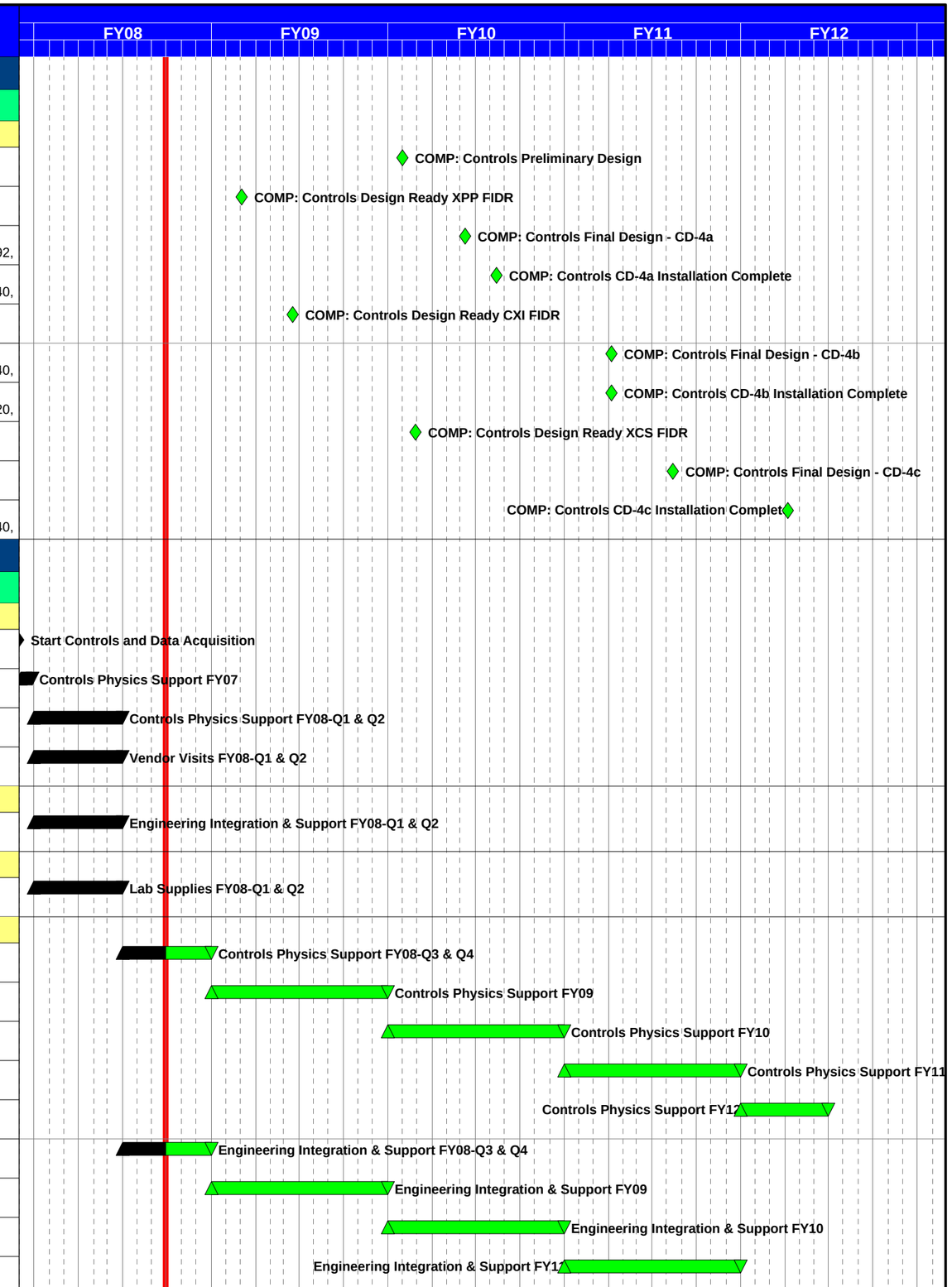
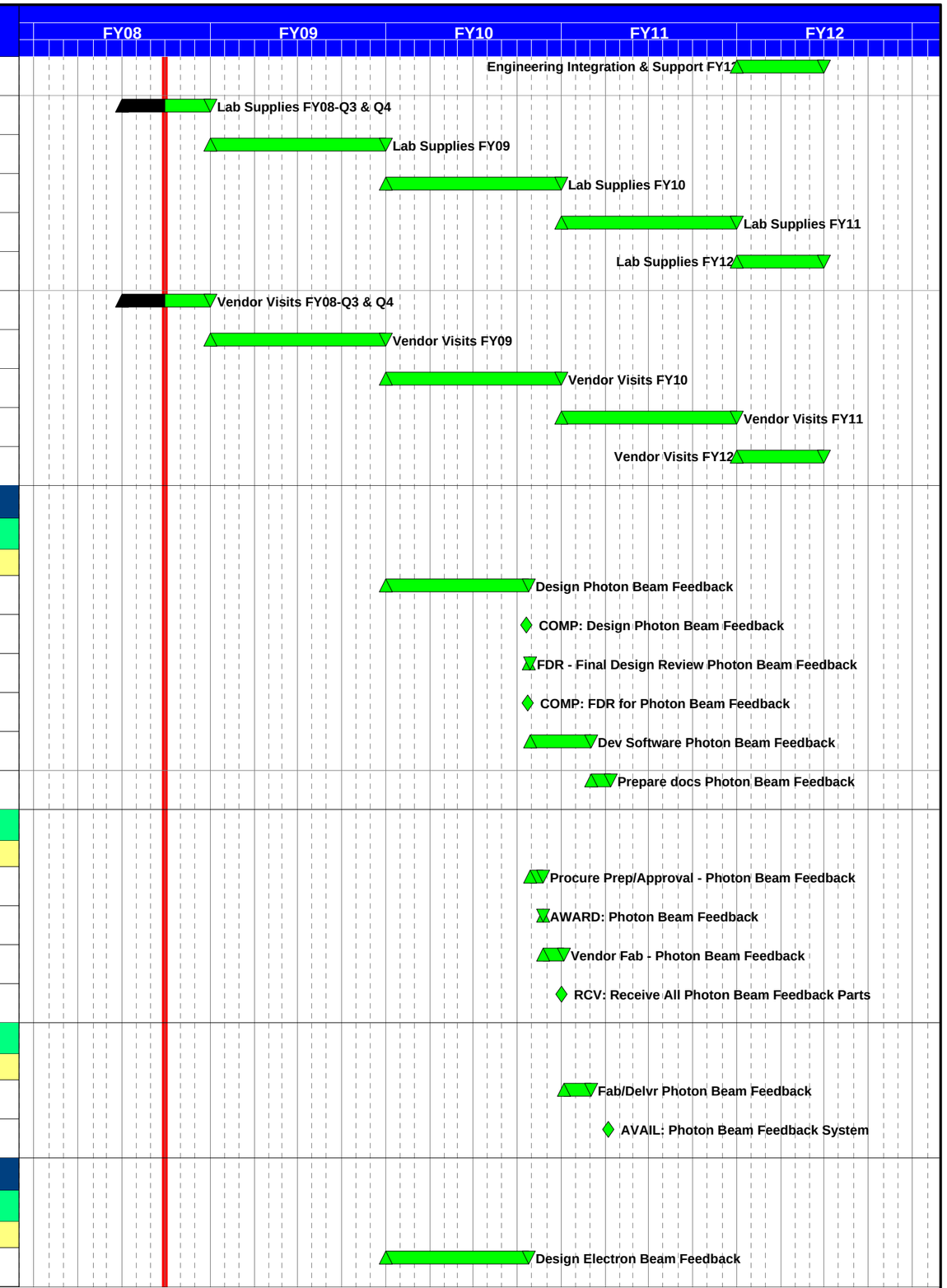
Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
1.6 CONTROLS AND DATA ACQUISITION						
01 Management / Administration						
CD 00001	COMP: Controls Preliminary Design	0	238		0.00	CD 01020, CD 07740, CD 13700, CD 19610, CD 19665, CD 19735*
CD 00002	COMP: Controls Design Ready XPP FIDR	0	125		0.00	CD 01000*
CD 00003	COMP: Controls Final Design - CD-4a	0	157		0.00	CD 00001, CD 01140, CD 01840, CD 02040, CD 02230, CD 02562, CD 02592,
CD 00004	COMP: Controls CD-4a Installation Complete	0	110		0.00	CD 00003, CD 01120, CD 01260, CD 01380, CD 01400, CD 01520, CD 01540,
CD 00007	COMP: Controls Design Ready CXI FIDR	0	264		0.00	CD 07700*
CD 00009	COMP: Controls Final Design - CD-4b	0	147		0.00	CD 07760, CD 08560, CD 08780, CD 08980, CD 09322, CD 09540, CD 09740,
CD 00014	COMP: Controls CD-4b Installation Complete	0	146		0.00	CD 00009, CD 07760, CD 07840*, CD 07960, CD 08080, CD 08100, CD 08220,
CD 00017	COMP: Controls Design Ready XCS FIDR	0	189		0.00	CD 03140*, CD 13660
CD 00019	COMP: Controls Final Design - CD-4c	0	283		0.00	CD 03140, CD 13720, CD 14060, CD 14240, CD 14420, CD 15900, CD
CD 00024	COMP: Controls CD-4c Installation Complete	0	123		0.00	CD 00019, CD 13800, CD 14180, CD 14200, CD 15300, CD 15420, CD 15440,
1.6.01 Controls and Data Acquisition System Integration						
01 Management / Administration						
9100491 Controls Physics Support & Engr						
CD 00015	Start Controls and Data Acquisition	0			0.00	PM 02000
CD 00020	Controls Physics Support FY07	19			0.00	CD 00015
CD 00025	Controls Physics Support FY08-Q1 & Q2	121		HIST_LBR	78,115.00	CD 00020
CD 00088	Vendor Visits FY08-Q1 & Q2	121			0.00	CD 00020
9100501 Controls Specs, Design & Engr						
CD 00055	Engineering Integration & Support FY08-Q1 & Q2	121		HIST_M&S	119.00	CD 00020
9100571 Controls Specs, Design & Engr						
CD 00078	Lab Supplies FY08-Q1 & Q2	121		HIST_M&S	22.00	CD 00020
9110601 Controls and DAQ System Integ & Design Support						
CD 00027	Controls Physics Support FY08-Q3 & Q4	131	110	SL_PHSS	0.00	CD 00025
CD 00030	Controls Physics Support FY09	249	110	SL_PHSS	0.00	CD 00025, CD 00027*
CD 00035	Controls Physics Support FY10	249	110	SL_PHSS	0.00	CD 00030*
CD 00040	Controls Physics Support FY11	249	110	SL_PHSS	0.00	CD 00035*
CD 00045	Controls Physics Support FY12	116	110	SL_PHSS	0.00	CD 00040*
CD 00057	Engineering Integration & Support FY08-Q3 & Q4	131	110	SL_CE	168,015.00	CD 00055
CD 00060	Engineering Integration & Support FY09	249	110	SL_CE	205,488.36	CD 00055, CD 00057*
CD 00065	Engineering Integration & Support FY10	249	110	SL_CE	213,708.60	CD 00060*
CD 00070	Engineering Integration & Support FY11	249	110	SL_CE	222,264.00	CD 00065*

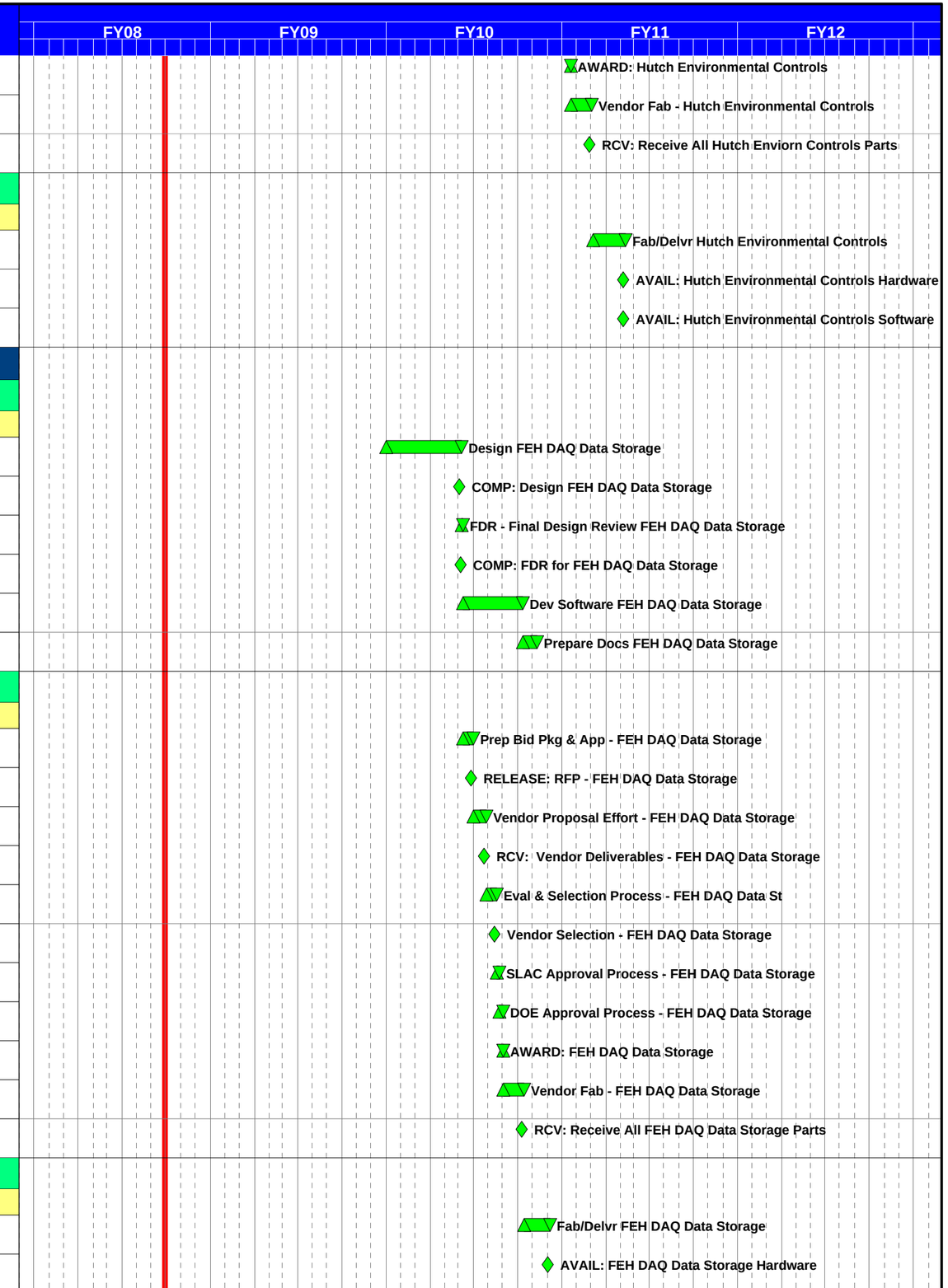


Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
CD 00075	Engineering Integration & Support FY12	116	110	SL_CE	104,832.00	CD 00045*, CD 00070*
CD 00079	Lab Supplies FY08-Q3 & Q4	131	110	SL_MSCS	0.00	CD 00078
CD 00080	Lab Supplies FY09	249	110	SL_MSCS	8,025.00	CD 00078, CD 00079*
CD 00082	Lab Supplies FY10	249	110	SL_MSCS	8,175.00	CD 00080*
CD 00084	Lab Supplies FY11	249	110	SL_MSCS	8,400.00	CD 00082*
CD 00086	Lab Supplies FY12	116	110	SL_MSCS	8,625.00	CD 00075*, CD 00084*
CD 00089	Vendor Visits FY08-Q3 & Q4	131	110	SL_TRVL	0.00	CD 00088
CD 00090	Vendor Visits FY09	249	110	SL_TRVL	3,690.00	CD 00088, CD 00089*
CD 00092	Vendor Visits FY10	249	110	SL_TRVL	3,780.00	CD 00090*
CD 00094	Vendor Visits FY11	249	110	SL_TRVL	0.00	CD 00092*
CD 00096	Vendor Visits FY12	116	110	SL_TRVL	0.00	CD 00086*, CD 00094*
1.6.02.01 Photon Beam Feedback						
02 Design / Engineering						
9110611 Design & Engr - Photon Beam Feedback						
CD 00100	Design Photon Beam Feedback	200	116	SL_CE	4,846.00	CXI 01050, PM300105*, XPP 01220
CD 00105	COMP: Design Photon Beam Feedback	0	116		0.00	CD 00100*
CD 00120	FDR - Final Design Review Photon Beam Feedback	1	116	SL_CE	605.75	CD 00105*
CD 00140	COMP: FDR for Photon Beam Feedback	0	116		0.00	CD 00120*
CD 00220	Dev Software Photon Beam Feedback	90	116	SL_CP	3,633.22	CD 00140*
CD 00240	Prepare docs Photon Beam Feedback	20	116	SL_CP	459.35	CD 00220*
03 Procurement						
9110612 Procurement - Photon Beam Feedback						
CD 00145	Procure Prep/Approval - Photon Beam Feedback	20	135		0.00	CD 00140*
CD 00150	AWARD: Photon Beam Feedback	1	135	AWARD	24,091.18	CD 00145*, PM003000
CD 00200	Vendor Fab - Photon Beam Feedback	30	135	SL_MSEG	24,754.24	CD 00145, CD 00150*
CD 00210	RCV: Receive All Photon Beam Feedback Parts	0	135		0.00	CD 00200*
05 Fab / Assembly						
9110613 Fab & Assembly - Photon Beam Feedback						
CD 00260	Fab/Delvr Photon Beam Feedback	40	135	SL_CT	4,139.40	CD 00210*
CD 00280	AVAIL: Photon Beam Feedback System	0	116		0.00	CD 00240*, CD 00260
1.6.02.02 Electron Beam Feedback						
02 Design / Engineering						
9110621 Design & Engr - Electron Beam Feedback						
CD 00300	Design Electron Beam Feedback	200	116	SL_CE	4,846.00	CXI 01050, PM300105*, XPP 01220

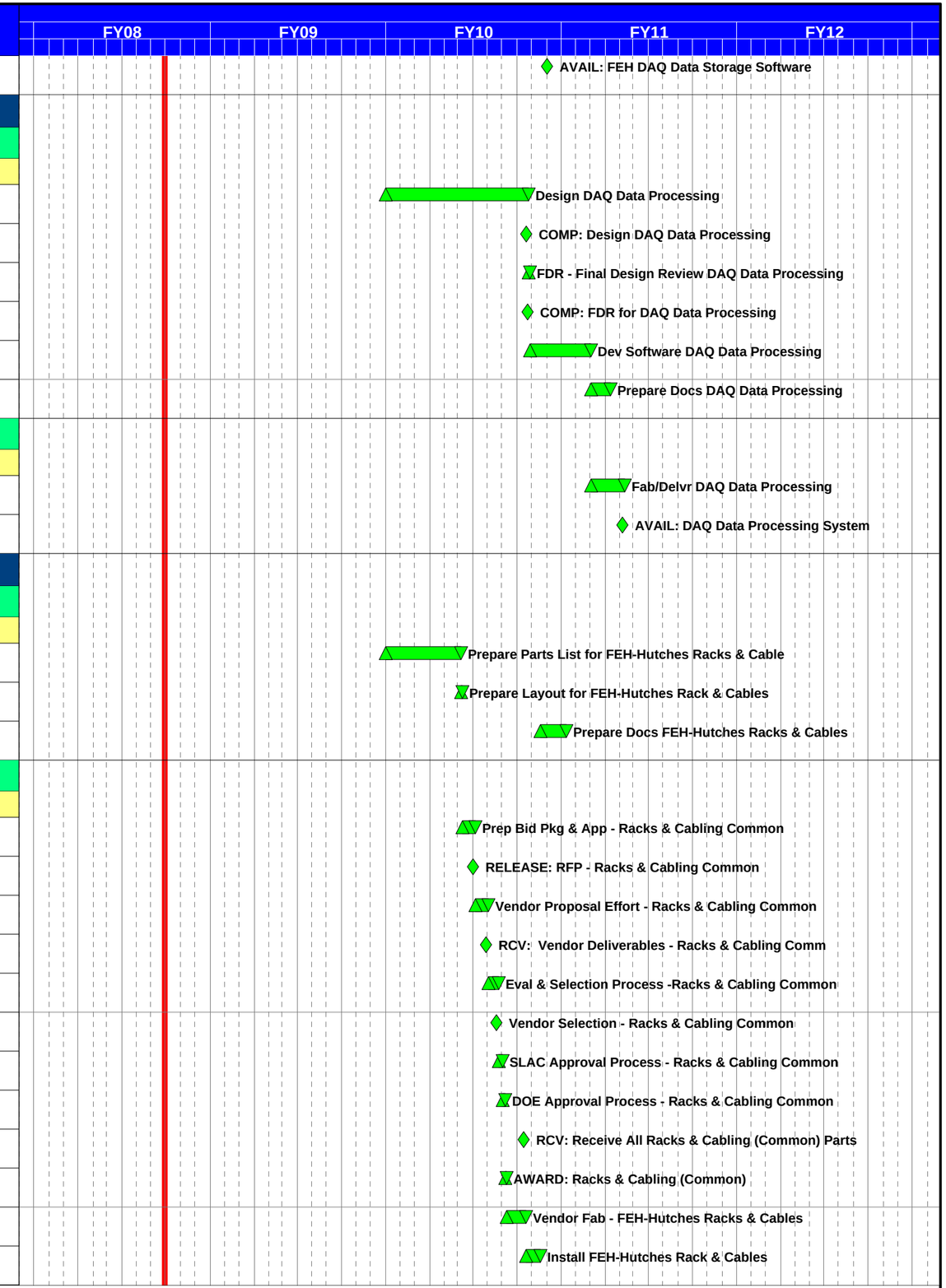


Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
CD 00305	COMP: Electron Beam Feedback	0	116		0.00	CD 00300*
CD 00320	FDR - Final Design Review Electron Beam Feedback	1	116	SL_CE	605.75	CD 00305*
CD 00340	COMP: FDR for Electron Beam Feedback	0	116		0.00	CD 00320*
CD 00380	Dev Software Electron Beam Feedback	90	116	SL_CP	1,816.61	CD 00340*
CD 00400	Prepare Docs Electron Beam Feedback	20	116	SL_CP	918.70	CD 00380*
03 Procurement						
9110622 Procurement - Electron Beam Feedback						
CD 00345	Procure Prep/Approval - Electron Beam Feedback	20	135		0.00	CD 00340*
CD 00350	AWARD: Electron Beam Feedback	1	135	AWARD	19,899.04	CD 00345*, PM003000
CD 00360	Vendor Fab - Electron Beam Feedback	30	135	SL_MSEG	20,446.72	CD 00345, CD 00350*
CD 00390	RCV: Receive All Electron Beam Feedback Parts	0	135		0.00	CD 00360*
05 Fab / Assembly						
9110623 Fab & Assembly - Electron Beam Feedback						
CD 00420	Fab/Delvr Electron Beam Feedback	40	135	SL_CT	5,519.20	CD 00390*
CD 00440	AVAIL: Electron Beam Feedback System	0	116		0.00	CD 00400*, CD 00420
1.6.02.03 Hutch Environmental Controls						
02 Design / Engineering						
9110624 Design & Engr - Hutch Environmental Controls						
CD 00460	Design Hutch Environmental Controls	200	95	SL_CE	1,211.50	CXI 01050, PM300105*, XPP 01220
CD 00465	COMP: Design Hutch Environmental Controls	0	95		0.00	CD 00460*
CD 00480	FDR - Design Review Hutch Environmental Controls	1	95	SL_CE	605.75	CD 00465*
CD 00500	COMP: FDR for Hutch Environmental Controls	0	95		0.00	CD 00480*
CD 00540	Dev Software Hutch Environmental Controls	90	116	SL_CP	1,816.61	CD 00500*
CD 00560	Prepare Docs Hutch Environmental Controls	20	116	SL_CP	459.35	CD 00540*
04 Subcontract						
9110625 Subcontract - Hutch Environmental Controls						
CD 00505	Prep Bid Pkg & App - Hutch Environ Controls	15	95		0.00	CD 00500*
CD 00506	RELEASE: RFP - Hutch Environmental Controls	0	95		0.00	CD 00505*
CD 00507	Vendor Proposal Effort - Hutch Environ Controls	20	95		0.00	CD 00506*
CD 00508	RCV: Vendor Deliverables - Hutch Environ Ctrls	0	95		0.00	CD 00507*
CD 00509	Eval & Selection Process - Hutch Env Ctrls	15	95		0.00	CD 00508*
CD 00510	Vendor Selection - Hutch Env. Ctrls	0	95		0.00	CD 00509*
CD 00511	SLAC Approval Process - Hutch Environ Ctrls	5	95		0.00	CD 00510*
CD 00512	DOE Approval Process - Hutch Environ Ctrls	5	95		0.00	CD 00511*

Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
CD 00515	AWARD: Hutch Environmental Controls	1	95	AWARD	28,906.08	CD 00505, CD 00512*, PM003000
CD 00520	Vendor Fab - Hutch Environmental Controls	30	95	SL_MSEQ	28,906.08	CD 00505, CD 00515*
CD 00530	RCV: Receive All Hutch Enviorn Controls Parts	0	95		0.00	CD 00520*
05 Fab / Assembly						
9110626 Fab & Assembly - Hutch Environmental Controls						
CD 00580	Fab/Delvr Hutch Environmental Controls	40	95	SL_CT	2,759.60	CD 00530*
CD 00600	AVAIL: Hutch Environmental Controls Hardware	0	95		0.00	CD 00560, CD 00580*
CD 00620	AVAIL: Hutch Environmental Controls Software	0	95		0.00	CD 00560, CD 00580*
1.6.02.04 FEH DAQ Data Storage						
02 Design / Engineering						
9110627 Design & Engr - FEH DAQ Data Storage						
CD 00660	Design FEH DAQ Data Storage	100	195	SL_CE	4,846.00	CXI 01050, PM300105*, XPP 01220
CD 00665	COMP: Design FEH DAQ Data Storage	0	195		0.00	CD 00660*
CD 00680	FDR - Final Design Review FEH DAQ Data Storage	1	195	SL_CE	1,211.50	CD 00665*
CD 00700	COMP: FDR for FEH DAQ Data Storage	0	195		0.00	CD 00680*
CD 00740	Dev Software FEH DAQ Data Storage	90	216	SL_CP	7,067.20	CD 00700*
CD 00760	Prepare Docs FEH DAQ Data Storage	20	216	SL_CP	1,766.80	CD 00740*
04 Subcontract						
9110628 Subcontract - FEH DAQ Data Storage						
CD 00705	Prep Bid Pkg & App - FEH DAQ Data Storage	15	195		0.00	CD 00700*
CD 00706	RELEASE: RFP - FEH DAQ Data Storage	0	195		0.00	CD 00705*
CD 00707	Vendor Proposal Effort - FEH DAQ Data Storage	20	195		0.00	CD 00706*
CD 00708	RCV: Vendor Deliverables - FEH DAQ Data Storage	0	195		0.00	CD 00707*
CD 00709	Eval & Selection Process - FEH DAQ Data St	15	195		0.00	CD 00708*
CD 00710	Vendor Selection - FEH DAQ Data Storage	0	195		0.00	CD 00709*
CD 00711	SLAC Approval Process - FEH DAQ Data Storage	5	195		0.00	CD 00710*
CD 00712	DOE Approval Process - FEH DAQ Data Storage	5	195		0.00	CD 00711*
CD 00715	AWARD: FEH DAQ Data Storage	1	195	AWARD	283,992.96	CD 00705, CD 00712*, PM003000
CD 00720	Vendor Fab - FEH DAQ Data Storage	30	195	SL_MSEQ	283,992.96	CD 00705, CD 00715*
CD 00730	RCV: Receive All FEH DAQ Data Storage Parts	0	195		0.00	CD 00720*
05 Fab / Assembly						
9110629 Fab & Assembly - FEH DAQ Data Storage						
CD 00780	Fab/Delvr FEH DAQ Data Storage	40	195	SL_CT	5,307.20	CD 00730*
CD 00800	AVAIL: FEH DAQ Data Storage Hardware	0	195		0.00	CD 00760, CD 00780*

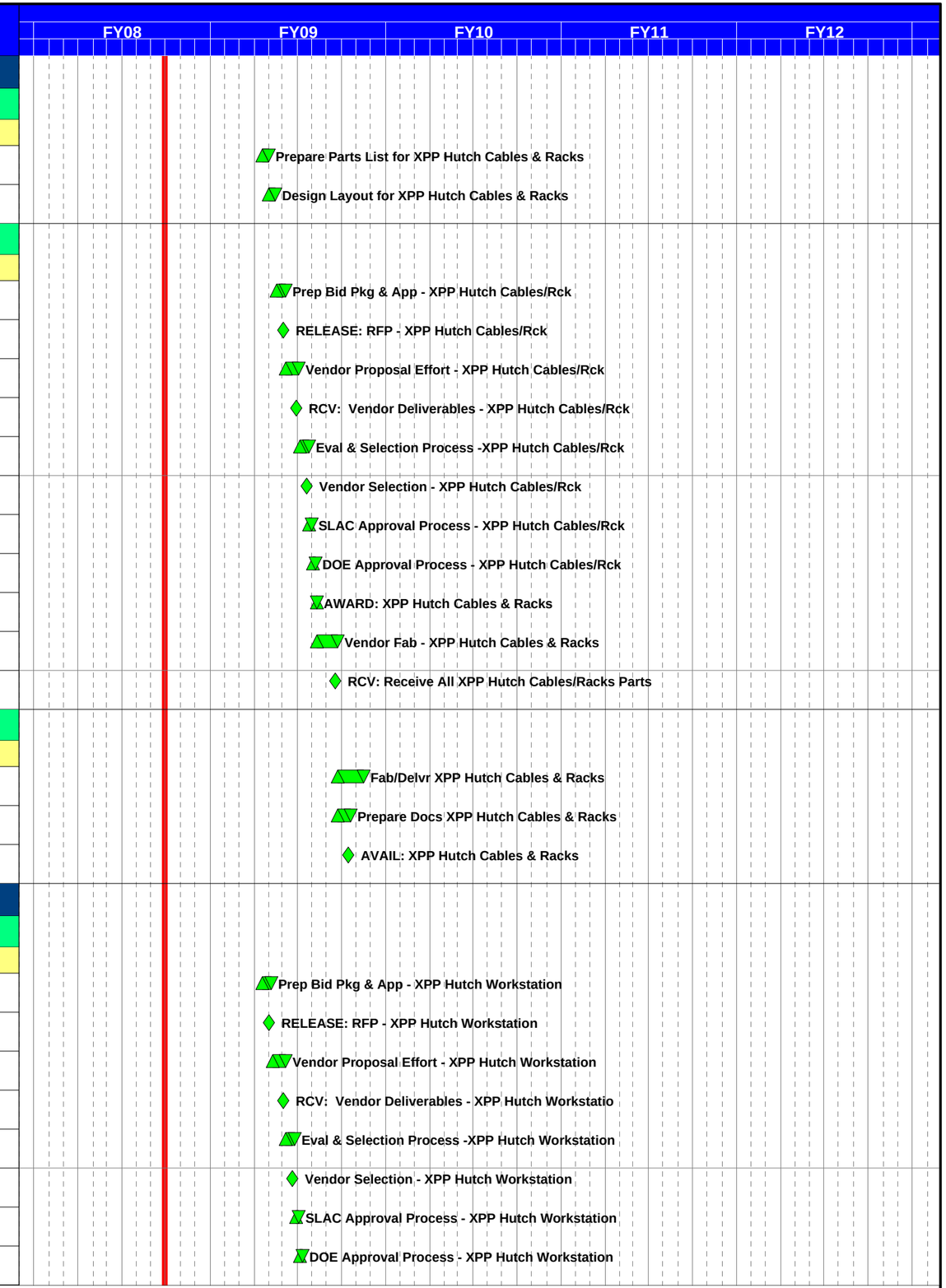


Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
CD 00820	AVAIL: FEH DAQ Data Storage Software	0	195		0.00	CD 00760, CD 00780*
1.6.02.05 DAQ Data Processing						
02 Design / Engineering						
9110630 Design & Engr - DAQ Data Processing						
CD 00825	Design DAQ Data Processing	200	96	SL_CE	60,575.00	CXI 01050, PM300105*, XPP 01220
CD 00827	COMP: Design DAQ Data Processing	0	96		0.00	CD 00825*
CD 00830	FDR - Final Design Review DAQ Data Processing	1	96	SL_CE	605.75	CD 00827*
CD 00836	COMP: FDR for DAQ Data Processing	0	96		0.00	CD 00830*
CD 00838	Dev Software DAQ Data Processing	90	96	SL_CP	27,249.18	CD 00836*
CD 00840	Prepare Docs DAQ Data Processing	20	116	SL_CP	1,837.40	CD 00838*
05 Fab / Assembly						
9110631 Fab & Assembly - DAQ Data Processing						
CD 00845	Fab/Delvr DAQ Data Processing	40	96	SL_CT	4,139.40	CD 00838*
CD 00850	AVAIL: DAQ Data Processing System	0	96		0.00	CD 00840, CD 00845*
1.6.02.06 Racks & Cabling (Common)						
02 Design / Engineering						
9110632 Design & Engr - Racks & Cabling (Common)						
CD 00860	Prepare Parts List for FEH-Hutches Racks & Cable	100	144	SL_CE	9,692.00	CXI 01050, PM300105*, XPP 01220
CD 00865	Prepare Layout for FEH-Hutches Rack & Cables	1	144	SL_CE	12,115.00	CD 00860*
CD 00890	Prepare Docs FEH-Hutches Racks & Cables	40	144	SL_CT	5,388.82	CD 00885*
04 Subcontract						
9110633 Subcontract - Racks & Cabling (Common)						
CD 00870	Prep Bid Pkg & App - Racks & Cabling Common	20	144		0.00	CD 00865*
CD 00871	RELEASE: RFP - Racks & Cabling Common	0	144		0.00	CD 00870*
CD 00872	Vendor Proposal Effort - Racks & Cabling Common	20	144		0.00	CD 00871*
CD 00873	RCV: Vendor Deliverables - Racks & Cabling Comm	0	144		0.00	CD 00872*
CD 00874	Eval & Selection Process -Racks & Cabling Common	15	144		0.00	CD 00873*
CD 00875	Vendor Selection - Racks & Cabling Common	0	144		0.00	CD 00874*
CD 00876	SLAC Approval Process - Racks & Cabling Common	5	144		0.00	CD 00875*
CD 00877	DOE Approval Process - Racks & Cabling Common	5	144		0.00	CD 00876*
CD 00880	RCV: Receive All Racks & Cabling (Common) Parts	0	144		0.00	CD 00884*
CD 00883	AWARD: Racks & Cabling (Common)	1	144	AWARD	110,248.05	CD 00870, CD 00877*, PM003000
CD 00884	Vendor Fab - FEH-Hutches Racks & Cables	30	144	SL_MSEQ	110,248.05	CD 00870, CD 00883*
CD 00885	Install FEH-Hutches Rack & Cables	20	144	SL_CT	19,902.00	CD 00880*



Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
CD 00895	AVAIL: FEH-Hutches Racks & Cables	0	144		0.00	CD 00890*
1.6.03.01.01 XPP H3 Controls Requirements, Design						
02 Design / Engineering						
9110634 XPP H3 Controls Requirements & Design Support						
CD 00900	Prepare XPP Requirements	55	91	SL_CE	2,240.20	XPP 01220
CD 00920	Prepare XPP - Controls ICD	20	91	SL_CE	2,240.20	CD 00900*
CD 00940	Prepare Final Device List for XPP	20	91	SL_CE	2,240.20	CD 00920*
CD 00960	Preliminary Design for XPP	50	91	SL_CE	15,136.71	CD 00940*
CD 01000	PDR - XPP Controls Requirements & Design	1	91	SL_CE	3,494.70	CD 00960*, XPP1251120
CD 01020	Post PDR Design Effort - XPP Req'mts & Design	25	91	SL_CE	582.45	CD 01000*
CD 01030	PDR - Prelim Design Review - XPP Phase 2	1	91	SL_CE	3,494.70	CD 01020*
CD 01040	Post PDR Design Effort Phase 2 - XPP Req'mts	40	91	SL_CE	4,659.60	CD 01030*
CD 01140	Post PDR Design Effort Phase 3 - XPP	100	157		0.00	CD 01040*
1.6.03.01.02 XPP H3 Development Test Setup						
04 Subcontract						
9110636 Subcontract - XPP H3 Development Test Setup						
CD 01060	Prep Bid Pkg & App - Developmnt Tst Setup	15	119		0.00	CD 01000, PM300100*
CD 01061	RELEASE: RFP - Developmnt Tst Setup	0	119		0.00	CD 01060*
CD 01062	Vendor Proposal Effort - Developmnt Tst Setup	20	119		0.00	CD 01061*
CD 01063	RCV: Vendor Deliverables - Developmnt Tst Setup	0	119		0.00	CD 01062*
CD 01064	Eval & Selection Process -Developmnt Tst Setup	15	119		0.00	CD 01063*
CD 01065	Vendor Selection - Developmnt Tst Setup	0	119		0.00	CD 01064*
CD 01066	SLAC Approval Process - Developmnt Tst Setup	5	119		0.00	CD 01065*
CD 01067	DOE Approval Process - Developmnt Tst Setup	5	119		0.00	CD 01066*
CD 01068	AWARD: XPP Specific HW & SW	1	119	AWARD	26,750.00	CD 01060, CD 01067*, PM003000
CD 01069	Vendor Fab - XPP Specific Hardware & Software	40	119	SL_MSEQ	26,750.00	CD 01068*
CD 01070	RCV: XPP Specific HW & SW	0	119		0.00	CD 01069*
07 Installation						
9110637 Installation - XPP H3 Dev Test Setup						
CD 01080	Fab/Delvr XPP Specific Hardware & Software	20	119	SL_CT	5,103.20	CD 01070*
CD 01100	Develop Software for XPP Test Setup	40	119	SL_CP	16,988.00	CD 01080*
CD 01120	COMP: Software for XPP Test Setup	0	119		0.00	CD 01100*

Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
1.6.03.02.01 XPP H3 Cables & Racks						
02 Design / Engineering						
9110638 Design & Engr - XPP H3 Cables & Racks						
CD 01160	Prepare Parts List for XPP Hutch Cables & Racks	10	155	SL_CE	9,319.20	CD 01000, PM300100*
CD 01180	Design Layout for XPP Hutch Cables & Racks	10	155	SL_CE	11,649.00	CD 01160*
04 Subcontract						
9110639 Subcontract - XPP H3 Cables & Racks						
CD 01185	Prep Bid Pkg & App - XPP Hutch Cables/Rck	15	155		0.00	CD 01180*
CD 01186	RELEASE: RFP - XPP Hutch Cables/Rck	0	155		0.00	CD 01185*
CD 01187	Vendor Proposal Effort - XPP Hutch Cables/Rck	20	155		0.00	CD 01186*
CD 01188	RCV: Vendor Deliverables - XPP Hutch Cables/Rck	0	155		0.00	CD 01187*
CD 01189	Eval & Selection Process -XPP Hutch Cables/Rck	15	155		0.00	CD 01188*
CD 01190	Vendor Selection - XPP Hutch Cables/Rck	0	155		0.00	CD 01189*
CD 01191	SLAC Approval Process - XPP Hutch Cables/Rck	5	155		0.00	CD 01190*
CD 01192	DOE Approval Process - XPP Hutch Cables/Rck	5	155		0.00	CD 01191*
CD 01195	AWARD: XPP Hutch Cables & Racks	1	155	AWARD	204,953.15	CD 01185, CD 01192*, PM003000
CD 01200	Vendor Fab - XPP Hutch Cables & Racks	30	155	SL_MSEQ	204,953.15	CD 01195*
CD 01205	RCV: Receive All XPP Hutch Cables/Racks Parts	0	155		0.00	CD 01200*
05 Fab / Assembly						
9110640 Fab & Assembly - XPP H3 Cables & Racks						
CD 01220	Fab/Delvr XPP Hutch Cables & Racks	40	155	SL_CT	19,137.00	CD 01205*
CD 01240	Prepare Docs XPP Hutch Cables & Racks	20	155	SL_CT	5,103.20	CD 01180, CD 01220*
CD 01260	AVAIL: XPP Hutch Cables & Racks	0	155		0.00	CD 01240*
1.6.03.02.02 XPP H3 Workstation						
04 Subcontract						
9110642 Subcontract - XPP H3 Workstation						
CD 01300	Prep Bid Pkg & App - XPP Hutch Workstation	15	255		0.00	CD 01000, PM300100*
CD 01301	RELEASE: RFP - XPP Hutch Workstation	0	255		0.00	CD 01300*
CD 01302	Vendor Proposal Effort - XPP Hutch Workstation	20	255		0.00	CD 01301*
CD 01303	RCV: Vendor Deliverables - XPP Hutch Workstatio	0	255		0.00	CD 01302*
CD 01304	Eval & Selection Process -XPP Hutch Workstation	15	255		0.00	CD 01303*
CD 01305	Vendor Selection - XPP Hutch Workstation	0	255		0.00	CD 01304*
CD 01306	SLAC Approval Process - XPP Hutch Workstation	5	255		0.00	CD 01305*
CD 01307	DOE Approval Process - XPP Hutch Workstation	5	255		0.00	CD 01306*



Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
CD 01313	AWARD: XPP Hutch Workstation	1	255	AWARD	30,310.96	CD 01300, CD 01307*, PM003000
CD 01314	Vendor Fab - XPP Hutch Workstation	30	255	SL_MSEQ	30,310.96	CD 01313*
CD 01315	RCV: Receive All XPP Hutch Parts	0	255		0.00	CD 01314*
05 Fab / Assembly						
9110643 Fab & Assembly - XPP H3 Workstation						
CD 01320	Fab/Delvr XPP Hutch Workstation	40	255	SL_CT	5,103.20	CD 01315*
CD 01340	System Test XPP Hutch Workstation	20	255	SL_CP	1,698.80	CD 01320*
CD 01360	Prepare Docs XPP Hutch Workstation	20	255	SL_CP	424.70	CD 01340*
CD 01380	AVAIL: XPP Hutch Workstation Hardware	0	255		0.00	CD 01340, CD 01360*
CD 01400	AVAIL: XPP Hutch Workstation Software	0	255		0.00	CD 01340, CD 01360*
1.6.03.02.03 XPP H3 Beam Line Processor						
03 Procurement						
9110645 Procurement - XPP H3 Beam Line Processor						
CD 01440	Procure Prep/Approval - XPP Hutch Beam Line	20	111		0.00	CD 01000, PM300105*
CD 01442	AWARD: XPP Hutch Beam Line Processor	1	111	AWARD	19,662.51	CD 01440*, PM003000
CD 01445	Vendor Fab - XPP Hutch Beam Line Processor	30	111	SL_MSEG	19,662.51	CD 01442*
CD 01450	RCV: Receive All XPP Hutch Beam Line Parts	0	111		0.00	CD 01445*
05 Fab / Assembly						
9110646 Fab & Assembly - XPP H3 Beam Line Processor						
CD 01460	Fab/Delvr XPP Hutch Beam Line Processor	40	111	SL_CP	2,650.20	CD 01450*
06 Testing						
9110647 Testing - XPP H3 Beam Line Processor						
CD 01480	System Test XPP Hutch Beam Line Processor	20	111	SL_CP	1,766.80	CD 01460*
CD 01500	Prepare Docs XPP Hutch Beam Line Processor	20	111	SL_CP	441.70	CD 01480*
CD 01520	AVAIL: XPP Hutch Beam Line Processor Hardware	0	111		0.00	CD 01480, CD 01500*
CD 01540	AVAIL: XPP Hutch Beam Line Processor Software	0	111		0.00	CD 01480, CD 01500*
1.6.03.02.04 XPP H3 Channel Access Gateway						
03 Procurement						
9110648 Procurement - XPP H3 Channel Access Gateway						
CD 01580	Procure Prep/Approval - XPP Hutch Channel Access	20	111		0.00	CD 01000, PM300105*
CD 01582	AWARD: XPP Hutch Channel Access Gateway	1	111	AWARD	4,645.58	CD 01580*, PM003000
CD 01585	Vendor Fab - XPP Hutch Channel Access Gateway	30	111	SL_MSEG	4,645.58	CD 01582*
CD 01590	RCV: Receive All XPP Hutch Channel Access Parts	0	111		0.00	CD 01585*

Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
05 Fab / Assembly						
9110649 Fab & Assembly - XPP H3 Channel Access Gateway						
CD 01600	Fab/Delvr XPP Hutch Channel Access Gateway	40	111	SL_CP	2,650.20	CD 01590*
06 Testing						
9110650 Testing - XPP H3 Channel Access Gateway						
CD 01620	System Test XPP Hutch Channel Access Gateway	20	111	SL_CP	1,766.80	CD 01600*
CD 01640	Prepare Docs XPP Hutch Channel Access Gateway	20	111	SL_CP	441.70	CD 01620*
CD 01660	AVAIL: XPP Hutch Channel Access Gateway Hardware	0	111		0.00	CD 01620, CD 01640*
CD 01680	AVAIL: XPP Hutch Channel Access Gateway Software	0	111		0.00	CD 01620, CD 01640*
1.6.03.02.05 XPP H3 MPS						
03 Procurement						
9110651 Procurement - XPP H3 MPS						
CD 01685	Procure Prep/Approval - XPP Hutch MPS	20	111		0.00	CD 01000, PM300105*
CD 01690	AWARD: XPP Hutch MPS	1	111	AWARD	18,751.27	CD 01685*, PM003000
CD 01695	Vendor Fab - XPP Hutch MPS	30	111	SL_MSEG	18,751.27	CD 01690*
CD 01700	RCV: Receive All XPP Hutch MPS Parts	0	111		0.00	CD 01695*
05 Fab / Assembly						
9110652 Fab & Assembly - XPP H3 MPS						
CD 01720	Fab/Delvr XPP Hutch MPS	40	111	SL_CT	1,326.80	CD 01700*
06 Testing						
9110653 Testing - XPP H3 MPS						
CD 01740	System Test XPP Hutch MPS	20	111	SL_CP	1,766.80	CD 01720*
CD 01760	Prepare Docs XPP Hutch MPS	20	111	SL_CP	441.70	CD 01740*
CD 01780	AVAIL: XPP Hutch MPS Hardware	0	111		0.00	CD 01740, CD 01760*
CD 01800	AVAIL: XPP Hutch MPS Firmware	0	111		0.00	CD 01740, CD 01760*
1.6.03.03.01 XPP H3 Data Acquisition (DAQ)						
02 Design / Engineering						
9110654 Design & Engr - XPP H3 Data Acquisition						
CD 01820	Design XPP Specific Controls Data Acquisition	160	106	SL_CE	89,697.30	CD 01020*
CD 01825	COMP: XPP Specific Design Data Acquisition	0	106		0.00	CD 01820*
CD 01840	FDR - XPP Specific Data Acquisition	1	106	SL_CE	2,329.80	CD 01825*
CD 01900	Develop Software XPP Specific Data Acquisition	90	148	SL_CP	35,281.60	CD 01840*
04 Subcontract						
9110655 Subcontract - XPP H3 Data Acquisition						
CD 01865	Prep Bid Pkg & App - XPP Specific DAQ	15	90		0.00	CD 01840, PM300105*
CD 01866	RELEASE: RFP - XPP Specific DAQ	0	90		0.00	CD 01865*

Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
CD 01867	Vendor Proposal Effort - XPP Specific DAQ	20	90		0.00	CD 01866*
CD 01868	RCV: Vendor Deliverables - XPP Specific DAQ	0	90		0.00	CD 01867*
CD 01869	Eval & Selection Process -XPP Specific DAQ	15	90		0.00	CD 01868*
CD 01870	Vendor Selection - XPP Specific DAQ	0	90		0.00	CD 01869*
CD 01871	SLAC Approval Process - XPP Specific DAQ	5	90		0.00	CD 01870*
CD 01872	DOE Approval Process - XPP Specific DAQ	5	90		0.00	CD 01871*
CD 01875	AWARD: XPP Specific Data Acquisition (DAQ)	1	90	AWARD	51,144.98	CD 01865, CD 01872*, PM003000
CD 01880	Vendor Fab - XPP Specific Data Acquisition Parts	30	90	SL_MSEQ	51,144.98	CD 01875*
CD 01890	RCV: Receive All XPP Specific DAQ Parts	0	90		0.00	CD 01880*
05 Fab / Assembly						
9110656 Fab & Assembly - XPP H3 Data Acquisition						
CD 01920	Fab/Delvr XPP Specific Data Acquisition	40	90	SL_CT	9,287.60	CD 01890*
06 Testing						
9110657 Testing - XPP H3 Data Acquisition						
CD 01940	System Test XPP Specific Data Acquisition	1	90	SL_CP	3,533.60	CD 01920*
CD 01960	Prepare Docs XPP Specific Data Acquisition	20	90	SL_CP	1,766.80	CD 01900, CD 01940*
CD 01980	AVAIL: XPP Specific Data Acquisition Hardware	0	90		0.00	CD 01940, CD 01960*
CD 02000	AVAIL: XPP Specific Data Acquisition Software	0	90		0.00	CD 01940, CD 01960*
1.6.03.03.02 XPP H3 DAQ Hutch Data Management						
02 Design / Engineering						
9110658 Design & Engr - XPP H3 DAQ Hutch Data Mgmt						
CD 02020	Design XPP Specific DAQ Hutch Data Management	120	147	SL_CE	6,989.40	CD 01040*
CD 02025	COMP: Design XPP Specific DAQ Hutch Data Mgmt	0	147		0.00	CD 02020*
CD 02040	FDR - XPP Specific DAQ Hutch Data Management	1	147	SL_CE	2,329.80	CD 02025*
CD 02100	Develop S/W XPP Specific DAQ Hutch Data Mgmt	90	147	SL_CP	5,292.92	CD 02040*, PM300100
05 Fab / Assembly						
9110659 Fab & Assembly - XPP H3 DAQ Hutch Data Mgmt						
CD 02120	Fab/Delvr XPP Specific DAQ Hutch Data Management	40	181	SL_CT	2,653.60	CD 02040, PM300105*
06 Testing						
9110660 Testing - XPP H3 DAQ Hutch Data Mgmt						
CD 02140	System Test XPP Specific DAQ Hutch Data Mgmt	1	181	SL_CP	7,067.20	CD 02120*
CD 02160	Prepare Docs XPP Specific DAQ Hutch Data Mgmt	20	147	SL_CP	1,766.80	CD 02100*, CD 02140
CD 02180	AVAIL: XPP Speific DAQ Hutch Data Management H/W	0	147		0.00	CD 02140, CD 02160*
CD 02200	AVAIL: XPP Specific DAQ Hutch Data Management SW	0	147		0.00	CD 02140, CD 02160*

Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
1.6.03.03.03 XPP H3 Experiment Configuration Control						
02 Design / Engineering						
9110661 Design & Engr - XPP H3 Experiment Config Cntrl						
CD 02220	Design XPP Specific Experiment Config Control	100	126	SL_CE	9,319.20	CD 01040*
CD 02225	COMP: Design XPP Specific Experim Config Control	0	126		0.00	CD 02220*
CD 02230	FDR - XPP Specific Experiment Config Control	1	126	SL_CE	2,329.80	CD 02225*
CD 02240	Develop SW XPP Specific Experiment Config Contro	90	167	SL_CP	28,089.88	CD 02230*
04 Subcontract						
9110662 Subcontract - XPP H3 Experiment Config Cntrl						
CD 02231	Prep Bid Pkg & App - XPP Specific Experim Config	15	91		0.00	CD 02230, PM300105*
CD 02232	RELEASE: RFP - XPP Specific Experim Config	0	91		0.00	CD 02231*
CD 02233	Vendor Proposal Effort -XPP Specific Exprmt Ctrl	20	91		0.00	CD 02232*
CD 02234	RCV: Vendor Deliverables-XPP Specific Exp. Ctrl	0	91		0.00	CD 02233*
CD 02235	Eval & Selection Process -XPP Specific Exp Ctrls	15	91		0.00	CD 02234*
CD 02236	Vendor Selection - XPP Specific Experim Config	0	91		0.00	CD 02235*
CD 02237	SLAC Approval Process - XPP Specific Exp Ctrls	5	91		0.00	CD 02236*
CD 02238	DOE Approval Process - XPP Specific Exp Ctrls	5	91		0.00	CD 02237*
CD 02245	AWARD: XPP Specific Experiment Config Control	1	91	AWARD	118,189.79	CD 02231, CD 02238*, PM003000
CD 02250	Vendor Fab - XPP Specific Experim Config Control	30	91	SL_MSEQ	118,189.79	CD 02245*
CD 02255	RCV: Receive All XPP Spec Experim Config Parts	0	91		0.00	CD 02250*
05 Fab / Assembly						
9110663 Fab & Assembly - XPP H3 Experiment Config Cntrl						
CD 02260	Fab/Delvr XPP Specific Experiment Config Control	40	91	SL_CP	5,300.40	CD 02255*
06 Testing						
9110664 Testing - XPP H3 Experiment Config Cntrl						
CD 02265	Prepare Docs XPP Specific Experim Config Control	20	91	SL_CP	1,766.80	CD 02240, CD 02260*
CD 02270	AVAIL: XPP Specific Experiment Config Control	0	91		0.00	CD 02265*
1.6.03.03.04 XPP H3 Valve Controls						
02 Design / Engineering						
9110665 Design & Engr - XPP H3 Valve Controls						
CD 02560	Design XPP Specific Controls Valve Controls	140	146	SL_CE	1,167.90	CD 01040*
CD 02561	COMP: XPP Specific Control Design Valve Controls	0	146		0.00	CD 02560*
CD 02562	FDR - XPP Specific Controls Valve Controls	1	146	SL_CE	1,211.50	CD 02561*
CD 02568	Develop SW XPP Specific Controls Valve Controls	90	147	SL_CP	883.40	CD 02562*

Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
03 Procurement						
9110666 Procurement - XPP H3 Valve Controls						
CD 02566	Procurement Preps - XPP Specific Valve	20	146		0.00	CD 02562*, PM300105
CD 02567	AWARD: XPP Specific Controls Valve Controls	1	146	AWARD	6,547.63	CD 02566*, PM003000
CD 02570	Vendor Fab - XPP Specific Control Valve Controls	30	146	SL_MSEG	6,547.63	CD 02567*
CD 02572	RCV: Receive All XPP Specific Controls Parts	0	146		0.00	CD 02570*
05 Fab / Assembly						
9110667 Fab & Assembly - XPP H3 Valve Controls						
CD 02574	Fab/Delvr XPP Specific Controls Valve Controls	40	146	SL_CT	1,061.44	CD 02572*
06 Testing						
9110668 Testing - XPP H3 Valve Controls						
CD 02576	Prepare Docs XPP Specific Control Valve Controls	20	146	SL_CP	0.00	CD 02568, CD 02574*
CD 02578	AVAIL: XPP Specific Controls Valve Controls HW	0	146		0.00	CD 02574, CD 02576*
CD 02580	AVAIL: XPP Specific Controls Valve Controls SW	0	146		0.00	CD 02574, CD 02576*
1.6.03.03.05 XPP H3 Vacuum Controls						
02 Design / Engineering						
9110669 Design & Engr - XPP H3 Vacuum Controls						
CD 02590	Design XPP Specific Controls Vacuum Controls	120	126	SL_CE	11,649.00	CD 01040*
CD 02591	COMP: XPP Specific Controls Design Vac Controls	0	126		0.00	CD 02590*
CD 02592	FDR - XPP Specific Controls Vacuum Controls	1	126	SL_CE	1,164.90	CD 02591*
CD 02598	Develop Software XPP Specific Vacuum Controls	60	197	SL_CP	10,572.24	CD 02592*
04 Subcontract						
9110670 Subcontract - XPP H3 Vacuum Controls						
CD 02582	Prep Bid Pkg & App - XPP Specific Vacuum Ctrls	15	111		0.00	CD 02592, PM300105*
CD 02583	RELEASE: RFP - XPP Specific Vacuum Ctrls	0	111		0.00	CD 02582*
CD 02584	Vendor Proposal Effort -XPP Specific Vacuum Ctrl	20	111		0.00	CD 02583*
CD 02585	RCV: Vendor Deliverables-XPP Specific Vacuum Ct	0	111		0.00	CD 02584*
CD 02586	Eval & Selection Process -XPP Specific Vacuum Ct	15	111		0.00	CD 02585*
CD 02587	Vendor Selection - XPP Specific Vacuum Ctrls	0	111		0.00	CD 02586*
CD 02588	SLAC Approval Process -XPP Specific Vacuum Ctrls	5	111		0.00	CD 02587*
CD 02589	DOE Approval Process - XPP Specific Vacuum Ctrls	5	111		0.00	CD 02588*
CD 02597	AWARD: XPP Specific Controls Vacuum Controls	1	111	AWARD	65,994.05	CD 02582, CD 02589*, PM003000
CD 02600	Vendor Fab -XPP Specific Control Vacuum Controls	30	111	SL_MSEQ	65,994.05	CD 02597*
CD 02602	RCV: Receive All XPP Specific Controls Parts	0	111		0.00	CD 02600*

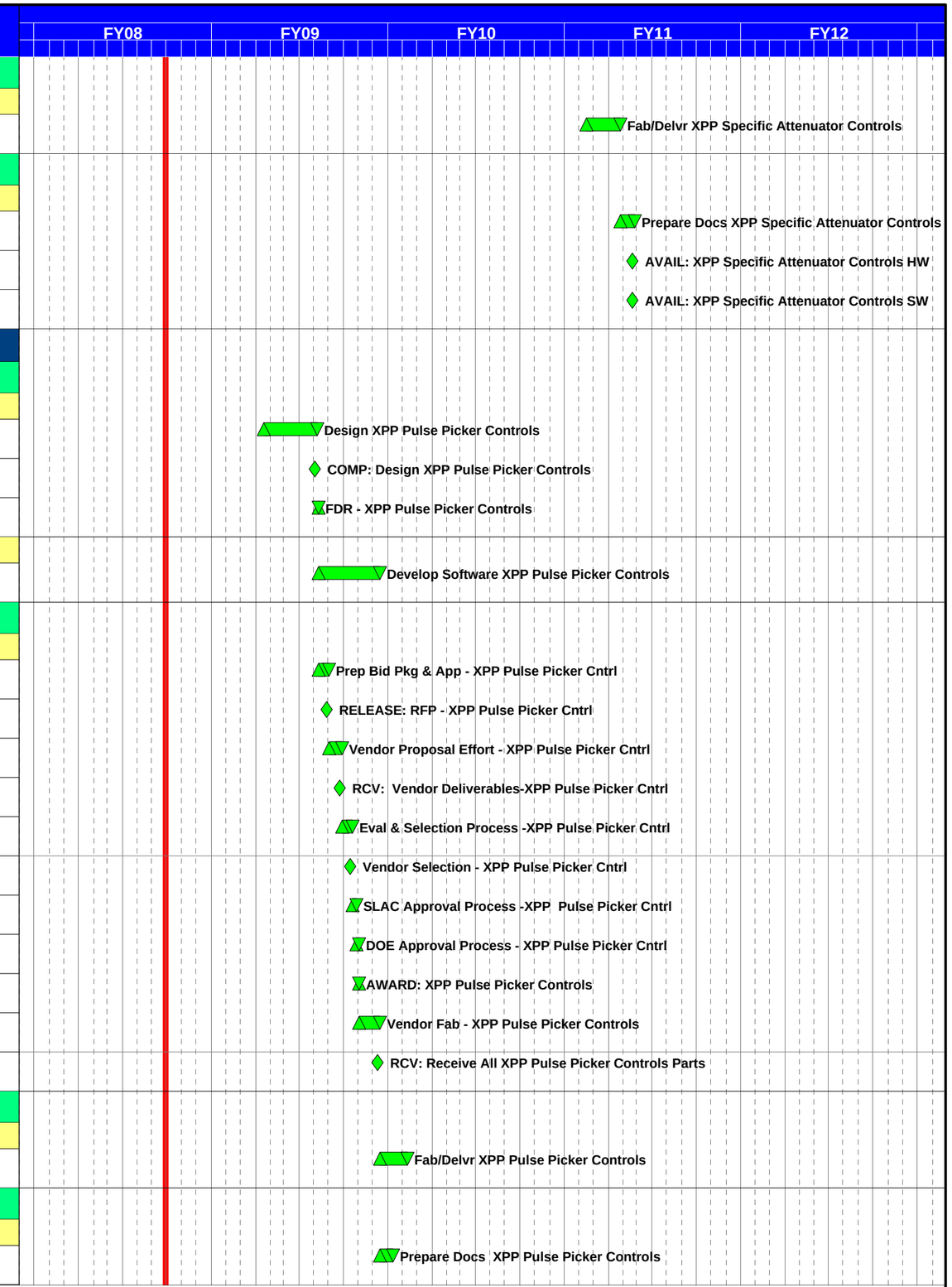
Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
05 Fab / Assembly						
9110671 Fab & Assembly - XPP H3 Vacuum Controls						
CD 02604	Fab/Delvr XPP Specific Controls Vacuum Controls	40	111	SL_CT	2,653.60	CD 02602*
06 Testing						
9110672 Testing - XPP H3 Vacuum Controls						
CD 02606	Prepare Docs XPP Specific Control Vac Controls	20	111	SL_CP	883.40	CD 02598, CD 02604*
CD 02608	AVAIL: XPP Specific Controls Vacuum Controls HW	0	111		0.00	CD 02604, CD 02606*
CD 02610	AVAIL: XPP Specific Controls Vacuum Controls SW	0	111		0.00	CD 02604, CD 02606*
1.6.03.03.06 XPP H3 Pop-In Profile Monitor Controls						
02 Design / Engineering						
9110673 Design & Engr - XPP H3 Pop-In Profile Mon Cntrls						
CD 02920	Design XPP Speci Pop-In Profile Monitor Controls	100	131	SL_CE	3,494.70	CD 01040*
CD 02925	COMP: Design XPP Pop-In Profile Monitor Controls	0	131		0.00	CD 02920*
CD 02940	FDR - XPP Specif Pop-In Profile Monitor Controls	1	131	SL_CE	582.45	CD 02925*, DI 01620
CD 03000	Develop SW XPP Spefic Pop-In PM Controls	60	140	SL_CP	3,512.29	CD 01120*, CD 02940
03 Procurement						
9110674 Procurement - XPP H3 Pop-In Profile Mon Cntrls						
CD 02965	Procurement Preps - XPP Specific PopIn PM	20	119		0.00	CD 01120*, CD 02940
CD 02967	AWARD: XPP Specific Pop-In PM Controls	1	119	AWARD	19,708.33	CD 02965*, PM003000
CD 02980	Vendor Fab - XPP Specific Pop-In PM Controls	40	119	SL_MSEG	20,076.71	CD 02967*
CD 02990	RCV: Receive All XPP Specific Controls Parts	0	119		0.00	CD 02980*
05 Fab / Assembly						
9110675 Fab & Assembly - XPP H3 Pop-In Profile Mon Cntrl						
CD 03020	Fab/Delvr XPP Specific Pop-In PM Controls	20	119	SL_CT	2,653.60	CD 02990*
06 Testing						
9110676 Testing - XPP H3 Pop-In Profile Mon Cntrls						
CD 03040	Prepare Docs XPP Specific Pop-In PM Controls	10	119	SL_CP	1,766.80	CD 03000, CD 03020*
CD 03060	AVAIL: XPP Specific Pop-In PM Controls HW	0	119		0.00	CD 03020, CD 03040*
CD 03080	AVAIL: XPP Specific Control Pop-In PM Cntrls SW	0	119		0.00	CD 03020, CD 03040*
1.6.03.03.07 XPP H3 Pop-In Intensity Monitor Controls						
02 Design / Engineering						
9110677 Design & Engr - XPP H3 Pop-In Intensity Mon Cntr						
CD 04760	Design XPP Specific Controls Pop-In IM Controls	80	111	SL_CE	4,659.60	CD 01040*
CD 04765	COMP: Design XPP Specific Pop-In IM Controls	0	111		0.00	CD 04760*
CD 04780	FDR - XPP Specific Controls Pop-In IM Controls	1	111	SL_CE	582.45	CD 04765*, DI 02360
CD 04840	Develop SW XPP Specific Pop-In IM Controls	90	152	SL_CP	3,481.92	CD 04780*

Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
04 Subcontract						
9110678 Subcontract - XPP H3 Pop-In Intensity Mon Cntrls						
CD 04805	Prep Bid Pkg & App - XPP Specific Pop-In IM	15	111		0.00	CD 04780*, PM300100
CD 04806	RELEASE: RFP - XPP Specific Pop-In IM	0	111		0.00	CD 04805*
CD 04807	Vendor Proposal Effort -XPP Specific Pop-In IM	20	111		0.00	CD 04806*
CD 04808	RCV: Vendor Deliverables-XPP Specific Pop-In IM	0	111		0.00	CD 04807*
CD 04809	Eval & Selection Process - XPP SpecificPop-In IM	15	111		0.00	CD 04808*
CD 04810	Vendor Selection - XPP Specific Pop-In IM	0	111		0.00	CD 04809*
CD 04811	SLAC Approval Process -XPP Specific Pop-In IM	5	111		0.00	CD 04810*
CD 04812	DOE Approval Process - XPP Specific Pop-In IM	5	111		0.00	CD 04811*
CD 04815	AWARD: XPP Specific Controls Pop-In IM Controls	1	111	AWARD	32,334.85	CD 04805, CD 04812*, PM003000, PM300105
CD 04820	Vendor Fab - XPP Specific Pop-In IM Controls	30	111	SL_MSEQ	32,334.85	CD 04815*
CD 04825	RCV: Receive All XPP Specific Pop-In IM Parts	0	111		0.00	CD 04820*
05 Fab / Assembly						
9110679 Fab & Assembly - XPP H3 Pop-In Intensity Mon Cnt						
CD 04860	Fab/Delvr XPP Specific Pop-In IM Controls	40	111	SL_CT	2,653.60	CD 04825*
06 Testing						
9110680 Testing - XPP H3 Pop-In Intensity Mon Cntrls						
CD 04880	Prepare Docs XPP Specific Pop-In IM Controls	20	111	SL_CP	1,766.80	CD 04840, CD 04860*
CD 04900	AVAIL: XPP Specific Pop-In IM Controls HW	0	111		0.00	CD 04860, CD 04880*
CD 04920	AVAIL: XPP Specific Pop-In IM Controls SW	0	111		0.00	CD 04860, CD 04880*
1.6.03.03.08 XPP H3 Intensity-Position Monitor Controls						
02 Design / Engineering						
9110681 Design & Engr - XPP H3 Intensity-Pos Mon Cntrls						
CD 02740	Design XPP Specific IPM Controls	100	91	SL_CE	4,659.60	CD 01040*
CD 02745	COMP: Design XPP Specific Controls IPM Controls	0	91		0.00	CD 02740*
CD 02760	FDR - XPP Specific Controls IPM Controls	1	91	SL_CE	582.45	CD 02745*
CD 02820	Develop SW XPP Specific Controls IPM Controls	90	132	SL_CP	3,511.24	CD 02760*
04 Subcontract						
9110682 Design & Engr - XPP H3 Intensity-Pos Mon Cntrls						
CD 02785	Prep Bid Pkg & App - XPP Specific IPM	15	91		0.00	CD 02760*, PM300100
CD 02786	RELEASE: RFP - XPP Specific IPM	0	91		0.00	CD 02785*
CD 02787	Vendor Proposal Effort -XPP Specific IPM	20	91		0.00	CD 02786*
CD 02788	RCV: Vendor Deliverables-XPP Specific IPM	0	91		0.00	CD 02787*

Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
CD 02789	Eval & Selection Process -XPP Specific IPM	15	91		0.00	CD 02788*
CD 02790	Vendor Selection - XPP Specific IPM	0	91		0.00	CD 02789*
CD 02791	SLAC Approval Process -XPP Specific IPM	5	91		0.00	CD 02790*
CD 02792	DOE Approval Process - XPP Specific IPM	5	91		0.00	CD 02791*
CD 02795	AWARD: XPP Specific Controls IPM Controls	1	91	AWARD	50,413.59	CD 02785, CD 02792*, PM003000, PM300105
CD 02800	Vendor Fab - XPP Specific Controls IPM Controls	30	91	SL_MSEQ	50,413.59	CD 02795*
CD 02805	RCV: Receive All XPP Specific Controls IPM Parts	0	91		0.00	CD 02800*
05 Fab / Assembly						
9110683 Fab & Assembly - XPP H3 Intensity-Pos Mon Cntrls						
CD 02840	Fab/Delvr XPP Specific Controls IPM Controls	40	91	SL_CT	2,653.60	CD 02805*
06 Testing						
9110684 Testing - XPP H3 Intensity-Pos Mon Cntrls						
CD 02860	Prepare Docs XPP Specific Controls IPM Controls	20	91	SL_CP	883.40	CD 02820, CD 02840*
CD 02880	AVAIL: XPP Specific Controls IPM Controls HW	0	91		0.00	CD 02840, CD 02860*
CD 02900	AVAIL: XPP Specific Controls IPM Controls SW	0	91		0.00	CD 02840, CD 02860*
1.6.03.03.09 XPP H3 X-Ray Focusing Lens Controls						
02 Design / Engineering						
9110685 Design & Engr - XPP H3 X-Ray Focusing Lens Cntrl						
CD 03820	Design XPP Specific Controls XFL Controls	140	157	SL_CE	12,077.72	CD 01140*
CD 03825	COMP: Design XPP Specific Controls XFL Controls	0	157		0.00	CD 03820*
CD 03840	FDR - XPP Specific Controls XFL Controls	1	157	SL_CE	1,817.25	CD 03825*
CD 03900	Develop SW XPP Specific Controls XFL Controls	90	431	SL_CP	31,802.40	CD 03840*
03 Procurement						
9110686 Procurement - XPP H3 X-Ray Focusing Lens Cntrls						
CD 03865	Procurement Preps - XPP Specific XFL	20	300		0.00	CD 03840*, PM300105
CD 03870	AWARD: XPP Specific Controls XFL Controls	1	300	AWARD	14,732.44	CD 03865*, PM003000, PM300105
CD 03880	Vendor Fab - XPP Specific Controls XFL Controls	100	300	SL_MSEG	14,732.44	CD 03870*
CD 03885	RCV: Receive All XPP Specific Controls XFL Parts	0	300		0.00	CD 03880*
05 Fab / Assembly						
9110687 Fab & Assembly - XPP H3 X-Ray Focusing Lens Cntr						
CD 03920	Fab/Delvr XPP Specific Controls XFL Controls	100	300	SL_CT	2,736.28	CD 03885*
06 Testing						
9110688 Testing - XPP H3 X-Ray Focusing Lens Cntrls						
CD 03940	Prepare Docs XPP Specific Controls XFL Controls	20	300	SL_CP	1,837.40	CD 03900, CD 03920*
CD 03960	AVAIL: XPP Specific Controls XFL Hardware	0	300		0.00	CD 03920, CD 03940*

Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
CD 03980	AVAIL: XPP Specific Controls XFL Software	0	300		0.00	CD 03920, CD 03940*
1.6.03.03.10 XPP H3 Slit Controls						
02 Design / Engineering						
9110689 Design & Engr - XPP H3 Slit Controls						
CD 03640	Design XPP Specific Controls Slit Controls	150	117	SL_CE	6,989.40	CD 01020*
CD 03645	COMP: Design XPP Specific Controls Slit Controls	0	117		0.00	CD 03640*
CD 03660	FDR - XPP Specific Controls Slit Controls	1	117	SL_CE	582.45	CD 03645*, DI 06760
CD 03720	Develop SW XPP Specific Controls Slit Controls	90	118	SL_CP	5,280.68	CD 03660*
03 Procurement						
9110690 Procurement - XPP H3 Slit Controls						
CD 03685	Procurement Preps - XPP Specific Slits	20	117		0.00	CD 03660*, PM300100
CD 03687	AWARD: XPP Specific Controls Slit Controls	1	111	AWARD	20,296.89	CD 03685, PM003000, PM300105*
CD 03700	Vendor Fab - XPP Specific Controls Slit Controls	30	111	SL_MSEQ	20,296.89	CD 03687*
CD 03705	RCV: Receive All XPP Specific Slit Control Parts	0	111		0.00	CD 03700*
05 Fab / Assembly						
9110691 Fab & Assembly - XPP H3 Slit Controls						
CD 03740	Fab/Delvr XPP Specific Controls Slit Controls	40	111	SL_CT	1,326.80	CD 03705*
06 Testing						
9110692 Testing - XPP H3 Slit Controls						
CD 03760	Prepare Docs XPP Specific Controls Slit Controls	20	111	SL_CP	883.40	CD 03720, CD 03740*
CD 03780	AVAIL: XPP Specific Controls Slit Controls HW	0	111		0.00	CD 03740, CD 03760*
CD 03800	AVAIL: XPP Specific Controls Slit Controls SW	0	111		0.00	CD 03740, CD 03760*
1.6.03.03.11 XPP H3 Attenuator Controls						
02 Design / Engineering						
9110693 Design & Engr - XPP H3 Attenuator Controls						
CD 03460	Design XPP Specific Controls Attenuator Controls	100	161	SL_CE	7,269.00	CD 01140, PM300105*
CD 03465	COMP: Design XPP Specific Attenuator Controls	0	161		0.00	CD 03460*
CD 03480	FDR - XPP Specific Attenuator Controls	1	161	SL_CE	605.75	CD 03465*
CD 03540	Develop SW XPP Specific Attenuator Controls	90	435	SL_CP	5,300.40	CD 03480*
03 Procurement						
9110694 Procurement - XPP H3 Attenuator Controls						
CD 03505	Procure Prep/Approval - XPP Specific Attenuator	20	434		0.00	CD 03480*, PM300105
CD 03510	AWARD: XPP Specific Attenuator Controls	1	306	AWARD	11,177.60	CD 03505, PM003000, PM300110*
CD 03520	Vendor Fab - XPP Specific Attenuator Controls	30	306	SL_MSEG	11,177.60	CD 03510*
CD 03525	RCV: Receive All XPP Specific Attenuator Parts	0	306		0.00	CD 03520*

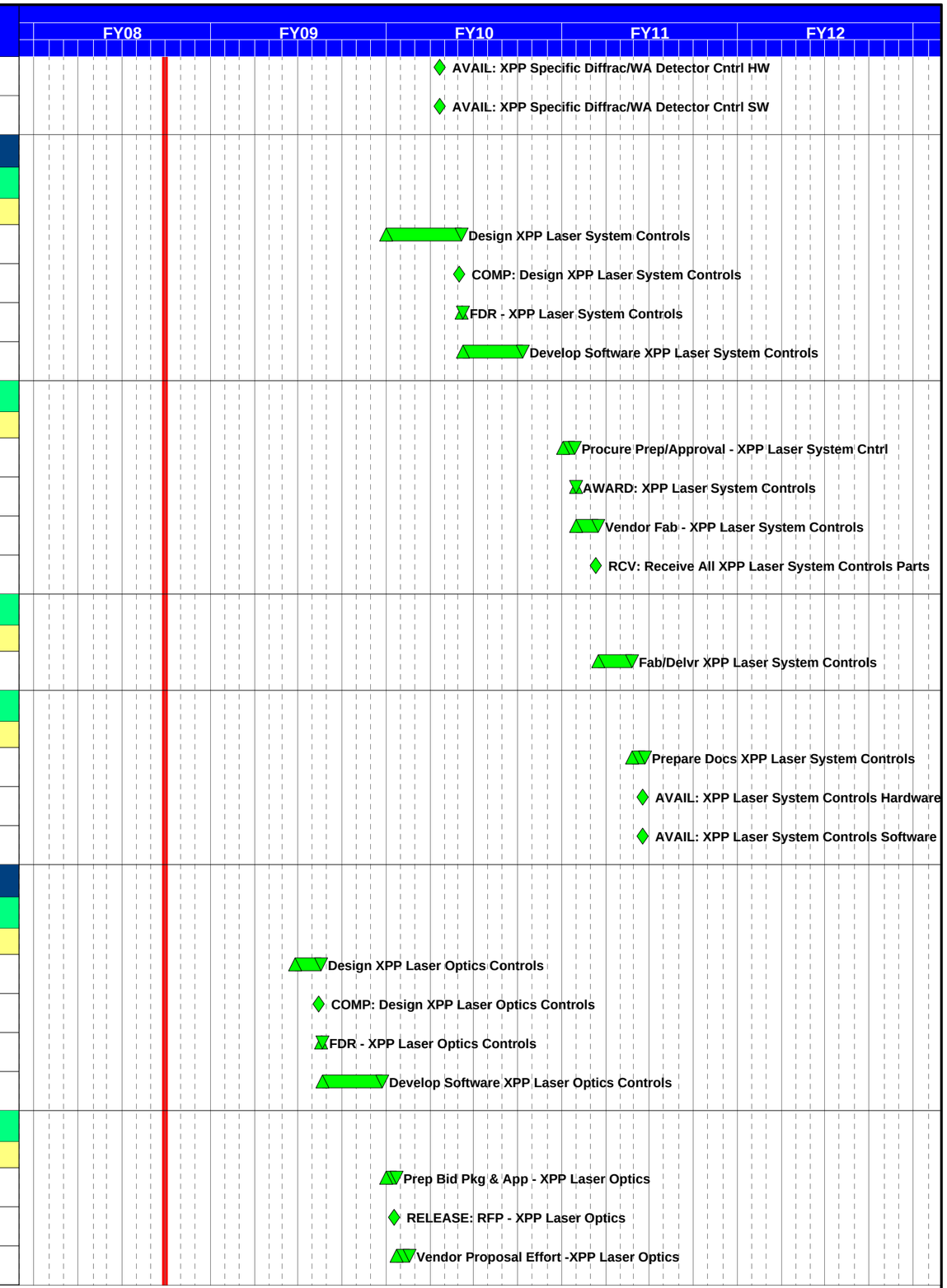
Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
05 Fab / Assembly						
9110695 Fab & Assembly - XPP H3 Attenuator Controls						
CD 03560	Fab/Delvr XPP Specific Attenuator Controls	40	306	SL_CT	1,379.80	CD 03525*
06 Testing						
9110696 Testing - XPP H3 Attenuator Controls						
CD 03580	Prepare Docs XPP Specific Attenuator Controls	20	306	SL_CP	918.70	CD 03540, CD 03560*
CD 03600	AVAIL: XPP Specific Attenuator Controls HW	0	306		0.00	CD 03560, CD 03580*
CD 03620	AVAIL: XPP Specific Attenuator Controls SW	0	306		0.00	CD 03560, CD 03580*
1.6.03.03.12 XPP Pulse Picker						
02 Design / Engineering						
ENG_PP Engineering Planning Package						
CD03685	Design XPP Pulse Picker Controls	80	219	SL_CE	4,659.60	DI 07540, PM300100*
CD03690	COMP: Design XPP Pulse Picker Controls	0	219		0.00	CD03685*
CD03695	FDR - XPP Pulse Picker Controls	1	219	SL_CE	1,164.90	CD03690*
SUB_PP Subcon Planning Package						
CD03755	Develop Software XPP Pulse Picker Controls	90	240	SL_CP	5,096.40	CD03695*
04 Subcontract						
SUB_PP Subcon Planning Package						
CD03700	Prep Bid Pkg & App - XPP Pulse Picker Cntrl	15	219		0.00	CD03695*
CD03705	RELEASE: RFP - XPP Pulse Picker Cntrl	0	219		0.00	CD03700*
CD03710	Vendor Proposal Effort - XPP Pulse Picker Cntrl	20	219		0.00	CD03705*
CD03715	RCV: Vendor Deliverables-XPP Pulse Picker Cntrl	0	219		0.00	CD03710*
CD03720	Eval & Selection Process -XPP Pulse Picker Cntrl	15	219		0.00	CD03715*
CD03725	Vendor Selection - XPP Pulse Picker Cntrl	0	219		0.00	CD03720*
CD03730	SLAC Approval Process -XPP Pulse Picker Cntrl	5	219		0.00	CD03725*
CD03735	DOE Approval Process - XPP Pulse Picker Cntrl	5	219		0.00	CD03730*
CD03740	AWARD: XPP Pulse Picker Controls	1	219	AWARD	11,531.39	CD03700, CD03735*, PM003000
CD03745	Vendor Fab - XPP Pulse Picker Controls	30	219	SL_MSEG	11,531.39	CD03740*
CD03750	RCV: Receive All XPP Pulse Picker Controls Parts	0	219		0.00	CD03745*
05 Fab / Assembly						
FAB_PP Fab & Assy Planning Package						
CD03760	Fab/Delvr XPP Pulse Picker Controls	40	219	SL_CT	1,312.78	CD03750*
06 Testing						
TST_PP Testing Planning Package						
CD03765	Prepare Docs XPP Pulse Picker Controls	20	240	SL_CP	435.24	CD03755*



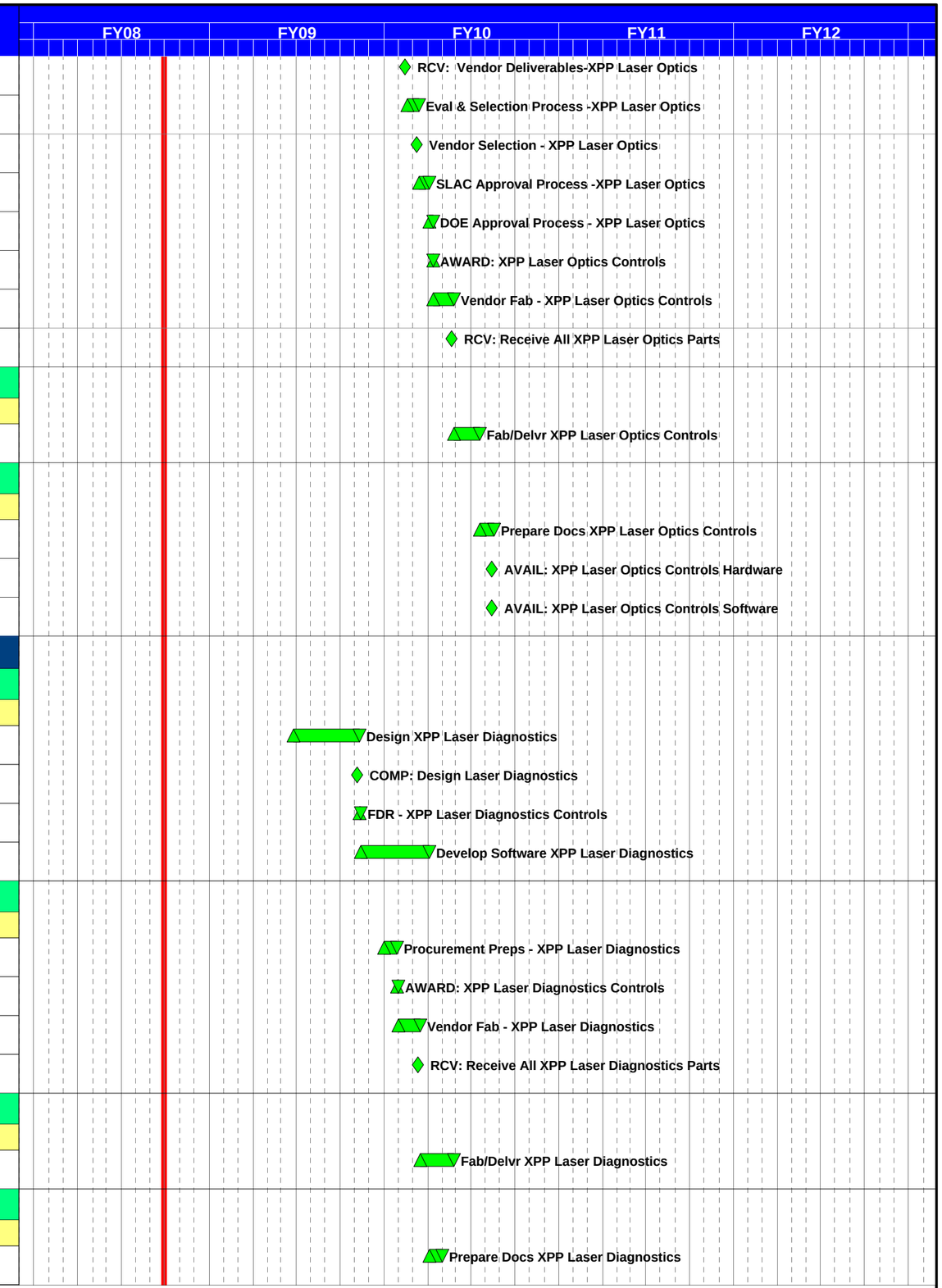
Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
CD03770	AVAIL: XPP Pulse Picker Controls Hardware	0	219		0.00	CD03760*, CD03765
CD03775	AVAIL: XPP Pulse Picker Controls Software	0	219		0.00	CD03770*
1.6.03.03.13 XPP H3 Harmonic Rejection Mirrors Controls						
02 Design / Engineering						
9110697 Design & Engr - XPP H3 HRM Controls						
CD 05160	Design XPP Specific HR Mirrors Controls	100	161	SL_CE	9,692.00	CD 01140, PM300105*
CD 05165	COMP: Design XPP Specific HR Mirrors Controls	0	161		0.00	CD 05160*
CD 05180	FDR - XPP Harmonic Rejection Mirrors Controls	1	161	SL_CE	2,423.00	CD 05165*
CD 05240	Develop SW XPP Specific HR Mirrors Controls	90	455	SL_CP	19,434.80	CD 05180*
03 Procurement						
9110698 Procurement - XPP H3 HRM Controls						
CD 05205	Procure Prep/Approval - XPP Specific HR Mirror	20	454		0.00	CD 05180*, PM300105
CD 05210	AWARD: XPP Specific HR Mirrors Controls	1	326	AWARD	22,338.40	CD 05205, PM003000, PM300110*
CD 05220	Vendor Fab - XPP Specific HR Mirrors Controls	30	326	SL_MSEG	22,338.40	CD 05210*
CD 05225	RCV: Receive All XPP Specific HR Mirrors Parts	0	326		0.00	CD 05220*
05 Fab / Assembly						
9110699 Fab & Assembly - XPP H3 HRM Controls						
CD 05260	Fab/Delvr XPP Specific HR Mirrors Controls	40	326	SL_CT	2,759.60	CD 05225*
06 Testing						
9110700 Testing - XPP H3 HRM Controls						
CD 05280	Prepare Docs XPP Specific HR Mirrors Controls	20	326	SL_CP	3,674.80	CD 05240, CD 05260*
CD 05300	AVAIL: XPP Specific HR Mirrors Control HW	0	326		0.00	CD 05260, CD 05280*
CD 05320	AVAIL: XPP Specific HR Mirrors Control SW	0	326		0.00	CD 05260, CD 05280*
1.6.03.03.15 XPP H3 Vision Camera Controls						
02 Design / Engineering						
9110701 Design & Engr - XPP H3 Vision Camera Controls						
CD 04180	Design XPP Specific 2D Camera Controls (BNL)	100	161	SL_CE	4,846.00	CD 01140, PM300105*
CD 04185	COMP: Design XPP Specific 2D Camera Controls BNL	0	161		0.00	CD 04180*
CD 04200	FDR - XPP Specific 2D Camera Controls (BNL)	1	161	SL_CE	1,211.50	CD 04185*, DI 01620
CD 04260	Develop SW XPP Specific 2D Camera Controls (BNL)	90	452	SL_CP	7,067.20	CD 04200*
03 Procurement						
9110702 Procurement - XPP H3 Vision Camera Controls						
CD 04225	Procure Prep/Approval XPP Specific 2D Camera BNL	20	471		0.00	CD 04200*, PM300105
CD 04230	AWARD: XPP Specific 2D Camera Controls (BNL)	1	471	AWARD	10,900.00	CD 04225*, PM003000
CD 04240	Vendor Fab - XPP Specific 2D Camera Controls BNL	30	471	SL_MSEG	10,900.00	CD 04230*

Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
CD 04245	RCV: Recv All XPP Specific 2D Camera BNL Parts	0	471		0.00	CD 04240*
05 Fab / Assembly						
9110703 Fab & Assembly - XPP H3 Vision Camera Controls						
CD 04280	Fab/Delvr XPP Specific 2D Camera Controls (BNL)	40	471	SL_CT	1,326.80	CD 04245*
06 Testing						
9110704 Testing - XPP H3 Vision Camera Controls						
CD 04300	Prepare Docs XPP Specific 2D Camera Controls BNL	20	452	SL_CP	883.40	CD 04260*, CD 04280
CD 04320	AVAIL: XPP Specific 2D Camera Controls (BNL) HW	0	452		0.00	CD 04280, CD 04300*
CD 04340	AVAIL: XPP Specific 2D Camera Controls (BNL) SW	0	452		0.00	CD 04280, CD 04300*
1.6.03.03.16 XPP H3 Diffractometer/Wide Angle Detector Contro						
02 Design / Engineering						
9110705 Design & Engr - XPP H3 Diffrac/WAD Cntrls						
CD 04360	Design XPP Specific Diffrac/WA Detector Controls	40	161	SL_CE	9,319.20	CD 01040*
CD 04365	COMP: Design XPP Specif Diffrac/WA Detector Cont	0	161		0.00	CD 04360*
CD 04380	FDR - XPP Specific Diffrac/WA Detector Controls	1	161	SL_CE	2,329.80	CD 04365*
CD 04440	Develop SW XPP Specific Diffrac/WA Detector Cntr	90	182	SL_CP	25,482.00	CD 04380*
04 Subcontract						
9110706 Subcontract - XPP H3 Diffrac/WAD Cntrls						
CD 04405	Prep Bid Pkg & App - XPP Speci Diffrac/WA Detect	15	161		0.00	CD 04380*, PM300100
CD 04406	RELEASE: RFP - XPP Specific DWAD Ctrls	0	161		0.00	CD 04405*
CD 04407	Vendor Proposal Effort -XPP Specific DWAD Ctrls	20	161		0.00	CD 04406*
CD 04408	RCV: Vendor Deliverables-XPP Specific DWAD Ctrl	0	161		0.00	CD 04407*
CD 04409	Eval & Selection Process -XPP Specific DWAD Ctrl	15	161		0.00	CD 04408*
CD 04410	Vendor Selection - XPP Specific DWAD Ctrls	0	161		0.00	CD 04409*
CD 04411	SLAC Approval Process -XPP Specific DWAD Ctrls	5	161		0.00	CD 04410*
CD 04412	DOE Approval Process - XPP Specific DWAD Ctrls	5	161		0.00	CD 04411*
CD 04415	AWARD: XPP Specific Diffrac/WA Detector Controls	1	126	AWARD	44,624.60	CD 04405, CD 04412, PM003000, PM300105*
CD 04420	Vendor Fab - XPP Specific Diffrac/WA Detector Co	30	126	SL_MSEQ	44,624.60	CD 04415*
CD 04425	RCV: Recv All XPP Specif Diffrac/WA Detect Parts	0	126		0.00	CD 04420*
05 Fab / Assembly						
9110707 Fab & Assembly - XPP H3 Diffrac/WAD Cntrls						
CD 04460	Fab/Delvr XPP Specific Diffrac/WA Detector Contr	40	126	SL_CT	1,990.20	CD 04425*
06 Testing						
9110708 Testing - XPP H3 Diffrac/WAD Cntrls						
CD 04480	Prep Docs XPP Specific Diffrac/WA Detector Cntrl	20	182	SL_CP	1,763.40	CD 04440*

Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
CD 04500	AVAIL: XPP Specific Diffrac/WA Detector Cntrl HW	0	126		0.00	CD 04460*, CD 04480
CD 04520	AVAIL: XPP Specific Diffrac/WA Detector Cntrl SW	0	126		0.00	CD 04460*, CD 04480
1.6.03.03.18 XPP H3 Laser System Controls						
02 Design / Engineering						
9110709 Design & Engr - XPP H3 Laser System Controls						
CD 04960	Design XPP Laser System Controls	100	161	SL_CE	10,903.50	CD 01040, PM300105*
CD 04965	COMP: Design XPP Laser System Controls	0	161		0.00	CD 04960*
CD 04980	FDR - XPP Laser System Controls	1	161	SL_CE	2,423.00	CD 04965*
CD 05040	Develop Software XPP Laser System Controls	90	466	SL_CP	19,434.80	CD 04980*
03 Procurement						
9110710 Procurement - XPP H3 Laser System Controls						
CD 05005	Procure Prep/Approval - XPP Laser System Cntrl	20	317		0.00	CD 04980, PM300110*
CD 05010	AWARD: XPP Laser System Controls	1	317	AWARD	0.00	CD 05005*, PM003000, PM300110
CD 05020	Vendor Fab - XPP Laser System Controls	30	317	SL_MSEG	0.00	CD 05010*
CD 05025	RCV: Receive All XPP Laser System Controls Parts	0	317		0.00	CD 05020*
05 Fab / Assembly						
9110711 Fab & Assembly - XPP H3 Laser System Controls						
CD 05060	Fab/Delvr XPP Laser System Controls	40	317	SL_CT	4,139.40	CD 05025*
06 Testing						
9110712 Testing - XPP H3 Laser System Controls						
CD 05080	Prepare Docs XPP Laser System Controls	20	317	SL_CP	3,674.80	CD 05040, CD 05060*
CD 05100	AVAIL: XPP Laser System Controls Hardware	0	317		0.00	CD 05060, CD 05080*
CD 05120	AVAIL: XPP Laser System Controls Software	0	317		0.00	CD 05060, CD 05080*
1.6.03.03.20 XPP H3 Laser Optics Controls						
02 Design / Engineering						
9110713 Design & Engr - XPP H3 Laser Optics Controls						
CD 05347	Design XPP Laser Optics Controls	40	201	SL_CE	4,659.60	CD 01040*
CD 05348	COMP: Design XPP Laser Optics Controls	0	201		0.00	CD 05347*
CD 05349	FDR - XPP Laser Optics Controls	1	201	SL_CE	1,164.90	CD 05348*
CD 05357	Develop Software XPP Laser Optics Controls	90	242	SL_CP	9,343.40	CD 05349*
04 Subcontract						
9110714 Subcontract - XPP H3 Laser Optics Controls						
CD 05335	Prep Bid Pkg & App - XPP Laser Optics	15	106		0.00	CD 05349, PM300105*
CD 05336	RELEASE: RFP - XPP Laser Optics	0	106		0.00	CD 05335*
CD 05337	Vendor Proposal Effort -XPP Laser Optics	20	106		0.00	CD 05336*



Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
CD 05338	RCV: Vendor Deliverables-XPP Laser Optics	0	106		0.00	CD 05337*
CD 05339	Eval & Selection Process -XPP Laser Optics	15	106		0.00	CD 05338*
CD 05340	Vendor Selection - XPP Laser Optics	0	106		0.00	CD 05339*
CD 05341	SLAC Approval Process -XPP Laser Optics	5	106		0.00	CD 05340*
CD 05342	DOE Approval Process - XPP Laser Optics	5	106		0.00	CD 05341*
CD 05352	AWARD: XPP Laser Optics Controls	1	106	AWARD	85,515.95	CD 05335, CD 05342*, PM003000, PM300105
CD 05353	Vendor Fab - XPP Laser Optics Controls	30	106	SL_MSEQ	85,515.95	CD 05352*
CD 05355	RCV: Receive All XPP Laser Optics Parts	0	106		0.00	CD 05353*
05 Fab / Assembly						
9110715 Fab & Assembly - XPP H3 Laser Optics Controls						
CD 05359	Fab/Delvr XPP Laser Optics Controls	40	106	SL_CT	5,307.20	CD 05355*
06 Testing						
9110716 Testing - XPP H3 Laser Optics Controls						
CD 05361	Prepare Docs XPP Laser Optics Controls	20	106	SL_CP	883.40	CD 05357, CD 05359*
CD 05363	AVAIL: XPP Laser Optics Controls Hardware	0	106		0.00	CD 05359, CD 05361*
CD 05365	AVAIL: XPP Laser Optics Controls Software	0	106		0.00	CD 05359, CD 05361*
1.6.03.03.21 XPP H3 Laser Diagnostics						
02 Design / Engineering						
9110717 Design & Engr - XPP H3 Laser Diagnostics						
CD 05370	Design XPP Laser Diagnostics	100	172	SL_CE	13,978.80	CD 01040*
CD 05375	COMP: Design Laser Diagnostics	0	172		0.00	CD 05370*
CD 05380	FDR - XPP Laser Diagnostics Controls	1	172	SL_CE	2,329.80	CD 05375*
CD 05440	Develop Software XPP Laser Diagnostics	90	172	SL_CP	3,511.24	CD 05380*
03 Procurement						
9110718 Procurement - XPP H3 Laser Diagnostics						
CD 05405	Procurement Preps - XPP Laser Diagnostics	20	156		0.00	CD 05380, PM300105*
CD 05410	AWARD: XPP Laser Diagnostics Controls	1	156	AWARD	0.00	CD 05405*, PM003000
CD 05420	Vendor Fab - XPP Laser Diagnostics	30	156	SL_MSEG	0.00	CD 05410*
CD 05425	RCV: Receive All XPP Laser Diagnostics Parts	0	156		0.00	CD 05420*
05 Fab / Assembly						
9110719 Fab & Assembly - XPP H3 Laser Diagnostics						
CD 05460	Fab/Delvr XPP Laser Diagnostics	40	156	SL_CT	663.40	CD 05425*
06 Testing						
9110720 Testing - XPP H3 Laser Diagnostics						
CD 05480	Prepare Docs XPP Laser Diagnostics	20	172	SL_CP	883.40	CD 05440*, CD 05460



Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
CD 05500	AVAIL: XPP Laser Diagnostics Hardware	0	156		0.00	CD 05460*, CD 05480
CD 05520	AVAIL: XPP Laser Diagnostics Software	0	156		0.00	CD 05460*, CD 05480
1.6.03.03.34 XPP H3 Controls System Integration Test						
02 Design / Engineering						
9110721 Design & Engr - XPP H3 Cntrls Sys Integ						
CD 07560	Design XPP Controls System Integration Test	100	101	SL_CE	9,692.00	CD 01020, PM300105*
CD 07561	COMP:Design XPP Controls System Integration Test	0	101		0.00	CD 07560*
CD 07562	FDR - XPP Controls System Integration Test	1	101	SL_CE	2,423.00	CD 07561*
06 Testing						
9110722 Testing - XPP H3 Cntrls Sys Integ						
CD 07566	Perform XPP Controls System Integration Test	20	101	SL_CP	31,802.40	CD 07562*, PM300100
CD 07568	Prepare Docs XPP Controls Syst Integration Test	20	101	SL_CP	1,766.80	CD 07566*
CD 07570	AVAIL: XPP Controls System Integration Test Comp	0	101		0.00	CD 07568*
1.6.04.01.01 CXI H5 Controls Requirements and Design						
02 Design / Engineering						
9110723 CXI H5 Controls Requirements & Design Support						
CD 07600	Prepare Requirements - CXI	25	143	SL_CE	2,329.80	CXI 01050, PM300100*
CD 07620	Prepare Controls ICD - CXI	25	143	SL_CE	2,329.80	CD 07600*
CD 07640	Prepare Final Device List for CXI	10	143	SL_CE	2,329.80	CD 07620*
CD 07660	Preliminary Design for CXI	50	143	SL_CE	15,143.70	CD 07640*
CD 07700	PDR - CXI Controls Requirements & Design	1	143	SL_CE	3,494.70	CD 07660*
CD 07740	Post PDR Design Effort for CXI Requirments	10	143	SL_CE	582.45	CD 07700*
CD 07750	PDR - Prelim Design Review - CXI Phase 2	1	143	SL_CE	3,494.70	CD 07740*
CD 07760	Post Design Effort Phase 2 - CXI Req'mts	20	143	SL_CE	4,659.60	CD 07750*
CD 07780	Post Design Effort Phase 3 - CXI Req'mts	50	143		0.00	CD 07760*
1.6.04.01.02 CXI H5 Development Test Setup						
03 Procurement						
9110725 Procurement - CXI H5 Dev Test Setup						
CD 07770	Procure Prep/Approval - CXI Develop Test Setup	100	244		0.00	CD 07700*
CD 07772	AWARD: CXI Specific Hardware & Software	1	146	AWARD	27,250.00	CD 07770, PM003030*
CD 07782	Vendor Fab - CXI Specific Hardware & Software	100	146	SL_MSEQ	27,250.00	CD 07772*
CD 07785	RCV: Recv All CXI Development Test Setup Parts	0	146		0.00	CD 07782*
05 Fab / Assembly						
9110726 Fab & Assembly - CXI H5 Dev Test Setup						
CD 07800	Fab/Delvr CXI Specific Hardware & Software	60	146	SL_CT	5,307.20	CD 07785*

Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
CD 07820	Develop Software for CXI Test Setup	90	146	SL_CP	18,296.34	CD 07800*
CD 07840	COMP: CXI Test Setup	0	146		0.00	CD 07820*
1.6.04.02.01 CXI H5 Cables & Racks						
02 Design / Engineering						
9110727 Design & Engr - CXI H5 Cables & Racks						
CD 07860	Prepare Parts List for CXI Hutch Cables & Racks	60	143	SL_CE	9,319.20	CD 07700*
CD 07880	Prepare Layout for CXI Hutch Cables & Racks	60	143	SL_CE	11,649.00	CD 07860*
04 Subcontract						
9110728 Subcontract - CXI H5 Cables & Racks						
CD 07885	Prep Bid Pkg & App - CXI Hutch Cables & Racks	15	143		0.00	CD 01185, CD 07880*
CD 07886	RELEASE: RFP - CXI Hutch Cables & Racks	0	143		0.00	CD 07885*
CD 07887	Vendor Proposal Effort -CXI Hutch Cables & Racks	20	143		0.00	CD 07886*
CD 07888	RCV: Vendor Deliverables-CXI Hutch Cables & Rac	0	143		0.00	CD 07887*
CD 07889	Eval & Selection Process -CXI Hutch Cables & Rac	15	143		0.00	CD 07888*
CD 07890	Vendor Selection - CXI Hutch Cables & Racks	0	143		0.00	CD 07889*
CD 07891	SLAC Approval Process -CXI Hutch Cables & Racks	5	143		0.00	CD 07890*
CD 07892	DOE Approval Process - CXI Hutch Cables & Racks	5	143		0.00	CD 07891*
CD 07895	AWARD: CXI Hutch Cables & Racks	1	125	AWARD	287,587.78	CD 07892, PM003030*
CD 07900	Vendor Fab - CXI Hutch Cables & Racks	20	125	SL_MSEQ	287,587.78	CD 07895*
CD 07905	RCV: Receive All CXI Hutch Cables & Racks Parts	0	125		0.00	CD 07900*
05 Fab / Assembly						
9110729 Fab & Assembly - CXI H5 Cables & Racks						
CD 07920	Fab/Delvr CXI Hutch Cables & Racks	20	125	SL_CT	19,902.00	CD 07905*
CD 07940	Prepare Docs CXI Hutch Cables & Racks	20	125	SL_CT	5,307.20	CD 07920*, CD 07920
CD 07960	AVAIL: CXI Hutch Cables & Racks	0	125		0.00	CD 07940*
1.6.04.02.02 CXI H5 Workstation						
03 Procurement						
9110731 Procurement - CSI H5 Workstation						
CD 08000	Procurement Preps - CXI Hutch Workstation	40	263		0.00	CD 01300, CD 07780*
CD 08005	AWARD: CXI Hutch Workstation	1	186	AWARD	8,938.00	CD 08000, PM003030*
CD 08010	Vendor Fab - CXI Hutch Workstation	100	186	SL_MSEG	8,938.00	CD 08005*
CD 08015	RCV: Receive All CXI Hutch Workstation Parts	0	186		0.00	CD 08010*
05 Fab / Assembly						
9110732 Fab & Assembly - CXI H5 Workstation						
CD 08020	Fab/Delvr CXI Hutch Workstation	40	186	SL_CP	7,067.20	CD 08015*

Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
06 Testing						
9110733 Testing - CXI H5 Workstation						
CD 08040	System Test CXI Hutch Workstation	20	186	SL_CP	1,766.80	CD 08020*
CD 08060	Prepare Docs CXI Hutch Workstation	20	186	SL_CP	441.70	CD 08040*
CD 08080	AVAIL: CXI Hutch Workstation Hardware	0	186		0.00	CD 08060*
CD 08100	AVAIL: CXI Hutch Workstation Software	0	186		0.00	CD 08060*
1.6.04.02.03 CXI H5 Beam Line Processor						
03 Procurement						
9110734 Procurement - CXI H5 Beam Line Processor						
CD 08140	Procurement Preps - CXI Hutch Beam Line	100	143		0.00	CD 07780*
CD 08141	AWARD: CXI Hutch Beam Line Processor	1	126	AWARD	19,662.51	CD 08140, PM003030*
CD 08142	Vendor Fab - CXI Hutch Beam Line Processor	100	126	SL_MSEG	19,662.51	CD 08141*
CD 08145	RCV: Receive All CXI Hutch Beam Line Parts	0	126		0.00	CD 08142*
05 Fab / Assembly						
9110735 Fab & Assembly - CXI H5 Beam Line Processor						
CD 08160	Fab/Delvr CXI Hutch Beam Line Processor	100	126	SL_CP	1,775.98	CD 08145*
06 Testing						
9110736 Testing - CXI H5 Beam Line Processor						
CD 08180	System Test CXI Hutch Beam Line Processor	20	126	SL_CP	1,837.40	CD 08160*
CD 08200	Prepare Docs CXI Hutch Beam Line Processor	20	126	SL_CP	459.35	CD 08180*
CD 08220	AVAIL: CXI Hutch Beam Line Processor Hardware	0	126		0.00	CD 08200*
CD 08240	AVAIL: CXI Hutch Beam Line Processor Software	0	126		0.00	CD 08200*
1.6.04.02.04 CXI H5 Channel Access Gateway						
03 Procurement						
9110737 Procurement - CXI H5 Channel Access Gateway						
CD 08280	Procure Preps/Approval CXI Hutch Channel Access	100	203		0.00	CD 07780*
CD 08281	AWARD: CXI Hutch Channel Access Gateway	1	186	AWARD	9,231.21	CD 08280, PM003030*
CD 08282	Vendor Fab - CXI Hutch Channel Access Gateway	100	186	SL_MSEG	9,231.21	CD 08281*
CD 08285	RCV: Receive All CXI Hutch Channel Access Parts	0	186		0.00	CD 08282*
05 Fab / Assembly						
9110738 Fab & Assembly - CXI H5 Channel Access Gateway						
CD 08290	Fab/Delvr CXI Hutch Channel Access Gateway	40	186	SL_CP	2,650.20	CD 08285*
06 Testing						
9110739 Testing - CXI H5 Channel Access Gateway						
CD 08300	System Test CXI Hutch Channel Access Gateway	20	186	SL_CP	1,766.80	CD 08290*
CD 08320	Prepare Docs CXI Hutch Channel Access Gateway	20	186	SL_CP	441.70	CD 08300*

Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
CD 08340	AVAIL: CXI Hutch Channel Access Gateway Hardware	0	186		0.00	CD 08320*
CD 08360	AVAIL: CXI Hutch Channel Access Gateway Software	0	186		0.00	CD 08320*
1.6.04.02.05 CXI H5 MPS						
03 Procurement						
9110740 Procurement - CXI H5 Channel Access Gateway						
CD 08400	Procurement Preps - CXI Hutch MPS	100	203		0.00	CD 07780*
CD 08401	AWARD: CXI Hutch MPS	1	186	AWARD	18,751.27	CD 08400, PM003030*
CD 08402	Vendor Fab - CXI Hutch MPS	100	186	SL_MSEG	18,751.27	CD 08400, CD 08401*
CD 08405	RCV: Receive All CXI Hutch MPS Parts	0	186		0.00	CD 08402*
05 Fab / Assembly						
9110741 Fab & Assembly - CXI H5 Channel Access Gateway						
CD 08420	Fab/Delvr CXI Hutch MPS	40	186	SL_CT	1,326.80	CD 08405*
06 Testing						
9110742 Testing - CXI H5 Channel Access Gateway						
CD 08440	System Test CXI Hutch MPS	20	186	SL_CP	1,766.80	CD 08420*
CD 08460	Prepare Docs CXI Hutch MPS	20	186	SL_CP	441.70	CD 08440*
CD 08480	AVAIL: CXI Hutch MPS Hardware	0	186		0.00	CD 08460*
CD 08500	AVAIL: CXI Hutch MPS Firmware	0	186		0.00	CD 08460*
1.6.04.03.01 CXI H5 Data Acquisition (DAQ)						
02 Design / Engineering						
9110743 Design & Engr - CXI H5 Data Acquisition						
CD 08540	Design CXI Specific Data Acquisition	100	222	SL_CE	22,721.01	CD 07780*
CD 08545	COMP: Design CXI Specific Data Acquisition	0	222		0.00	CD 08540*
CD 08560	FDR - CXI Specific Data Acquisition	1	222	SL_CE	4,846.00	CD 08545*
CD 08620	Develop Software CXI Specific Data Acquisition	90	273	SL_CE	41,191.00	CD 08560*
04 Subcontract						
9110744 Subcontract - CXI H5 Data Acquisition						
CD 08580	Prep Bid Pkg & App - CXI Specific Data Acq	15	222		0.00	CD 08560*
CD 08581	RELEASE: RFP - CXI Specific Data Acq	0	222		0.00	CD 08580*
CD 08582	Vendor Proposal Effort -CXI Specific Data Acq	20	222		0.00	CD 08581*
CD 08583	RCV: Vendor Deliverables-CXI Specific Data Acq	0	222		0.00	CD 08582*
CD 08584	Eval & Selection Process -CXI Specific Data Acq	15	222		0.00	CD 08583*
CD 08585	Vendor Selection - CXI Specific Data Acq	0	222		0.00	CD 08584*
CD 08586	SLAC Approval Process -CXI Specific Data Acq	5	222		0.00	CD 08585*
CD 08587	DOE Approval Process - CXI Specific Data Acq	5	222		0.00	CD 08586*

Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
CD 08590	AWARD: CXI Specific Data Acquisition (DAQ)	1	222	AWARD	22,362.44	CD 08580, CD 08587*, PM003030
CD 08600	Vendor Fab - CXI Specific Data Acquisition	30	222	SL_MSEG	22,362.44	CD 08590*
CD 08605	RCV: Receive All CXI Specific Data Acq Parts	0	222		0.00	CD 08600*
05 Fab / Assembly						
9110745 Fab & Assembly - CXI H5 Data Acquisition						
CD 08640	Fab/Delvr CXI Specific Data Acquisition	40	222	SL_CT	7,960.80	CD 08605*
06 Testing						
9110746 Testing - CXI H5 Data Acquisition						
CD 08660	System Test CXI Specific Data Acquisition	10	222	SL_CP	8,834.00	CD 08640*
CD 08680	Prepare Docs CXI Specific Data Acquisition	20	222	SL_CP	3,533.60	CD 08620, CD 08660*
CD 08700	AVAIL: CXI Specific Data Acquisition Hardware	0	222		0.00	CD 08640, CD 08680*
CD 08720	AVAIL: CXI Specific Data Acquisition Software	0	222		0.00	CD 08640, CD 08680*
1.6.04.03.02 CXI H5 DAQ Hutch Data Management						
02 Design / Engineering						
9110747 Design & Engr - CXI H5 DAQ Hutch Data Mgmt						
CD 08760	Design CXI Specific DAQ Hutch Data Management	100	223	SL_CE	4,783.37	CD 07780*
CD 08765	COMP: Design CXI Specific Hutch Data Management	0	223		0.00	CD 08760*
CD 08780	FDR - CXI Specific DAQ Hutch Data Management	1	223	SL_CE	2,423.00	CD 08765*
CD 08840	Develop SW CXI Specific DAQ Hutch Data Mgmt	90	223	SL_CP	5,300.40	CD 08780*
CD 08900	Prepare Docs CXI Specific DAQ Hutch Data Mgmt	20	223	SL_CP	1,766.80	CD 08840, CD 08880*
05 Fab / Assembly						
9110748 Fab & Assembly - CXI H5 DAQ Hutch Data Mgmt						
CD 08860	Fab/Delvr CXI Specific DAQ Hutch Data Management	40	223	SL_CT	2,653.60	CD 08840*
06 Testing						
9110749 Testing - CXI H5 DAQ Hutch Data Mgmt						
CD 08880	System Test CXI Specific DAQ Hutch Data Mgmt	10	223	SL_CP	7,067.20	CD 08860*
CD 08920	AVAIL: CXI Specific DAQ Hutch Data Management HW	0	223		0.00	CD 08900*
CD 08940	AVAIL: CXI Specific DAQ Hutch Data Management SW	0	223		0.00	CD 08900*
1.6.04.03.03 CXI H5 Experiment Configuration Control						
02 Design / Engineering						
9110750 Design & Engr - CXI H5 Experiment Config Cntrl						
CD 08960	Design CXI Specific Experiment Config Control	100	247	SL_CE	4,783.37	CD 07780*
CD 08965	COMP: Design CXI Specific Experiment Config Cntr	0	247		0.00	CD 08960*
CD 08980	FDR - CXI Specific Experiment Config Control	1	247	SL_CE	1,211.50	CD 08965*
CD 09040	Develop SW CXI Specific Experiment Config Cntrl	90	273	SL_CP	23,851.80	CD 08980*

Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
04 Subcontract						
9110751 Subcontract - CXI H5 Experiment Config Cntrl						
CD 09000	Prep Bid Pkg & App - CXI Specific Experiment	20	247		0.00	CD 08980*
CD 09001	RELEASE: RFP - CXI Specific Exper Config Ctrl	0	247		0.00	CD 09000*
CD 09002	Vendor Proposal Effort -CXI Specific Exper Confi	20	247		0.00	CD 09001*
CD 09003	RCV: Vendor Deliverables-CXI Specific Exper Con	0	247		0.00	CD 09002*
CD 09004	Eval & Selection Process -CXI Specific Exper Con	15	247		0.00	CD 09003*
CD 09005	Vendor Selection - CXI Specific Exper Config Ctr	0	247		0.00	CD 09004*
CD 09006	SLAC Approval Process -CXI Specific Exper Config	5	247		0.00	CD 09005*
CD 09007	DOE Approval Process - CXI Specific Exper Config	5	247		0.00	CD 09006*
CD 09010	AWARD: CXI Specific Experiment Config Control	1	247	AWARD	117,862.79	CD 09000, CD 09007*, PM003030
CD 09020	Vendor Fab -CXI Specific Experiment Config Cntrl	30	247	SL_MSEQ	117,862.79	CD 09010*
CD 09025	RCV: Receive All CXI Specific Experiment Parts	0	247		0.00	CD 09020*
05 Fab / Assembly						
9110752 Fab & Assembly - CXI H5 Experiment Config Cntrl						
CD 09060	Fab/Delvr CXI Specific Experiment Config Control	40	247	SL_CP	5,300.40	CD 09025*
06 Testing						
9110753 Testing - CXI H5 Experiment Config Cntrl						
CD 09080	Prepare Docs CXI Specific Experiment Config Cont	20	273	SL_CP	1,766.80	CD 09040*
CD 09100	AVAIL: CXI Specific Experiment Config Control	0	247		0.00	CD 09060*, CD 09080
1.6.04.03.04 CXI H5 Valve Controls						
02 Design / Engineering						
9110754 Design & Engr - CXI H5 Valve Controls						
CD 09320	Design CXI Specific Valve Controls	100	285	SL_CE	597.92	CD 07780*
CD 09321	COMP: Design CXI Specific Valve Controls	0	285		0.00	CD 09320*
CD 09322	FDR - CXI Specific Valve Controls	1	285		0.00	CD 09321*
CD 09332	Develop SW CXI Specific Valve Controls	90	285	SL_CP	883.40	CD 09322*
03 Procurement						
9110755 Procurement - CXI H5 Valve Controls						
CD 09326	Procure Prep/Approval CXI Specific Valve Control	20	304		0.00	CD 09322*
CD 09327	AWARD: CXI Specific Valve Controls	1	304	AWARD	6,547.63	CD 09326*, PM003030
CD 09328	Vendor Fab - CXI Specific Valve Controls	30	304	SL_MSEG	6,547.63	CD 09327*
CD 09330	RCV: Receive All CXI Specific Valve Cntrl Parts	0	304		0.00	CD 09328*

Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
05 Fab / Assembly						
9110756 Fab & Assembly - CXI H5 Valve Controls						
CD 09334	Fab/Delvr CXI Specific Valve Controls	40	304	SL_CT	2,653.60	CD 09330*
06 Testing						
9110757 Testing - CXI H5 Valve Controls						
CD 09336	Prepare Docs CXI Specific Valve Controls	20	285	SL_CP	883.40	CD 09332*
CD 09338	AVAIL: CXI Specific Valve Controls Hardware	0	285		0.00	CD 09334, CD 09336*
CD 09340	AVAIL: CXI Specific Valve Controls Software	0	285		0.00	CD 09334, CD 09336*
1.6.04.03.05 CXI H5 Vacuum Controls						
02 Design / Engineering						
9110758 Design & Engr - CXI H5 Vacuum Controls						
CD 09350	Design CXI Specific Vacuum Controls	100	264	SL_CE	1,195.84	CD 07780*
CD 09351	COMP: Design CXI Specific Vacuum Controls	0	264		0.00	CD 09350*
CD 09352	FDR - CXI Specific Vacuum Controls	1	264		0.00	CD 09351*
CD 09362	Develop Software CXI Specific Vacuum Controls	90	285	SL_CP	4,417.00	CD 09352*
04 Subcontract						
9110759 Subcontract - CXI H5 Vacuum Controls						
CD 09341	Prep Bid Pkg & App - CXI Specific Vacuum Cntrl	15	264		0.00	CD 09352*
CD 09342	RELEASE: RFP - CXI Specific Vacuum Cntrl	0	264		0.00	CD 09341*
CD 09343	Vendor Proposal Effort -CXI Specific Vacuum Cntr	20	264		0.00	CD 09342*
CD 09344	RCV: Vendor Deliverables-CXI Specific Vacuum Cn	0	264		0.00	CD 09343*
CD 09345	Eval & Selection Process -CXI Specific Vacuum Cn	15	264		0.00	CD 09344*
CD 09346	Vendor Selection - CXI Specific Vacuum Cntrl	0	264		0.00	CD 09345*
CD 09347	SLAC Approval Process -CXI Specific Vacuum Cntrl	5	264		0.00	CD 09346*
CD 09348	DOE Approval Process - CXI Specific Vacuum Cntrl	5	264		0.00	CD 09347*
CD 09357	AWARD: CXI Specific Vacuum Controls	1	264	AWARD	87,903.05	CD 09341, CD 09348*, PM003030
CD 09358	Vendor Fab - CXI Specific Vacuum Controls	30	264	SL_MSEQ	87,903.05	CD 09357*
CD 09360	RCV: Receive All CXI Specific Vacuum Cntrl Parts	0	264		0.00	CD 09358*
05 Fab / Assembly						
9110760 Fab & Assembly - CXI H5 Vacuum Controls						
CD 09364	Fab/Delvr CXI Specific Vacuum Controls	40	264	SL_CT	2,653.60	CD 09360*
06 Testing						
9110761 Testing - CXI H5 Vacuum Controls						
CD 09366	Prepare Docs CXI Specific Vacuum Controls	20	285	SL_CP	883.40	CD 09362*
CD 09368	AVAIL: CXI Specific Vacuum Controls Hardware	0	264		0.00	CD 09364*, CD 09366

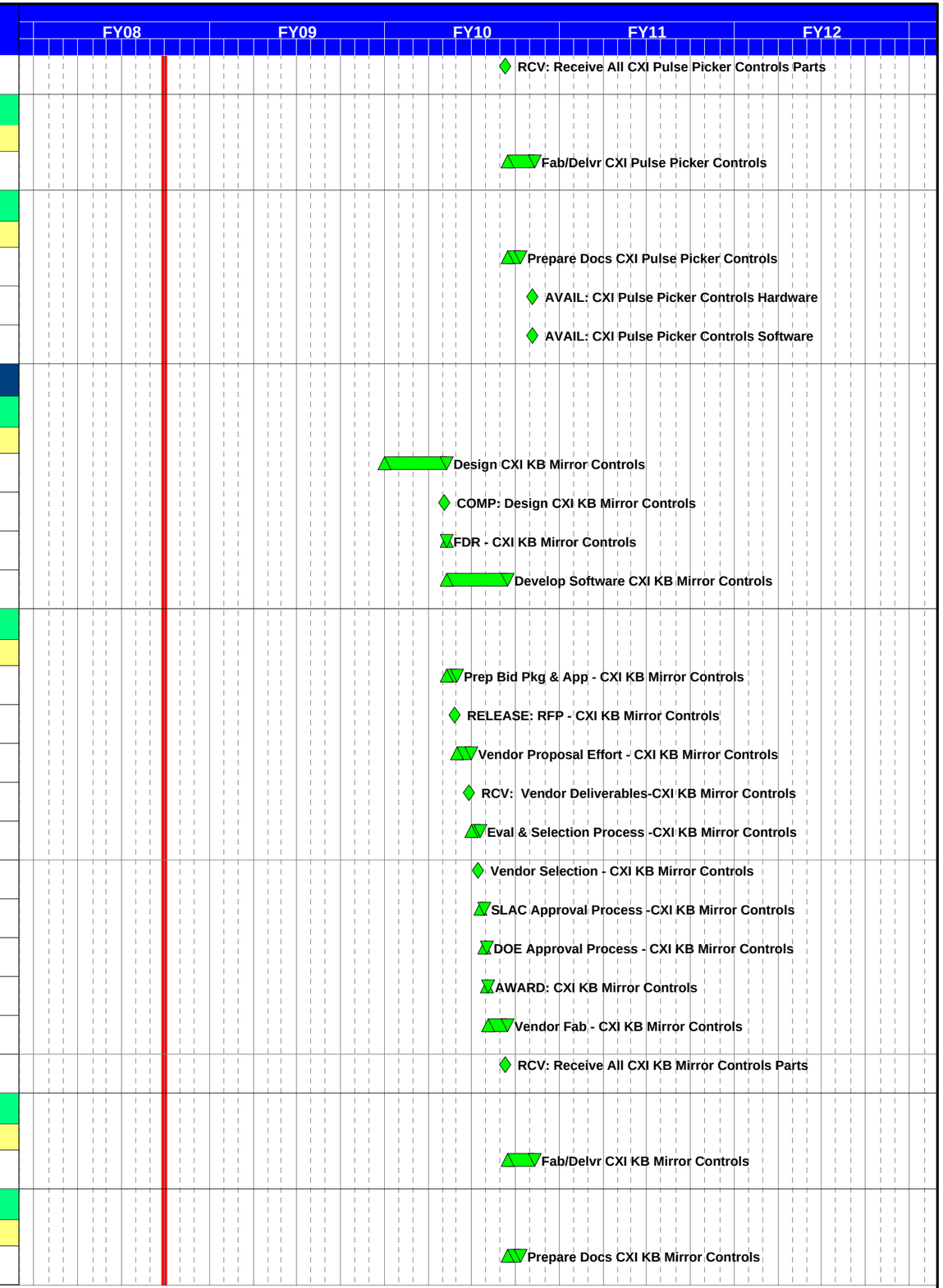
Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
CD 09370	AVAIL: CXI Specific Vacuum Controls Software	0	264		0.00	CD 09364*, CD 09366
1.6.04.03.06 CXI H5 Pop-In Profile Monitor Controls						
02 Design / Engineering						
9110762 Design & Engr - CXI H5 Pop-In Profile Mon Cntrls						
CD 09920	Design CXI Pop-In Profile Monitor Controls	80	260	SL_CE	582.45	CD 07750*
CD 09925	COMP: Design CXI Pop-In Profile Monitor Controls	0	260		0.00	CD 09920*
CD 09930	FDR - CXI Pop-In Profile Monitor Controls	1	260		0.00	CD 09925*, DI 01620
CD 09940	Develop Software CXI Pop-In PM Controls	90	260	SL_CP	1,748.44	CD 09930*
03 Procurement						
9110763 Procurement - CXI H5 Pop-In Profile Mon Cntrls						
CD 09935	Procurement Preps - CXI Pop-In PM	20	279		0.00	CD 09930*
CD 09950	AWARD: CXI Pop-In Profile Monitor Controls	1	193	AWARD	28,138.35	CD 09935, PM003030*
CD 09955	Vendor Fab - CXI Pop-In Profile Monitor Controls	30	193	SL_MSEQ	28,138.35	CD 09950*
CD 09960	RCV: All CXI Pop-In Profile Monitor Parts	0	193		0.00	CD 09955*
05 Fab / Assembly						
9110764 Fab & Assembly - CXI H5 Pop-In Profile Mon Cntrl						
CD 09965	Fab/Delvr CXI Pop-In Profile Monitor Controls	40	193	SL_CT	5,307.20	CD 09960*
06 Testing						
9110765 Testing - CXI H5 Pop-In Profile Mon Cntrls						
CD 09945	Prepare Docs CXI Pop-In Profile Monitor Controls	20	260	SL_CP	883.40	CD 09940*
CD 09970	AVAIL: CXI Pop-In Profile Monitor Controls HW	0	193		0.00	CD 09945, CD 09965*
CD 09975	AVAIL: CXI Pop-In Profile Monitor Controls SW	0	193		0.00	CD 09945, CD 09965*
1.6.04.03.07 CXI H5 Pop-In Intensity Monitor Controls						
02 Design / Engineering						
9110766 Design & Engr - CXI H5 Pop-In Intensity Mon Cntr						
CD 10090	Design CXI Pop-In Intensity Monitor Controls	80	331	SL_CE	582.45	CD 07750*
CD 10092	COMP: CXI Design Pop-In Intensity Monitor Cntrl	0	331		0.00	CD 10090*
CD 10095	FDR - CXI Pop-In Intensity Monitor Controls	1	331	SL_CE	0.00	CD 10092*, DI 02360
CD 10125	Develop SW CXI Pop-In Intensity Monitor Control	90	332	SL_CP	1,748.44	CD 10095*
03 Procurement						
9110767 Procurement - CXI H5 Pop-in Int Mon Cntrls						
CD 10105	Procure Prep/Approve CXI Pop-In Intensity Monit	20	331		0.00	CD 10095*
CD 10110	AWARD: CXI Pop-In Intensity Monitor Controls	1	245	AWARD	32,334.85	CD 10105, PM003030*
CD 10115	Vendor Fab - CXI Pop-In Intensity Monitor Cntrl	30	245	SL_MSEQ	32,334.85	CD 10105, CD 10110*
CD 10120	RCV: Recv All CXI Pop-In Intensity Monitor Parts	0	245		0.00	CD 10115*

Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
05 Fab / Assembly						
9110768 Fab & Assembly - CXI H5 Pop-In Intensity Mon Cnt						
CD 10130	Fab/Delvr CXI Pop-In Intensity Monitor Controls	40	245	SL_CT	1,326.80	CD 10120*
06 Testing						
9110769 Testing - CXI H5 Pop-In Intensity Mon Cntrls						
CD 10135	Prepare Docs CXI Pop-In Intensity Monitor Cntrl	20	245	SL_CP	883.40	CD 10125, CD 10130*
CD 10140	AVAIL: CXI Pop-In Intensity Monitor Controls HW	0	245		0.00	CD 10130, CD 10135*
CD 10145	AVAIL: CXI Pop-In Intensity Monitor Controls SW	0	245		0.00	CD 10130, CD 10135*
1.6.04.03.08 CXI H5 Intensity-Position Monitor Controls						
02 Design / Engineering						
9110770 Design & Engr - CXI H5 Intensity-Pos Mon Cntrls						
CD 09520	Design CXI Intensity-Position Monitor Controls	60	279	SL_CE	582.45	CD 07750*
CD 09525	COMP:CXI Design Intensity Position Monitor Cntrl	0	279		0.00	CD 09520*
CD 09540	FDR - CXI Intensity-Position Monitor Controls	1	279		0.00	CD 09525*
CD 09600	Develop SW CXI Intensity-Position Monitor Cont	90	300	SL_CP	5,190.01	CD 09540*
04 Subcontract						
9110771 Subcontract - CXI H5 Intensity-Pos Mon Cntrls						
CD 09560	Prep Bid Pkg & App - CXI Intensity-Position	15	279		0.00	CD 09540*
CD 09561	RELEASE: RFP - CXI IPM Controls	0	279		0.00	CD 09560*
CD 09562	Vendor Proposal Effort - CXI IPM Controls	20	279		0.00	CD 09561*
CD 09563	RCV: Vendor Deliverables-CXI IPM Controls	0	279		0.00	CD 09562*
CD 09564	Eval & Selection Process -CXI IPM Controls	15	279		0.00	CD 09563*
CD 09565	Vendor Selection - CXI IPM Controls	0	279		0.00	CD 09564*
CD 09566	SLAC Approval Process -CXI IPM Controls	5	279		0.00	CD 09565*
CD 09567	DOE Approval Process - CXI IPM Controls	5	279		0.00	CD 09566*
CD 09570	AWARD: CXI Intensity-Position Monitor Controls	1	213	AWARD	77,478.29	CD 09560, CD 09567, PM003030*
CD 09580	Vendor Fab -CXI Intensity-Position Monitor Cntrl	30	213	SL_MSEQ	77,478.29	CD 09570*
CD 09585	RCV: Recv All CXI Intensity-Position Monit Parts	0	213		0.00	CD 09580*
05 Fab / Assembly						
9110772 Fab & Assembly - CXI H5 Intensity-Pos Mon Cntrls						
CD 09620	Fab/Delvr CXI Intensity-Position Monitor Cntrl	40	213	SL_CT	2,653.60	CD 09585*
06 Testing						
9110773 Testing - CXI H5 Intensity-Pos Mon Cntrls						
CD 09640	Prepare Docs CXI Intensity-Position Monitr Cntrl	20	300	SL_CP	1,325.10	CD 09600*
CD 09660	AVAIL: CXI Intensity-Position Monitor Cntrl HW	0	213		0.00	CD 09620*, CD 09640

Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
CD 09680	AVAIL: CXI Intensity-Position Monitor Cntrl SW	0	213		0.00	CD 09620*, CD 09640
1.6.04.03.10 CXI H5 Slit Controls						
02 Design / Engineering						
9110774 Design & Engr - CXI H5 Slit Controls						
CD 09720	Design CXI Slit Controls	60	147	SL_CE	605.75	CD 07740, PM300105*
CD 09725	COMP: Design CXI Slit Controls	0	147		0.00	CD 09720*
CD 09740	FDR - CXI Slit Controls	1	147		0.00	CD 09725*
CD 09800	Develop Software CXI Slit Controls	90	168	SL_CP	1,766.80	CD 09740*
04 Subcontract						
9110775 Procurement - CXI H5 Slit Controls						
CD 09760	Prep Bid Pkg & App - CXI Slit Controls	15	147		0.00	CD 09740*
CD 09761	RELEASE: RFP - CXI Slit Controls	0	147		0.00	CD 09760*
CD 09762	Vendor Proposal Effort - CXI Slit Controls	20	147		0.00	CD 09761*
CD 09763	RCV: Vendor Deliverables-CXI Slit Controls	0	147		0.00	CD 09762*
CD 09764	Eval & Selection Process -CXI Slit Controls	15	147		0.00	CD 09763*
CD 09765	Vendor Selection - CXI Slit Controls	0	147		0.00	CD 09764*
CD 09766	SLAC Approval Process -CXI Slit Controls	5	147		0.00	CD 09765*
CD 09767	DOE Approval Process - CXI Slit Controls	5	147		0.00	CD 09766*
CD 09770	AWARD: CXI Slit Controls	1	147	AWARD	24,637.27	CD 09767*, PM003030
CD 09780	Vendor Fab - CXI Slit Controls	30	147	SL_MSEQ	24,637.27	CD 09770*
CD 09785	RCV: Receive All CXI Slit Controls Parts	0	147		0.00	CD 09780*
05 Fab / Assembly						
9110776 Fab & Assembly - CXI H5 Slit Controls						
CD 09820	Fab/Delvr CXI Slit Controls	40	147	SL_CT	3,980.40	CD 09785*
06 Testing						
9110777 Testing - CXI H5 Slit Controls						
CD 09840	Prepare Docs CXI Slit Controls	20	168	SL_CP	883.40	CD 09800*
CD 09860	AVAIL: CXI Slit Controls Hardware	0	147		0.00	CD 09820*, CD 09840
CD 09880	AVAIL: CXI Slit Controls Software	0	147		0.00	CD 09820*, CD 09840
1.6.04.03.11 CXI H5 Attenuator Controls						
02 Design / Engineering						
9110778 Design & Engr - CXI H5 Attenuator Controls						
CD 10320	Design CXI Attenuator Controls	80	260	SL_CE	582.45	CD 07740, CD 07750*
CD 10325	COMP: Design CXI Attenuator Controls	0	260		0.00	CD 10320*
CD 10340	FDR - CXI Attenuator Controls	1	260		0.00	CD 10325*, DI 07070

Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
CD 10400	Develop Software CXI Attenuator Controls	90	260	SL_CP	1,311.33	CD 10340*
03 Procurement						
9110779 Procurement - CXI H5 Attenuator Controls						
CD 10365	Procure Prep/Approval - CXI Attenuator Control	20	279		0.00	CD 10340*
CD 10370	AWARD: CXI Attenuator Controls	1	193	AWARD	10,878.20	CD 10365, PM003030*
CD 10380	Vendor Fab - CXI Attenuator Controls	30	193	SL_MSEG	10,878.20	CD 10370*
CD 10385	RCV: Receive All CXI Attenuator Controls Parts	0	193		0.00	CD 10380*
05 Fab / Assembly						
9110780 Fab & Assembly - CXI H5 Attenuator Controls						
CD 10420	Fab/Delvr CXI Attenuator Controls	40	193	SL_CT	1,326.80	CD 10385*
06 Testing						
9110781 Testing - CXI H5 Attenuator Controls						
CD 10440	Prepare Docs CXI Attenuator Controls	20	260	SL_CP	441.70	CD 10400*
CD 10460	AVAIL: CXI Attenuator Controls Hardware	0	193		0.00	CD 10420*, CD 10440
CD 10480	AVAIL: CXI Attenuator Controls Software	0	193		0.00	CD 10420*, CD 10440
1.6.04.03.12 CXI H5 Pulse Picker Controls						
02 Design / Engineering						
9110782 Design & Engr - CXI H5 Pulse Picker Controls						
CD 10920	Design CXI Pulse Picker Controls	80	127	SL_CE	1,211.50	CD 07750, PM300105*
CD 10925	COMP: Design CXI Pulse Picker Controls	0	127		0.00	CD 10920*
CD 10940	FDR - CXI Pulse Picker Controls	1	127		0.00	CD 10925*, DI 07660
CD 11000	Develop Software CXI Pulse Picker Controls	90	148	SL_CP	0.00	CD 10940*
04 Subcontract						
9110783 Subcontract - CXI H5 Pulse Picker Controls						
CD 10960	Prep Bid Pkg & App - CXI Pulse Picker Cntrl	15	127		0.00	CD 10940*
CD 10961	RELEASE: RFP - CXI Pulse Picker Cntrl	0	127		0.00	CD 10960*
CD 10962	Vendor Proposal Effort - CXI Pulse Picker Cntrl	20	127		0.00	CD 10961*
CD 10963	RCV: Vendor Deliverables-CXI Pulse Picker Cntrl	0	127		0.00	CD 10962*
CD 10964	Eval & Selection Process -CXI Pulse Picker Cntrl	15	127		0.00	CD 10963*
CD 10965	Vendor Selection - CXI Pulse Picker Cntrl	0	127		0.00	CD 10964*
CD 10966	SLAC Approval Process -CXI Pulse Picker Cntrl	5	127		0.00	CD 10965*
CD 10967	DOE Approval Process - CXI Pulse Picker Cntrl	5	127		0.00	CD 10966*
CD 10970	AWARD: CXI Pulse Picker Controls	1	127	AWARD	10,606.79	CD 10960, CD 10967*, PM003030
CD 10980	Vendor Fab - CXI Pulse Picker Controls	30	127	SL_MSEG	10,606.79	CD 10970*

Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
CD 10985	RCV: Receive All CXI Pulse Picker Controls Parts	0	127		0.00	CD 10980*
05 Fab / Assembly						
9110784 Fab & Assembly - CXI H5 Pulse Picker Controls						
CD 11020	Fab/Delvr CXI Pulse Picker Controls	40	127	SL_CT	1,990.20	CD 10985*
06 Testing						
9110785 Testing - CXI H5 Pulse Picker Controls						
CD 11040	Prepare Docs CXI Pulse Picker Controls	20	148	SL_CP	0.00	CD 11000*
CD 11060	AVAIL: CXI Pulse Picker Controls Hardware	0	127		0.00	CD 11020*, CD 11040
CD 11080	AVAIL: CXI Pulse Picker Controls Software	0	127		0.00	CD 11020*, CD 11040
1.6.04.03.13 CXI H5 KB Mirror Controls						
02 Design / Engineering						
9110786 Design & Engr - CXI H5 KB Mirror Controls						
CD 11120	Design CXI KB Mirror Controls	80	204	SL_CE	4,846.00	CD 07750, PM300105*
CD 11125	COMP: Design CXI KB Mirror Controls	0	204		0.00	CD 11120*
CD 11140	FDR - CXI KB Mirror Controls	1	204	SL_CE	1,211.50	CD 11125*
CD 11200	Develop Software CXI KB Mirror Controls	90	225	SL_CP	7,950.60	CD 11140*
04 Subcontract						
9110787 Subcontract - CXI H5 KB Mirror Controls						
CD 11160	Prep Bid Pkg & App - CXI KB Mirror Controls	15	204		0.00	CD 11140*
CD 11161	RELEASE: RFP - CXI KB Mirror Controls	0	204		0.00	CD 11160*
CD 11162	Vendor Proposal Effort - CXI KB Mirror Controls	20	204		0.00	CD 11161*
CD 11163	RCV: Vendor Deliverables-CXI KB Mirror Controls	0	204		0.00	CD 11162*
CD 11164	Eval & Selection Process -CXI KB Mirror Controls	15	204		0.00	CD 11163*
CD 11165	Vendor Selection - CXI KB Mirror Controls	0	204		0.00	CD 11164*
CD 11166	SLAC Approval Process -CXI KB Mirror Controls	5	204		0.00	CD 11165*
CD 11167	DOE Approval Process - CXI KB Mirror Controls	5	204		0.00	CD 11166*
CD 11170	AWARD: CXI KB Mirror Controls	1	204	AWARD	58,935.21	CD 11160, CD 11167*, PM003030
CD 11180	Vendor Fab - CXI KB Mirror Controls	30	204	SL_MSEQ	58,935.21	CD 11160, CD 11170*
CD 11185	RCV: Receive All CXI KB Mirror Controls Parts	0	204		0.00	CD 11180*
05 Fab / Assembly						
9110788 Fab & Assembly - CXI H5 KB Mirror Controls						
CD 11220	Fab/Delvr CXI KB Mirror Controls	40	204	SL_CT	2,653.60	CD 11185*
06 Testing						
9110789 Testing - CXI H5 KB Mirror Controls						
CD 11240	Prepare Docs CXI KB Mirror Controls	20	225	SL_CP	883.40	CD 11200*

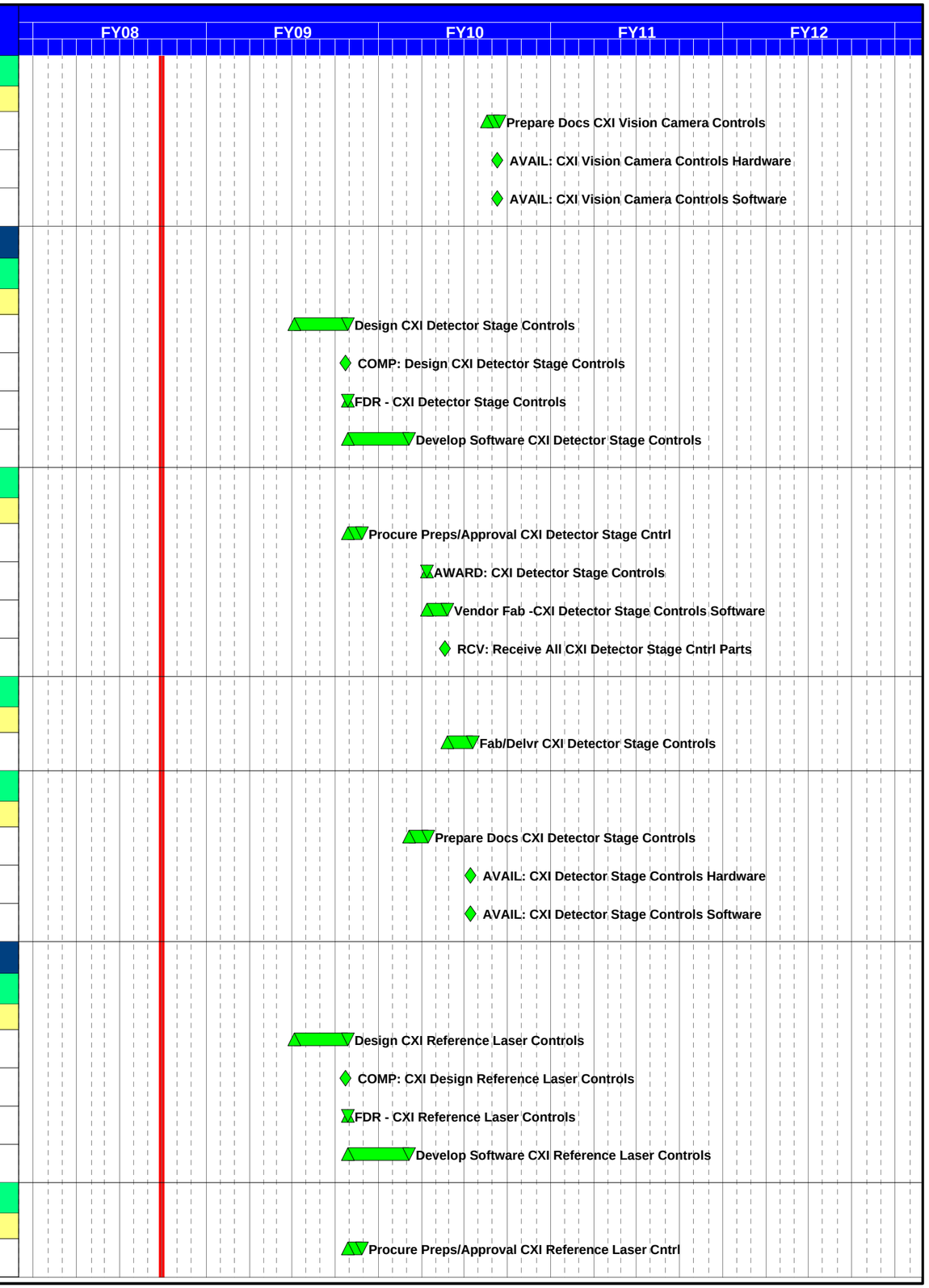


Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
CD 11260	AVAIL: CXI KB Mirror Controls Hardware	0	204		0.00	CD 11220*, CD 11240
CD 11280	AVAIL: CXI KB Mirror Controls Software	0	204		0.00	CD 11220*, CD 11240
1.6.04.03.14 CXI H5 Sample Environment Controls						
02 Design / Engineering						
9110790 Design & Engr - CXI H5 Sample Environ Cntrls						
CD 11320	Design CXI Sample Environment Controls	100	158	SL_CE	4,846.00	CD 07750, PM300105*
CD 11325	COMP: Design CXI Sample Environment Controls	0	158		0.00	CD 11320*
CD 11340	FDR - CXI Sample Environment Controls	1	158	SL_CE	1,211.50	CD 11325*
CD 11400	Develop Software CXI Sample Environment Controls	90	179	SL_CP	8,834.00	CD 11340*
04 Subcontract						
9110791 Subcontract - CXI H5 Sample Environ Cntrls						
CD 11360	Prep Bid Pkg & App - CXI Sample Environment	15	158		0.00	CD 11340*
CD 11361	RELEASE: RFP - CXI Sample Environment	0	158		0.00	CD 11360*
CD 11362	Vendor Proposal Effort - CXI Sample Environment	20	158		0.00	CD 11361*
CD 11363	RCV: Vendor Deliverables-CXI Sample Environment	0	158		0.00	CD 11362*
CD 11364	Eval & Selection Process -CXI Sample Environment	15	158		0.00	CD 11363*
CD 11365	Vendor Selection - CXI Sample Environment	0	158		0.00	CD 11364*
CD 11366	SLAC Approval Process -CXI Sample Environment	5	158		0.00	CD 11365*
CD 11367	DOE Approval Process - CXI Sample Environment	5	158		0.00	CD 11366*
CD 11370	AWARD: CXI Sample Environment Controls	1	158	AWARD	69,507.12	CD 11360, CD 11367*, PM003030
CD 11380	Vendor Fab - CXI Sample Environment Controls	30	158	SL_MSEQ	69,507.12	CD 11360, CD 11370*
CD 11385	RCV: Recv All CXI Sample Environment Cntrl Parts	0	158		0.00	CD 11380*
05 Fab / Assembly						
9110792 Fab & Assembly - CXI H5 Sample Environ Cntrls						
CD 11420	Fab/Delvr CXI Sample Environment Controls	40	158	SL_CT	1,990.20	CD 11385*
06 Testing						
9110793 Testing - CXI H5 Sample Environ Cntrls						
CD 11440	Prepare Docs CXI Sample Environment Controls	20	179	SL_CP	883.40	CD 11400*
CD 11460	AVAIL: CXI Sample Environment Controls Hardware	0	158		0.00	CD 11420*, CD 11440
CD 11480	AVAIL: CXI Sample Environment Controls Software	0	158		0.00	CD 11420*, CD 11440
1.6.04.03.15 CXI H5 Particle Injector Controls						
02 Design / Engineering						
9110794 Design & Engr - CXI H5 Particle Injector Cntrls						
CD 11520	Design CXI Particle Injector Controls	75	190	SL_CE	12,115.00	CD 07780, PM300105*
CD 11525	COMP: Design CXI Particle Injector Controls	0	190		0.00	CD 11520*

Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
CD 11540	FDR - CXI Particle Injector Controls	1	190	SL_CE	2,423.00	CD 11525*
CD 11600	Develop Software CXI Particle Injector Controls	90	211	SL_CP	40,636.40	CD 11540*
04 Subcontract						
9110795 Subcontract - CXI H5 Particle Injector Cntrls						
CD 11560	Prep Bid Pkg & App - CXI Particle Injector	15	190		0.00	CD 11540*
CD 11561	RELEASE: RFP - CXI Particle Injector	0	190		0.00	CD 11560*
CD 11562	Vendor Proposal Effort - CXI Particle Injector	20	190		0.00	CD 11561*
CD 11563	RCV: Vendor Deliverables-CXI Particle Injector	0	190		0.00	CD 11562*
CD 11564	Eval & Selection Process -CXI Particle Injector	15	190		0.00	CD 11563*
CD 11565	Vendor Selection - CXI Particle Injector	0	190		0.00	CD 11564*
CD 11566	SLAC Approval Process -CXI Particle Injector	5	190		0.00	CD 11565*
CD 11567	DOE Approval Process - CXI Particle Injector	5	190		0.00	CD 11566*
CD 11570	AWARD: CXI Particle Injector Controls	1	190	AWARD	108,731.86	CD 11560, CD 11567*, PM003030
CD 11580	Vendor Fab - CXI Particle Injector Controls	30	190	SL_MSEQ	108,731.86	CD 11560, CD 11570*
CD 11585	RCV: Recv All CXI Particle Injector Cntrl Parts	0	190		0.00	CD 11580*
05 Fab / Assembly						
9110796 Fab & Assembly - CXI H5 Particle Injector Cntrls						
CD 11620	Fab/Delvr CXI Particle Injector Controls	40	190	SL_CT	5,407.90	CD 11585*
06 Testing						
9110797 Testing - CXI H5 Particle Injector Cntrls						
CD 11640	Prepare Docs CXI Particle Injector Controls	20	211	SL_CP	1,766.80	CD 11600*
CD 11660	AVAIL: CXI Particle Injector Controls Hardware	0	190		0.00	CD 11620*, CD 11640
CD 11680	AVAIL: CXI Particle Injector Controls Software	0	190		0.00	CD 11620*, CD 11640
1.6.04.03.16 CXI H5 Ion TOF Controls						
02 Design / Engineering						
9110705 Design & Engr - XPP H3 Diffrac/WAD Cntrls						
CD 11920	Design CXI Ion TOF Controls	60	147	SL_CE	5,040.00	CD 07750, PM300110*
CD 11925	COMP: Design CXI Ion TOF Controls	0	147		0.00	CD 11920*
CD 11940	FDR - CXI Ion TOF Controls	1	147	SL_CE	1,260.00	CD 11925*
CD 12000	Develop Software CXI Ion TOF Controls	90	263	SL_CP	12,861.80	CD 11940*
04 Subcontract						
9110799 Subcontract - CXI H5 Ion TOF Cntrls						
CD 11960	Prep Bid Pkg & App - CXI Ion TOF Controls	15	242		0.00	CD 11940*
CD 11961	RELEASE: RFP - CXI Ion TOF Controls	0	242		0.00	CD 11960*

Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
CD 11962	Vendor Proposal Effort - CXI Ion TOF Controls	20	242		0.00	CD 11961*
CD 11963	RCV: Vendor Deliverables-CXI Ion TOF Controls	0	242		0.00	CD 11962*
CD 11964	Eval & Selection Process -CXI Ion TOF Controls	15	242		0.00	CD 11963*
CD 11965	Vendor Selection - CXI Ion TOF Controls	0	242		0.00	CD 11964*
CD 11966	SLAC Approval Process -CXI Ion TOF Controls	5	242		0.00	CD 11965*
CD 11967	DOE Approval Process - CXI Ion TOF Controls	5	242		0.00	CD 11966*
CD 11970	AWARD: CXI Ion TOF Controls	1	242	AWARD	68,236.00	CD 11960, CD 11967*, PM003030
CD 11980	Vendor Fab - CXI Ion TOF Controls	30	242	SL_MSEQ	68,236.00	CD 11960, CD 11970*
CD 11985	RCV: Receive All CXI Ion TOF Controls Parts	0	242		0.00	CD 11980*
05 Fab / Assembly						
9110800 Fab & Assembly - CXI H5 Ion TOF Cntrls						
CD 12020	Fab/Delvr CXI Ion TOF Controls	40	242	SL_CT	3,449.50	CD 11985*
06 Testing						
9110801 Testing - CXI H5 Ion TOF Cntrls						
CD 12040	Prepare Docs CXI Ion TOF Controls	20	263	SL_CP	1,378.05	CD 12000*
CD 12060	AVAIL: CXI Ion TOF Controls Hardware	0	242		0.00	CD 12020*, CD 12040
CD 12080	AVAIL: CXI Ion TOF Controls Software	0	242		0.00	CD 12020*, CD 12040
1.6.04.03.18 CXI H5 Vision Camera Controls						
02 Design / Engineering						
9110802 Design & Engr - CXI H5 Vision Camera Controls						
CD 12320	Design CXI Vision Camera Controls	60	256	SL_CE	1,211.50	CD 07740, PM300105*
CD 12325	COMP: Design CXI Vision Camera Controls	0	256		0.00	CD 12320*
CD 12340	FDR - CXI Vision Camera Controls	1	256	SL_CE	605.75	CD 12325*
CD 12400	Develop Software CXI Vision Camera Controls	90	256	SL_CP	1,766.80	CD 12340*
03 Procurement						
9110803 Procurement - CXI H5 Vision Camera Controls						
CD 12365	Procure Prep/Approval - CXI Vision Camera Cont	20	275		0.00	CD 12340*
CD 12370	AWARD: CXI Vision 120Hz Camera Controls	1	275	AWARD	10,709.25	CD 12365*, PM003030
CD 12380	Vendor Fab - CXI Vision Camera Controls	30	275	SL_MSEG	10,709.25	CD 12370*
CD 12385	RCV: All CXI Vision Camera Controls Parts	0	275		0.00	CD 12380*
05 Fab / Assembly						
9110804 Fab & Assembly - CXI H5 Vision Camera Controls						
CD 12420	Fab/Delvr CXI Vision Camera Controls	40	275	SL_CT	663.40	CD 12385*

Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
06 Testing						
9110805 Testing - CXI H5 Vision Camera Controls						
CD 12440	Prepare Docs CXI Vision Camera Controls	20	256	SL_CP	441.70	CD 12400*
CD 12460	AVAIL: CXI Vision Camera Controls Hardware	0	256		0.00	CD 12420, CD 12440*
CD 12480	AVAIL: CXI Vision Camera Controls Software	0	256		0.00	CD 12420, CD 12440*
1.6.04.03.19 CXI H5 Detector Stage Controls						
02 Design / Engineering						
9110806 Design & Engr - CXI H5 Detector Stage Controls						
CD 12520	Design CXI Detector Stage Controls	80	322	SL_CE	4,659.60	CD 07740, CD 07750*
CD 12522	COMP: Design CXI Detector Stage Controls	0	322		0.00	CD 12520*
CD 12525	FDR - CXI Detector Stage Controls	1	322	SL_CE	1,164.90	CD 12522*
CD 12555	Develop Software CXI Detector Stage Controls	90	322	SL_CP	8,742.20	CD 12525*
03 Procurement						
9110807 Procurement - CXI H5 Detector Stage Controls						
CD 12535	Procure Preps/Approval CXI Detector Stage Cntrl	20	341		0.00	CD 12525*
CD 12540	AWARD: CXI Detector Stage Controls	1	255	AWARD	14,732.44	CD 12535, PM003030*
CD 12545	Vendor Fab -CXI Detector Stage Controls Software	30	255	SL_MSEG	14,732.44	CD 12535, CD 12540*
CD 12550	RCV: Receive All CXI Detector Stage Cntrl Parts	0	255		0.00	CD 12545*
05 Fab / Assembly						
9110808 Fab & Assembly - CXI H5 Detector Stage Controls						
CD 12560	Fab/Delvr CXI Detector Stage Controls	40	255	SL_CT	1,990.20	CD 12550*
06 Testing						
9110809 Testing - CXI H5 Detector Stage Controls						
CD 12565	Prepare Docs CXI Detector Stage Controls	20	322	SL_CP	883.40	CD 12555*
CD 12570	AVAIL: CXI Detector Stage Controls Hardware	0	255		0.00	CD 12560*, CD 12565
CD 12575	AVAIL: CXI Detector Stage Controls Software	0	255		0.00	CD 12560*, CD 12565
1.6.04.03.24 CXI H5 Reference Laser Controls						
02 Design / Engineering						
9110810 Design & Engr - CXI H5 Ref Laser Controls						
CD 12950	Design CXI Reference Laser Controls	80	289	SL_CE	4,659.60	CD 07750*
CD 12952	COMP: CXI Design Reference Laser Controls	0	289		0.00	CD 12950*
CD 12955	FDR - CXI Reference Laser Controls	1	289	SL_CE	1,164.90	CD 12952*
CD 12980	Develop Software CXI Reference Laser Controls	90	289	SL_CP	5,245.32	CD 12955*
03 Procurement						
9110811 Procurement - CXI H5 Ref Laser Controls						
CD 12965	Procure Preps/Approval CXI Reference Laser Cntrl	20	308		0.00	CD 12955*

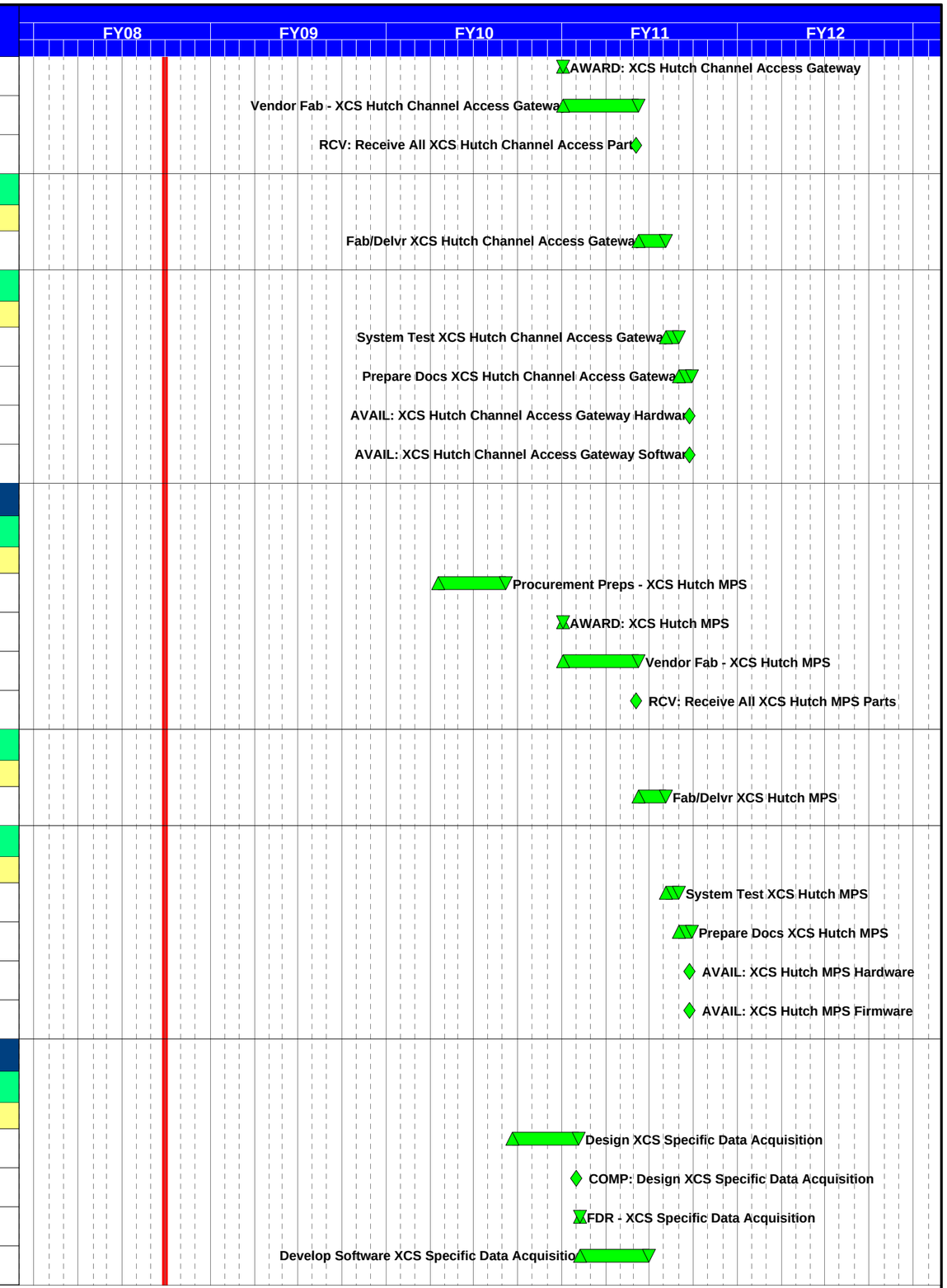


Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
CD 12967	AWARD: CXI Reference Laser Controls	1	222	AWARD	26,640.69	CD 12965, PM003030*
CD 12970	Vendor Fab - CXI Reference Laser Controls	30	222	SL_MSEG	26,640.69	CD 12965, CD 12967*
CD 12975	RCV: Receive All CXI Reference Laser Cntrl Parts	0	222		0.00	CD 12970*
05 Fab / Assembly						
9110812 Fab & Assembly - CXI H5 Ref Laser Controls						
CD 12985	Fab/Delvr CXI Reference Laser Controls	40	222	SL_CT	1,326.80	CD 12975*
06 Testing						
9110813 Testing - CXI H5 Ref Laser Controls						
CD 12990	Prepare Docs CXI Reference Laser Controls	20	289	SL_CP	883.40	CD 12980*
CD 12995	AVAIL: CXI Reference Laser Controls Hardware	0	222		0.00	CD 12985*, CD 12990
CD 13000	AVAIL: CXI Reference Laser Controls Software	0	222		0.00	CD 12985*, CD 12990
1.6.04.03.26 CXI H5 Controls System Integration Test						
02 Design / Engineering						
9110810 Design & Engr - CXI H5 Ref Laser Controls						
CD 13400	Design CXI Controls System Integration	60	326	SL_CE	7,269.00	CD 07740, PM300105*
CD 13405	COMP: Design CXI Controls System Integration	0	326		0.00	CD 13400*
CD 13410	FDR - CXI Controls System Integration	1	326	SL_CE	2,423.00	CD 13405*
06 Testing						
9110813 Testing - CXI H5 Ref Laser Controls						
CD 13430	Perform CXI Controls System Integration Test	20	326	SL_CP	26,502.00	CD 13410*
CD 13440	Prepare Docs CXI Controls Syst Integration Test	20	326	SL_CP	1,766.80	CD 13430*
CD 13450	AVAIL: CXI Controls System Integration Test Comp	0	326		0.00	CD 13440*
1.6.05.01.01 XCS H4 Controls Requirements and Design						
02 Design / Engineering						
9110816 XCS H4 Controls Requirements & Design Support						
CD 13580	Prepare XCS Requirements	10	285	SL_CE	1,747.35	PM300100*, XCS1411000
CD 13600	Prepare XCS - Controls ICD	10	285	SL_CE	1,747.35	CD 13580*
CD 13620	Prepare Final Device List for XCS	5	285	SL_CE	1,747.35	CD 13600*
CD 13640	Preliminary Design for XCS	5	285	SL_CE	8,736.75	CD 13620*
CD 13660	PDR - XCS Controls Requirements Design	1	179	SL_CE	2,329.80	CD 13640, DI 01560, DI 02300, DI 06060, DI 06640, DI 06980, DI 07540, DI 07920*,
CD 13700	Post PDR Design Effort - XCS Req'mts & Design	10	179	SL_CE	582.45	CD 13660*
CD 13710	PDR - Prelim Design Review - XCS Phase 2	1	179	SL_CE	2,329.80	CD 13700*
CD 13720	Post PDR Design Effort Phase 2 - XCS Req'mts	60	179	SL_CE	2,389.29	CD 13710*
CD 13820	Post PDR Design Effort Phase 3 - XCS	150	179		0.00	CD 13720*

Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
1.6.05.01.02 XCS H4 Development Test Setup						
03 Procurement						
9110818 Procurement - XCS H4 Development Test Setup						
CD 13740	Procure Prep/Approval - Development Test Setup	100	268		0.00	CD 13660, CD 13820*, PM300105
CD 13741	AWARD: XCS Specific Hardware & Software	1	268	AWARD	28,000.00	CD 13740*, PM003060, PM300110
CD 13742	Vendor Fab - XCS Specific Hardware & Software	100	268	SL_MSEG	28,000.00	CD 13741*
CD 13745	RCV: Receive All Parts	0	268		0.00	CD 13742*
05 Fab / Assembly						
9110819 Fab/Assembly - XCS H4 Dev Test Setup						
CD 13760	Fab/Delvr XCS Specific Hardware & Software	20	268	SL_CT	2,069.70	CD 13745*
CD 13780	Develop Software for XCS Test Setup	20	268	SL_CP	7,349.60	CD 13760*
CD 13800	COMP: XCS Test Setup	0	268		0.00	CD 13780*
1.6.05.02.01 XCS H4 Cables & Racks						
02 Design / Engineering						
9110820 Design & Engr - XCS H4 Cables & Racks						
CD 15200	Prepare Parts List for XCS Hutch Cables & Racks	10	217	SL_CE	9,692.00	CD 07860, CD 13580, CD 13660, PM300105*
CD 15220	Prepare Layout for XCS Hutch Cables & Racks	15	217	SL_CE	12,115.00	CD 15200*
04 Subcontract						
9110821 Subcontract - XCS H4 Cables & Racks						
CD 15225	Prep Bid Pkg & App - XCS Hutch Cables & Racks	30	217		0.00	CD 07885, CD 15220*, PM300105
CD 15226	RELEASE: RFP - XCS Hutch Cables & Racks	0	217		0.00	CD 15225*
CD 15227	Vendor Proposal Effort - XCS Hutch Cables & Rack	30	217		0.00	CD 15226*
CD 15228	RCV: Vendor Deliverables-XCS Hutch Cables & Rac	0	217		0.00	CD 15227*
CD 15229	Eval & Selection Process -XCS Hutch Cables & Rac	15	217		0.00	CD 15228*
CD 15230	Vendor Selection - XCS Hutch Cables & Racks	0	217		0.00	CD 15229*
CD 15231	SLAC Approval Process -XCS Hutch Cables & Racks	5	217		0.00	CD 15230*
CD 15232	DOE Approval Process - XCS Hutch Cables & Racks	5	217		0.00	CD 15231*
CD 15235	AWARD: XCS Hutch Cables & Racks	1	200	AWARD	307,325.50	CD 15225, CD 15232, PM003060*, PM300105
CD 15240	Vendor Fab - XCS Hutch Cables & Racks	60	200	SL_MSEQ	307,325.50	CD 15235*
CD 15245	RCV: Receive All XCS Hutch Cables & Racks Parts	0	200		0.00	CD 15240*
05 Fab / Assembly						
9110822 Fab & Assembly - XCS H4 Cables & Racks						
CD 15260	Fab/Delvr XCS Hutch Cables & Racks	60	200	SL_CT	19,902.00	CD 15245*
CD 15280	Prepare Docs XCS Hutch Cables & Racks	20	200	SL_CP	7,349.60	CD 15260*
CD 15300	AVAIL: XCS Hutch Cables & Racks	0	200		0.00	CD 15280*

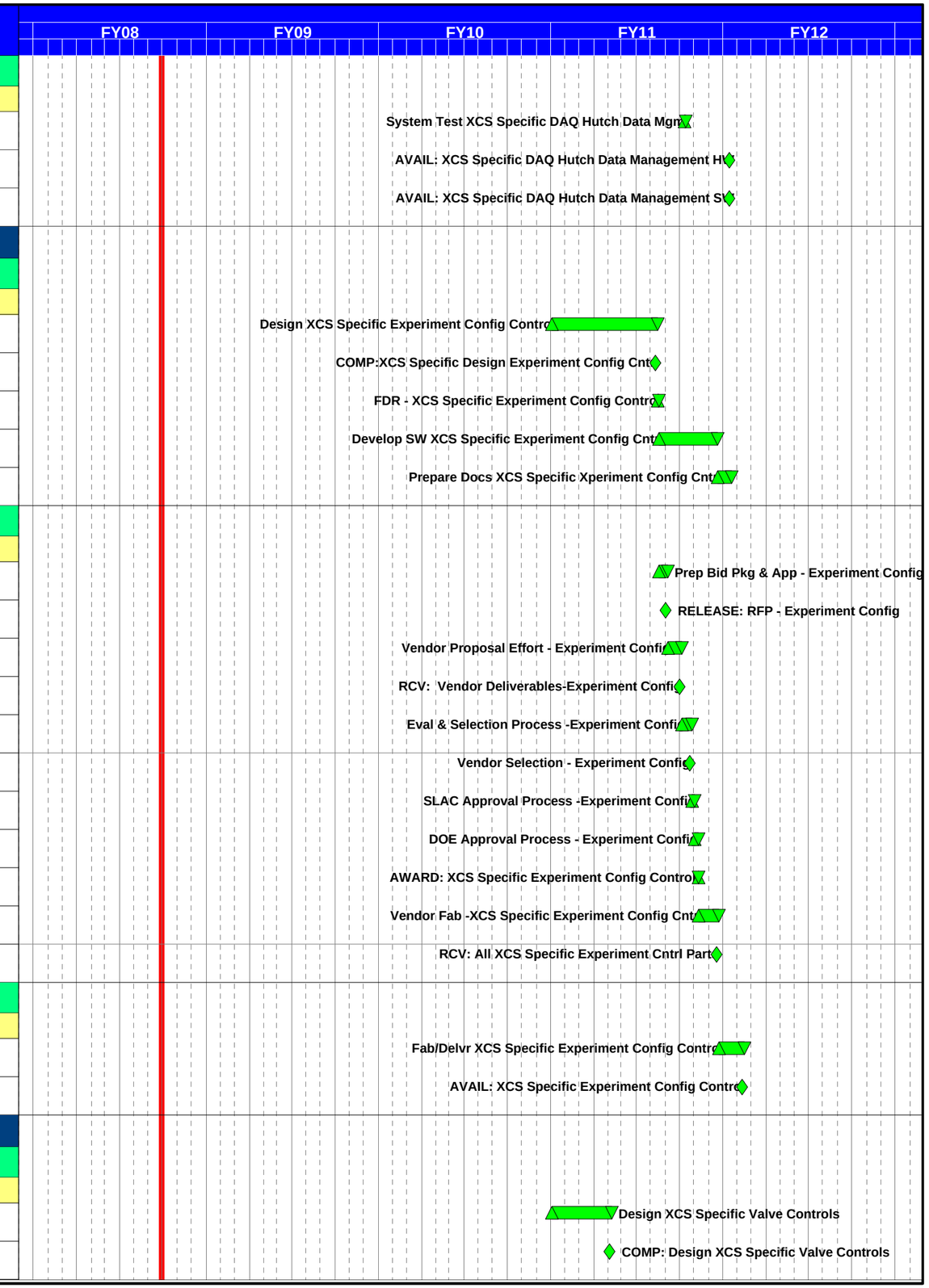
Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
1.6.05.02.02 XCS H4 Workstation						
03 Procurement						
9110824 Procurement - XCS H4 Workstation						
CD 15340	Procurement Preps - XCS Hutch Workstation	100	337		0.00	CD 08000, CD 13720, PM300105*
CD 15341	AWARD: XCS Hutch Workstation	1	253	AWARD	9,184.00	CD 15340, PM003060, PM300110*
CD 15342	Vendor Fab - XCS Hutch Workstation	100	253	SL_MSEG	9,184.00	CD 15341*
CD 15345	RCV: Receive All XCS Hutch Workstation Parts	0	253		0.00	CD 15342*
05 Fab / Assembly						
9110825 Fab & Assembly - XCS H4 Workstation						
CD 15360	Fab/Delvr XCS Hutch Workstation	40	253	SL_CT	3,449.50	CD 15345*
06 Testing						
9110826 Testing - XCS H4 Workstation						
CD 15380	System Test XCS Hutch Workstation	20	253	SL_CP	1,837.40	CD 15360*
CD 15400	Prepare Docs XCS Hutch Workstation	20	253	SL_CP	459.35	CD 15380*
CD 15420	AVAIL: XCS Hutch Workstation Hardware	0	253		0.00	CD 15400*
CD 15440	AVAIL: XCS Hutch Workstation Software	0	253		0.00	CD 15400*
1.6.05.02.03 XCS H4 Beam Line Processor						
03 Procurement						
9110827 Procurement - XCS H4 Beam Line Processor						
CD 15480	Procurement Preps - XCS Hutch Beam Line	100	337		0.00	CD 08140, PM300105*
CD 15481	AWARD: XCS Hutch Beam Line Processor	1	253	AWARD	22,288.00	CD 15480, PM003060, PM300110*
CD 15482	Vendor Fab - XCS Hutch Beam Line Processor	100	253	SL_MSEG	22,288.00	CD 15481*
CD 15485	RCV: Receive All XCS Hutch Beam Line Proce Parts	0	253		0.00	CD 15482*
05 Fab / Assembly						
9110828 Fab & Assembly - XCS H4 Beam Line Processor						
CD 15500	Fab/Delvr XCS Hutch Beam Line Processor	40	253	SL_CP	1,837.40	CD 15485*
06 Testing						
9110829 Testing - XCS H4 Beam Line Processor						
CD 15520	System Test XCS Hutch Beam Line Processor	20	253	SL_CP	459.35	CD 15500*
CD 15540	Prepare Docs XCS Hutch Beam Line Processor	20	253	SL_CP	918.70	CD 15520*
CD 15560	AVAIL: XCS Hutch Beam Line Processor Hardware	0	253		0.00	CD 15540*
CD 15580	AVAIL: XCS Hutch Beam Line Processor Software	0	253		0.00	CD 15540*
1.6.05.02.04 XCS H4 Channel Access Gateway						
03 Procurement						
9110830 Procurement - XCS H4 Channel Access Gateway						
CD 15620	Procurement Preps - XCS Hutch Channel Access	100	337		0.00	CD 08280, CD 13720, PM300105*

Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
CD 15621	AWARD: XCS Hutch Channel Access Gateway	1	253	AWARD	11,648.00	CD 15620, PM003060, PM300110*
CD 15622	Vendor Fab - XCS Hutch Channel Access Gateway	100	253	SL_MSEG	11,648.00	CD 15620, CD 15621*
CD 15625	RCV: Receive All XCS Hutch Channel Access Parts	0	253		0.00	CD 15622*
05 Fab / Assembly						
9110831 Fab & Assembly - XCS H4 Channel Access Gateway						
CD 15640	Fab/Delvr XCS Hutch Channel Access Gateway	40	253	SL_CP	1,837.40	CD 15625*
06 Testing						
9110832 Testing - XCS H4 Channel Access Gateway						
CD 15660	System Test XCS Hutch Channel Access Gateway	20	253	SL_CP	1,837.40	CD 15640*
CD 15680	Prepare Docs XCS Hutch Channel Access Gateway	20	253	SL_CP	459.35	CD 15660*
CD 15700	AVAIL: XCS Hutch Channel Access Gateway Hardware	0	253		0.00	CD 15680*
CD 15720	AVAIL: XCS Hutch Channel Access Gateway Software	0	253		0.00	CD 15680*
1.6.05.02.05 XCS H4 MPS						
03 Procurement						
9110833 Procurement - XCS H4 MPS						
CD 15760	Procurement Preps - XCS Hutch MPS	100	337		0.00	CD 08400, CD 13720, PM300105*
CD 15761	AWARD: XCS Hutch MPS	1	253	AWARD	14,896.00	CD 15760, PM003060, PM300110*
CD 15762	Vendor Fab - XCS Hutch MPS	100	253	SL_MSEG	14,896.00	CD 15761*
CD 15765	RCV: Receive All XCS Hutch MPS Parts	0	253		0.00	CD 15762*
05 Fab / Assembly						
9110834 Fab & Assembly - XCS H4 MPS						
CD 15780	Fab/Delvr XCS Hutch MPS	40	253	SL_CT	1,379.80	CD 15765*
06 Testing						
9110835 Testing - XCS H4 MPS						
CD 15800	System Test XCS Hutch MPS	20	253	SL_CP	1,837.40	CD 15780*
CD 15820	Prepare Docs XCS Hutch MPS	20	253	SL_CP	459.35	CD 15800*
CD 15840	AVAIL: XCS Hutch MPS Hardware	0	253		0.00	CD 15800, CD 15820*
CD 15860	AVAIL: XCS Hutch MPS Firmware	0	253		0.00	CD 15800, CD 15820*
1.6.05.03.01 XCS H4 Data Acquisition (DAQ)						
02 Design / Engineering						
9110836 Design & Engr - XCS H4 Data Acquisition						
CD 15880	Design XCS Specific Data Acquisition	100	276	SL_CE	9,860.39	CD 13820*
CD 15885	COMP: Design XCS Specific Data Acquisition	0	276		0.00	CD 15880*
CD 15900	FDR - XCS Specific Data Acquisition	1	276	SL_CE	5,040.00	CD 15885*
CD 15960	Develop Software XCS Specific Data Acquisition	90	298	SL_CE	65,520.00	CD 15900*

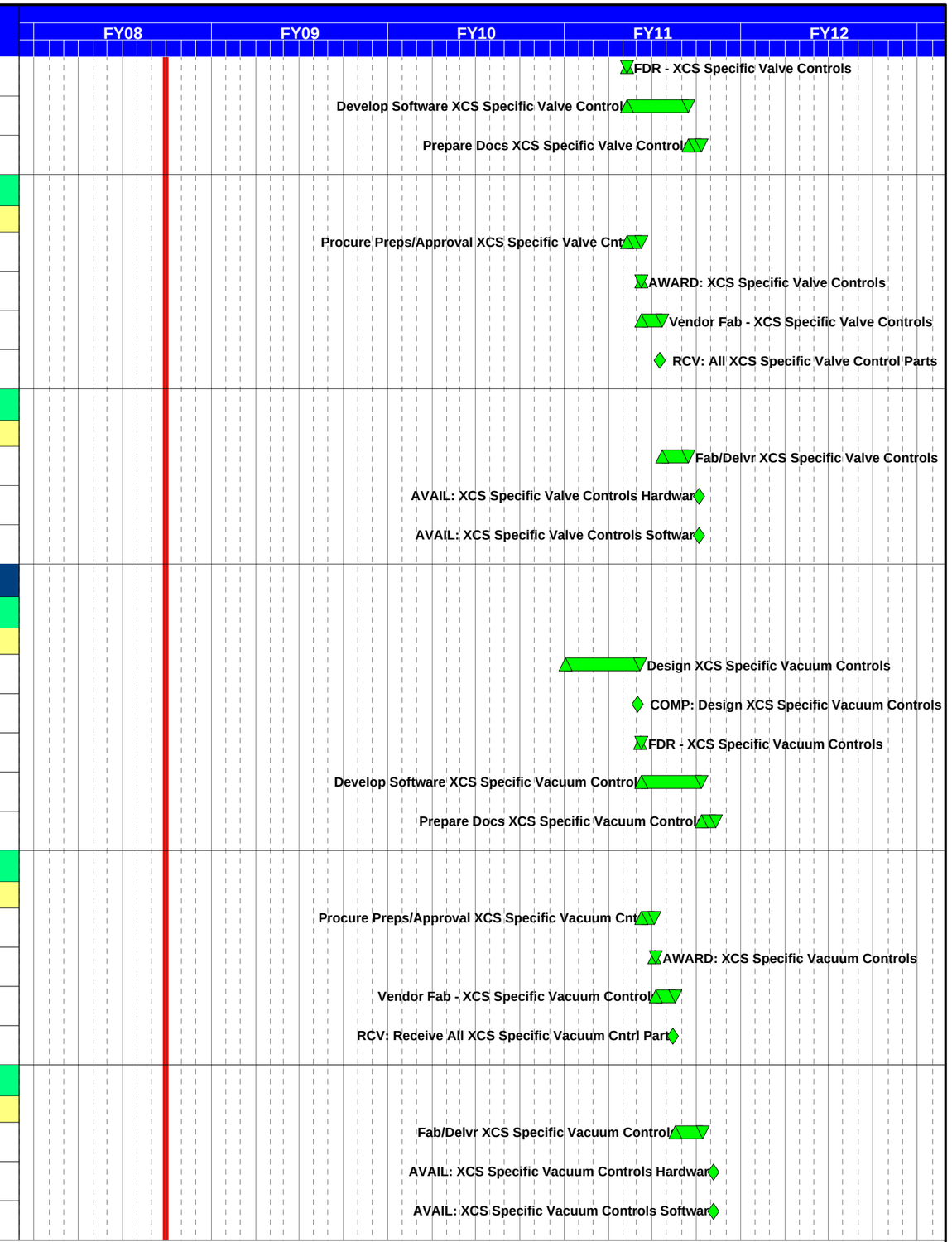


Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
CD 16020	Prepare Docs XCS Specific Data Acquisition	20	298	SL_CP	1,837.40	CD 15960*
04 Subcontract						
9110837 Subcontract - XCS H4 Data Acquisition						
CD 15920	Prep Bid Pkg & App - XCS Specific Data Acq	15	276		0.00	CD 15900*, PM300105
CD 15921	RELEASE: RFP - XCS Specific Data Acq	0	276		0.00	CD 15920*
CD 15922	Vendor Proposal Effort - XCS Specific Data Acq	20	276		0.00	CD 15921*
CD 15923	RCV: Vendor Deliverables-XCS Specific Data Acq	0	276		0.00	CD 15922*
CD 15924	Eval & Selection Process -XCS Specific Data Acq	15	276		0.00	CD 15923*
CD 15925	Vendor Selection - XCS Specific Data Acq	0	276		0.00	CD 15924*
CD 15926	SLAC Approval Process -XCS Specific Data Acq	5	276		0.00	CD 15925*
CD 15927	DOE Approval Process - XCS Specific Data Acq	5	276		0.00	CD 15926*
CD 15930	AWARD: XCS Specific Data Acquisition (DAQ)	1	276	AWARD	67,112.64	CD 15920, CD 15927*, PM003060, PM300110
CD 15940	Vendor Fab - XCS Specific Data Acquisition	30	276	SL_MSEQ	67,112.64	CD 15930*
CD 15945	RCV: Receive All XCS Specific Data Acq Parts	0	276		0.00	CD 15940*
05 Fab / Assembly						
9110838 Fab & Assembly - XCS H4 Data Acquisition						
CD 15980	Fab/Delvr XCS Specific Data Acquisition	40	276	SL_CT	11,038.40	CD 15945*
06 Testing						
9110839 Testing - XCS H4 Data Acquisition						
CD 16000	System Test XCS Specific Data Acquisition	1	276	SL_CP	1,837.40	CD 15980*
CD 16040	AVAIL: XCS Specific Data Acquisition Hardware	0	276		0.00	CD 16000*, CD 16020
CD 16060	AVAIL: XCS Specific Data Acquisition Software	0	276		0.00	CD 16000*, CD 16020
1.6.05.03.02 XCS H4 DAQ Hutch Data Management						
02 Design / Engineering						
9110840 Design & Engr - XCS H4 DAQ Hutch Data Mgmt						
CD 16080	Design XCS Specific DAQ Hutch Data Management	150	173	SL_CE	10,080.00	CD 13720, PM300110*
CD 16085	COMP: Design XCS Specific DAQ Hutch Data Mgmt	0	173		0.00	CD 16080*
CD 16100	FDR - XCS Specific DAQ Hutch Data Management	1	173	SL_CE	2,520.00	CD 16085*
CD 16160	Develop SW XCS Specific DAQ Hutch Data Mgmt	90	173	SL_CP	7,349.60	CD 16100*
CD 16220	Prepare Docs XCS Specific DAQ Hutch Data Mgmt	20	173	SL_CP	3,800.31	CD 16160*
05 Fab / Assembly						
9110841 Fab & Assembly - XCS H4 DAQ Hutch Data Mgmt						
CD 16180	Fab/Delvr XCS Specific DAQ Hutch Data Management	40	242	SL_CT	5,519.20	CD 16100*, PM300105

Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
06 Testing						
9110842 Testing - XCS H4 DAQ Hutch Data Mgmt						
CD 16200	System Test XCS Specific DAQ Hutch Data Mgmt	1	242	SL_CP	9,187.00	CD 16180*
CD 16240	AVAIL: XCS Specific DAQ Hutch Data Management HW	0	173		0.00	CD 16200, CD 16220*
CD 16260	AVAIL: XCS Specific DAQ Hutch Data Management SW	0	173		0.00	CD 16200, CD 16220*
1.6.05.03.03 XCS H4 Experiment Configuration Control						
02 Design / Engineering						
9110843 Design & Engr - XCS H4 Experiment Config Cntrl						
CD 16300	Design XCS Specific Experiment Config Control	150	152	SL_CE	5,040.00	CD 13700, PM300110*
CD 16305	COMP:XCS Specific Design Experiment Config Cntrl	0	152		0.00	CD 16300*
CD 16320	FDR - XCS Specific Experiment Config Control	1	152	SL_CE	1,260.00	CD 16305*
CD 16380	Develop SW XCS Specific Experiment Config Cntrl	90	173	SL_CP	20,211.40	CD 16320*
CD 16420	Prepare Docs XCS Specific Xperiment Config Cntrl	20	173	SL_CP	1,900.16	CD 16380*
04 Subcontract						
9110844 Subcontract - XCS H4 Experiment Config Cntrl						
CD 16340	Prep Bid Pkg & App - Experiment Config	15	152		0.00	CD 16320*, PM300105
CD 16341	RELEASE: RFP - Experiment Config	0	152		0.00	CD 16340*
CD 16342	Vendor Proposal Effort - Experiment Config	20	152		0.00	CD 16341*
CD 16343	RCV: Vendor Deliverables-Experiment Config	0	152		0.00	CD 16342*
CD 16344	Eval & Selection Process -Experiment Config	15	152		0.00	CD 16343*
CD 16345	Vendor Selection - Experiment Config	0	152		0.00	CD 16344*
CD 16346	SLAC Approval Process -Experiment Config	5	152		0.00	CD 16345*
CD 16347	DOE Approval Process - Experiment Config	5	152		0.00	CD 16346*
CD 16350	AWARD: XCS Specific Experiment Config Controls	1	152	AWARD	103,423.04	CD 16340, CD 16347*, PM003060, PM300110
CD 16360	Vendor Fab -XCS Specific Experiment Config Cntrl	30	152	SL_MSEQ	103,423.04	CD 16350*
CD 16365	RCV: All XCS Specific Experiment Cntrl Parts	0	152		0.00	CD 16360*
05 Fab / Assembly						
9110845 Fab & Assembly - XCS H4 Experiment Config Cntrl						
CD 16400	Fab/Delvr XCS Specific Experiment Config Control	40	152	SL_CT	1,426.72	CD 16365*
CD 16440	AVAIL: XCS Specific Experiment Config Control	0	152		0.00	CD 16400*, CD 16420
1.6.05.03.04 XCS H4 Valve Controls						
02 Design / Engineering						
9110847 Design & Engr - XCS H4 Valve Controls						
CD 14040	Design XCS Specific Valve Controls	80	243	SL_CE	630.00	CD 13700, PM300110*
CD 14045	COMP: Design XCS Specific Valve Controls	0	243		0.00	CD 14040*

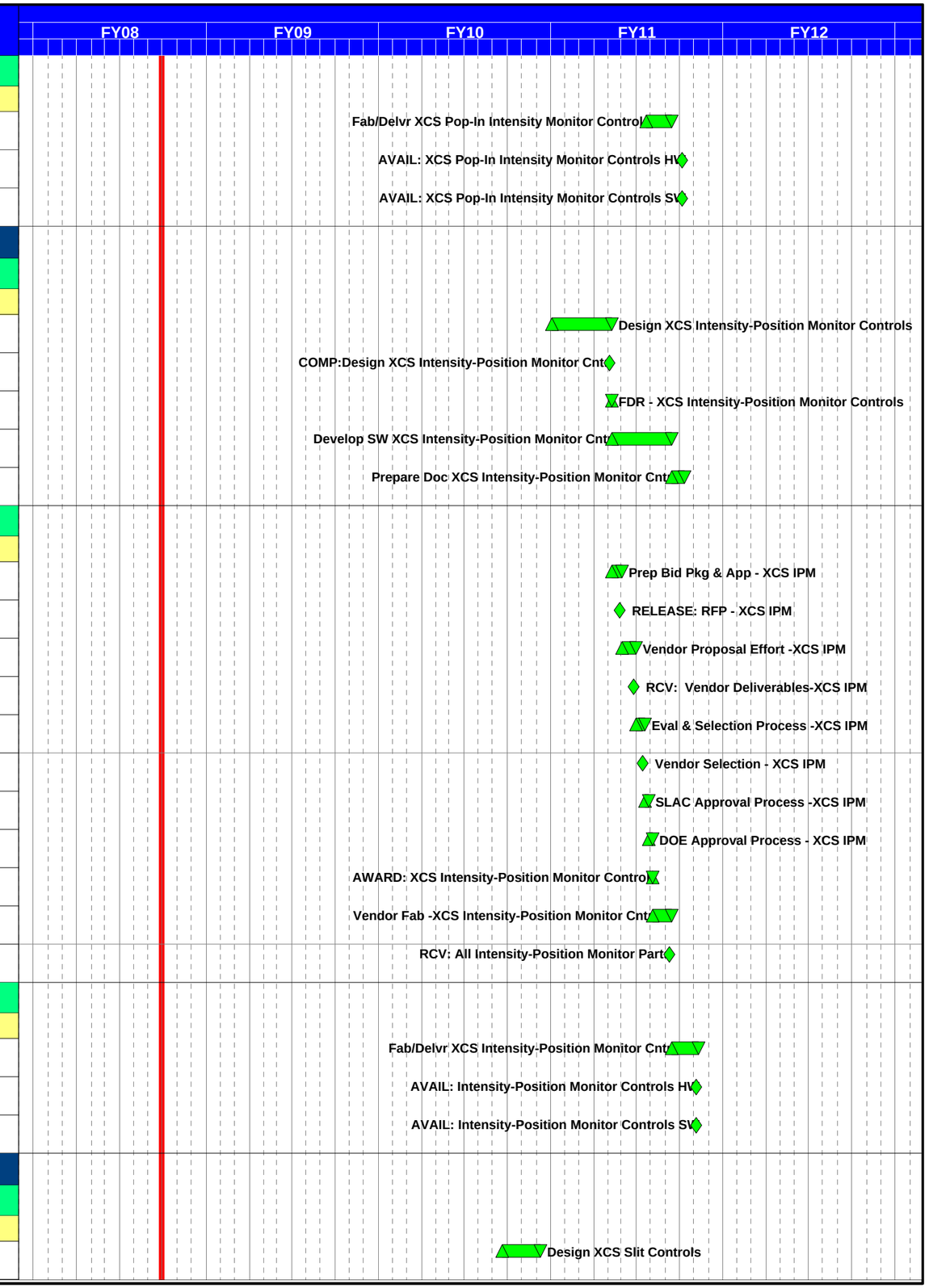


Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
CD 14060	FDR - XCS Specific Valve Controls	1	243		0.00	CD 14045*
CD 14120	Develop Software XCS Specific Valve Controls	90	243	SL_CP	1,837.40	CD 14060*
CD 14160	Prepare Docs XCS Specific Valve Controls	20	243	SL_CP	459.35	CD 14120*
03 Procurement						
9110848 Procurement - XCS H4 Valve Controls						
CD 14085	Procure Preps/Approval XCS Specific Valve Cntrl	20	262		0.00	CD 14060*, PM300105
CD 14090	AWARD: XCS Specific Valve Controls	1	262	AWARD	7,190.40	CD 14085*, PM003060, PM300110
CD 14100	Vendor Fab - XCS Specific Valve Controls	30	262	SL_MSEG	7,190.40	CD 14090*
CD 14105	RCV: All XCS Specific Valve Control Parts	0	262		0.00	CD 14100*
05 Fab / Assembly						
9110849 Fab & Assembly - XCS H4 Valve Controls						
CD 14140	Fab/Delvr XCS Specific Valve Controls	40	262	SL_CT	689.90	CD 14105*
CD 14180	AVAIL: XCS Specific Valve Controls Hardware	0	243		0.00	CD 14140, CD 14160*
CD 14200	AVAIL: XCS Specific Valve Controls Software	0	243		0.00	CD 14140, CD 14160*
1.6.05.03.05 XCS H4 Vacuum Controls						
02 Design / Engineering						
9110851 Design & Engr - XCS H4 Vacuum Controls						
CD 16680	Design XCS Specific Vacuum Controls	100	223	SL_CE	630.00	CD 13700, PM300110*
CD 16685	COMP: Design XCS Specific Vacuum Controls	0	223		0.00	CD 16680*
CD 16700	FDR - XCS Specific Vacuum Controls	1	223		0.00	CD 16685*
CD 16760	Develop Software XCS Specific Vacuum Controls	90	223	SL_CP	3,674.80	CD 16700*
CD 16800	Prepare Docs XCS Specific Vacuum Controls	20	223	SL_CP	918.70	CD 16760*
03 Procurement						
9110852 Procurement - XCS H4 Vacuum Controls						
CD 16725	Procure Preps/Approval XCS Specific Vacuum Cntrl	20	242		0.00	CD 16700*, PM300105
CD 16730	AWARD: XCS Specific Vacuum Controls	1	242	AWARD	52,572.80	CD 16725*, PM003060, PM300110
CD 16740	Vendor Fab - XCS Specific Vacuum Controls	30	242	SL_MSEQ	52,572.80	CD 16730*
CD 16745	RCV: Receive All XCS Specific Vacuum Cntrl Parts	0	242		0.00	CD 16740*
05 Fab / Assembly						
9110853 Fab & Assembly - XCS H4 Vacuum Controls						
CD 16780	Fab/Delvr XCS Specific Vacuum Controls	40	242	SL_CT	2,759.60	CD 16745*
CD 16820	AVAIL: XCS Specific Vacuum Controls Hardware	0	223		0.00	CD 16780, CD 16800*
CD 16840	AVAIL: XCS Specific Vacuum Controls Software	0	223		0.00	CD 16780, CD 16800*

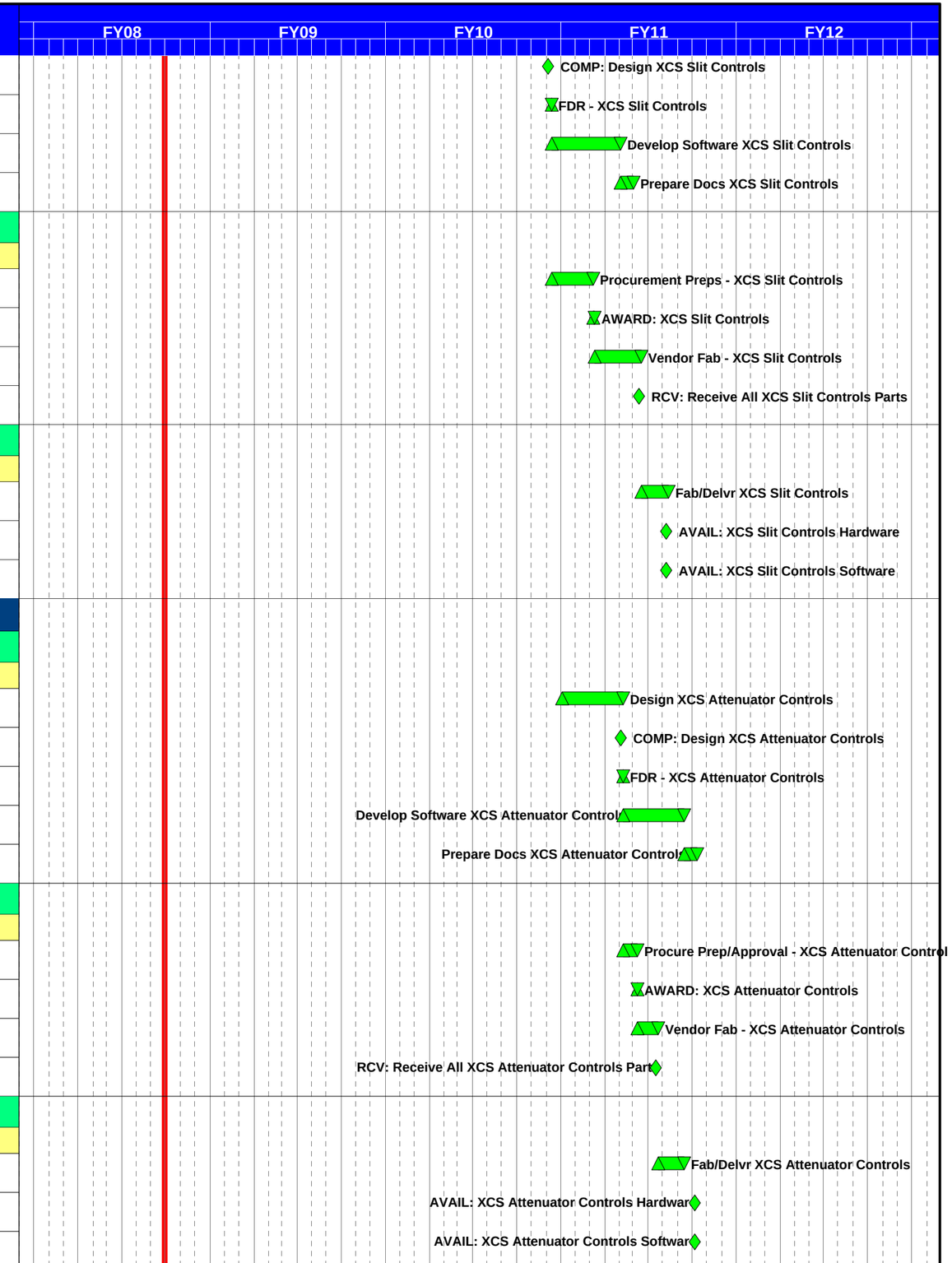


Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
1.6.05.03.06 XCS H4 Pop-In Profile Monitor Controls						
02 Design / Engineering						
9110855 Design & Engr - XCS H4 Pop-In Profile Mon Cntrls						
CD 14400	Design XCS Pop-In Profile Monitor Controls	80	98	SL_CE	630.00	CD 13700, PM300110*
CD 14405	COMP: Design XCS Pop-In Profile Monitor Controls	0	98		0.00	CD 14400*
CD 14420	FDR - XCS Pop-In Profile Monitor Control	1	98		0.00	CD 14405*, DI 01620
CD 14480	Develop SW XCS Pop-In Profile Monitor Cntrl	90	98	SL_CP	1,837.40	CD 14420*
CD 14520	Prepare Docs XCS Pop-In Profile Monitor Controls	20	98	SL_CP	459.35	CD 14480*
03 Procurement						
9110856 Procurement - XCS H4 Pop-In Profile Mon Cntrls						
CD 14445	Procure Prep/Approval XCS Pop-In Profile Monitor	20	117		0.00	CD 14420*, PM300105
CD 14450	AWARD: XCS Pop-In Profile Monitor Controls	1	117	AWARD	17,436.16	CD 14445*, PM003060, PM300110
CD 14460	Vendor Fab - XCS Pop-In Profile Monitor Controls	30	117	SL_MSEG	17,436.16	CD 14450*
CD 14465	RCV: All XCS Pop-In Profile Monitor Parts	0	117		0.00	CD 14460*
05 Fab / Assembly						
9110857 Fab & Assembly - XCS H4 Pop-In Profile Mon Cntrl						
CD 14500	Fab/Delvr XCS Pop-In Profile Monitor Controls	40	117	SL_CT	2,069.70	CD 14465*
CD 14540	AVAIL: XCS Pop-In Profile Monitor Controls HW	0	98		0.00	CD 14500, CD 14520*
CD 14560	AVAIL: XCS Pop-In Profile Monitor Controls SW	0	98		0.00	CD 14500, CD 14520*
1.6.05.03.07 XCS H4 Pop-In Intensity Monitor Controls						
02 Design / Engineering						
9110859 Design & Engr - XCS H4 Pop-In Intensity Mon Cntr						
CD 17280	Design XCS Pop-In Intensity Monitor Controls	80	118	SL_CE	630.00	CD 13700, PM300110*
CD 17285	COMP: Design XCS Pop-In Intensity Monitor Cntrl	0	118		0.00	CD 17280*
CD 17300	FDR - XCS Pop-In Intensity Monitor Controls	1	118		0.00	CD 17285*, DI 02360
CD 17360	Develop SW XCS Pop-In Intensity Monitor Cntrl	90	118	SL_CP	1,837.40	CD 17300*
CD 17400	Prepare Docs XCS Pop-In Intensity Monitor Cntrl	20	118	SL_CP	918.70	CD 17360*
03 Procurement						
PRO_PP Procurement Planning Package						
CD 17325	Procure Prep/Approval XCS Pop-In Intensity Monit	20	137		0.00	CD 17300*, PM300105
CD 17330	AWARD: XCS Pop-In Intensity Monitor Controls	1	137	AWARD	34,344.80	CD 17325*, PM003060, PM300110
CD 17340	Vendor Fab - XCS Pop-In Intensity Monitor Cntrls	30	137	SL_MSEQ	34,344.80	CD 17330*
CD 17345	RCV: Recv All XCS Pop-In Intensity Monitor Parts	0	137		0.00	CD 17340*

Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
05 Fab / Assembly						
9110861 Fab & Assembly - XCS H4 Pop-In Intensity Mon Cnt						
CD 17380	Fab/Delvr XCS Pop-In Intensity Monitor Controls	40	137	SL_CT	1,379.80	CD 17345*
CD 17420	AVAIL: XCS Pop-In Intensity Monitor Controls HW	0	118		0.00	CD 17380, CD 17400*
CD 17440	AVAIL: XCS Pop-In Intensity Monitor Controls SW	0	118		0.00	CD 17380, CD 17400*
1.6.05.03.08 XCS H4 Intensity-Position Monitor Controls						
02 Design / Engineering						
9110863 Design & Engr - XCS H4 Intensity-Pos Mon Cntrls						
CD 14220	Design XCS Intensity-Position Monitor Controls	80	97	SL_CE	630.00	CD 13700, PM300110*
CD 14225	COMP:Design XCS Intensity-Position Monitor Cntrl	0	97		0.00	CD 14220*
CD 14240	FDR - XCS Intensity-Position Monitor Controls	1	97		0.00	CD 14225*, DI 03100
CD 14300	Develop SW XCS Intensity-Position Monitor Cntrl	90	118	SL_CP	1,837.40	CD 14240*
CD 14340	Prepare Doc XCS Intensity-Position Monitor Cntrl	20	118	SL_CP	918.70	CD 14300*
04 Subcontract						
9110864 Subcontract - XCS H4 Intensity-Pos Mon Cntrls						
CD 14260	Prep Bid Pkg & App - XCS IPM	15	97		0.00	CD 14240*, PM300105
CD 14261	RELEASE: RFP - XCS IPM	0	97		0.00	CD 14260*
CD 14262	Vendor Proposal Effort -XCS IPM	20	97		0.00	CD 14261*
CD 14263	RCV: Vendor Deliverables-XCS IPM	0	97		0.00	CD 14262*
CD 14264	Eval & Selection Process -XCS IPM	15	97		0.00	CD 14263*
CD 14265	Vendor Selection - XCS IPM	0	97		0.00	CD 14264*
CD 14266	SLAC Approval Process -XCS IPM	5	97		0.00	CD 14265*
CD 14267	DOE Approval Process - XCS IPM	5	97		0.00	CD 14266*
CD 14270	AWARD: XCS Intensity-Position Monitor Controls	1	97	AWARD	36,077.44	CD 14260, CD 14267*, PM003060, PM300110
CD 14280	Vendor Fab -XCS Intensity-Position Monitor Cntrl	30	97	SL_MSEQ	36,077.44	CD 14270*
CD 14285	RCV: All Intensity-Position Monitor Parts	0	97		0.00	CD 14280*
05 Fab / Assembly						
9110865 Fab & Assembly - XCS H4 Intensity-Pos Mon Cntrls						
CD 14320	Fab/Delvr XCS Intensity-Position Monitor Cntrl	40	97	SL_CT	1,379.80	CD 14285*
CD 14360	AVAIL: Intensity-Position Monitor Controls HW	0	97		0.00	CD 14320*, CD 14340
CD 14380	AVAIL: Intensity-Position Monitor Controls SW	0	97		0.00	CD 14320*, CD 14340
1.6.05.03.09 XCS H4 Slit Controls						
02 Design / Engineering						
9110867 Design & Engr - XCS H4 Slit Controls						
CD 16880	Design XCS Slit Controls	60	179	SL_CE	605.75	CD 13820*



Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
CD 16885	COMP: Design XCS Slit Controls	0	179		0.00	CD 16880*
CD 16900	FDR - XCS Slit Controls	1	179		0.00	CD 16885*, DI 06760
CD 16960	Develop Software XCS Slit Controls	90	230	SL_CP	1,835.05	CD 16900*
CD 17000	Prepare Docs XCS Slit Controls	20	230	SL_CP	918.70	CD 16960*
03 Procurement						
9110868 Procurement - XCS H4 Slit Controls						
CD 16925	Procurement Preps - XCS Slit Controls	60	179		0.00	CD 16900*, PM300105
CD 16930	AWARD: XCS Slit Controls	1	179	AWARD	29,775.20	CD 16925*, PM003060, PM300110
CD 16940	Vendor Fab - XCS Slit Controls	60	179	SL_MSEG	29,775.20	CD 16930*
CD 16945	RCV: Receive All XCS Slit Controls Parts	0	179		0.00	CD 16940*
05 Fab / Assembly						
9110869 Fab & Assembly - XCS H4 Slit Controls						
CD 16980	Fab/Delvr XCS Slit Controls	40	179	SL_CT	1,379.80	CD 16945*
CD 17020	AVAIL: XCS Slit Controls Hardware	0	179		0.00	CD 16980*, CD 17000
CD 17040	AVAIL: XCS Slit Controls Software	0	179		0.00	CD 16980*, CD 17000
1.6.05.03.10 XCS H4 Attenuator Controls						
02 Design / Engineering						
9110871 Design & Engr - XCS H4 Attenuator Controls						
CD 17680	Design XCS Attenuator Controls	80	120	SL_CE	2,520.00	CD 13700, PM300110*
CD 17685	COMP: Design XCS Attenuator Controls	0	120		0.00	CD 17680*
CD 17700	FDR - XCS Attenuator Controls	1	120	SL_CE	630.00	CD 17685*, DI 07070
CD 17760	Develop Software XCS Attenuator Controls	90	120	SL_CP	2,756.10	CD 17700*
CD 17800	Prepare Docs XCS Attenuator Controls	20	120	SL_CP	459.35	CD 17760*
03 Procurement						
9110872 Procurement - XCS H4 Attenuator Controls						
CD 17725	Procure Prep/Approval - XCS Attenuator Control	20	139		0.00	CD 17700*, PM300105
CD 17730	AWARD: XCS Attenuator Controls	1	139	AWARD	11,177.60	CD 17725*, PM003060, PM300110
CD 17740	Vendor Fab - XCS Attenuator Controls	30	139	SL_MSEG	11,177.60	CD 17730*
CD 17745	RCV: Receive All XCS Attenuator Controls Parts	0	139		0.00	CD 17740*
05 Fab / Assembly						
9110873 Fab & Assembly - XCS H4 Attenuator Controls						
CD 17780	Fab/Delvr XCS Attenuator Controls	40	139	SL_CT	689.90	CD 17745*
CD 17820	AVAIL: XCS Attenuator Controls Hardware	0	120		0.00	CD 17780, CD 17800*
CD 17840	AVAIL: XCS Attenuator Controls Software	0	120		0.00	CD 17780, CD 17800*

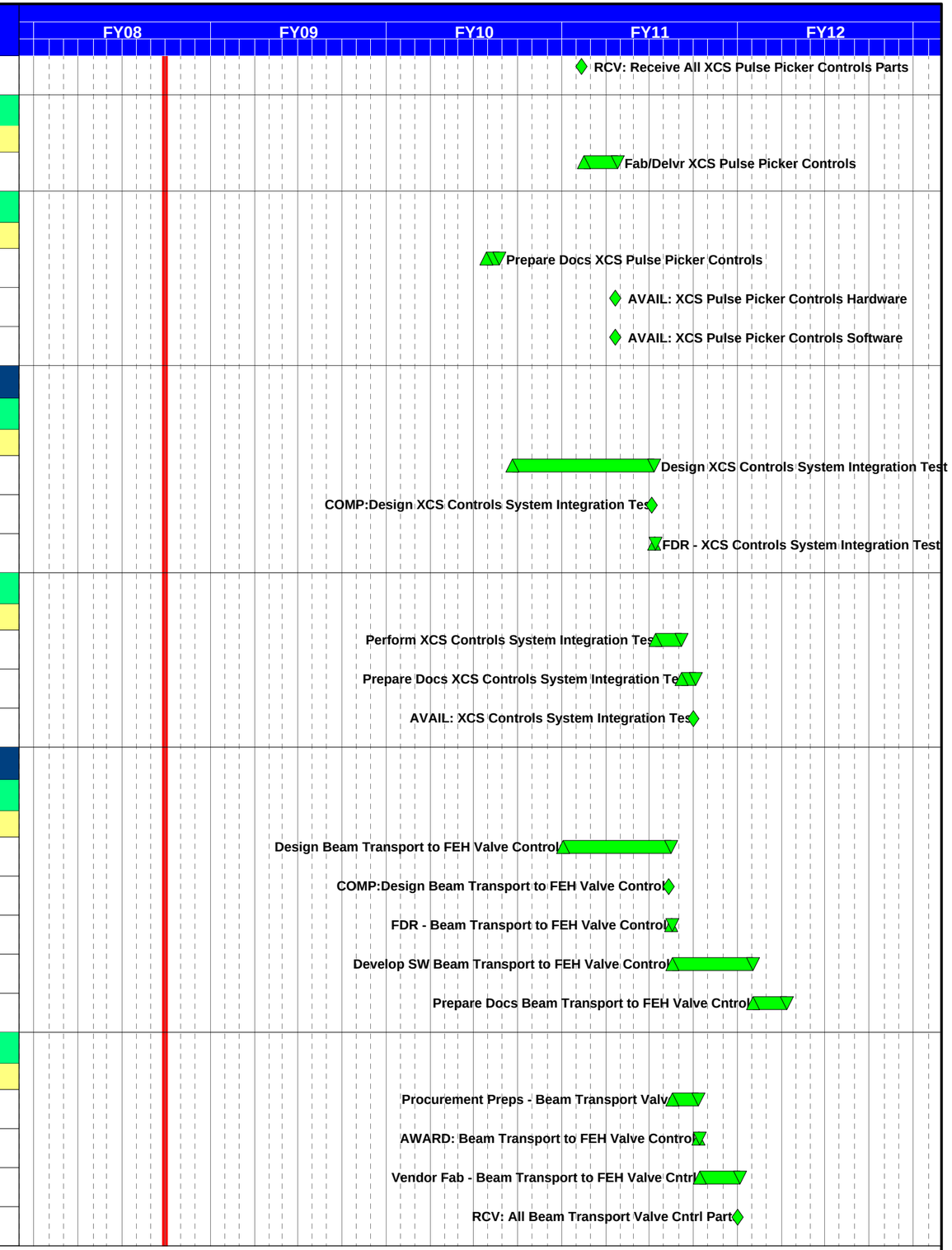


Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
1.6.05.03.11 XCS H4 Harmonic Rejection Mirrors Controls						
02 Design / Engineering						
9110875 Design & Engr - XCS H4 HRM Controls						
CD 18642	Design XCS Harmonic Rejection Mirrors Controls	100	100	SL_CE	10,080.00	CD 13700, PM300110*
CD 18643	COMP:Design XCS Harmonic Rejection Mirrors Cntrl	0	100		0.00	CD 18642*
CD 18644	FDR - XCS Harmonic Rejection Mirrors Controls	1	100	SL_CE	2,520.00	CD 18643*, DI 07990
CD 18654	Develop SW XCS Harmonic Rejection Mirrors Cntrl	90	100	SL_CP	20,211.40	CD 18644*
CD 18659	Prepare Docs XCS Harmonic Rejection Mirror Cntrl	20	100	SL_CP	3,674.80	CD 18654*
03 Procurement						
9110876 Procurement - XCS H4 HRM Controls						
CD 18648	Procure Prep/Approve XCS Harmonic Rejection Mirr	20	119		0.00	CD 18644*, PM300105
CD 18649	AWARD: XCS Harmonic Rejection Mirrors Controls	1	119	AWARD	22,338.40	CD 18648*, PM003060, PM300110
CD 18650	Vendor Fab - XCS Harmonic Rejection Mirrors Cntl	30	119	SL_MSEG	22,338.40	CD 18649*
CD 18652	RCV: All XCS Harmonic Rejection Mirror Parts	0	119		0.00	CD 18650*
05 Fab / Assembly						
9110877 Fab & Assembly - XCS H4 HRM Controls						
CD 18656	Fab/Delvr XCS Harmonic Rejection Mirrors Cntrl	40	119	SL_CT	2,759.60	CD 18652*
CD 18661	AVAIL: XCS Harmonic Rejection Mirrors Cntrls HW	0	100		0.00	CD 18656, CD 18659*
CD 18663	AVAIL: XCS Harmonic Rejection Mirrors Cntrls SW	0	100		0.00	CD 18656, CD 18659*
1.6.05.03.12 XCS H4 2D Detector Motion Camera Controls						
02 Design / Engineering						
9110879 Design & Engr - XCS H4 2D Det Motion Cam Cntrls						
CD 17880	Design XCS 2D Camera Controls BNL	120	163	SL_CE	2,520.00	CD 13820, PM300110*
CD 17885	COMP: Design XCS 2D Camera Controls BNL	0	163		0.00	CD 17880*
CD 17900	FDR - XCS 2D Camera Controls BNL	1	163	SL_CE	630.00	CD 17885*
CD 17960	Develop Software XCS 2D Camera Controls BNL	90	163	SL_CP	5,512.20	CD 17900*
CD 18000	Prepare Docs XCS 2D Camera Controls BNL	20	163	SL_CP	918.70	CD 17960*
03 Procurement						
9110880 Procurement - XCS H4 2D Det Motion Cam Cntrls						
CD 17925	Procure Prep/Approval XCS 2D Camera Controls BNL	20	182		0.00	CD 17900*, PM300105
CD 17930	AWARD: XCS 2D 120Hz Camera Controls BNL	1	182	AWARD	5,126.24	CD 17925*, PM003060, PM300110
CD 17940	Vendor Fab - XCS 2D Camera Controls BNL	30	182	SL_MSEQ	5,126.24	CD 17930*
CD 17945	RCV: XCS 2D Camera Controls BNL All Parts	0	182		0.00	CD 17940*

Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
05 Fab / Assembly						
9110881 Fab & Assembly - XCS H4 2D Det Motion Cam Cntrls						
CD 17980	Fab/Delvr XCS 2D Camera Controls BNL	40	182	SL_CT	1,379.80	CD 17945*
CD 18020	AVAIL: XCS 2D Camera Controls BNL Hardware	0	163		0.00	CD 17980, CD 18000*
CD 18040	AVAIL: XCS 2D Camera Controls BNL Software	0	163		0.00	CD 17980, CD 18000*
1.6.05.03.13 XCS H4 Diffractometer Controls						
02 Design / Engineering						
9110883 Design & Engr - XCS H4 Diffractometer Cntrls						
CD 18080	Design XCS Diffractometer Controls	100	202	SL_CE	10,080.00	CD 13700, PM300110*
CD 18085	COMP: Design XCS Diffractometer Controls	0	202		0.00	CD 18080*
CD 18100	FDR - XCS Diffractometer Controls	1	202	SL_CE	2,520.00	CD 18085*
CD 18160	Develop Software XCS Diffractometer Controls	90	223	SL_CP	23,886.20	CD 18100*
CD 18200	Prepare Docs XCS Diffractometer Controls	20	223	SL_CP	1,837.40	CD 18160*
04 Subcontract						
9110884 Subcontract - XCS H4 Diffractometer Cntrls						
CD 18120	Prep Bid Pkg & App - XCS Diffractometer Cntrl	15	202		0.00	CD 18100*, PM300105
CD 18121	RELEASE: RFP - XCS Diffractometer Cntrl	0	202		0.00	CD 18120*
CD 18122	Vendor Proposal Effort -XCS Diffractometer Cntrl	20	202		0.00	CD 18121*
CD 18123	RCV: Vendor Deliverables-XCS Diffractometer Cnt	0	202		0.00	CD 18122*
CD 18124	Eval & Selection Process -XCS Diffractometer Cnt	15	202		0.00	CD 18123*
CD 18125	Vendor Selection - XCS Diffractometer Cntrl	0	202		0.00	CD 18124*
CD 18126	SLAC Approval Process -XCS Diffractometer Cntrl	5	202		0.00	CD 18125*
CD 18127	DOE Approval Process -XCS Diffractometer Cntrl	5	202		0.00	CD 18126*
CD 18130	AWARD: XCS Diffractometer Controls	1	202	AWARD	61,162.08	CD 18120, CD 18127*, PM003060, PM300110
CD 18140	Vendor Fab - XCS Diffractometer Controls	30	202	SL_MSEQ	61,162.08	CD 18130*
CD 18145	RCV: All XCS Diffractometer Control Parts	0	202		0.00	CD 18140*
05 Fab / Assembly						
9110885 Fab & Assembly - XCS H4 Diffractometer Cntrls						
CD 18180	Fab/Delvr XCS Diffractometer Controls	40	202	SL_CT	4,139.40	CD 18145*
CD 18220	AVAIL: XCS Diffractometer Controls Hardware	0	202		0.00	CD 18180*, CD 18200
CD 18240	AVAIL: XCS Diffractometer Controls Software	0	202		0.00	CD 18180*, CD 18200
1.6.05.03.14 XCS H4 Large Angle Detector Stage Controls						
02 Design / Engineering						
9110887 Design & Engr - XCS H4 LA Det Stage Cntrls						
CD 18280	Design XCS Large Angle Detector Stage Controls	120	163	SL_CE	2,520.00	CD 13820, PM300110*

Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
CD 18285	COMP:Design XCS Large Angle Detector Stage Cntrl	0	163		0.00	CD 18280*
CD 18300	FDR - XCS Large Angle Detector Stage Cntrls	1	163	SL_CE	630.00	CD 18285*
CD 18360	Develop SW XCS Large Angle Detector Stage Cntrl	90	163	SL_CP	11,024.40	CD 18300*
CD 18400	Prepare Docs XCS Large Angle Detectr Stage Cntrl	20	163	SL_CP	918.70	CD 18360*
03 Procurement						
9110888 Procurement - XCS H4 LA Det Stage Cntrls						
CD 18325	Procure Preps/Approval XCS Large Angle Detector	20	182		0.00	CD 18300*, PM300105
CD 18330	AWARD: XCS Large Angle Detector Stage Cntrl	1	182	AWARD	27,373.92	CD 18325*, PM003060, PM300110
CD 18340	Vendor Fab -XCS Large Angle Detector Stage Cntrl	30	182	SL_MSEQ	27,373.92	CD 18330*
CD 18345	RCV: Receive All XCS Large Angle Detector Parts	0	182		0.00	CD 18340*
05 Fab / Assembly						
9110889 Fab & Assembly - XCS H4 LA Det Stage Cntrls						
CD 18380	Fab/Delvr XCS Large Angle Detector Stage Cntrl	40	182	SL_CT	2,069.70	CD 18345*
CD 18420	AVAIL: XCS Large Angle Detector Stage Cntrls HW	0	163		0.00	CD 18380, CD 18400*
CD 18440	AVAIL: XCS Large Angle Detector Stage Cntrls SW	0	163		0.00	CD 18380, CD 18400*
1.6.05.03.15 XCS H5 Pulse Picker Controls						
02 Design / Engineering						
ENG_PP Engineering Planning Package						
CD 21000	Design XCS Pulse Picker Controls	80	492	SL_CE	0.00	CD 13710*
CD 21010	COMP: Design XCS Pulse Picker Controls	0	492		0.00	CD 21000*
CD 21020	FDR - XCS Pulse Picker Controls	1	492		0.00	CD 21010*
CD 21030	Develop Software XCS Pulse Picker Controls	90	513	SL_CP	0.00	CD 21020*
04 Subcontract						
SUB_PP Subcon Planning Package						
CD 21040	Prep Bid Pkg & App - XCS Pulse Picker Cntrl	15	492		0.00	CD 21020*
CD 21050	RELEASE: RFP - XCS Pulse Picker Cntrl	0	492		0.00	CD 21040*
CD 21060	Vendor Proposal Effort - XCS Pulse Picker Cntrl	20	492		0.00	CD 21050*
CD 21070	RCV: Vendor Deliverables-XCS Pulse Picker Cntrl	0	492		0.00	CD 21060*
CD 21080	Eval & Selection Process -XCS Pulse Picker Cntrl	15	492		0.00	CD 21070*
CD 21090	Vendor Selection - XCS Pulse Picker Cntrl	0	492		0.00	CD 21080*
CD 21100	SLAC Approval Process -XCS Pulse Picker Cntrl	5	492		0.00	CD 21090*
CD 21110	DOE Approval Process - XCS Pulse Picker Cntrl	5	492		0.00	CD 21100*
CD 21120	AWARD: XCS Pulse Picker Controls	1	348	AWARD	12,501.44	CD 21040, CD 21110, PM003060, PM300110*
CD 21130	Vendor Fab - XCS Pulse Picker Controls	30	348	SL_MSEG	12,501.44	CD 21120*

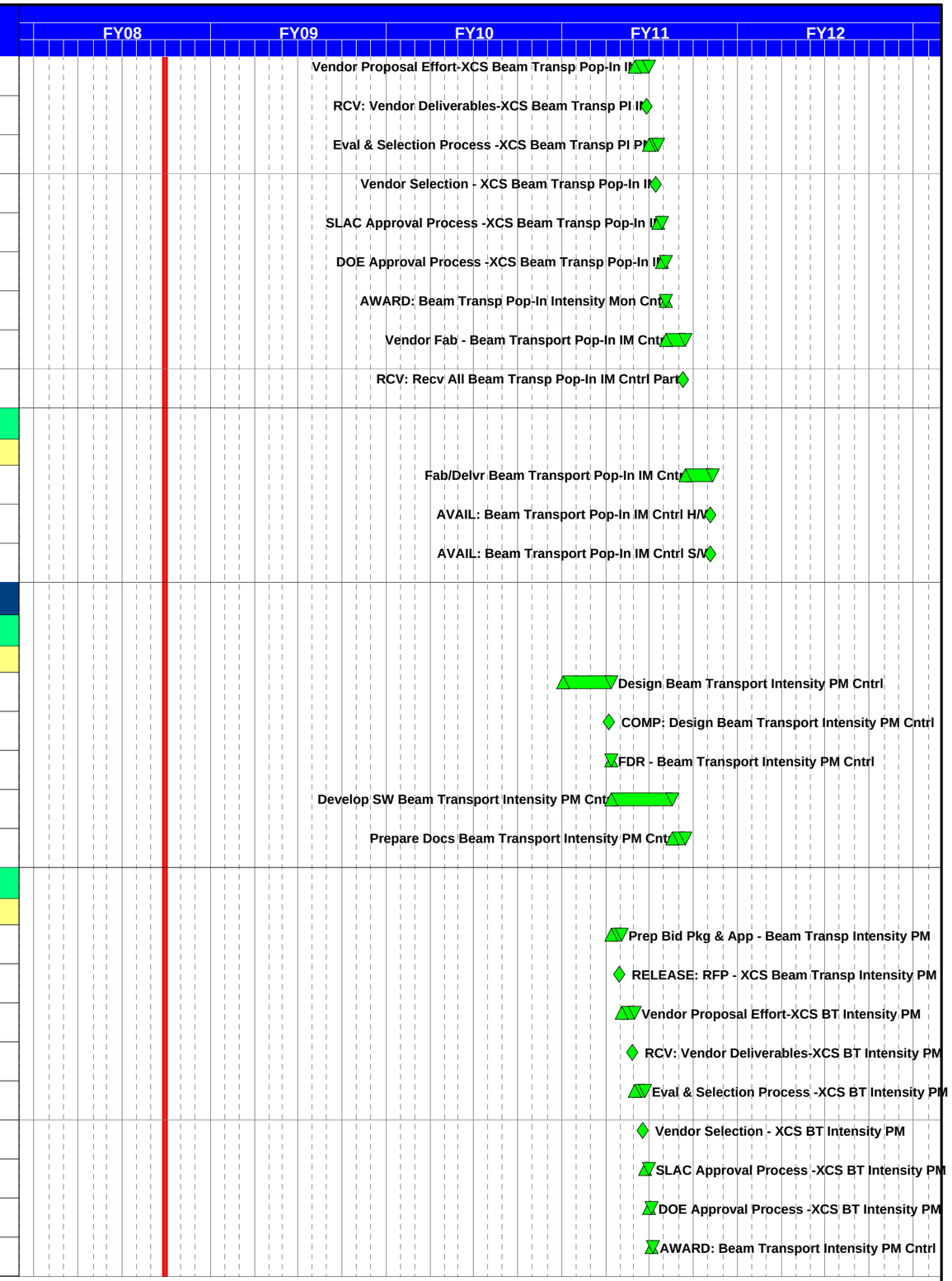
Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
CD 21140	RCV: Receive All XCS Pulse Picker Controls Parts	0	348		0.00	CD 21130*
05 Fab / Assembly						
FAB_PP Fab & Assy Planning Package						
CD 21150	Fab/Delvr XCS Pulse Picker Controls	40	348	SL_CT	2,069.70	CD 21140*
06 Testing						
TST_PP Testing Planning Package						
CD 21160	Prepare Docs XCS Pulse Picker Controls	20	513	SL_CP	0.00	CD 21030*
CD 21170	AVAIL: XCS Pulse Picker Controls Hardware	0	348		0.00	CD 21150*, CD 21160
CD 21180	AVAIL: XCS Pulse Picker Controls Software	0	348		0.00	CD 21150*, CD 21160
1.6.05.03.16 XCS H4 Controls System Integration Test						
02 Design / Engineering						
9110891 Design & Engr - XCS H4 Cntrls Sys Integ						
CD 18665	Design XCS Controls System Integration Test	200	248	SL_CE	7,513.73	CD 13700, CD 13820*
CD 18667	COMP:Design XCS Controls System Integration Test	0	248		0.00	CD 18665*
CD 18670	FDR - XCS Controls System Integration Test	1	248	SL_CE	2,520.00	CD 18667*
06 Testing						
9110892 Testing - XCS H4 Cntrls Sys Integ						
CD 18680	Perform XCS Controls System Integration Test	40	248	SL_CP	24,804.90	CD 18670*
CD 18685	Prepare Docs XCS Controls System Integration Tes	20	248	SL_CP	1,837.40	CD 18680*
CD 18690	AVAIL: XCS Controls System Integration Test	0	248		0.00	CD 18685*
1.6.05.04.01 XCS BT to FEH Valve Controls						
02 Design / Engineering						
9110897 Design & Engr - XCS BT to FEH Valve Controls						
CD 19085	Design Beam Transport to FEH Valve Controls	150	123	SL_CE	630.00	CD 13700, CD 13820, PM300110*
CD 19087	COMP:Design Beam Transport to FEH Valve Controls	0	123		0.00	CD 19085*
CD 19090	FDR - Beam Transport to FEH Valve Controls	1	123		0.00	CD 19087*
CD 19120	Develop SW Beam Transport to FEH Valve Controls	120	123	SL_CP	1,862.05	CD 19090*
CD 19130	Prepare Docs Beam Transport to FEH Valve Cntrols	40	123	SL_CP	955.40	CD 19120*
03 Procurement						
9110898 Procurement - XCS BT to FEH Valve Controls						
CD 19100	Procurement Preps - Beam Transport Valve	40	142		0.00	CD 19090*, PM300105
CD 19105	AWARD: Beam Transport to FEH Valve Controls	1	142	AWARD	11,207.84	CD 19100*, PM003060, PM300110
CD 19110	Vendor Fab - Beam Transport to FEH Valve Cntrls	60	142	SL_MSEG	11,407.98	CD 19105*
CD 19115	RCV: All Beam Transport Valve Cntrl Parts	0	142		0.00	CD 19110*



Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
05 Fab / Assembly						
9110899 Fab & Assembly - XCS BT to FEH Valve Controls						
CD 19125	Fab/Delvr Beam Transport to FEH Valve Controls	40	142	SL_CT	2,152.50	CD 19115*
CD 19135	AVAIL: Beam Transport to FEH Valve Controls HW	0	123		0.00	CD 19125, CD 19130*
CD 19140	AVAIL: Beam Transport to FEH Valve Controls SW	0	123		0.00	CD 19125, CD 19130*
1.6.05.04.02 XCS BT to FEH Vacuum Controls						
02 Design / Engineering						
9110900 Design & Engr - XCS BT to FEH Vacuum Controls						
CD 19145	Design Beam Transport to FEH Vacuum Controls	120	152	SL_CE	630.00	CD 13700, CD 13820, PM300110*
CD 19147	COMP: Design Beam Transport to FEH Vacuum Cntrl	0	152		0.00	CD 19145*
CD 19150	FDR - Beam Transport to FEH Vacuum Controls	1	152	SL_CE	0.00	CD 19147*
CD 19180	Develop SW Beam Transport to FEH Vacuum Controls	120	153	SL_CP	3,674.80	CD 19150*
CD 19190	Prepare Docs Beam Transport to FEH Vacuum Cntrl	40	153	SL_CP	953.84	CD 19180*
04 Subcontract						
9110901 Subcontract - XCS Bt to FEH Vacuum Cntrols						
CD 19155	Prep Bid Pkg & App - Beam Transport Vacuum	15	152		0.00	CD 19150*, PM300105
CD 19156	RELEASE: RFP - XCS Beam Transport Vacuum	0	152		0.00	CD 19155*
CD 19157	Vendor Proposal Effort-XCS Beam Transport Vacuum	20	152		0.00	CD 19156*
CD 19158	RCV: Vendor Deliverables-XCS Beam Transp Vacuum	0	152		0.00	CD 19157*
CD 19159	Eval & Selection Process -XCS Beam Transport Vac	15	152		0.00	CD 19158*
CD 19160	Vendor Selection - XCS Beam Transport Vacuum	0	152		0.00	CD 19159*
CD 19161	SLAC Approval Process -XCS Beam Transport Vacuum	5	152		0.00	CD 19160*
CD 19162	DOE Approval Process -XCS Beam Transport Vacuum	5	152		0.00	CD 19161*
CD 19165	AWARD: Beam Transport to FEH Vacuum Controls	1	152	AWARD	92,534.40	CD 19155, CD 19162*, PM003060, PM300110
CD 19170	Vendor Fab - Beam Transport to FEH Vacuum Cntrls	60	152	SL_MSEQ	92,534.40	CD 19165*
CD 19175	RCV: Recv All Beam Transport to FEH Vacuum Parts	0	152		0.00	CD 19170*
05 Fab / Assembly						
9110902 Fab & Assembly - XCS BT to FEH Vacuum Controls						
CD 19185	Fab/Delvr Beam Transport to FEH Vacuum Controls	40	152	SL_CT	2,853.44	CD 19175*
CD 19195	AVAIL: Beam Transport to FEH Vacuum Controls HW	0	152		0.00	CD 19185*, CD 19190
CD 19200	AVAIL: Beam Transport to FEH Vacuum Controls SW	0	152		0.00	CD 19185*, CD 19190
1.6.05.04.03 XCS BT to FEH Pop-In Profile Monitor Controls						
02 Design / Engineering						
9110903 Design & Engr - XCS BT to FEH Pop-In PM Cntrls						
CD 19205	Design Beam Transport Pop-In PM Cntrl	80	261	SL_CE	605.75	CD 13700, PM300105*

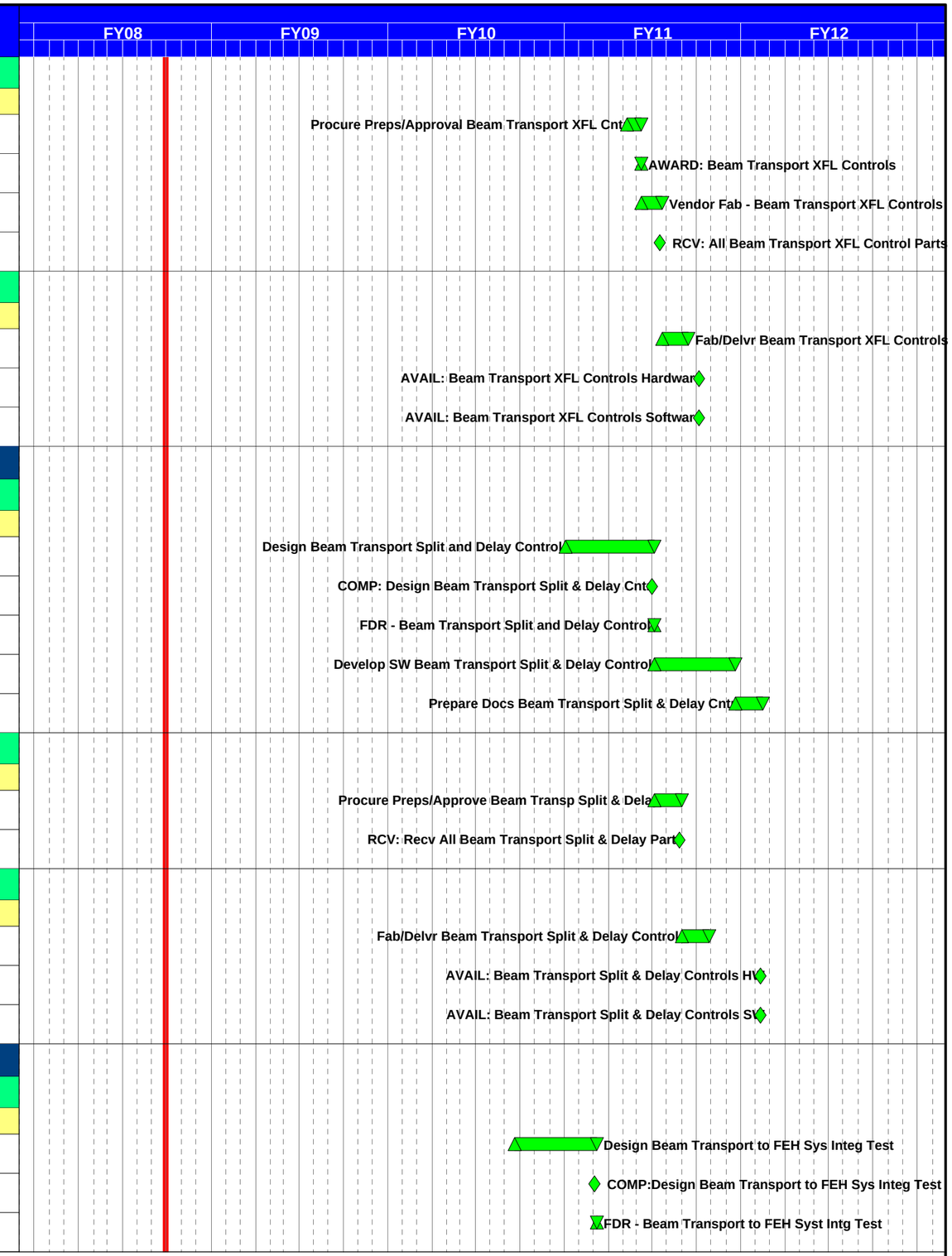
Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
CD 19207	COMP: Design Beam Transport Pop-In PM Cntrl	0	261		0.00	CD 19205*
CD 19210	FDR - Beam Transport Pop-In Profile Mon Cntrl	1	261		0.00	CD 19207*
CD 19240	Develop SW Beam Transport Pop-In PM Cntrl	90	282	SL_CP	1,766.80	CD 19210*
CD 19250	Prepare Docs Beam Transport Pop-In PM Cntrl	20	282	SL_CP	1,357.93	CD 19240*
04 Subcontract						
9110904 Procurement - XCS BT to FEH Pop-In PM Cntrls						
CD 19215	Prep Bid Pkg & App - XCS Beam Transp Pop-In PM	15	261		0.00	CD 19210*, PM300105
CD 19216	RELEASE: RFP - XCS Beam Transp Pop-In PM	0	261		0.00	CD 19215*
CD 19217	Vendor Proposal Effort-XCS Beam Transp Pop-In PM	20	261		0.00	CD 19216*
CD 19218	RCV: Vendor Deliverables-XCS Beam Transp Pop-In	0	261		0.00	CD 19217*
CD 19219	Eval & Selection Process -XCS Beam Transp Pop-In	15	261		0.00	CD 19218*
CD 19220	Vendor Selection - XCS Beam Transp Pop-In PM	0	261		0.00	CD 19219*
CD 19221	SLAC Approval Process -XCS Beam Transp Pop-In PM	5	261		0.00	CD 19220*
CD 19222	DOE Approval Process -XCS Beam Transp Pop-In PM	5	261		0.00	CD 19221*
CD 19225	AWARD: Beam Transport Pop-In PM Cntrl	1	218	AWARD	28,548.80	CD 19215, CD 19222, PM003060, PM300110*
CD 19230	Vendor Fab - Beam Transport Pop-In PM Cntrl	30	218	SL_MSEQ	28,548.80	CD 19215, CD 19225*
CD 19235	RCV: Receive All Beam Transport Pop-In PM Parts	0	218		0.00	CD 19230*
05 Fab / Assembly						
9110905 Fab & Assembly - XCS BT to FEH Pop-In PM Cntrls						
CD 19245	Fab/Delvr Beam Transport Pop-In PM Cntrl	40	218	SL_CT	2,069.70	CD 19235*
CD 19255	AVAIL: Beam Transport Pop-In PM Controls H/W	0	218		0.00	CD 19245*, CD 19250
CD 19260	AVAIL: Beam Transport Pop-In PM Controls S/W	0	218		0.00	CD 19245*, CD 19250
1.6.05.04.04 XCS BT to FEH Pop-In Intensity Monitor Controls						
02 Design / Engineering						
9110906 Design & Engr - XCS BT to FEH Pop-In IM Cntrls						
CD 19265	Design Beam Transport Pop-In Intensity Mon Cntrl	80	97	SL_CE	630.00	CD 13700, PM300110*
CD 19267	COMP: Design Beam Transp Pop-In Intensity Monit	0	97		0.00	CD 19265*
CD 19270	FDR - Beam Transport Pop-In Intensity Mon Cntrl	1	97		0.00	CD 19267*
CD 19300	Develop SW Beam Transport Pop-In IM Cntrl	90	118	SL_CP	1,837.40	CD 19270*
CD 19310	Prepare Docs Beam Transport Pop-In IM Cntrl	20	118	SL_CP	1,378.05	CD 19300*
04 Subcontract						
9110907 Procurement - XCS BT to FEH IM Cntrols						
CD 19275	Prep Bid Pkg & App - Beam Transp Pop-In IM	15	97		0.00	CD 19270*, PM300105
CD 19276	RELEASE: RFP - CS Beam Transp Pop-In IM	0	97		0.00	CD 19275*

Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
CD 19277	Vendor Proposal Effort-XCS Beam Transp Pop-In IM	20	97		0.00	CD 19276*
CD 19278	RCV: Vendor Deliverables-XCS Beam Transp PI IM	0	97		0.00	CD 19277*
CD 19279	Eval & Selection Process -XCS Beam Transp PI PM	15	97		0.00	CD 19278*
CD 19280	Vendor Selection - XCS Beam Transp Pop-In IM	0	97		0.00	CD 19279*
CD 19281	SLAC Approval Process -XCS Beam Transp Pop-In IM	5	97		0.00	CD 19280*
CD 19282	DOE Approval Process -XCS Beam Transp Pop-In IM	5	97		0.00	CD 19281*
CD 19285	AWARD: Beam Transp Pop-In Intensity Mon Cntrl	1	97	AWARD	34,888.00	CD 19275, CD 19282*, PM003060, PM300110
CD 19290	Vendor Fab - Beam Transport Pop-In IM Cntrl	30	97	SL_MSEQ	34,888.00	CD 19285*
CD 19295	RCV: Recv All Beam Transp Pop-In IM Cntrl Parts	0	97		0.00	CD 19290*
05 Fab / Assembly						
9110908 Fab & Assembly - XCS BT to FEH Pop-In IM Cntrls						
CD 19305	Fab/Delvr Beam Transport Pop-In IM Cntrl	40	97	SL_CT	1,379.80	CD 19295*
CD 19315	AVAIL: Beam Transport Pop-In IM Cntrl H/W	0	97		0.00	CD 19305*, CD 19310
CD 19320	AVAIL: Beam Transport Pop-In IM Cntrl S/W	0	97		0.00	CD 19305*, CD 19310
1.6.05.04.05 XCS BT to FEH Intensity-Position Monitor Control						
02 Design / Engineering						
9110909 Design & Engr - XCS BT to FEH IPM Cntrls						
CD 19325	Design Beam Transport Intensity PM Cntrl	60	117	SL_CE	630.00	CD 13700, PM300110*
CD 19327	COMP: Design Beam Transport Intensity PM Cntrl	0	117		0.00	CD 19325*
CD 19330	FDR - Beam Transport Intensity PM Cntrl	1	117		0.00	CD 19327*
CD 19360	Develop SW Beam Transport Intensity PM Cntrl	90	138	SL_CP	1,837.40	CD 19330*
CD 19370	Prepare Docs Beam Transport Intensity PM Cntrl	20	138	SL_CP	1,378.05	CD 19360*
04 Subcontract						
9110910 Procurement - XCS BT to FEH Int PM Cntrls						
CD 19335	Prep Bid Pkg & App - Beam Transp Intensity PM	15	117		0.00	CD 19330*, PM300105
CD 19336	RELEASE: RFP - XCS Beam Transp Intensity PM	0	117		0.00	CD 19335*
CD 19337	Vendor Proposal Effort-XCS BT Intensity PM	20	117		0.00	CD 19336*
CD 19338	RCV: Vendor Deliverables-XCS BT Intensity PM	0	117		0.00	CD 19337*
CD 19339	Eval & Selection Process -XCS BT Intensity PM	15	117		0.00	CD 19338*
CD 19340	Vendor Selection - XCS BT Intensity PM	0	117		0.00	CD 19339*
CD 19341	SLAC Approval Process -XCS BT Intensity PM	5	117		0.00	CD 19340*
CD 19342	DOE Approval Process -XCS BT Intensity PM	5	117		0.00	CD 19341*
CD 19345	AWARD: Beam Transport Intensity PM Cntrl	1	117	AWARD	63,613.76	CD 19335, CD 19342*, PM003060, PM300110

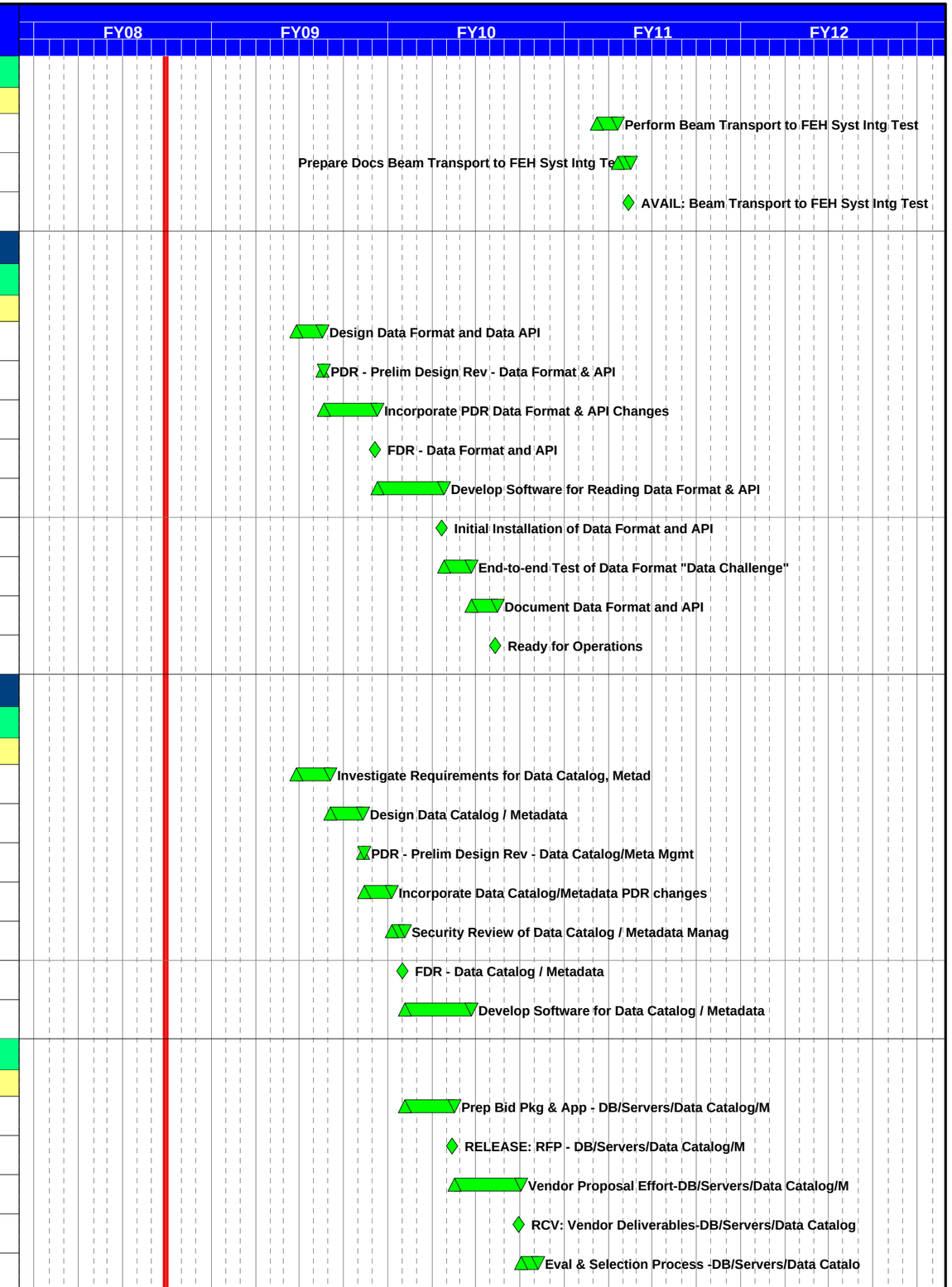


Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
CD 19350	Vendor Fab - Beam Transport Intensity PM Cntrl	30	117	SL_MSEQ	63,613.76	CD 19345*
CD 19355	RCV: Recv All Beam Transport Intensity PM Parts	0	117		0.00	CD 19350*
05 Fab / Assembly						
9110911 Fab & Assembly - XCS BT to FEH IPM Cntrls						
CD 19365	Fab/Delvr Beam Transport Intensity PM Cntrl	40	117	SL_CT	2,069.70	CD 19355*
CD 19375	AVAIL: Beam Transport Intensity PM Cntrl HW	0	117		0.00	CD 19365*, CD 19370
CD 19380	AVAIL: Beam Transport Intensity PM Cntrl SW	0	117		0.00	CD 19365*, CD 19370
1.6.05.04.06 XCS BT to FEH Monochromator Controls						
02 Design / Engineering						
ENG_PP Engineering Planning Package						
CD 03100	Design Monochromator Controls	40	189	SL_CE	1,817.25	PM300105*
CD 03105	COMP: Design Monochromator Controls	0	189		0.00	CD 03100*
CD 03120	FDR - Final Design Review Monochromator Controls	1	189	SL_CE	605.75	CD 03100*, CD 03105*
CD 03140	COMP: FDR for Monochromator Controls	0	189		0.00	CD 03120*
CD 03180	Develop Software Monochromator Controls	90	522	SL_CP	3,091.90	CD 03140*
CD 03220	Prepare Docs Monochromator Controls	30	522	SL_CP	441.70	CD 03180*
03 Procurement						
PRO_PP Procurement Planning Package						
CD 03145	Procurement Preps - Monochromator Controls	20	343		0.00	CD 03140, PM300110*
CD 03150	AWARD: Monochromator Controls	1	343	AWARD	22,338.40	CD 03145*, PM003060, PM300110
CD 03160	Vendor Fab - Monochromator Controls	30	343	SL_MSEG	22,338.40	CD 03145, CD 03150*
CD 03165	RCV: Receive All Parts	0	343		0.00	CD 03160*
05 Fab / Assembly						
FAB_PP Fab & Assy Planning Package						
CD 03200	Fab/Delvr Monochromator Controls	40	343	SL_CT	2,069.70	CD 03165*
CD 03240	AVAIL: Monochromator Controls Hardware	0	343		0.00	CD 03200*, CD 03220
CD 03260	AVAIL: Monochromator Controls Software	0	343		0.00	CD 03200*, CD 03220
1.6.05.04.07 XCS BT to FEH X-Ray Focusing Lens Controls						
02 Design / Engineering						
9110912 Design & Engr - XCS BT to FEH XFL Controls						
CD 19445	Design Beam Transport XFL Controls	80	120	SL_CE	10,080.00	CD 13700, PM300110*
CD 19447	COMP: Design Beam Transport XFL Controls	0	120		0.00	CD 19445*
CD 19450	FDR - Beam Transport XFL Controls	1	120	SL_CE	1,890.00	CD 19447*, DI 06140
CD 19480	Develop Software Beam Transport XFL Controls	90	120	SL_CP	31,235.80	CD 19450*
CD 19490	Prepare Docs Beam Transport XFL Controls	20	120	SL_CP	1,837.40	CD 19480*

Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
03 Procurement						
9110913 Procurement - XCS BT to FEH XFL Controls						
CD 19460	Procure Preps/Approval Beam Transport XFL Cntrl	20	139		0.00	CD 19450*, PM300105
CD 19465	AWARD: Beam Transport XFL Controls	1	139	AWARD	16,257.92	CD 19460*, PM003060, PM300110
CD 19470	Vendor Fab - Beam Transport XFL Controls	30	139	SL_MSEG	16,257.92	CD 19465*
CD 19475	RCV: All Beam Transport XFL Control Parts	0	139		0.00	CD 19470*
05 Fab / Assembly						
FAB_PP Fab & Assy Planning Package						
CD 19485	Fab/Delvr Beam Transport XFL Controls	40	139	SL_CT	2,069.70	CD 19475*
CD 19495	AVAIL: Beam Transport XFL Controls Hardware	0	120		0.00	CD 19485, CD 19490*
CD 19500	AVAIL: Beam Transport XFL Controls Software	0	120		0.00	CD 19485, CD 19490*
1.6.05.04.08 XCS BT to FEH Split and Delay Controls						
02 Design / Engineering						
9110914 Design & Engr - XCS BT to FEH Split & Delay Cntr						
CD 19505	Design Beam Transport Split and Delay Controls	120	153	SL_CE	5,040.00	CD 13700, CD 13820, PM300110*
CD 19507	COMP: Design Beam Transport Split & Delay Cntrl	0	153		0.00	CD 19505*
CD 19515	FDR - Beam Transport Split and Delay Controls	1	153	SL_CE	1,260.00	CD 19507*
CD 19545	Develop SW Beam Transport Split & Delay Controls	120	153	SL_CP	20,211.40	CD 19515*
CD 19555	Prepare Docs Beam Transport Split & Delay Cntrl	40	153	SL_CP	3,815.36	CD 19545*
03 Procurement						
9110915 Procurement - XCS BT to FEH Split & Delay Cntrls						
CD 19525	Procure Preps/Approve Beam Transp Split & Delay	40	233		0.00	CD 19515*, PM300105
CD 19540	RCV: Recv All Beam Transport Split & Delay Parts	0	233		0.00	CD 19525*
05 Fab / Assembly						
9110916 Fab & Assembly - XCS BT to FEH Split & Delay Cnt						
CD 19550	Fab/Delvr Beam Transport Split & Delay Controls	40	233	SL_CT	6,899.00	CD 19540*
CD 19560	AVAIL: Beam Transport Split & Delay Controls HW	0	153		0.00	CD 19550, CD 19555*
CD 19565	AVAIL: Beam Transport Split & Delay Controls SW	0	153		0.00	CD 19550, CD 19555*
1.6.05.04.09 XCS Beam Transport to FEH System Integration Tes						
02 Design / Engineering						
9110917 Design & Engr - XCS BT to FEH Sys Integ Tst						
CD 19570	Design Beam Transport to FEH Sys Integ Test	120	348	SL_CE	4,962.08	CD 13820*
CD 19572	COMP:Design Beam Transport to FEH Sys Integ Test	0	348		0.00	CD 19570*
CD 19575	FDR - Beam Transport to FEH Syst Intg Test	1	348	SL_CE	1,260.00	CD 19572*



Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
06 Testing						
TST_PP Testing Planning Package						
CD 19585	Perform Beam Transport to FEH Syst Intg Test	20	348	SL_CP	11,943.10	CD 19575*
CD 19590	Prepare Docs Beam Transport to FEH Syst Intg Tes	20	348	SL_CP	1,837.40	CD 19585*
CD 19595	AVAIL: Beam Transport to FEH Syst Intg Test	0	348		0.00	CD 19590*
1.6.06.01 Data Format and API						
02 Design / Engineering						
9110918 Design & Engr - Data Format & API						
CD 19600	Design Data Format and Data API	40	277	SL_CE	17,473.50	CD 01040*
CD 19605	PDR - Prelim Design Rev - Data Format & API	1	277		0.00	CD 19600*
CD 19610	Incorporate PDR Data Format & API Changes	80	277	SL_CE	17,473.50	CD 19605*
CD 19615	FDR - Data Format and API	0	533		0.00	CD 19610*
CD 19620	Develop Software for Reading Data Format & API	85	533	SL_CE	24,193.27	CD 19615*
CD 19625	Initial Installation of Data Format and API	0	533		0.00	CD 19620*
CD 19630	End-to-end Test of Data Format "Data Challenge"	40	533	SL_CP	8,834.00	CD 19625*
CD 19635	Document Data Format and API	40	533	SL_CP	12,985.98	CD 19625, CD 19630*
CD 19640	Ready for Operations	0	533		0.00	CD 19630, CD 19635*
1.6.06.02 Data Catalog / Metadata Management						
02 Design / Engineering						
9110919 Design & Engr - Data Catalog & Meta Mgmt						
CD 19650	Investigate Requirements for Data Catalog, Metad	50	182	SL_CE	23,298.00	CD 01040*
CD 19655	Design Data Catalog / Metadata	50	182	SL_CE	23,298.00	CD 19650*
CD 19660	PDR - Prelim Design Rev - Data Catalog/Meta Mgmt	1	182		0.00	CD 19655*
CD 19665	Incorporate Data Catalog/Metadata PDR changes	40	182	SL_CE	18,835.98	CD 19660*
CD 19670	Security Review of Data Catalog / Metadata Manag	20	182	SL_CE	4,846.00	CD 19665*
CD 19675	FDR - Data Catalog / Metadata	0	182		0.00	CD 19670*
CD 19680	Develop Software for Data Catalog / Metadata	85	393	SL_CE	42,402.50	CD 19675*
04 Subcontract						
9110920 Subcontract - Data Catalog & Meta Mgmt						
CD 19676	Prep Bid Pkg & App - DB/Servers/Data Catalog/M	60	182		0.00	CD 19675*, PM300100
CD 19677	RELEASE: RFP - DB/Servers/Data Catalog/M	0	182		0.00	CD 19676*
CD 19678	Vendor Proposal Effort-DB/Servers/Data Catalog/M	100	182		0.00	CD 19677*
CD 19679	RCV: Vendor Deliverables-DB/Servers/Data Catalog	0	182		0.00	CD 19678*
CD 19681	Eval & Selection Process -DB/Servers/Data Catalo	25	182		0.00	CD 19679*



Activity ID	Activity Description	Orig Dur	Total Float	Resource ID	Budgeted Cost	Predecessors
CD 19682	Vendor Selection - DB/Servers/Data Catalog/M	0	182		0.00	CD 19681*
CD 19683	SLAC Approval Process -DB/Servers/Data Catalog/M	5	182		0.00	CD 19682*
CD 19684	DOE Approval Process -DB/Servers/Data Catalog/M	5	182		0.00	CD 19683*
CD 19685	AWARD: DB/File Servers/Data Catalog/M	1	182	AWARD	37,060.00	CD 19676, CD 19684*, PM003000
CD 19687	Vendor Fab - DB & file servers Data Catalog/M	40	182	SL_MSEQ	38,080.00	CD 19685*
CD 19689	RCV: DB & file servers Data Catalog/M	0	182		0.00	CD 19687*
07 Installation						
9110921 Installation - Data Catalog & Meta Mgmt						
CD 19690	Install database and file server hardware Data C	60	182	SL_CP	5,512.20	CD 19689*
CD 19695	Initial Installation of Data Catalog	0	182		0.00	CD 19680, CD 19690*
CD 19700	Document Data Catalog / Metadata	60	182	SL_CP	7,349.60	CD 19695*
CD 19705	End-to-end test Data Catalog / Metadata Manageme	60	182	SL_CP	23,886.20	CD 19695, CD 19700*
CD 19710	Incorporate Data Catalog/Meta Revisional Changes	60	182	SL_CE	18,990.72	CD 19705*
CD 19715	Ready for Operations	0	182		0.00	CD 19700, CD 19710*
1.6.06.03 Processing Framework / Workflow / Pipeline						
02 Design / Engineering						
9110922 Design & Engr - Proc FW/Workflow/PL						
CD 19720	Investigate Requirements for Processing Framewor	50	238	SL_CE	23,298.00	CD 01040*
CD 19725	Design Processing Framework/Workflow/Pipeline	50	238	SL_CE	23,298.00	CD 19720*
CD 19730	PDR - Processing FW/WF/PL	0	238		0.00	CD 19725*
CD 19735	Incorporate Processing Framework PDR changes	60	238	SL_CE	17,919.70	CD 19730*
CD 19740	Security Review of Processing Framework/Workflow	20	419	SL_CE	4,846.00	CD 19735*
CD 19745	FDR - Processing Framework/Workflow	0	419		0.00	CD 19740*
CD 19750	Develop Software for Processing Framework/Workfl	100	419	SL_CE	42,402.50	CD 19745*
CD 19755	Initial Installation - Processing Framework	0	419		0.00	CD 19750*
CD 19760	Document Processing Framework/Workflow/Pipeline	60	419	SL_CP	7,067.20	CD 19755*
CD 19765	End-to-end test Processing Framework/Workflow/Pi	60	419	SL_CP	17,980.99	CD 19755, CD 19760*
CD 19770	Ready For Operations	0	419		0.00	CD 19760, CD 19765*