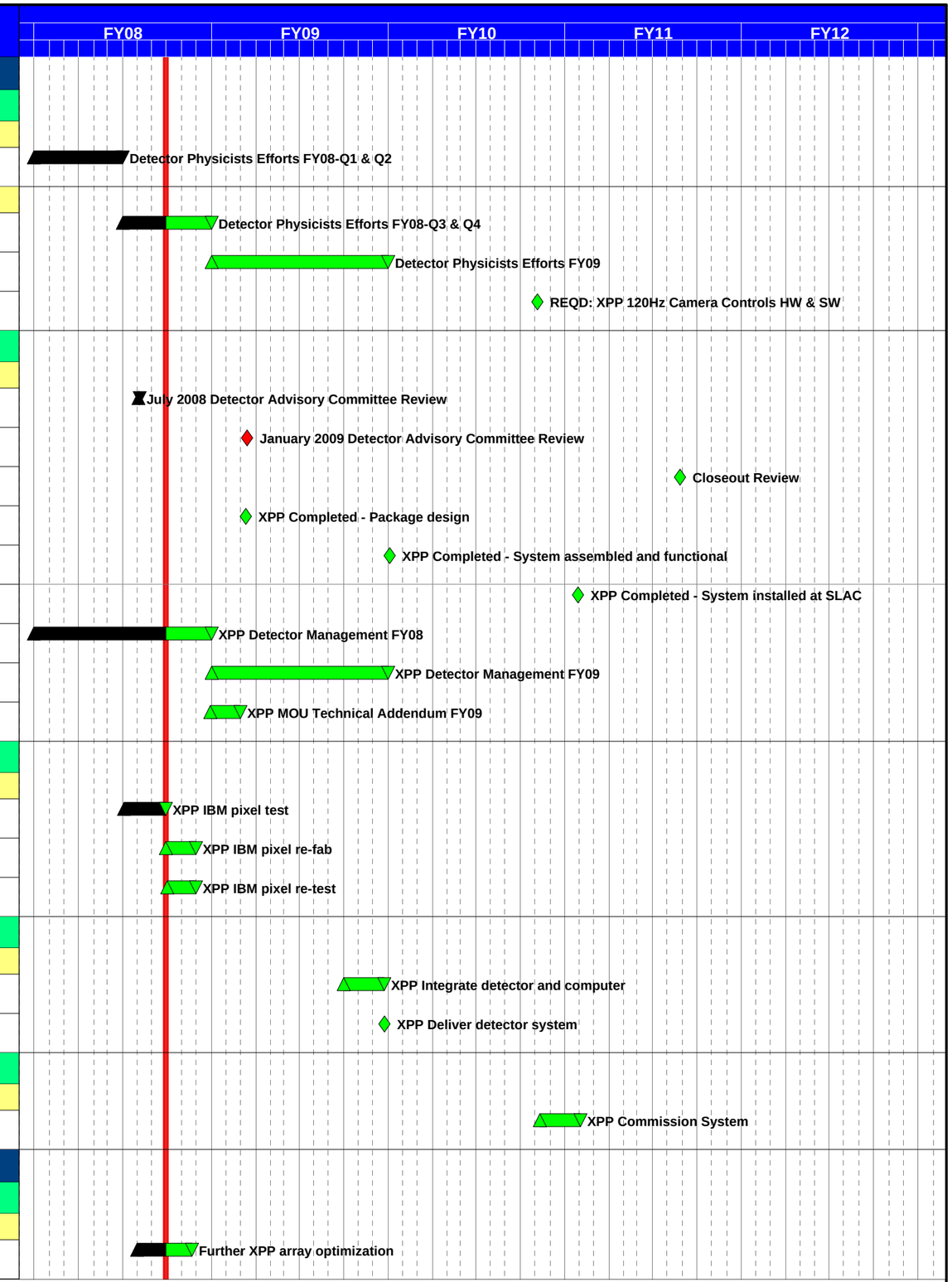
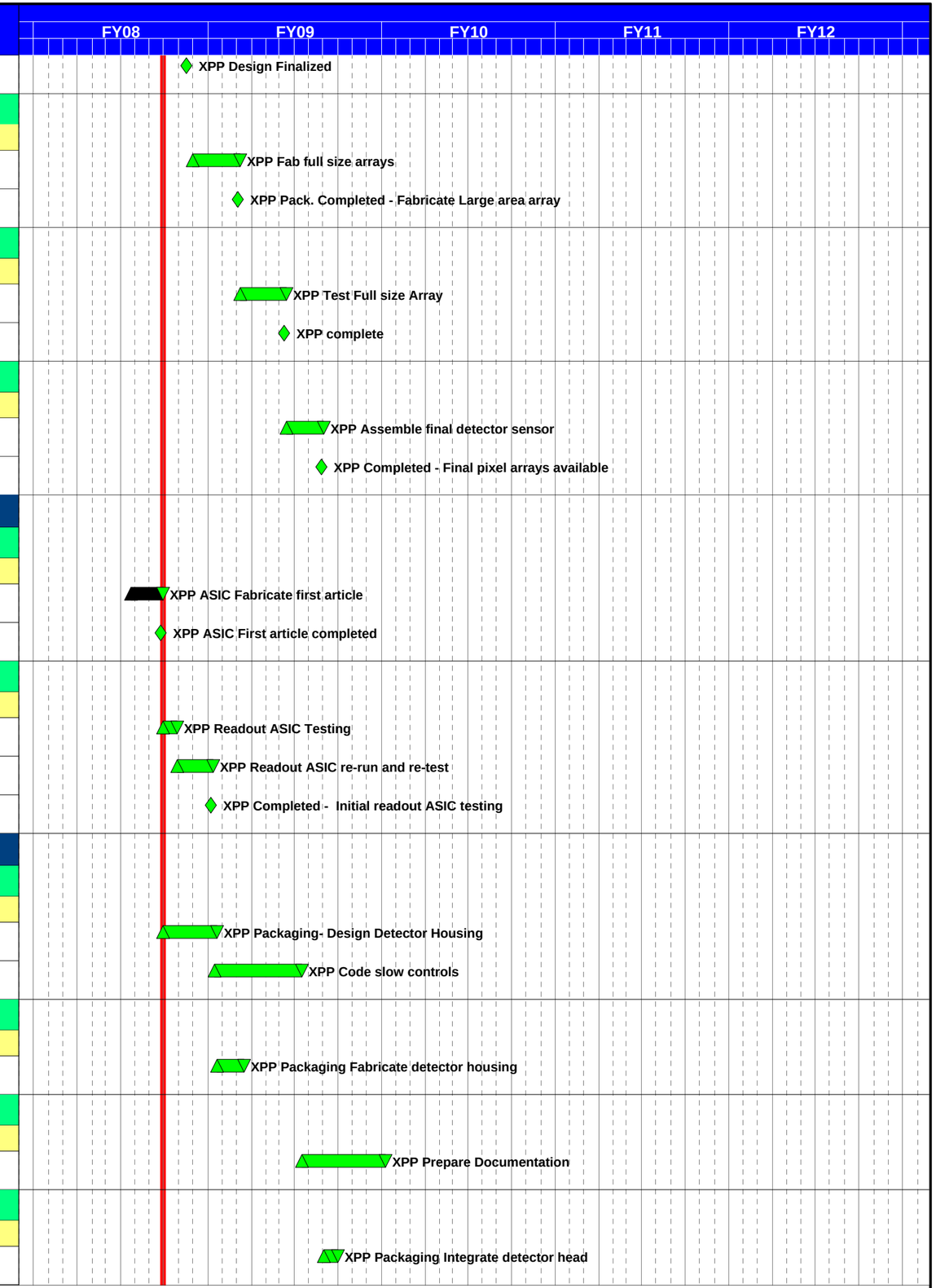
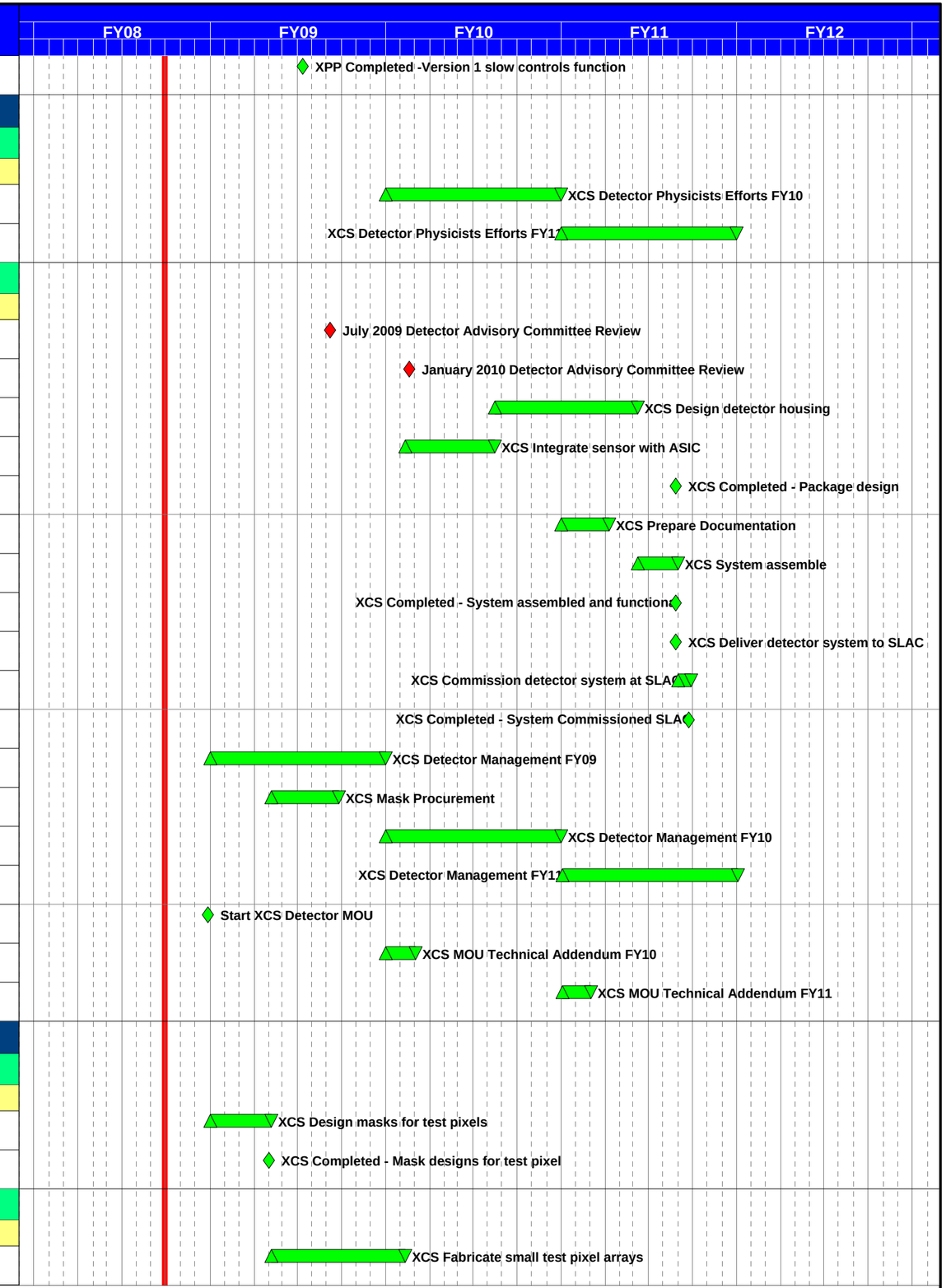
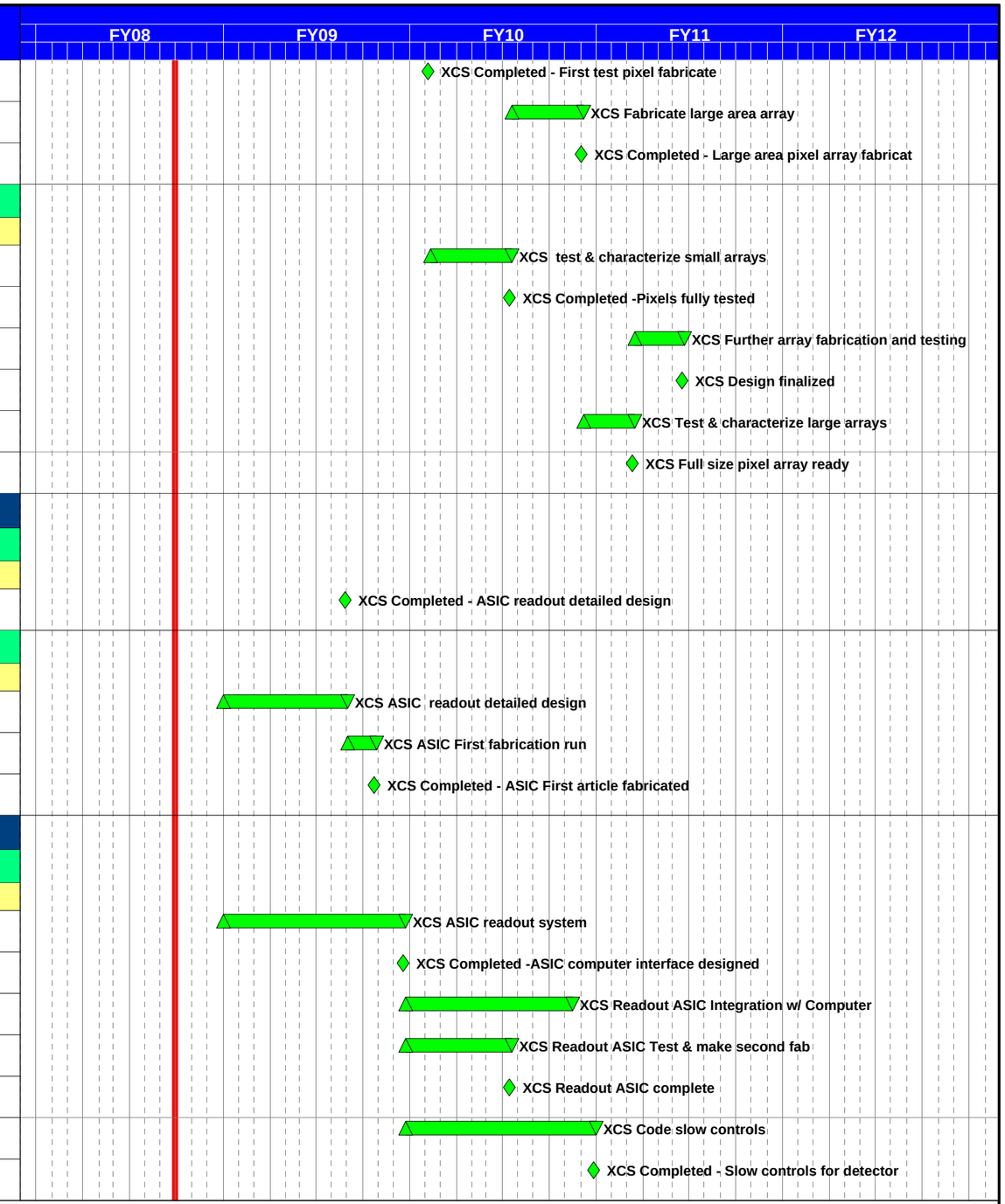
Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
1.2.04.01 Detector Support and Integration						
01 Management / Administration						
9100241 XRPP 2-D X-Ray Detector (BNL)						
XPP 05400	Detector Physicists Efforts FY08-Q1 & Q2	121		HIST_M&S, HIST_LBR	39,396.00	XPP 01000
9110241 Mgmt/Administration - Detector Support and Integ						
XPP 05410	Detector Physicists Efforts FY08-Q3 & Q4	131*	130	SL_PHSS	65,819.64	XPP 05400
XPP 05420	Detector Physicists Efforts FY09	249	130	SL_PHSS	65,058.72	XPP 05410*
XPP 05470	REQD: XPP 120Hz Camera Controls HW & SW	0	452		0.00	CD 04320*, CD 04340*
02 Design / Engineering						
9110241 Mgmt/Administration - Detector Support and Integ						
BL 01070	July 2008 Detector Advisory Committee Review	2			0.00	
BL 01080	January 2009 Detector Advisory Committee Review	0	0		0.00	BL 01070
BL 01130	Closeout Review	0	313		0.00	BL 01850*
BL 01450	XPP Completed - Package design	0	919		0.00	BL 01430, BL 01440*
BL 01480	XPP Completed - System assembled and functional	0	718		0.00	BL 01450, BL 01460*, BL 01470, BL 01960
BL 01510	XPP Completed - System installed at SLAC	0	452		0.00	BL 01500*
BL 02078	XPP Detector Management FY08	262	724	BL_SCI03, BL_TRVL, BL_PCG	140,043.36	
BL 02080	XPP Detector Management FY09	249	724	BL_TRVL, BL_SCI03	19,762.04	BL 02078*
BL 02130	XPP MOU Technical Addendum FY09	43	931		0.00	
04 Subcontract						
9110241 Mgmt/Administration - Detector Support and Integ						
BL 02160	XPP IBM pixel test	62	159		0.00	
BL 02190	XPP IBM pixel re-fab	44	159		0.00	BL 02160*
BL 02200	XPP IBM pixel re-test	43	159		0.00	BL 02190*
06 Testing						
9110241 Mgmt/Administration - Detector Support and Integ						
BL 01470	XPP Integrate detector and computer	100	159	BL_SCI03, BL_SCI01, BL_MSHV, BL_PDOC2, BL_PDOC1,	286,697.64	BL 01520*
BL 01490	XPP Deliver detector system	0	159		0.00	BL 01470*
07 Installation						
9110241 Mgmt/Administration - Detector Support and Integ						
BL 01500	XPP Commission System	60	452	BL_SCI03, BL_EE2	40,578.69	BL 01490, XPP 05470*
1.2.04.02 Detector Sensor						
02 Design / Engineering						
9110242 Design/Engineering - Detector Sensor						
BL 01260	Further XPP array optimization	60	165	BL_MSHV, BL_EE1	95,950.64	



Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
BL 01270	XPP Design Finalized	0	1,001		0.00	BL 01260*
05 Fab / Assembly						
9110242 Design/Engineering - Detector Sensor						
BL 01280	XPP Fab full size arrays	70	159	BL_SCI01, BL_PDOC1	78,310.17	BL 01260, BL 02200*
BL 01290	XPP Pack. Completed - Fabricate Large area array	0	925		0.00	BL 01280*
06 Testing						
9110242 Design/Engineering - Detector Sensor						
BL 01300	XPP Test Full size Array	59	159	BL_PDOC1, BL_SCI02	66,575.47	BL 01280*
BL 01310	XPP complete	0	866		0.00	BL 01300*
07 Installation						
9110242 Design/Engineering - Detector Sensor						
BL 01320	XPP Assemble final detector sensor	56	159		0.00	BL 01300*
BL 01330	XPP Completed - Final pixel arrays available	0	810		0.00	BL 01320*
1.2.04.03 Detector Application Specific Integrated Circuit						
05 Fab / Assembly						
9110243 Design/Engineering - Detector ASIC						
BL 01360	XPP ASIC Fabricate first article	49	718	BL_EE1, BL_PDOC2	60,360.55	
BL 01370	XPP ASIC First article completed	0	1,039		0.00	BL 01360*
06 Testing						
9110243 Design/Engineering - Detector ASIC						
BL 01400	XPP Readout ASIC Testing	20	718	BL_EE2, BL_MSHV	150,787.60	BL 01360*
BL 01410	XPP Readout ASIC re-run and re-test	55	718	BL_EE1, BL_EE2, BL_ED1, BL_CPSCT, BL_CPSCT	92,699.44	BL 01400, BL 01400*
BL 01420	XPP Completed - Initial readout ASIC testing	0	964		0.00	BL 01410*
1.2.04.04 Detector Controls, Electronics and DAQ						
02 Design / Engineering						
9110244 Dsgn/Engnrng - Detecr Cntrls, Elctrncs & DAQ						
BL 01430	XPP Packaging- Design Detector Housing	80	268	BL_ME1, BL_ME1, BL_PDOC1, BL_MT1	93,588.28	
BL 01950	XPP Code slow controls	118	718	BL_PGRM, BL_PGRM	107,177.46	BL 01410, BL 01410*
05 Fab / Assembly						
9110244 Dsgn/Engnrng - Detecr Cntrls, Elctrncs & DAQ						
BL 01440	XPP Packaging Fabricate detector housing	40	268	BL_EE1	29,264.97	BL 01430*
06 Testing						
9110244 Dsgn/Engnrng - Detecr Cntrls, Elctrncs & DAQ						
BL 01460	XPP Prepare Documentation	125	718	BL_CPSCT, BL_SCI03, BL_PDOC2, BL_CPSCT	37,404.78	BL 01950, BL 01950*
07 Installation						
9110244 Dsgn/Engnrng - Detecr Cntrls, Elctrncs & DAQ						
BL 01520	XPP Packaging Integrate detector head	20	159		0.00	BL 01320*, BL 01440



Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
BL 01960	XPP Completed -Version 1 slow controls function	0	843		0.00	BL 01950*
1.4.03.01 Detector Support and Integration						
01 Management / Administration						
9110431 Detector Support and Integration						
XCS1403000	XCS Detector Physicists Efforts FY10	249	130	SL_PHSS	67,663.26	XPP 05420*
XCS1403010	XCS Detector Physicists Efforts FY11	249	130	SL_PHSS	70,367.40	XCS1403000*
02 Design / Engineering						
9110431 Detector Support and Integration						
BL 01090	July 2009 Detector Advisory Committee Review	0	0		0.00	BL 01080
BL 01100	January 2010 Detector Advisory Committee Review	0	0		0.00	BL 01090
BL 01790	XCS Design detector housing	200	173	BL_PDOC2, BL_ME1, BL_MT1, BL_MT1	149,533.36	BL 01800*
BL 01800	XCS Integrate sensor with ASIC	120	173	BL_MSHV, BL_SCI01, BL_PDOC2, BL_EE3, BL_MSMA	145,567.65	BL 01590*
BL 01810	XCS Completed - Package design	0	313		0.00	BL 01790, BL 01800, BL 01830*
BL 01820	XCS Prepare Documentation	60	226	BL_PDOC2, BL_PDOC1	28,338.21	BL 01970, BL 01970*
BL 01830	XCS System assemble	60	173	BL_PDOC1, BL_MT1, BL_PDOC2	57,592.17	BL 01790*, BL 02000
BL 01840	XCS Completed - System assembled and functional	0	313		0.00	BL 01820, BL 01830*
BL 01850	XCS Deliver detector system to SLAC	0	173		0.00	BL 01820, BL 01830*
BL 01860	XCS Commission detector system at SLAC	20	293	BL_SCI03	3,936.24	BL 01850*
BL 01870	XCS Completed - System Commissioned SLAC	0	293		0.00	BL 01860*
BL 01990	XCS Detector Management FY09	249	225	BL_TRVL, BL_PCG, BL_SCI03	104,170.28	PM300100*
BL 02000	XCS Mask Procurement	100	593	BL_MSHV	92,000.00	BL 01570, BL 01580*
BL 02030	XCS Detector Management FY10	249	225	BL_SCI03, BL_PCG, BL_TRVL	67,453.37	BL 01990*
BL 02060	XCS Detector Management FY11	249	225	BL_PCG, BL_SCI03	43,329.52	BL 02030*
BL 02110	Start XCS Detector MOU	0	173		0.00	
BL 02170	XCS MOU Technical Addendum FY10	43	637		0.00	BL 02030*
BL 02180	XCS MOU Technical Addendum FY11	43	431		0.00	BL 02060*, BL 02170
1.4.03.02 Detector Sensor						
02 Design / Engineering						
9110432 Detector Sensor						
BL 01570	XCS Design masks for test pixels	80	173	BL_SCI02	34,983.06	BL 02110*
BL 01580	XCS Completed - Mask designs for test pixel	0	593		0.00	BL 01570*
05 Fab / Assembly						
9110432 Detector Sensor						
BL 01590	XCS Fabricate small test pixel arrays	200	173	BL_PDOC1, BL_EE3, BL_PDOC2, BL_MSMA	128,375.83	BL 01570*



Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
BL 01600	XCS Completed - First test pixel fabricate	0	693		0.00	BL 01590*
BL 01660	XCS Fabricate large area array	100	363	BL_PDOC1, BL_EE3	188,860.60	BL 01610*
BL 01670	XCS Completed - Large area pixel array fabricat	0	493		0.00	BL 01660*
06 Testing						
9110432 Detector Sensor						
BL 01610	XCS test & characterize small arrays	100	363	BL_SCI02, BL_PDOC1	109,418.82	BL 01590*
BL 01620	XCS Completed -Pixels fully tested	0	593		0.00	BL 01610*
BL 01640	XCS Further array fabrication and testing	60	363		0.00	BL 01680*
BL 01650	XCS Design finalized	0	363		0.00	BL 01640*
BL 01680	XCS Test & characterize large arrays	70	363	BL_ED1, BL_PDOC2, BL_PDOC1, BL_SCI02	74,204.61	BL 01660*
BL 01690	XCS Full size pixel array ready	0	423		0.00	BL 01680*
1.4.03.03 Detector Application Specific Integrated Circuit						
02 Design / Engineering						
9110433 Detector Application Specific Integrated Circuit						
BL 01710	XCS Completed - ASIC readout detailed design	0	593		0.00	BL 01715*
05 Fab / Assembly						
9110433 Detector Application Specific Integrated Circuit						
BL 01715	XCS ASIC readout detailed design	163	593	BL_MSHV, BL_EE1	100,334.97	BL 02110*
BL 01720	XCS ASIC First fabrication run	40	593	BL_PDOC2, BL_EE1, BL_MSEQ	68,190.60	BL 01710*, BL 01715*
BL 01730	XCS Completed - ASIC First article fabricated	0	770		0.00	BL 01715, BL 01720*
1.4.03.04 Detector Controls, Electronics and DAQ						
06 Testing						
9110434 Detector Controls, Electronics and DAQ						
BL 01740	XCS ASIC readout system	245	226	BL_EE2, BL_PGRM, BL_PDOC2, BL_EE2	81,788.30	BL 02110*
BL 01750	XCS Completed -ASIC computer interface designed	0	728		0.00	BL 01740*
BL 01760	XCS Readout ASIC Integration w/ Computer	220	508	BL_CPSCT, BL_EE1	76,000.44	BL 01740*
BL 01770	XCS Readout ASIC Test & make second fab	137	593	BL_EE1, BL_MSMA, BL_MSEQ	207,138.18	BL 01720*
BL 01780	XCS Readout ASIC complete	0	593		0.00	BL 01770*
BL 01970	XCS Code slow controls	253	226	BL_PGRM, BL_CPSCT	108,312.69	BL 01740*
BL 01980	XCS Completed - Slow controls for detector	0	475		0.00	BL 01780, BL 01970*