtual Cathode ready for laser beam																																			
28	Gun ready for laser beam	0 days	3/16/07	Gun ready for laser beam																																			
31	Linac vault ready for pre-beam checkout	0 days	12/13/06	Linac vault ready for pre-beam checkout																																			
34	Injector vault ready for pre-beam checkout	0 days	12/13/06	Injector vault ready for pre-beam checkout																																			
37	Ready for Beam to BC1 (TD11)	0 days	3/16/07	Ready for Beam to BC1 (TD11)																																			
41	Ready for Beam to BC2	0 days	1/1/08	Ready for Beam to BC2																																			
42	Ready for Beam to TDUND	0 days	4/1/08	Ready for Beam to TDUND																																			
43	Ready for Electrons to Dump	0 days	10/22/08	Ready for Electrons to Dump																																			
47	Ready for X-Rays to FEE	0 days	5/14/09	Ready for X-Rays to FEE																																			
50	Injector RF Processing Complete	0 days	2/26/07	Injector RF Processing Complete																																			
53	Sector 20 Installation	0 days	7/24/06	Sector 20 Installation																																			
56	Fall 2006 Installation	278 days	3/16/06	Fall 2006 Installation																																			
99	Fall 2007 Downtime	63 days	8/31/07	Fall 2007 Downtime																																			
100	Start Fall 2007 Downtime	0 days	8/31/07	Start Fall 2007 Downtime																																			
101	End Fall 2007 Downtime	0 days	11/2/07	End Fall 2007 Downtime																																			
105	Fall 2008 Downtime	31 days	10/1/08	Fall 2008 Downtime																																			
106	Start Fall 2008 Downtime	0 days	10/1/08	Start Fall 2008 Downtime																																			
107	End Fall 2008 Downtime	0 days	11/1/08	End Fall 2008 Downtime																																			
108	PPS Certification up to Main Dump	35 days	10/1/08	PPS Certification up to Main Dump																																			
112	LTU Installation complete	0 days	3/15/08	LTU Installation complete																																			
114	Dump Installation Complete	0 days	3/15/08	Dump Installation Complete																																			
2	Drive Laser Commissioning	216 days	7/24/06	Drive Laser Commissioning																																			
2	Laser Installation	27 days	7/24/06	Laser Installation																																			
3	Component Installation	5 days	7/24/06	Component Installation																																			
8	Component Characterization	12 days	7/31/06	Component Characterization																																			
27	Beam Characterization	3 days	8/16/06	Beam Characterization																																			
38	Training	7 days	8/21/06	Training																																			
41	Laser Installation complete	0 days	8/29/06	Laser Installation complete																																			
42	S20 Laser Safety System	13 days	8/30/06	S20 Laser Safety System																																			
43	Install Shutters	6 days	8/30/06	Install Shutters																																			
44	Test LSS	5 days	9/7/06	Test LSS																																			
45	Certify LSS w/ LSO	2 days	9/14/06	Certify LSS w/ LSO																																			
46	SLAC Laser Work	10 days	9/18/06	SLAC Laser Work																																			
47	Install pulse picker/intensity modulator	10 days	9/18/06	Install pulse picker/intensity modulator																																			
48	Temporal Characterization and Optimization	27 days	3/16/07	Temporal Characterization and Optimization																																			

Project: Commissioning_Master.mpp Date: 9/12/08









Task  Progress  Summary  External Tasks  Deadline 

Split  Milestone  Project Summary  External Milestone 

LCLS Commissioning Schedule

ID	Task Name	Duration	Start	2008												2009												2010											
				O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S
49	Streak Camera Characterization	25 days	3/16/07	Characterization																																			
54	LLNL TG FROG	27 days	3/16/07																																				
61	Swamp FROG	27 days	3/16/07																																				
68	Active pointing refinement	10 days	4/12/07	Refinement																																			
69	Spatial Shaping	22 days	10/1/06																																				
70	Characterize Shaper Upstairs	10 days	10/1/06																																				
71	Shaping stability	12 days	10/13/06																																				
72	Spatial Shaping Characterization Complete	0 days	10/30/06	Complete																																			
73	Characterization/Stability	10 days	10/31/06																																				
74	Pointing Stability	10 days	10/31/06																																				
77	Energy Stability	10 days	10/31/06																																				
80	Laser Ready for Transport	0 days	11/13/06																																				
81	Transport to Gun	98 days	11/14/06																																				
82	Beam through transport	29 days	11/14/06																																				
90	Virtual Cathode	18 days	2/27/07																																				
99	UV beam on the cathode	0 days	3/16/07	Cathode																																			
100	Beam on the Cathode Adjustment	20 days	3/17/07	Cathode Adjustment																																			
101	Steering over the cathode	10 days	3/17/07	Cathode																																			
102	Beam diameter adjustment	10 days	3/27/07	Adjustment																																			
103	EPICS Integration	173 days	8/30/06	Integration																																			
104	Laser Integration	20 days	8/30/06																																				
105	Energy Diagnostics(incl closed loop and energy control)	20 days	9/27/06	and energy control)																																			
106	Spatial Diagnostics	20 days	10/24/06																																				
107	Spectral Diagnostics	20 days	11/21/06																																				
108	Streak Diagnostics	20 days	1/3/07																																				
109	TG FROG Diagnostics	20 days	1/23/07																																				
110	Pointing Stabilization	20 days	2/12/07																																				
111	Laser Commissioning complete	0 days	4/5/07	Commissioning complete																																			
3	Injector-Linac Commissioning	880 days	6/1/06	Injector-Linac Commissioning												Injector-Linac Commissioning												Injector-Linac Commissioning											
1	Injector Commissioning	356.13 days	6/1/06	Injector Commissioning												Injector Commissioning												Injector Commissioning											
2	RF Gun Preparation	71 days	6/1/06																																				
21	Pre-Beam Checkout Injector/Linac beamline	63 days	12/13/06	Injector/Linac beamlines																																			
33	Injector beamline commissioning	155.13 days	3/17/07	Injector beamline commissioning																																			
161	Linac Commissioning	236 days	4/15/07	Linac Commissioning																																			
163	Take beam to TD11 (after BC1)	130.13 days	4/15/07	Take beam to TD11 (after BC1)																																			
164	First Pass Commissioning/beam to TD11	31.88 days	4/15/07	Commissioning/beam to TD11																																			
203	Linac beam ready on TD11	0 days	5/16/07	ready on TD11																																			
204	Second Pass Commissioning/characterization	40.25 days	6/24/07	Second Pass Commissioning/characterization																																			
240	Linac beam characterized to TD11	0 days	8/4/07	Linac beam characterized to TD11																																			
241	Third-Pass Commissioning/beam to SL2	4 days	8/19/07	Third-Pass Commissioning/beam to SL2																																			
244	Gun to BC1 Commissioning Complete	0 days	8/23/07	Gun to BC1 Commissioning Complete																																			
246	Perform Pre-Beam Checkout through BC2	10 days	10/18/07	Perform Pre-Beam Checkout through BC2																																			

Project: Commissioning_Master.mpp
Date: 9/12/08

Task		Progress		Summary		External Tasks		Deadline	
Split		Milestone		Project Summary		External Milestone	