

ID	Milestone	Baseline	CR Projected	Variance	4	2005		2006		2007		2008		2009		2010	
					Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr
1	Level 1 DOE (SC1) Milestones	8/29/08	5/31/10	434 days													
2	CD0 - Approve Mission Need	6/17/01	6/17/01	0 days													
3	CD1 - Approve Preliminary Baseline Range	10/16/02	10/16/02	0 days													
4	CD2a - Approve Long-Lead Procurement Budget	7/30/04	7/30/04	0 days	◆												
5	CD3a - Approve Start of Long Lead Procurement	10/29/04	10/29/04	0 days	◆												
6	CD2b - Approve Performance Baseline	3/31/05	3/31/05	0 days		◆											
7	CD3b - Approve Start of Construction	2/28/06	3/21/06	15 days				◆									
8	CD4a - Start of Near Hall Operations	NA	7/31/09	0 days													◆
9	CD4b - Start of Far Hall Ops - Project Complete	NA	5/31/10	0 days													◆
10	Level 2 DOE (SSO) Milestones	8/29/08	4/8/10	397 days													
11	Prelim Safety Assessment (PSAD) Doc Complete	4/30/04	4/30/04	0 days	◆												
12	DOE External Independent Review (EIR) Complete	6/15/04	6/15/04	0 days	◆												
13	Fire Hazard Analysis Approved	6/30/05	8/15/05	32 days				◆									
14	Prelim Safety Assessment (PSAD) Doc Approved	2/28/06	2/28/06	0 days				◆									
15	Delivery of Undulator 1st Articles to MMF	7/3/06	6/15/06	-12 days				◆									
16	Sector 20/Alcove Beneficial Occupancy	7/21/06	4/14/06	-70 days				◆									
17	MMF Qualified & Ready to Measure Prod Undulators	11/27/06	8/28/06	-65 days				◆									
18	Research Yards Mods Beneficial Occupancy	10/20/06	8/30/06	-37 days				◆									
19	Start Injector Commissioning (Drive Laser)	1/29/07	1/16/07	-9 days				◆									
20	Injector Laser Commissioning Review Complete	1/31/07	12/1/06	-34 days				◆									
21	Start Linac (Li20-Li30) Commissioning	3/3/08	2/4/08	-20 days													
22	Linac (Li20-Li30) Commissioning Complete	NA	9/30/08	0 days													
23	Final Safety Analysis Document (FSAD) Approved	3/31/08	10/15/08	142 days													
24	Linac Water/Power Available	7/11/07	3/29/07	-74 days				◆									
25	Start Injector Commissioning(UV Beam to Cathode)	4/9/07	4/5/07	-2 days				◆									
26	Injector Accelerator Readiness Review (ARR) Comp	1/31/07	3/30/07	42 days				◆									
27	XE Start Installation in NEH	5/20/08	9/18/08	87 days													
28	XE Start Installation in FEH	8/20/08	9/1/09	258 days													
29	AMO Ready for Basic Expmnts (CD4a)	NA	2/26/09	0 days													
30	2-D Detector Shipped to SLAC	12/5/07	3/13/09	312 days													
31	XT Start FEE Installation	5/20/08	9/22/08	89 days													
32	Start Installation of Undulator Facility	5/20/08	2/4/08	-76 days													
33	Start Installation of Beam Transport Hall	5/20/08	2/4/08	-76 days													
34	LCLS ARR Complete	7/11/08	2/9/09	140 days													
35	Start Linac-to-Undulator (LTU) Commissioning	7/31/08	2/9/09	126 days													
36	Start Undulator Commissioning (1st Light)	8/18/08	5/5/09	175 days													
37	First X-Rays into NEH	10/8/08	5/5/09	138 days													
38	XT Start Tunnel Installation	8/20/08	8/12/09	244 days													
39	First X-Rays into FEH	NA	4/8/10	0 days													
40	Start NEH Commissioning with Beam	10/2/08	7/13/09	191 days													
41	Level 3 SLAC (LCLS PO) Milestones	NA	3/8/10	0 days													

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Finish (Projected)



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					Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr
62	Injector System (WBS 1.02)	11/26/07	11/21/08	250 days													
63	CRIT: Release RFP for Drive Laser	10/15/04	10/15/04	0 days	◆												
64	Award of Drive Laser Contract Complete	6/30/05	6/30/05	0 days		◆											
65	Laser Tables & Optical Paths Installation Comp	8/21/06	8/1/06	-14 days					◆								
66	Drive Laser Available for Integration	11/16/06	11/30/06	10 days						◆							
67	Start Injector Commissioning (Drive Laser)	12/14/06	1/16/07	14 days						◆							
68	Injector Laser Commissioning Review Complete	12/14/06	11/30/06	-10 days						◆							
69	Injector Accelerator Readiness Review (ARR) Comp	12/15/06	3/30/07	66 days						◆							
73	Injector Controls Installation Complete	1/2/07	3/16/07	52 days						◆							
70	Accelerator Region Installation Complete	1/29/07	12/30/06	-19 days						◆							
71	Gun Region Installation Complete	1/29/07	3/30/07	44 days						◆							
72	Injector RF Subsystem Installation Complete	1/31/07	3/30/07	42 days						◆							
74	Spectrometer Installation Complete	2/2/07	3/30/07	40 days						◆							
76	Insertion Region Installation Complete	2/8/07	12/30/06	-27 days						◆							
75	RF Gun Ready for Installation	2/15/07	12/1/06	-45 days						◆							
77	Start Injector Commissioning(UV Beam to Cathode)	3/6/07	4/5/07	22 days						◆							
78	Laser Heater Installation Complete	1/2/08	11/21/08	230 days								●					
79	Linac System (WBS 1.03)	6/9/08	1/8/09	142 days													
80	CRIT: Release RFP X-Band Klystron	2/25/05	2/25/05	0 days		◆											
81	Shutdown of FFTB Operations	6/1/06	4/10/06	-38 days						◆							
82	BC1 Bend Magnet Ready for Installation	11/13/06	9/29/06	-31 days						◆							
83	X-Band Klystron Ready for Installation	11/27/06	8/31/06	-62 days						◆							
84	BC1 Installation Complete	1/29/07	1/31/07	2 days						◆							
85	Linac Controls Ready for BC1 Installation	1/31/07	3/16/07	32 days						◆							
86	Start BC1 Commissioning	2/28/07	3/30/07	22 days						◆							
87	Linac Commissioning Review Complete - S20-30	11/5/07	1/3/08	35 days						◆							
88	BC2 Installation Complete	1/2/08	1/2/08	0 days								●					
89	Start Linac (Li20-Li30) Commissioning	2/1/08	1/7/08	-19 days								●					
90	E-Dump Component Installation Complete	3/26/08	8/15/08	102 days								●					
91	LTU Component Installation Complete	3/26/08	10/3/08	137 days								●					
92	Linac Commissioning Review Complete - LTU	3/31/08	1/7/09	191 days								●					
93	Start Linac-to-Undulator (LTU) Commissioning	6/30/08	1/8/09	127 days								●					
94	Undulator System (WBS 1.04)	8/18/08	4/6/09	154 days													
95	CRIT: Release RFP Ti Strongback	1/14/05	1/14/05	0 days	◆												
96	CRIT: Release RFP Magnet Poles	2/4/05	2/4/05	0 days	◆												
97	CRIT: Release RFP Magnet Blocks	3/23/05	3/23/05	0 days	◆												
98	CRIT: Release RFP Magnet Assemblies - 1st Art	6/28/05	6/28/05	0 days		◆											
99	Award of 1st Articles Mag Assy to Vendors Comp	10/11/05	10/4/05	-5 days						◆							
100	CRIT: Release RFP - Quadrupoles	4/12/06	6/14/06	45 days						◆							
101	Undulator SUT Completed	4/28/06	7/19/06	58 days						◆							
102	CRIT: Release RFP - Fixed Supports	5/9/06	5/9/06	0 days						◆							

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Baseline ●

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					Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr
103	1st Article Vendor A Undulator 1 Rcvd @ SLAC	6/2/06	3/30/06	-46 days													
104	1st Article Vendor B Undulator 2 Rcvd @ SLAC	6/2/06	6/15/06	9 days													
105	MMF Qualified & Ready to Measure Prod Undulators	10/27/06	8/28/06	-44 days													
106	25% production undulators received	1/2/07	8/28/06	-83 days													
107	50% production undulators received	3/19/07	12/21/06	-54 days													
108	75% production undulators received	6/7/07	1/31/07	-91 days													
109	Undulator Production Units (33) Received	7/6/07	4/30/07	-49 days													
110	Hydrostatic Level System Complete	5/28/08	8/8/08	52 days													
112	Wire Monitoring System Complete	5/28/08	8/8/08	52 days													
113	Undulator System Installation Complete	5/28/08	11/14/08	122 days													
117	Start Undulator Commissioning (1st Light)	7/18/08	4/6/09	175 days													
111	Undulator Controls Ready for Commissioning	NA	4/28/08	0 days													
114	1st Production Vacuum Chamber Delivered to SLAC	NA	1/2/08	0 days													
115	1st Production RFBPM Delivered to SLAC	NA	4/4/08	0 days													
116	1st Production BFW Delivered to SLAC	NA	11/17/07	0 days													
118	X-Ray Transport & Diagnostics (WBS 1.05)	9/15/08	3/8/10	363 days													
119	Tunnel Mech/Vac Design Review Complete	11/29/06	11/14/06	-11 days													
120	Fixed Mask Ready to Ship to SLAC	7/30/07	12/14/07	99 days													
123	Gas/Solid Attenuator Ready to Ship to SLAC	10/29/07	2/15/08	70 days													
124	XT Start FEE Installation	12/4/07	8/21/08	178 days													
126	XT Tunnel/FEH Install/Check Complete	5/13/08	1/11/10	412 days													
127	FEE Install/Check Complete	8/14/08	2/9/09	116 days													
128	Start FEE Commissioning with Beam	9/8/08	4/6/09	139 days													
121	AWARD: LE Mirror Substrate	NA	7/31/07	0 days													
122	AWARD: HE Mirror Substrate	NA	11/16/07	0 days													
125	XT Start Tunnel Installation	NA	7/13/09	0 days													
129	First X-Rays into FEH	NA	3/8/10	0 days													
147	Conventional Facilities (WBS 1.09)	11/10/08	7/16/09	167 days													
148	A&E Serv (S20, MMF, MCC not incl) Title 1 Comp	4/30/04	4/30/04	0 days													
149	A&E Serv Sector 20 Title 1 Complete	4/30/04	4/30/04	0 days													
150	A&E Services MMF Title 1 Complete	4/30/04	4/30/04	0 days													
152	A&E Services Sector 20 Title 2 Complete	3/18/05	3/18/05	0 days													
151	CRIT: Rel RFP T3 Const. Pkg. RF Hut & S20/Alcove	4/1/05	4/1/05	0 days													
153	CRIT: Release RFP T3 Construction Contract (MMF)	4/14/05	4/14/05	0 days													
154	A&E Services MMF Title 2 Complete	5/31/05	5/31/05	0 days													
155	CRIT: Release RFP Construction Mgmt Pkg (CM)	7/25/05	7/25/05	0 days													
156	Award of Sector 20 Title 3 Complete	8/5/05	7/28/05	-6 days													
157	Award of Magnetic Msmt Facility Title 3 Complete	8/5/05	7/28/05	-6 days													
158	Award of Construction Management Package - Ph.1	9/30/05	10/17/05	11 days													
159	RF Hut Beneficial Occupancy	12/7/05	3/9/06	56 days													
160	A&E Serv (S20, MMF, MCC not incl) Title 2 Comp	1/20/06	2/28/06	27 days													

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					Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr
161	CRIT: Release RFP T3 Construct (RY-CLOC)	1/26/06	3/8/06	29 days													
162	Magnetic Msmt Facility(MMF) Beneficial Occupancy	4/3/06	3/29/06	-3 days													
163	Sector 20 Alcove Beneficial Occupancy	6/21/06	4/14/06	-48 days													
164	CRIT: Release RFP T3 Construction Pkg (Linac)	7/10/06	7/31/06	15 days													
165	Research Yards Mods Beneficial Occupancy	9/21/06	8/30/06	-16 days													
174	Linac Power/Water Available	6/11/07	3/29/07	-52 days													
176	Front End Enclosure Co-Occupancy	12/4/07	12/4/07	0 days													
177	Beam Transport Hall Co-Occupancy	12/4/07	12/4/07	0 days													
178	Undulator Facility Co-Occupancy	12/4/07	12/4/07	0 days													
179	Beam Dump Co-Occupancy	12/4/07	12/4/07	0 days													
180	Central Utility Plant Co-Occupancy	12/20/07	12/20/07	0 days													
181	Near Experimental Hall Co-Occupancy	12/20/07	12/20/07	0 days													
182	X-Ray Transport Co-Occupancy	1/7/08	1/7/08	0 days													
166	Undulator Facility Beneficial Occupancy	3/20/08	3/20/08	0 days													
167	Near Experimental Hall Beneficial Occupancy	3/20/08	3/20/08	0 days													
168	Front End Enclosure Beneficial Occupancy	3/20/08	3/20/08	0 days													
169	Beam Dump Beneficial Occupancy	3/20/08	3/20/08	0 days													
170	Central Utility Plant Beneficial Occupancy	3/20/08	3/20/08	0 days													
171	Beam Transport Hall Beneficial Occupancy	3/20/08	3/20/08	0 days													
172	Far Experimental Hall Co-Occupancy	3/21/08	3/21/08	0 days													
173	CEH Building Beneficial Occupancy	4/26/08	7/16/09	308 days													
175	Far Experimental Hall Beneficial Occupancy	6/20/08	6/20/08	0 days													
183	X-Ray Transport Beneficial Occupancy	6/20/08	6/20/08	0 days													
184	B028 Beneficial Occupancy	11/12/08	5/5/09	113 days													
185	FEH Hutches Beneficial Occupancy	NA	7/1/09	0 days													
130	X-Ray Endstations (WBS 1.06)	1/20/09	2/5/10	262 days													
131	Complete 2-D X-Ray Detector Statement of Work	7/1/05	5/16/05	-34 days													
132	Award Initial Funding for 2-D X-Ray Detector	7/15/05	7/15/05	0 days													
133	Hire Atomic Physicist	3/17/06	1/3/06	-52 days													
134	Hire Detector Physicist	4/3/06	1/17/06	-54 days													
135	LDAC Mid-Project Review (2D Detector)	3/19/07	11/30/07	184 days													
137	Award XES Laser System	10/4/07	3/20/08	111 days													
138	FEE/NEH PPS Certified	10/4/07	2/23/09	342 days													
140	2-D Detector Shipped to SLAC	11/5/07	2/13/09	314 days													
142	Electron Dump Stoppers Certified	3/25/08	1/8/09	196 days													
143	XE Start Installation in NEH	4/16/08	8/18/08	88 days													
141	XE Start Installation in FEH	8/20/08	8/3/09	237 days													
144	First X-Rays into NEH	9/2/08	6/15/09	193 days													
145	XES Laser Operating in Near Hall	9/19/08	11/24/08	46 days													
136	COMP: AMO PDR Meeting	NA	8/31/07	0 days													
139	TUN/FEH PPS Certified	NA	2/5/10	0 days													

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					Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr
146	AMO Experiment for Basic Expmnts (CD4a)	NA	1/26/09	0 days													
42	Project Management (WBS 1.01)	NA	1/8/09	0 days													
43	Advanced Procurement Management Plan Complete	2/28/04	2/28/04	0 days													
44	Resource Loaded Cost & Schedule (Final) Complete	4/30/04	4/30/04	0 days	◆												
45	1st Monthly Report (with Earned Value) Submitted	4/30/04	4/30/04	0 days	◆												
46	Risk Management Plan Complete	4/30/04	4/30/04	0 days	◆												
47	Prelim Safety Assessment Doc (PSAD) Submitted	4/30/04	4/30/04	0 days	◆												
48	Project Mgmt Control Syst (PMCS) Review Complete	4/30/04	4/30/04	0 days	◆												
49	Project Mgmt Plan Complete	4/30/04	4/30/04	0 days	◆												
50	CRIT: Start Procurement Package - PMCS Support	10/1/04	10/1/04	0 days	◆												
51	Fire Hazard Analysis Review @ SLAC	6/10/05	7/15/05	25 days		◆											
52	FY05 Shutdown: HW Req'd for Installation	10/3/05	10/3/05	0 days			◆										
53	FY05 Shutdown Over	10/31/05	10/31/05	0 days			◆										
54	FY06 Shutdown: HW Req'd for Installation	8/1/06	8/21/06	14 days				◆									
55	FY06 Shutdown Over	1/5/07	3/29/07	59 days					◆								
56	FY07 Shutdown: HW Req'd for Installation	9/4/07	9/4/07	0 days						◆							
57	FY07 Shutdown Over	11/30/07	12/3/07	1 day							◆						
58	LCLS ARR Complete	6/12/08	1/8/09	139 days								◆					
59	Start FY08 Shutdown	9/12/08	10/1/08	13 days									◆				
60	FY08 Shutdown Over	1/2/09	11/3/08	-34 days										◆			
61																	
187	<u>Projected Milestone Symbol</u>	3/31/09	3/31/09	-1 day													
188	<u>Achieved Milestone Symbol</u>	3/31/09	3/31/09	-1 day													
186	<u>Baseline Milestone Symbol</u>	3/31/09	3/31/09	-1 day													