

Activity ID	Activity Description	Rem Dur	Early Start	Early Finish	Predecessors	Successors	FY08			FY09			FY10		
1 LCLS PROJECT - PED & CONSTRUCTION															
1.06 X-RAY END STATION SYSTEMS															
XE_RB	START: Rebaseline Activities in XES	0	02/01/08A		PMSTART	S8X7_NH611, S8Z1_PB059, XE1270010, XE1270020, XE1270030,									
MS3_XE025	AWARD: XES Laser System	0		10/31/08A	XE1410110										
MS3_XE120	Electron Dump Stoppers Certified	0		11/24/08A	S8Z2_SC015	LNx710-040									
XE_S1_0010	START: SXR LCLS Effort	0		11/26/08A		SX_E_010, SX_E_020, SX_E_030, SX_E_070, SX_P_010, SX_P_170,									
MS3_XE060	XE Start Installation in NEH	0	01/12/09A		S8X7_NH075, S8X7_NH080, XE12130240, XE221_0184,	MS2_XE060									
MS2_XE060	XE Start Installation in NEH	0		06/04/09*	MS3_XE060										
MS3_XE130	FEE/NEH PPS Certified	0		06/05/09*	S8Z2_SC025										
MS3_XE005	First X-Rays into NEH, ready to start Expt'l Ops	0	08/10/09*		S8Z3_CM120	MS2_XE005									
MS3_XE080	XES Laser Operating in Near Hall	0		08/13/09*	XE1620044										
MS3_XE050	XE Start Installation in FEH	0	08/17/09*		S8X9_FH065, XE221_0135, XE221_0150, XE221_0183	MS2_XE050									
MS2_XE005	First X-Rays into NEH, ready to start Expt'l Ops	0		09/10/09*	MS3_XE005										
MS3_XE065	AMO Ready for Basic Expmnts (Phase 1)	0	09/14/09*		S8Z1_PB080, XE12708090, XE12708100, XE12716091,										
MS2_XE050	XE Start Installation in FEH	0		09/17/09*	MS3_XE050										
MS3_XE170	SXR Start Installation Major Vacuum Systems	0	10/09/09*		XE_S16_145										
MS3_XE150	TUN/FEH PPS Certified	0		12/24/09*	S8Z2_SC110, XE1912600, XT122D0065, XT12320045,										
XE_S1_0020	AVAIL: SXR Instrument	0		01/20/10	XE_S10_007, XE_S16_301*, XE_S21_030	MS3_XE180, PM_DOE									
MS3_XE015	2-D Detector Shipped to SLAC	0		01/29/10*	XE254_2160	MS2_XE015									
MS3_XE180	SXR Instrument Installed	0		02/01/10*	XE_S1_0020	MS2_XE180									
MS2_XE015	2-D Detector Shipped to SLAC	0		02/26/10*	MS3_XE015										
MS2_XE180	SXR Instrument Installed	0		03/01/10*	MS3_XE180	MS1_PM040									
1.06.01 System Management & Integration															
XE_30	COMP: End Stations Project	0		12/07/09	XE12070260*, XE221_0167, XE221_193, XE2281080, XE229_0210	PM_DOE, S8Z3_CM190									
XE_4457	End Stations Commissioning Complete	0		02/24/10	XE2410010, XE27330020, XE27330030, XE_0241, XE_0441,	S8Z3_CM190									
XE_LOE	COMP: End Stations LOE Tasks	0		07/30/10	XE12070245, XE12070345, XE12070445, XE12070645,										

Start Date 07/19/06
 Finish Date 07/30/10
 Data Date 04/01/09
 Run Date 04/29/09 15:20

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 Early Bar
 Progress Bar
 Critical Activity

Activity ID	Activity Description	Rem Dur	Early Start	Early Finish	Predecessors	Successors	FY08			FY09			FY10				
1.06.01.01 Management																	
XE_035	Management & Oversight - FY08	0	02/01/08A	09/30/08A	XE_RB	XE2100200, XE_036, XE_040, XE_050	■										
XE_0482	Travel & Misc Expenses - Feb08 thru Oct08	0	02/01/08A	10/31/08A	XE_RB	XE_0491	■										
XE_040	Management & Oversight - Oct08 thru Jul09	87*	10/01/08A	07/31/09	XE_033, XE_035	XE_038				■							
XE_050	Design Integration	130	05/01/09*	10/30/09	XE_033, XE_035	XE_LOE					■						
1.06.02 XES Controls																	
1.06.02.01 Controls Management																	
XE201_0111	Management - FY08	0	02/01/08A	09/30/08A	XE_RB	XE201_0121	■										
XE201_0310	Travel - FY08	0	02/01/08A	09/30/08A	XE_RB	MS4_CT0004, XE201_0315	■										
XE201_0410	Misc. Test Equipment - FY08	0	02/01/08A	09/30/08A	XE_RB	MS4_CT0004, XE201_0415	■										
XE201_0121	Management - FY09	130*	10/01/08A	09/30/09	XE201_0111	XE201_0131*				■							
XE201_0315	Travel - FY09	130*	10/01/08A	09/30/09	XE201_0310	XE201_0320*				■							
XE201_0415	Misc. Test Equipment - FY09	130*	10/01/08A	09/30/09	XE201_0410	XE_LOE				■							
XE201_0131	Management - FY10	214	10/01/09	07/30/10	XE201_0121*	XE_LOE*								■			
XE201_0320	Travel - FY10	214	10/01/09	07/30/10	XE201_0315*	XE_LOE*								■			
1.06.02.07 AMOS Experiment Controls X1																	
1.06.02.07.01 AMOS Requirements, Design, Setup																	
XE1270010	Prepare Requirements	0	02/01/08A	03/03/08A	XE_RB	XE1270100	■										
XE1270020	Prepare AMOS - Controls ICD	0	02/01/08A	03/03/08A	XE_RB	XE1270100	■										
XE1270030	Prepare Requirements	0	02/01/08A	03/03/08A	XE_RB	XE1270100	■										
XE1270040	Prepare Final Device List for Phase 1	0	02/01/08A	03/03/08A	XE_RB	XE1270100	■										
XE1270050	Prepare Final Device List for Phase 2	0	02/01/08A	03/03/08A	XE_RB	XE1270100	■										
XE1270100	Preliminary Design for AMOS	0	02/01/08A	04/17/08A	XE1270010, XE1270020, XE1270030, XE1270040, XE1270050	XE1270110	■										
XE1270125	Post PDR Design Effort	0	04/26/08A	06/10/08A	XE1270110	XE12070100, XE12070105, XE12070110, XE12070115,	■										
XE1270110	Preliminary Design Review (PDR)	0		04/25/08A	XE1270100	XE1270125, XE12708010, XE12709010, XE221_0105,	■										
1.06.02.07.07 Development Hardware & Software																	
XE1270230	Procure Hrdwr for Develop Test Setup - FY08	0	02/01/08A	09/10/08A	XE_RB	XE1270210	■										
XE1270240	Develop Software for Test Setup - FY08 M&S	0	02/01/08A	09/10/08A	XE_RB	XE1270210	■										
XE1270260	Develop Test Setup - FY08 L	0	02/01/08A	09/10/08A	XE_RB	XE1270210	■										
XE1270210	COMP: Develop Test Setup	0		09/10/08A	XE1270230, XE1270240, XE1270260	XE12708020				◆							
1.06.02.07.08 Beam Viewing System for Phase 1																	
XE12708010	Design Phase 1 Beam Viewing System	0	06/11/08A	12/05/08A	XE1270110, XE1270125	XE12708020	■										

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1.06.02.07.08 Beam Viewing System for Phase 1																	
XE12708020	Final Design Review Phase 1 Beam Viewing System	0	12/05/08A	12/05/08A	XE1270210, XE12708010	XE12708030											
XE12708040	Procure Phase 1 Beam Viewing System	0	12/05/08A	01/15/09A	XE12708030	XE12708080											
XE12708050	Dev Software Phase 1 Beam Viewing System	37	12/05/08A	05/21/09	XE12708030	XE12708090*, XE1720518											
XE12708060	Prepare Docs Phase 1 Beam Viewing System	37	12/05/08A	05/21/09	XE12708030	XE12708090*											
XE12708030	COMP: FDR for Phase 1 Beam Viewing System	0		12/05/08A	XE12708020	XE12708040, XE12708050, XE12708060											
XE12708080	Fab/Delvr Phase 1 Beam Viewing System	17	01/02/09A	04/23/09	XE12708040	XE12708100*											
XE12708100	AVAIL: Phase 1 Beam Viewing System Hrdwr	0		04/23/09	XE12708080*	MS3_XE065, XE1740518											
XE12708090	AVAIL: Phase 1 Beam Viewing System Software	0		05/21/09	XE12708050*, XE12708060*	MS3_XE065, XE1740518											
1.06.02.07.09 Beam Viewing System for Phase 2																	
XE12709010	Design Phase 2 Beam Viewing System	0	10/02/08A	03/05/09A	MS_260, XE1270110	XE12709020											
XE12709030	COMP: FDR for Phase 2 Beam Viewing System	0		03/12/09A	XE12709020	XE12709040, XE12709050, XE12709060											
XE12709040	Procure Phase 2 Beam Viewing System	17	03/13/09A	04/23/09	XE12709030	XE12709080*											
XE12709050	Dev Software Phase 2 Beam Viewing System	67	03/13/09A	07/02/09	XE12709030	XE12709090*											
XE12709060	Prepare Docs Phase 2 Beam Viewing System	67	03/13/09A	07/02/09	XE12709030	XE12709090*											
XE12709020	Final Design Review Phase 2 Beam Viewing System	0		03/12/09A	XE12709010	XE12709030											
XE12709080	Fab/Delvr Phase 2 Beam Viewing System	60	04/24/09	07/17/09	XE12709040*	XE12709100*											
XE12709090	AVAIL: Phase 2 Beam Viewing System Software	0		07/02/09	XE12709050*, XE12709060*	XE1741058											
XE12709100	AVAIL: Phase 2 Beam Viewing System Hrdwr	0		07/17/09	XE12709080*	XE1741058*											
1.06.02.07.12 Differential Pumping																	
XE12712010	Design Differential Pumping	0	06/11/08A	01/02/09A	XE1270125	XE12712020											
XE12712020	Final Design Review Differential Pumping	0	12/02/08A	12/05/08A	XE12712010	XE12712030											
XE12712040	Procure Differential Pumping	0	12/05/08A	12/15/08A	XE12712030	XE12712080											
XE12712050	Dev Software Differential Pumping	28	12/05/08A	05/08/09	XE12712030	XE12712090*, XE1720518											
XE12712060	Prepare Docs Differential Pumping	28	12/05/08A	05/08/09	XE12712030	XE12712090*											
XE12712030	COMP: FDR for Differential Pumping	0		12/05/08A	XE12712020	XE12712040, XE12712050, XE12712060											
XE12712080	Fab/Delvr Differential Pumping	38	03/02/09A	05/22/09	XE12712040	XE12712100*											
XE12712090	AVAIL: Differential Pumping Software	0		05/08/09	XE12712050*, XE12712060*	XE1740518											
XE12712100	AVAIL: Differential Pumping Hrdwr	0		05/22/09	XE12712080*	XE1740518											
1.06.02.07.14 Temperature Monitoring																	
XE12714010	Design Temperature Monitoring	0	06/11/08A	12/05/08A	XE1270125	XE12714020											

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1.06.02.07.14 Temperature Monitoring																	
XE12714040	Procure Temperature Monitoring	0	12/05/08A	01/27/09A	XE12714030	XE12714080											
XE12714050	Dev Software Temperature Monitoring	25	12/05/08A	05/05/09	MS_260, XE12714030	XE12714090*, XE1720518											
XE12714060	Prepare Docs Temperature Monitoring	25	12/05/08A	05/05/09	MS_260, XE12714030	XE12714090*											
XE12714030	COMP: FDR for Temperature Monitoring	0		12/05/08A	XE12714020	XE12714040, XE12714050, XE12714060											
XE12714080	Fab/Delvr Temperature Monitoring	35	01/27/09A	05/19/09	XE12714040	XE12714100*											
XE12714020	Final Design Review Temperature Monitori	0		12/05/08A	XE12714010	XE12714030											
XE12714090	AVAIL: Temperature Monitoring Software	0		05/05/09	XE12714050*, XE12714060*	XE1740518											
XE12714100	AVAIL: Temperature Monitoring Hrdwr	0		05/19/09	XE12714080*	XE1740518											
1.06.02.07.15 Gas Storage & Delivery System																	
XE12715010	Design Gas Stor/Delrvy System	0	06/11/08A	12/05/08A	XE1270125	XE12715020											
XE12715020	Final Design Review Gas Stor/Delrvy Syst	0	12/05/08A	12/05/08A	XE12715010	XE12715030											
XE12715040	Procure Gas Stor/Delrvy System	0	12/05/08A	01/26/09A	XE12715030	XE12715080											
XE12715050	Dev Software Gas Stor/Delrvy System	24	12/05/08A	05/04/09	MS_260, XE12715030	XE12715090*, XE1720518											
XE12715060	Prepare Docs Gas Stor/Delrvy System	24	12/05/08A	05/04/09	MS_260, XE12715030	XE12715090*											
XE12715030	COMP: FDR for Gas Stor/Delrvy System	0		12/05/08A	XE12715020	XE12715040, XE12715050, XE12715060											
XE12715080	Fab/Delvr Gas Stor/Delrvy System	34	01/27/09A	05/18/09	XE12715040	XE12715100*											
XE12715090	AVAIL: Gas Stor/Delrvy System Software	0		05/04/09	XE12715050*, XE12715060*	XE1740518											
XE12715100	AVAIL: Gas Stor/Delrvy System Hrdwr	0		05/18/09	XE12715080*	XE1740518											
1.06.02.07.16 High Field Physics Chamber																	
XE12716011	Design Vacuum & Motion	0	06/11/08A	12/05/08A	XE1270125	XE12716021											
XE12716012	Design Gas Jet System	0	06/11/08A	12/05/08A	XE1270125	XE12716022											
XE12716013	Design Electr. Spectrometers (5)	0	06/11/08A	12/05/08A	XE1270125	XE12716023											
XE12716014	Design Ion Spectrometers (TOF)	0	06/11/08A	12/05/08A	XE1270125	XE12716024											
XE12716015	Design Ion Spectrometers (Img/Mom)	0	10/02/08A	03/05/09A	MS_260	XE12716025											
XE12716017	Design X-Ray Emission Spectr.	0	10/02/08A	03/05/09A	MS_260	XE12716027											
XE12716023	Final Design Review Electr. Spectrometer	0	12/04/08A	12/05/08A	XE12716013	XE12716033											
XE12716024	Final Design Review Ion Spectrometers (TOF)	0	12/04/08A	12/05/08A	XE12716014	XE12716034											
XE12716021	Final Design Review Vacuum & Motion	0	12/05/08A	12/05/08A	XE12716011	XE12716031											
XE12716053	Dev Software Electr. Spectrometers (5)	25	12/05/08A	05/05/09	MS_260, XE12716033	XE12716093*, XE1720518											
XE12716054	Dev Software Ion Spectrometers (TOF)	25	12/05/08A	05/05/09	MS_260, XE12716034	XE12716094*, XE1720518											

Activity ID	Activity Description	Rem Dur	Early Start	Early Finish	Predecessors	Successors	FY08			FY09			FY10				
1.06.02.07.16 High Field Physics Chamber																	
XE12716063	Prepare Docs Electr. Spectrometers (5)	25	12/05/08A	05/05/09	MS_260, XE12716033	XE12716093*											
XE12716064	Prepare Docs Ion Spectrometers (TOF)	25	12/05/08A	05/05/09	MS_260, XE12716034	XE12716094*											
XE12716051	Dev Software Vacuum & Motion	26	12/05/08A	05/06/09	XE12716031	XE12716091*, XE1720518											
XE12716061	Prepare Docs Vacuum & Motion	26	12/05/08A	05/06/09	XE12716031	XE12716091*											
XE12716052	Dev Software Gas Jet System	28	12/05/08A	05/08/09	XE12716032	XE12716092*, XE1720518											
XE12716062	Prepare Docs Gas Jet System	28	12/05/08A	05/08/09	XE12716032	XE12716092*											
XE12716081	Fab/Delvr Vacuum & Motion	13	12/09/08A	04/17/09	XE12716041	XE12716101*											
XE12716082	Fab/Delvr Gas Jet System	13	12/09/08A	04/17/09	XE12716042	XE12716102*											
XE12716083	Fab/Delvr Electr. Spectrometers (5)	13	12/09/08A	04/17/09	XE12716043	XE12716103*											
XE12716084	Fab/Delvr Ion Spectrometers (TOF)	13	12/09/08A	04/17/09	XE12716044	XE12716104*											
XE12716022	Final Design Review Gas Jet System	0		12/05/08A	XE12716012	XE12716032											
XE12716025	Final Design Review Ion Spectrometers (Img/Mom)	2	04/01/09	04/02/09	XE12716015	XE12716035											
XE12716027	Final Design Review X-Ray Emission Spect	2	04/01/09	04/02/09	XE12716017	XE12716037											
XE12716055	Dev Software Ion Spectrometers (Img/Mom)	80	04/01/09	07/22/09	XE12716035	XE12716095*											
XE12716057	Dev Software X-Ray Emission Spectr.	80	04/01/09	07/22/09	XE12716037	XE12716097*											
XE12716065	Prepare Docs Ion Spectrometers (Img/Mom)	80	04/01/09	07/22/09	XE12716035	XE12716095*											
XE12716067	Prepare Docs X-Ray Emission Spectr.	80	04/01/09	07/22/09	XE12716037	XE12716097*											
XE12716085	Fab/Delvr Ion Spectrometers (Img/Mom)	60	04/13/09	07/06/09	XE12716045*	XE12716105*											
XE12716087	Fab/Delvr X-Ray Emission Spectr.	60	04/13/09	07/06/09	XE12716047*	XE12716107*											
1.06.02.07.16.01 Vacuum & Motion																	
XE12716041	Procure Vacuum & Motion	0	12/05/08A	01/28/09A	XE12716031	XE12716081											
XE12716031	COMP: FDR for HF Physics Vacuum & Motion	0		12/05/08A	XE12716021	XE12716041, XE12716051, XE12716061											
XE12716101	AVAIL: HF Physics Vacuum & Motion Hrdwr	0		04/17/09	XE12716081*	MS3_XE065, XE1720518											
XE12716091	AVAIL: HF Physics Vacuum & Motion Software	0		05/06/09	XE12716051*, XE12716061*	MS3_XE065, XE1720518											
1.06.02.07.16.02 Gas Jet System																	
XE12716032	COMP: FDR for Gas Jet System	0		12/05/08A	XE12716022	XE12716042, XE12716052, XE12716062											
XE12716042	Procure Gas Jet System	0	12/09/08A	01/30/09A	XE12716032	XE12716082											
XE12716102	AVAIL: Gas Jet System Hrdwr	0		04/17/09	XE12716082*	XE1723518											
XE12716092	AVAIL: Gas Jet System Software	0		05/08/09	XE12716052*, XE12716062*	XE1723518*											

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1.06.02.07.16.03 Electron Spectrometers (5)																	
XE12716043	Procure Electr. Spectrometers (5)	0	12/05/08A	01/27/09A	XE12716033	XE12716083											
XE12716033	COMP: FDR for Electr. Spectrometers (5)	0		12/05/08A	XE12716023	XE12716043, XE12716053, XE12716063											
XE12716103	AVAIL: Electr. Spectrometers (5) Hrdwr	0		04/17/09	XE12716083*	MS3_XE065, XE1722270											
XE12716093	AVAIL: Electr. Spectrometers (5) Softwar	0		05/05/09	XE12716053*, XE12716063*	MS3_XE065, XE1722270*											
1.06.02.07.16.04 Ion Spectrometers (TOF)																	
XE12716044	Procure Ion Spectrometers (TOF)	0	12/05/08A	01/27/09A	XE12716034	XE12716084											
XE12716034	COMP: FDR for Ion Spectrometers (TOF)	0		12/05/08A	XE12716024	XE12716044, XE12716054, XE12716064											
XE12716104	AVAIL: Ion Spectrometers (TOF) Hrdwr	0		04/17/09	XE12716084*	XE1722270											
XE12716094	AVAIL: Ion Spectrometers (TOF) Software	0		05/05/09	XE12716054*, XE12716064*	XE1722270*											
1.06.02.07.16.05 Ion Spectrometers (Imaging/Momentum)																	
XE12716035	COMP: FDR for Ion Spectrometers (Img/Mom)	0		01/28/09A	XE12716025	XE12716045, XE12716055, XE12716065											
XE12716045	Procure Ion Spectrometers (Img/Mom)	8	03/02/09A	04/10/09	XE12716035	XE12716085*											
XE12716105	AVAIL: Ion Spectrometers (Img/Mom) Hrdwr	0		07/06/09	XE12716085*	XE1722120											
XE12716095	AVAIL: Ion Spectrometers (Img/Mom) Softw	0		07/22/09	XE12716055*, XE12716065*	XE1722120*											
1.06.02.07.16.07 X-Ray Emission Spectrometers																	
XE12716037	COMP: FDR for X-Ray Emission Spectr.	0		01/28/09A	XE12716027	XE12716047, XE12716057, XE12716067											
XE12716047	Procure X-Ray Emission Spectr.	8	03/02/09A	04/10/09	XE12716037	XE12716087*											
XE12716107	AVAIL: X-Ray Emission Spectr. Hrdwr	0		07/06/09	XE12716087*	XE1721130											
XE12716097	AVAIL: X-Ray Emission Spectr. Software	0		07/22/09	XE12716057*, XE12716067*	XE1721130*											
1.06.02.07.17 Diagnostics Chamber																	
XE12717011	Design Vacuum & Motion	0	06/11/08A	12/04/08A	XE1270125	XE12717021											
XE12717012	Design Gas Jet System	0	06/11/08A	01/12/09A	XE1270125	XE12717022											
XE12717013	Design Mag Bottle Elect Spectrometer	0	06/11/08A	01/12/09A	XE1270125	XE12717023											
XE12717014	Design X-Ray Emission Spectrometer	0	10/02/08A	03/05/09A	MS_260	XE12717024											
XE12717021	Final Design Review Vacuum & Motion	0	12/01/08A	12/05/08A	XE12717011	XE12717031											
XE12717051	Dev Software Vacuum & Motion	37	01/02/09A	05/21/09	XE12717031	XE12717091*, XE1720518											
XE12717061	Prepare Docs Vacuum & Motion	37	01/02/09A	05/21/09	XE12717031	XE12717091*											
XE12717022	Final Design Review Gas Jet System	0	01/13/09A	01/13/09A	XE12717012	XE12717032											
XE12717023	Final Design Review Mag Bottle Elect Spectromet	0	01/13/09A	01/13/09A	XE12717013	XE12717033											
XE12717052	Dev Software Gas Jet System	46	01/15/09A	06/03/09	XE12717032	XE12717092*, XE1720518*											

Activity ID	Activity Description	Rem Dur	Early Start	Early Finish	Predecessors	Successors	FY08			FY09			FY10				
1.06.02.07.17 Diagnostics Chamber																	
XE12717053	Dev Software Mag Bottle Elect Spectrometer	46	01/15/09A	06/03/09	MS_260, XE12717033	XE12717093*, XE1720518*											
XE12717062	Prepare Docs Gas Jet System	46	01/15/09A	06/03/09	XE12717032	XE12717092*											
XE12717063	Prepare Docs Mag Bottle Elect Spectrometer	46	01/15/09A	06/03/09	MS_260, XE12717033	XE12717093*											
XE12717024	Final Design Review X-Ray Emission Spectrometer	0	01/28/09A	01/28/09A	XE12717014	XE12717034											
XE12717081	Fab/Delvr Vacuum & Motion	37	01/28/09A	05/21/09	XE12717041	XE12717101*											
XE12717054	Dev Software X-Ray Emission Spectrometer	58	03/02/09A	06/19/09	MS_260, XE12717034	XE12717094*											
XE12717064	Prepare Docs X-Ray Emission Spectrometer	58	03/02/09A	06/19/09	MS_260, XE12717034	XE12717094*											
XE12717084	Fab/Delvr X-Ray Emission Spectrometer	53	03/23/09A	06/12/09	XE12717044	XE12717104*											
XE12717082	Fab/Delvr Gas Jet System	56	03/26/09A	06/17/09	XE12717042	XE12717102*											
XE12717083	Fab/Delvr Mag Bottle Elect Spectrometer	56	03/26/09A	06/17/09	XE12717043	XE12717103*											
1.06.02.07.17.01 Vacuum & Motion																	
XE12717031	COMP: FDR for Diagnostics Vacuum & Motion	0		12/05/08A	XE12717021	XE12717041, XE12717051, XE12717061											
XE12717041	Procure Vacuum & Motion	0	01/02/09A	03/12/09A	XE12717031	XE12717081											
XE12717091	AVAIL: Diagnostics Vacuum & Motion Software	0		05/21/09	XE12717051*, XE12717061*	MS3_XT075, XE1730498*											
XE12717101	AVAIL: Diagnostics Vacuum & Motion Hrdwr	0		05/21/09	XE12717081*	MS3_XE065, MS3_XT075, XE1730498*, XE1740518											
1.06.02.07.17.02 Gas Jet System																	
XE12717032	COMP: FDR for Gas Jet System	0		01/14/09A	XE12717022	XE12717042, XE12717052, XE12717062											
XE12717042	Procure Gas Jet System	0	01/15/09A	03/25/09A	XE12717032	XE12717082											
XE12717092	AVAIL: Gas Jet System Software	0		06/03/09	XE12717052*, XE12717062*	XE1740518											
XE12717102	AVAIL: Gas Jet System Hrdwr	0		06/17/09	XE12717082*	XE1740518											
1.06.02.07.17.03 Mag Bottle Electr Spectr																	
XE12717033	COMP: FDR for Mag Bottle Elect Spectrometer	0		01/14/09A	XE12717023	XE12717043, XE12717053, XE12717063											
XE12717043	Procure Mag Bottle Elect Spectrometer	0	01/15/09A	03/25/09A	XE12717033	XE12717083											
XE12717093	AVAIL: Mag Bottle Elect Spectrometer Software	0		06/03/09	XE12717053*, XE12717063*	XE1740518											
XE12717103	AVAIL: Mag Bottle Elect Spectrometer Hrdwr	0		06/17/09	XE12717083*	XE1740518											
1.06.02.07.17.04 X-Ray Emission Spectr.																	
XE12717044	Procure X-Ray Emission Spectrometer	0	01/30/09A	03/20/09A	XE12717034	XE12717084											
XE12717034	COMP: FDR for X-Ray Emission Spectrometer	0		01/30/09A	XE12717024	XE12717044, XE12717054, XE12717064											
XE12717104	AVAIL: X-Ray Emission Spectr. Hrdwr	0		06/12/09	XE12717084*	XE1721130											
XE12717094	AVAIL: X-Ray Emission Spectr. Software	0		06/19/09	XE12717054*, XE12717064*	XE1721130											

Activity ID	Activity Description	Rem Dur	Early Start	Early Finish	Predecessors	Successors	FY08			FY09			FY10					
1.06.02.07.18 Total Power Measurement																		
XE12718010	Design Total Pwr Measurement	0	10/02/08A	03/05/09A	MS_260	XE12718020												
XE12718030	COMP: FDR for Total Pwr Measurement	0		03/06/09A	XE12718020	XE12718040, XE12718050, XE12718060												
XE12718040	Procure Total Pwr Measurement	13	03/09/09A	04/17/09	XE12718030	XE12718070*												
XE12718050	Dev Software Total Pwr Measurement	63	03/09/09A	06/26/09	XE12718030	XE12718090*												
XE12718060	Prepare Docs Total Pwr Measurement	63	03/09/09A	06/26/09	XE12718030	XE12718090*												
XE12718020	Final Design Review Total Pwr Measurement	0		03/06/09A	XE12718010	XE12718030												
XE12718070	COMP: AWARD: Total Pwr Measurement	0		04/17/09	XE12718040*	XE12718080*												
XE12718080	Fab/Delvr Total Pwr Measurement	60	04/20/09	07/13/09	XE12718070*	XE12718100*												
XE12718090	AVAIL: Total Pwr Measurement Software	0		06/26/09	XE12718050*, XE12718060*	XE1740518												
XE12718100	AVAIL: Total Pwr Measurement Hrdwr	0		07/13/09	XE12718080*	XE1740518*												
1.06.02.08 AMOS Particle Imaging Controls																		
1.06.02.08.01 AMOS Particle Imaging Controls																		
XE62810105	Develop AMOS Controls ICDs	0	08/01/08A	09/02/08A	XE_RB	XE62810125												
XE62810107	RQRD: AMOS Experiment 2 Requirements	0	08/15/08A		XE1714005	XE62810110												
XE62810123	RQRD: AMOS Experiment 2 Device List/Use Cases	0	08/15/08A		XE1714005	XE62810125												
XE62810137	RQRD: AMOS Experiment 2 Final Device List	0	08/15/08A		XE1714005	XE62810130												
XE62810110	Controls AMOS Conceptual Design	0	08/15/08A	08/28/08A	XE62810107	XE62810115												
XE62810115	Conceptual Design Review (CDR)	0	08/28/08A	09/02/08A	XE62810110	XE62810120												
XE62810125	Controls AMOS Preliminary Design	0	09/02/08A	09/15/08A	XE62810105, XE62810120, XE62810123	XE62810130												
XE62810120	COMP: Conceptual Design Review (CDR)	0		09/02/08A	XE62810115	XE62810125												
XE62810130	Preliminary Design Review (PDR)	0	09/16/08A	09/24/08A	XE62810125, XE62810137	XE62810135, XE62810155												
XE62810155	Controls AMOS Prototype Development	0	09/26/08A	09/29/08A	MS_260, XE62810130, XE62810135	XE62810160												
XE62810135	COMP: Preliminary Design Review (PDR)	0		10/01/08A	XE62810130	XE62810155												
XE62810160	COMP: AMOS Prototype	0		10/02/08A	XE62810155	PM_LOE												
1.06.02.08.02 AMOS Particle Imaging Software																		
XE62820105	X2 Particle Imaging Software	0	09/29/08A	09/30/08A	XE62820100	XE62820110												
XE62820100	Start: X2 Particle Imaging	0	10/01/08A	10/01/08A	MS_260	XE62820105												
XE62820110	COMP: X2 Particle ImagingSoftware	0		10/01/08A	XE62820105	PM_LOE												

Activity ID	Activity Description	Rem Dur	Early Start	Early Finish	Predecessors	Successors	FY08			FY09			FY10			
1.06.02.10 Global Controls System																
1.06.02.10.01 Network																
XE221_0162	Purchase: Network Fibers (FEE/NEH)	0	02/01/08A	05/28/08A	XE_RB	XE221_0170										
XE221_0170	RCV: Network Fibers (FEE/NEH)	0	03/14/08A	08/01/08A	XE221_0162	XE221_0182										
XE221_0105	Develop Controls Network ICDs	0	03/18/08A	08/01/08A	XE1270110	XE221_0115										
XE221_0110	Controls Network Conceptual Design	0	03/18/08A	08/04/08A	XE1270110	XE221_0115										
XE221_0182	AVAIL: Network Fibers - NEH	0		05/28/08A	XE221_0170	S8X7_NH061										
XE221_0120	COMP: Conceptual Design Review (CDR) - Network	0		08/18/08A	XE221_0115	XE221_0125										
XE221_0125	Controls Network Preliminary Design	0	08/19/08A	09/18/08A	XE221_0120	XE221_0130										
XE221_0130	Preliminary Design Review (PDR)	0	09/19/08A	09/25/08A	XE221_0125	XE221_0135										
XE221_0135	COMP: Preliminary Design Review (PDR) - Network	0		09/25/08A	XE221_0130	MS3_XE050, XE221_0140, XE221_0160, XE221_0161,										
XE221_0160	Purchase: 6509 Switches/Routers - NEH	0	09/26/08A	09/30/08A	XE221_0135	XE221_0165										
XE221_0191	Purchase: 6509 Switches/Routers (2) - NEH	0	09/26/08A	01/02/09A	XE221_0135	XE221_0167										
XE221_0165	RCV: 6509 Switches/Routers - NEH	0	09/26/08A	01/05/09A	XE221_0160	XE221_0180, XE221_0184										
XE221_0140	Controls Network Final Design	0	09/26/08A	01/30/09A	XE221_0135	XE221_0145, XE221_0163										
XE221_0163	Purchase: Network Fibers (FEH)	0	02/12/09A	02/12/09A	MS_260, XE221_0140	XE221_0175, XE221_192										
XE221_0167	RCV: 6509 Switches/Routers (2) - NEH	0	02/12/09A	03/02/09A	XE221_0191	XE_30										
XE221_0184	AVAIL: Network Switches - NEH	0		02/12/09A	XE221_0165	MS3_XE060, S8X7_NH080										
XE221_0145	Final Design Review (FDR)	0	03/02/09A	03/06/09A	XE221_0140	XE221_0150										
XE221_192	Purchase: Network Fibers (2) (FEH)	38	03/02/09A	05/22/09	XE221_0163	XE221_0161, XE221_193										
XE221_0161	Purchase: 6509 Switches/Routers - FEH	97	03/02/09A	08/14/09	MS_260, XE221_0135, XE221_192	XE221_0166*										
XE221_0150	COMP: Final Design Review (FDR) - Network	0		03/06/09A	XE221_0145	MS3_XE050, XE221_0155, XE221_0180										
XE221_0180	Controls Network Hardware Development	5	03/09/09A	04/07/09	XE221_0150, XE221_0165											
XE221_0115	Conceptual Design Review (CDR)	0		08/18/08A	XE221_0105, XE221_0110	XE221_0120										
XE221_0175	RCV: Network Fibers (FEH)	1	04/01/09	04/01/09	MS_260, XE221_0163	XE221_0183										
XE221_193	RCV: Network Fibers (2)(FEH)	1	04/01/09	04/01/09	XE221_192	XE_30										
XE221_0155	Controls Network Software Development	40	04/01/09	05/26/09	XE221_0150	XE221_0183										
XE221_0166	RCV: 6509 Switches/Routers - FEH	1	08/17/09	08/17/09	XE221_0161*	XE221_0183*										
XE221_0183	AVAIL: Controls Network - FEH	0		08/17/09	XE221_0155, XE221_0166*, XE221_0175	MS3_XE050, S8X9_FH080										

Activity ID	Activity Description	Rem Dur	Early Start	Early Finish	Predecessors	Successors	FY08			FY09			FY10				
1.06.02.10.02 Machine Protection System																	
XE222_0105	Develop Controls MPS ICDs	0	02/01/08A	04/04/08A	XE_RB	XE222_0130	■										
XE222_0125	Controls MPS Preliminary Design	0	02/01/08A	04/04/08A	XE_RB	XE222_0130	■										
XE222_0130	Preliminary Design Review (PDR)	0	04/07/08A	04/18/08A	XE222_0105, XE222_0125	XE222_0135	■										
XE222_0135	COMP: Preliminary Design Review (PDR) - MPS	0		04/18/08A	XE222_0130	MS3_XE060, XE222_0140	◆										
XE222_0140	Controls MPS Final Design	0	04/21/08A	09/11/08A	XE222_0135	XE222_0145	■										
XE222_0145	Final Design Review (FDR)	0	09/12/08A	09/25/08A	XE222_0140	XE222_0150	■										
XE222_0150	COMP: Final Design Review (FDR) - MPS	0		09/25/08A	XE222_0145	MS3_XE060, XE222_0155, XE222_0160	◆										
XE222_0160	Purchase: 4 Input Nodes	0	09/26/08A	10/23/08A	XE222_0150	XE222_0165	■										
XE222_0155	Controls MPS Software Development	0	10/01/08A	01/05/09A	XE222_0150	XE222_0172	■										
XE222_0165	RCV: 4 Input Nodes	0	01/05/09A	01/05/09A	XE222_0160	XE222_0170	■										
XE222_0170	Hardware Network Development	0	01/06/09A	03/02/09A	XE222_0165	XE222_0172	■										
XE222_0172	AVAIL: Controls MPS	0		03/02/09A	XE222_0155, XE222_0170	MS3_XE060, S8X7_NH080	◆										
1.06.02.10.03 Personnel Protection System																	
XE223_0105	Develop Controls PPS ICDs	0	02/01/08A	04/29/08A	XE_RB	XE223_0130	■										
XE223_0125	Controls PPS Preliminary Design	0	02/01/08A	04/29/08A	XE_RB	XE223_0130	■										
XE223_0130	Preliminary Design Review (PDR)	0	04/29/08A	04/29/08A	XE223_0105, XE223_0125	XE223_0135	■										
XE223_0135	COMP: Preliminary Design Review (PDR) - PPS	0		04/29/08A	XE223_0130	XE223_0140, XE223_0155, XE223_0160, XE223_0170,	◆										
XE223_0160	Purchase: Near Hall Other cable	0	04/30/08A	11/13/08A	XE223_0135	XE223_0165	■										
XE223_0170	Purchase: 12 Near Hall 36PR16AS cable	0	04/30/08A	11/13/08A	XE223_0135	XE223_0175	■										
XE223_0180	Purchase: Near Hall Misc. hardware	0	04/30/08A	11/13/08A	XE223_0135	XE223_0185	■										
XE223_0195	Purchase: Near Hall PLC Control Package	0	04/30/08A	11/13/08A	XE223_0135	XE223_0200	■										
XE223_0140	Controls PPS Final Design	0	04/30/08A	11/14/08A	XE223_0135	XE223_0145	■										
XE223_0255	Purchase: Far Hall BSOIC	0	04/30/08A	01/20/09A	XE223_0135	XE223_0260	■										
XE223_0155	Controls PPS Software Development	17	04/30/08A	04/23/09	XE223_0135	XE223_0267*, XE223_0268	■										
XE223_0145	Final Design Review (FDR)	0	11/17/08A	12/16/08A	XE223_0140	XE223_0150	■										
XE223_0150	COMP: Final Design Review (FDR) - PPS	0		12/16/08A	XE223_0145	XE223_0205, XE223_0265, XE223_0266	◆										
XE223_0205	Purchase: Near Hall BSOIC	0	12/17/08A	01/20/09A	XE223_0150	XE223_0210, XE223_0215	■										
XE223_0215	Purchase: Far Hall Other cable	0	01/21/09A	01/21/09A	XE223_0135, XE223_0205	XE223_0220, XE223_0225	■										
XE223_0225	Purchase: Far Hall 36PR16AS cable	0	01/21/09A	01/21/09A	XE223_0135, XE223_0215	XE223_0230, XE223_0235	■										

Activity ID	Activity Description	Rem Dur	Early Start	Early Finish	Predecessors	Successors	FY08			FY09			FY10				
1.06.02.10.03 Personnel Protection System																	
XE223_0235	Purchase: Far Hall Misc. hardware	0	01/21/09A	01/21/09A	XE223_0135, XE223_0225	XE223_0240, XE223_0245											
XE223_0245	Purchase: Far Hall PLC Control Package	0	01/21/09A	01/21/09A	XE223_0135, XE223_0235	XE223_0165, XE223_0250											
XE223_0250	RCV: Far Hall PLC Control Package	0	01/21/09A	01/21/09A	XE223_0245	XE223_0266											
XE223_0260	RCV: Far Hall BSOIC	0	01/21/09A	01/21/09A	XE223_0255	XE223_0266											
XE223_0265	PPS Hardware Development (NEH)	8	02/02/09A	04/10/09	XE223_0150, XE223_0165, XE223_0175, XE223_0185,	XE223_0267											
XE223_0165	RCV: Near Hall Other cable	0	02/25/09A	02/25/09A	XE223_0160, XE223_0245	XE223_0175, XE223_0265											
XE223_0175	RCV: 12 Near Hall 36PR16AS cable	0	02/25/09A	02/25/09A	XE223_0165, XE223_0170	S8Z1_PB060, XE223_0185, XE223_0265											
XE223_0185	RCV: Near Hall Misc. hardware	0	02/25/09A	02/25/09A	XE223_0175, XE223_0180	XE223_0200, XE223_0265											
XE223_0200	RCV: Near Hall PLC Control Package	0	02/25/09A	02/25/09A	XE223_0185, XE223_0195	XE223_0265											
XE223_0210	RCV: Near Hall BSOIC	0	02/25/09A	02/25/09A	XE223_0205	XE223_0265											
XE223_0220	RCV: Far Hall Other cable	1	04/01/09	04/01/09	XE223_0215	XE223_0266*											
XE223_0230	RCV: Far Hall 36PR16AS cable	1	04/01/09	04/01/09	XE223_0225	XE223_0266*											
XE223_0240	RCV: Far Hall Misc. hardware	1	04/01/09	04/01/09	XE223_0235	XE223_0266*											
XE223_0266	PPS Hardware Development (FEH)	140	04/02/09	10/15/09	XE223_0150, XE223_0220*, XE223_0230*, XE223_0240*, XE223_0155*, XE223_0265	XE223_0268*											
XE223_0267	AVAIL: Controls PPS (NEH)	0		04/23/09		MS3_UN025, S8Z1_PB090											
XE223_0268	AVAIL: Controls PPS (FEH)	0		10/15/09		MS3_UN025, S8Z1_PB120											
1.06.02.10.04 Laser Safety System (LSS)																	
XE224_0105	Develop Controls LSS ICDS	0	02/01/08A	03/03/08A	XE_RB	XE224_0115											
XE224_0110	Controls LLS Conceptual Design	0	02/01/08A	03/03/08A	XE_RB	XE224_0115											
XE224_0115	Conceptual Design Review (CDR)	0	03/04/08A	03/24/08A	XE224_0105, XE224_0110	XE224_0120											
XE224_0120	COMP: Conceptual Design Review (CDR)	0		03/24/08A	XE224_0115	XE224_0125											
XE224_0125	Controls Laser LSS Preliminary Design	0	03/25/08A	05/21/08A	XE224_0120	XE224_0130											
XE224_0135	COMP: Preliminary Design Review (PDR)	0		05/28/08A	XE224_0130	XE224_0140											
XE224_0140	Controls LSS Final Design	0	06/02/08A	08/29/08A	XE224_0135	XE224_0145											
XE224_0145	Final Design Review (FDR)	0	09/02/08A	11/03/08A	XE224_0140	XE224_0150											
XE224_0150	COMP: Final Design Review (FDR)	0		11/03/08A	XE224_0145	XE224_0155, XE224_0160, XE224_0170, XE224_0180,											
XE224_0155	Controls LSS Software Development	0	11/04/08A	12/03/08A	XE224_0150	XE224_0232											
XE224_0160	Purchase: Crate/CPU/EVR	0	11/04/08A	12/10/08A	XE224_0150	XE224_0165											
XE224_0170	Purchase: 4PR16AS cable	0	11/04/08A	12/10/08A	XE224_0150	XE224_0175											

Activity ID	Activity Description	Rem Dur	Early Start	Early Finish	Predecessors	Successors	FY08			FY09			FY10				
1.06.02.10.04 Laser Safety System (LSS)																	
XE224_0180	Purchase: 36PR16AS cable	0	11/04/08A	12/10/08A	XE224_0150	XE224_0185					■						
XE224_0190	Purchase: Hookup wire	0	11/04/08A	12/10/08A	XE224_0150	XE224_0195					■						
XE224_0200	Purchase: EO buttons	0	11/04/08A	12/10/08A	XE224_0150	XE224_0205					■						
XE224_0210	Purchase: Laser Shutters & controllers	0	11/04/08A	12/10/08A	XE224_0150	XE224_0215					■						
XE224_0220	Purchase: PLC Control Package	0	11/04/08A	12/10/08A	XE224_0150	XE224_0225					■						
XE224_0165	RCV: Crate/CPU/EVR	0	12/15/08A	12/15/08A	XE224_0160	XE224_0230											
XE224_0175	RCV: 4PR16AS cable	0	12/15/08A	12/15/08A	XE224_0170	XE224_0230											
XE224_0185	RCV: 36PR16AS cable	0	12/15/08A	12/15/08A	XE224_0180	XE224_0230											
XE224_0195	RCV: Hookup wire	0	12/15/08A	12/15/08A	XE224_0190	XE224_0230											
XE224_0205	RCV: EO buttons	0	12/15/08A	12/15/08A	XE224_0200	XE224_0230											
XE224_0215	RCV: Laser Shutters & controllers	0	12/15/08A	12/15/08A	XE224_0210	XE224_0230											
XE224_0225	RCV: PLC Control Package	0	12/15/08A	12/15/08A	XE224_0220	XE224_0230											
XE224_0230	LSS Hardware Development	1	01/02/09A	04/01/09	XE224_0150, XE224_0165, XE224_0175, XE224_0185,	XE224_0232*											
XE224_0130	Preliminary Design Review (PDR)	0		05/28/08A	XE224_0125	XE224_0135											
XE224_0232	AVAIL: Controls LSS	0		04/01/09	XE224_0155, XE224_0230*	MS3_XE060, S8X7_NH090											
1.06.02.10.05 User Safeguards																	
XE225_0001	START: User Safeguard Near Hall	0	02/01/08A		XE_RB	XE225_0100											
XE225_0100	Specification Near Hall - User Safeguards	0	02/01/08A	06/23/08A	XE225_0001	XE225_0105											
XE225_0105	Design Near Hall - User Safeguards	0	06/24/08A	11/19/08A	XE225_0100	XE225_0110, XE225_0115											
XE225_0300	START: User Safeguard Far Hall	0	11/03/08A		MS_260	XE225_0305											
XE225_0305	Specification Far Hall - User Safeguards	0	11/03/08A	12/02/08A	XE225_0300	XE225_0310											
XE225_0115	Safety Review Near Hall - User Safeguards	0	11/20/08A	12/05/08A	XE225_0105	XE225_0110											
XE225_0120	Prep Bid Pkg Near Hall Alarms/Signs - User Safeg	0	01/02/09A	01/15/09A	XE225_0110	XE225_0135											
XE225_0125	Prep Bid Pkg NHall Interlock - User Safeguards	0	01/02/09A	01/15/09A	XE225_0110	XE225_0140											
XE225_0130	Prepare Near Hall Bid Pkg Detectors - User Safeg	0	01/02/09A	01/15/09A	XE225_0110	XE225_0145											
XE225_0310	Design Far Hall - User Safeguards	0	01/02/09A	02/24/09A	XE225_0305	XE225_0315, XE225_0320											
XE225_0110	COMP: Near Hall Design - User Safeguards	0		01/02/09A	XE225_0105, XE225_0115	XE225_0120, XE225_0125, XE225_0130											
XE225_0135	Bid Process Near Hall Alarms/Signs - User Safegu	0	01/16/09A	02/24/09A	XE225_0120	XE225_0150											
XE225_0140	Bid Process NHall Interlock - User Safeguards	0	01/16/09A	02/24/09A	XE225_0125	XE225_0155											

Activity ID	Activity Description	Rem Dur	Early Start	Early Finish	Predecessors	Successors	FY08			FY09			FY10				
1.06.02.10.05 User Safeguards																	
XE225_0145	Bid Process Near Hall Detectors - User Safeguard	0	01/16/09A	02/24/09A	XE225_0130	XE225_0160											
XE225_0320	Safety Review Far Hall - User Safeguards	0	02/24/09A	02/24/09A	XE225_0310	XE225_0315											
XE225_0150	AWARD: Contract Near Hall Alarms/Signs -User Sa	0	02/25/09A	03/02/09A	XE225_0135	XE225_0165											
XE225_0155	AWARD: Contract NHall Interlock - User Safeguar	0	02/25/09A	03/02/09A	XE225_0140	XE225_0170											
XE225_0160	AWARD: Contract Near Hall Detectors - User Safe	0	02/25/09A	03/02/09A	XE225_0145	XE225_0175											
XE225_0325	Prep Bid Pkg Far Hall Alarms/Signs - User Safegu	0	03/02/09A	03/13/09A	XE225_0315	XE225_0340											
XE225_0330	Prep Bid Pkg Far Hall Interlock - User Safeguard	0	03/02/09A	03/13/09A	XE225_0315	XE225_0345											
XE225_0335	Prepare Far Hall Bid Pkg Detectors - User Safegu	0	03/02/09A	03/13/09A	XE225_0315	XE225_0350											
XE225_0165	Vendor Fab/Ship Near Hall Alarm/Sign - User Safe	19	03/03/09A	04/27/09	XE225_0150	XE225_0180*											
XE225_0170	Vendor Ship Near Hall Intrlock-User Safeguards	19	03/03/09A	04/27/09	XE225_0155	XE225_0185*											
XE225_0175	Vendor Fab/Ship Near Hall Detectors - User Safeg	19	03/03/09A	04/27/09	XE225_0160	XE225_0190*											
XE225_0315	COMP: Far Hall Design - User Safeguards	0		03/31/09	XE225_0310, XE225_0320	XE225_0325, XE225_0330, XE225_0335											
XE225_0340	Bid Process Far Hall Alarms/Signs - User Safegua	40	04/01/09	05/26/09	XE225_0325	XE225_0355*											
XE225_0345	Bid Process Far Hall Interlock - User Safeguards	40	04/01/09	05/26/09	XE225_0330	XE225_0360*											
XE225_0350	Bid Process Far Hall Detectors - User Safeguards	40	04/01/09	05/26/09	XE225_0335	XE225_0365*											
XE225_0180	RCV: Near Hall Alarms/Signs - User Safeguards	0		04/27/09	XE225_0165*	XE225_0200*											
XE225_0185	RCV: Near Hall Interlock -User Safeguards	0		04/27/09	XE225_0170*	XE225_0200*											
XE225_0190	RCV: Near Hall Detectors - User Safeguards	0		04/27/09	XE225_0175*	XE225_0200*											
XE225_0200	AVAIL: Near Hall User Safeguard	0		04/27/09	XE225_0180*, XE225_0185*, XE225_0190*	MS3_XE060, S8X7_NH080											
XE225_0355	AWARD: Contract Far Hall Alarms/Signs -User Saf	1	05/27/09	05/27/09	XE225_0340*	XE225_0370*											
XE225_0360	AWARD: Contract Far Hall Interlock - User Safegu	1	05/27/09	05/27/09	XE225_0345*	XE225_0375*											
XE225_0365	AWARD: Contract Far Hall Detectors - User Safeg	1	05/27/09	05/27/09	XE225_0350*	XE225_0380*											
XE225_0370	Vendor Fab/Ship Far Hall Alarm/Sign - User Safeg	40	05/28/09	07/23/09	XE225_0355*	XE225_0385*											
XE225_0375	Vendor Ship Far Hall Contain/Intrck-User Safegu	40	05/28/09	07/23/09	XE225_0360*	XE225_0390*											
XE225_0380	Vendor Fab/Ship Far Hall Detectors - User Safegu	40	05/28/09	07/23/09	XE225_0365*	XE225_0395*											
XE225_0385	RCV: Far Hall Alarms/Signs - User Safeguards	0		07/23/09	XE225_0370*	XE225_0405*											
XE225_0390	RCV: Far Hall Containment/Interlock -User Safeg	0		07/23/09	XE225_0375*	XE225_0405*											
XE225_0395	RCV: Far Hall Detectors - User Safeguards	0		07/23/09	XE225_0380*	XE225_0405*											
XE225_0405	AVAIL: Far Hall User Safeguards	0		07/23/09	XE225_0385*, XE225_0390*, XE225_0395*	MS3_XE060, S8X9_FH080											

Activity ID	Activity Description	Rem Dur	Early Start	Early Finish	Predecessors	Successors	FY08			FY09			FY10				
1.06.02.10.06 Timing System																	
XE226_0105	Develop Controls Timing System ICDs	0	06/11/08A	09/10/08A	XE1270125	XE226_0130											
XE226_0125	Controls Timing System Preliminary Design	0	06/11/08A	09/10/08A	XE1270125	XE226_0130											
XE226_0135	COMP: Preliminary Design Review (PDR)	0		09/17/08A	XE226_0130	XE226_0140, XE226_0160, XE226_0170											
XE226_0140	Controls Timing System Final Design	0	09/18/08A	10/15/08A	XE226_0135	XE226_0145											
XE226_0160	Purchase: 2 Crate/CPU	0	09/18/08A	10/15/08A	XE226_0135	XE226_0165											
XE226_0170	Purchase: 4 EVRs	0	09/18/08A	10/15/08A	XE226_0135	XE226_0175											
XE226_0145	Final Design Review (FDR)	0	10/16/08A	10/22/08A	XE226_0140	XE226_0150											
XE226_0150	COMP: Final Design Review (FDR)	0		10/22/08A	XE226_0145	XE226_0155, XE226_0180											
XE226_0155	Controls Timing System Software Development	17	10/23/08A	04/23/09	XE226_0150	XE226_0182											
XE226_0165	RCV: 2 Crate/CPU	0	11/13/08A	11/13/08A	XE226_0160	XE226_0180											
XE226_0175	RCV: 4 EVRs	0	11/13/08A	11/13/08A	XE226_0170	XE226_0180											
XE226_0180	Controls Timing System Hardware Development	33	11/14/08A	05/15/09	XE226_0150, XE226_0165, XE226_0175	XE226_0182*											
XE226_0130	Preliminary Design Review (PDR)	0		09/17/08A	XE226_0105, XE226_0125	XE226_0135											
XE226_0182	AVAIL: Timing System	0		05/15/09	XE226_0155, XE226_0180*	MS3_XE060, S8X7_NH080											
1.06.02.10.07 Data Management																	
XE12070100	Prepare Requirements	0	06/11/08A	08/15/08A	XE1270125	XE12070125											
XE12070105	Prepare Data Management ICD	0	06/11/08A	08/15/08A	XE1270125	XE12070125											
XE12070110	Prepare Requirements	0	06/11/08A	08/15/08A	XE1270125	XE12070125											
XE12070115	Prepare Final Computing Hardware List for Ph. 1	0	06/11/08A	08/15/08A	XE1270125	XE12070125											
XE12070120	Prepare Final Computing Hardware List for Ph. 2	0	06/11/08A	08/15/08A	XE1270125	XE12070125											
XE12070125	Preliminary Design for Data Management	0	08/18/08A	09/11/08A	XE12070100, XE12070105, XE12070110, XE12070115,	XE12070130											
XE12070130	Preliminary Design Review (PDR)	0	09/12/08A	09/18/08A	XE12070125	XE12070135											
XE12070200	Design Data Storage	0	09/19/08A	10/16/08A	XE12070135, XE1270125	XE12070205											
XE12070150	Develop Software for Develop Test Setup	0	09/19/08A	12/15/08A	XE12070135	XE12070215											
XE12070600	Design Data Maintenance	0	09/19/08A	01/23/09A	XE12070135	XE12070605											
XE12070300	Design Data Movement	13	09/19/08A	04/17/09	XE12070135, XE1270125	XE12070305*											
XE12070400	Design Data Reduction	13	09/19/08A	04/17/09	XE12070135	XE12070405*											
XE12070205	Final Design Review Data Storage	0	10/17/08A	10/23/08A	XE12070200	XE12070210											
XE12070140	Procure Hrdwr for Develop Test Setup	0	10/17/08A	01/05/09A	XE12070135	XE12070145											

Activity ID	Activity Description	Rem Dur	Early Start	Early Finish	Predecessors	Successors	FY08			FY09			FY10			
1.06.02.10.07 Data Management																
XE12070220	Dev Software Data Storage	13	10/24/08A	04/17/09	XE12070210	XE12070240										
XE12070225	Prepare Docs Data Storage	22	11/03/08A	04/30/09	XE12070210	XE12070240										
XE12070605	Final Design Review Data Maintenance	0	01/26/09A	01/30/09A	XE12070600	XE12070610										
XE12070235	Fab/Delvr Data Storage	38	02/24/09A	05/22/09	XE12070215	XE12070240*										
XE12070620	Dev Software Data Maintenance	58	02/24/09A	06/19/09	XE12070610	XE12070640										
XE12070625	Prepare Docs Data Maintenance	58	02/24/09A	06/19/09	XE12070610	XE12070640										
XE12070635	Fab/Delvr Data Maintenance	60	04/13/09	07/06/09	XE12070615*	XE12070640*										
XE12070305	Final Design Review Data Movement	5	04/20/09	04/24/09	XE12070300*	XE12070310*										
XE12070405	Final Design Review Data Reduction	5	04/20/09	04/24/09	XE12070400*	XE12070410*										
XE12070320	Dev Software Data Movement	80	04/27/09	08/17/09	XE12070310*	XE12070340										
XE12070325	Prepare Docs Data Movement	80	04/27/09	08/17/09	XE12070310*	XE12070340										
XE12070420	Dev Software Data Reduction	80	04/27/09	08/17/09	XE12070410*	XE12070440										
XE12070425	Prepare Docs Data Reduction	80	04/27/09	08/17/09	XE12070410*	XE12070440										
XE12070245	Performance Improvement Data Storage	200	05/25/09	03/03/10	XE12070240*	XE_LOE										
XE12070335	Fab/Delvr Data Movement	60	06/08/09	08/31/09	XE12070315*	XE12070340*										
XE12070435	Fab/Delvr Data Reduction	60	06/08/09	08/31/09	XE12070415*	XE12070440*										
XE12070645	Performance Improvement	200	07/07/09	04/14/10	XE12070640*	XE_LOE										
XE12070345	Performance Improvement	200	09/01/09	06/09/10	XE12070340*	XE_LOE										
XE12070445	Performance Improvement	200	09/01/09	06/09/10	XE12070440*	XE12070250*, XE_LOE										
XE12070260	Fab/Delvr Data Storage (2)	40	10/13/09	12/07/09	XE12070250*	XE_30*										
1.06.02.10.07.01 Requirements, Design, Test Setup																
XE12070135	COMP: Preliminary Design Review (PDR) - Data Mgt	0		09/18/08A	XE12070130	XE12070140, XE12070150, XE12070200, XE12070300,										
XE12070145	RCV: Hardware for Develop Test Setup	0		12/02/08A	XE12070140	XE12070215										
1.06.02.10.07.02 Data Storage																
XE12070210	COMP: FDR for Data Storage	0		11/03/08A	XE12070205	XE12070215, XE12070220, XE12070225										
XE12070215	Procure Data Storage	4	12/16/08A	04/06/09	XE12070145, XE12070150, XE12070210	XE12070235, XE12070250										
XE12070240	COMP: Data Storage System	0		05/22/09	XE12070220, XE12070225, XE12070235*	XE12070245*, XE254_2160										
XE12070250	Procure Data Storage (2)	30	09/01/09	10/12/09	XE12070215, XE12070445*	XE12070260*										
1.06.02.10.07.03 Data Movement																
XE12070310	COMP: FDR for Data Movement	0		04/24/09	XE12070305*	XE12070315*, XE12070320*, XE12070325*										

Activity ID	Activity Description	Rem Dur	Early Start	Early Finish	Predecessors	Successors	FY08			FY09			FY10			
1.06.02.10.07.03 Data Movement																
XE12070315	Procure Data Movement	30	04/27/09	06/05/09	XE12070310*	XE12070335*										
XE12070340	COMP: Data Movement System	0		08/31/09	XE12070320, XE12070325, XE12070335*	XE12070345*										
1.06.02.10.07.04 Data Reduction																
XE12070410	COMP: FDR for Data Reduction	0		04/24/09	XE12070405*	XE12070415*, XE12070420*, XE12070425*										
XE12070415	Procure Data Reduction	30	04/27/09	06/05/09	XE12070410*	XE12070435*										
XE12070440	COMP: Data Reduction	0		08/31/09	XE12070420, XE12070425, XE12070435*	XE12070445*										
1.06.02.10.07.06 Data Maintenance																
XE12070610	COMP: FDR for Data Maintenance	0		01/30/09A	XE12070605	XE12070615, XE12070620, XE12070625										
XE12070615	Procure Data Maintenance	8	03/02/09A	04/10/09	XE12070610	XE12070635*										
XE12070640	COMP: Data Maintenance	0		07/06/09	XE12070620, XE12070625, XE12070635*	XE12070645*										
1.06.02.10.08 Global Cabling & Racks																
XE228_0050	Purchase: Development Rack	0	02/01/08A	08/01/08A	XE_RB	XE228_0060										
XE228_0060	RCV: Development Rack	0	02/15/08A	09/05/08A	XE228_0050	XE228_0160										
XE228_0105	Develop Cabling & Racks ICDs	0	06/11/08A	08/12/08A	XE1270125	XE228_0115										
XE228_0110	Cabling & Racks Conceptual Design	0	06/11/08A	08/12/08A	XE1270125	XE228_0115										
XE228_0115	Conceptual Design Review (CDR)	0	08/13/08A	08/26/08A	XE228_0105, XE228_0110	XE228_0120										
XE228_0125	Cabling & Racks Preliminary Design	0	08/27/08A	09/05/08A	XE228_0120	XE228_0130										
XE228_0130	Preliminary Design Review (PDR)	0	09/05/08A	09/10/08A	XE228_0125	XE228_0135										
XE228_0120	COMP: CDR for Global Cabling/Racks	0		09/05/08A	XE228_0115	XE228_0125										
XE228_0135	COMP: PDR for Global Cabling/Racks	0		09/10/08A	XE228_0130	XE228_0140, XE228_0160										
XE228_0140	Cabling & Racks Final Design	0	09/11/08A	09/15/08A	XE228_0135	XE228_0145										
XE228_0145	Final Design Review (FDR)	0	09/16/08A	09/22/08A	XE228_0140	XE228_0150										
XE228_0160	Purchase: Racks/Remote terminal servers/ AC	0	09/16/08A	09/24/08A	MS_260, XE228_0060, XE228_0135	XE228_0165										
XE228_0150	COMP: Final Design Review (FDR)	0		09/26/08A	XE228_0145	XE228_0170										
XE228_0165	RCV: Racks/Remote terminal servers/ AC	0	11/03/08A	03/31/09	XE228_0160	XE228_0170										
XE228_0172	AVAIL: Cables & Racks	0		02/27/09A	XE228_0170	MS3_XT075, S8X7_NH060										
XE228_0170	Cabling & Racks Hardware Development	0	03/03/09A	03/31/09	XE228_0150, XE228_0165	XE228_0172										
1.06.02.10.09 Laser Timing																
XE229_0100	START: Laser Timing System	0	03/03/08A		XE_RB	XE229_0105, XE229_0110										
XE229_0105	Develop Controls Laser Timing System ICDs	0	03/03/08A	03/28/08A	XE229_0100	XE229_0115										

Activity ID	Activity Description	Rem Dur	Early Start	Early Finish	Predecessors	Successors	FY08			FY09			FY10				
1.06.02.10.09 Laser Timing																	
XE229_0110	Controls Laser Timing System Conceptual Design	0	03/03/08A	03/28/08A	XE229_0100	XE229_0115	■										
XE229_0115	Conceptual Design Review (CDR)	0	03/31/08A	04/11/08A	XE229_0105, XE229_0110	XE229_0120											
XE229_0120	COMP: Conceptual Design Review (CDR)	0		04/11/08A	XE229_0115	XE229_0125	◆										
XE229_0125	Controls Timing System Preliminary Design	0	04/14/08A	05/09/08A	XE229_0120	XE229_0130	■										
XE229_0135	COMP: Prelim Design Review (PDR) - Laser Timing	0		05/23/08A	XE229_0130	XE229_0140	◆										
XE229_0140	Controls Timing System Final Design	0	05/27/08A	10/30/08A	XE229_0135	XE229_0145, XE229_0160	■	■	■								
XE229_0145	Final Design Review (FDR)	0	01/02/09A	01/15/09A	XE229_0140	XE229_0150					■						
XE229_0160	Procure: Laser Timing Hardware	0	01/02/09A	01/30/09A	XE229_0140	XE229_0161, XE229_0162, XE229_0163, XE229_0200					■						
XE229_0150	COMP: Final Design Review (FDR)	0		01/15/09A	XE229_0145	XE229_0155, XE229_0180					◆						
XE229_0155	Controls Timing System Software Development	0	01/16/09A	02/23/09A	XE229_0150	XE229_0182					■						
XE229_0161	RCV: 4 Crate/CPU/EVR	0	02/24/09A	02/24/09A	XE229_0160	XE229_0180											
XE229_0162	RCV: 1 First article laser timing	0	02/24/09A	02/24/09A	XE229_0160	XE229_0180											
XE229_0163	RCV: 32 Fiber (1)	1	02/24/09A	04/01/09	XE229_0160	XE229_0180*					■						
XE229_0130	Preliminary Design Review (PDR)	0		05/23/08A	XE229_0125	XE229_0135											
XE229_0180	Controls Timing System Hardware Development	80	04/02/09	07/23/09	XE229_0150, XE229_0161, XE229_0162, XE229_0163*	XE229_0182*					■						
XE229_0182	AVAIL: Laser Timing System	0		07/23/09	XE229_0155, XE229_0180*	MS3_XT075, S8X7_NH090					◆						
XE229_0200	Procure: 32 Fiber (2)	40	08/03/09*	09/25/09	XE229_0160	XE229_0210*						■					
XE229_0210	RCV: 32 Fiber (2)	1	09/28/09	09/28/09	XE229_0200*	XE_30											
XE12109011	LBL Timing Procurement (FY10)	210	10/01/09*	07/26/10	XE2240020	XE_LOE										■	■
1.06.02.10.11 Common Hutch Controls																	
XE12110100	Design Workstation	0	06/11/08A	09/04/08A	XE1270125	XE12110105	■										
XE12110200	Design Photon Beam Control	0	06/11/08A	09/04/08A	XE1270125	XE12110205	■										
XE12110300	Design Beam Line Interface (120 Hz Data)	0	06/11/08A	09/04/08A	XE1270125	XE12110305	■										
XE12110400	Design Local Hutch Controls	0	06/11/08A	09/04/08A	XE1270125	XE12110405	■										
XE12110700	Design Pumping Section	0	08/14/08A	03/09/09A	XE1270125	XE12110705					■						
XE12110800	Design Focusing Optics	0	08/14/08A	03/09/09A	XE1270125	XE12110805					■						
XE12110105	Final Design Review Workstation	0	09/05/08A	09/11/08A	XE12110100	XE12110110											
XE12110205	Final Design Review Photon Beam Control	0	09/05/08A	09/11/08A	XE12110200	XE12110210											
XE12110305	Final Design Review Beam Line Interface (120 Hz	0	09/05/08A	09/11/08A	XE12110300	XE12110310											

Activity ID	Activity Description	Rem Dur	Early Start	Early Finish	Predecessors	Successors	FY08			FY09			FY10				
1.06.02.10.11 Common Hutch Controls																	
XE12110120	Dev Software Workstation	0	09/12/08A	03/09/09A	XE12110110	XE12110140											
XE12110125	Prepare Docs Workstation	0	09/12/08A	03/09/09A	XE12110110	XE12110140											
XE12110220	Dev Software Photon Beam Control	0	09/12/08A	03/09/09A	XE12110210	XE12110240											
XE12110225	Prepare Docs Photon Beam Control	0	09/12/08A	03/16/09A	XE12110210	XE12110240											
XE12110320	Dev Software Beam Line Interface (120 Hz Data)	0	09/12/08A	03/16/09A	XE12110310	XE12110340											
XE12110325	Prepare Docs Beam Line Interface (120 Hz Data)	0	09/12/08A	03/16/09A	XE12110310	XE12110340											
XE12110420	Dev Software Local Hutch Controls	0	09/12/08A	03/16/09A	XE12110410	XE12110440											
XE12110425	Prepare Docs Local Hutch Controls	0	09/12/08A	03/16/09A	XE12110410	XE12110440											
XE12110135	Fab/Delvr Workstation	0	10/24/08A	03/27/09A	XE12110115	XE12110138											
XE12110335	Fab/Delvr Beam Line Interface (120 Hz Data)	0	10/24/08A	03/27/09A	XE12110315	XE12110338											
XE12110435	Fab/Delvr Local Hutch Controls	0	10/24/08A	03/27/09A	XE12110415	XE12110438											
XE12110235	Fab/Delvr Photon Beam Control	1	11/03/08A	04/01/09	XE12110215	XE12110238*											
XE12110705	Final Design Review Pumping Section	0	12/09/08A	12/15/08A	XE12110700	XE12110710											
XE12110805	Final Design Review Focusing Optics	0	12/10/08A	12/16/08A	XE12110800	XE12110810											
XE12110720	Dev Software Pumping Section	33	12/16/08A	05/15/09	XE12110710	XE12110740											
XE12110725	Prepare Docs Pumping Section	33	12/16/08A	05/15/09	XE12110710	XE12110740											
XE12110820	Dev Software Focusing Optics	33	12/16/08A	05/15/09	XE12110810	XE12110840											
XE12110825	Prepare Docs Focusing Optics	37	01/02/09A	05/21/09	XE12110810	XE12110840											
XE12110735	Fab/Delvr Pumping Section	42	03/09/09A	05/28/09	XE12110715	XE12110738*											
XE12110835	Fab/Delvr Focusing Optics	42	03/09/09A	05/28/09	XE12110815	XE12110838*											
XE12110138	RCV: Workstation	1	04/01/09	04/01/09	XE12110135	XE12110140*											
XE12110338	RCV: Beam Line Interface (120 Hz Data)	1	04/01/09	04/01/09	XE12110335	XE12110340*											
XE12110438	RCV: Local Hutch Controls	1	04/01/09	04/01/09	XE12110435	XE12110440*											
XE12110238	RCV: Photon Beam Control	1	04/02/09	04/02/09	XE12110235*	XE12110240*											
XE12110738	RCV: Pumping Section	1	05/29/09	05/29/09	XE12110735*	XE12110740*											
XE12110838	RCV: Focusing Optics	1	05/29/09	05/29/09	XE12110835*	XE12110840*											
1.06.02.10.11.01 Workstation																	
XE12110110	COMP: FDR for Workstation	0		09/11/08A	XE12110105	XE12110115, XE12110120, XE12110125											
XE12110115	Procure Workstation	0	09/12/08A	10/23/08A	XE12110110	XE12110135											

Activity ID	Activity Description	Rem Dur	Early Start	Early Finish	Predecessors	Successors	FY08			FY09			FY10				
1.06.02.10.11.01 Workstation																	
XE12110140	AVAIL: Workstation System	0		04/01/09	XE12110120, XE12110125, XE12110138*	S8X7_NH080											
1.06.02.10.11.02 Photon Beam Control																	
XE12110210	COMP: FDR for Photon Beam Control	0		09/11/08A	XE12110205	XE12110215, XE12110220, XE12110225											
XE12110215	Procure Photon Beam Control	0	09/12/08A	10/23/08A	XE12110210	XE12110235											
XE12110240	AVAIL: Photon Beam Control System	0		04/02/09	XE12110220, XE12110225, XE12110238*	S8X7_NH080											
1.06.02.10.11.03 Beam Line Processor																	
XE12110310	COMP: FDR for Beam Line Interface (120 Hz Data)	0		09/11/08A	XE12110305	XE12110315, XE12110320, XE12110325											
XE12110315	Procure Beam Line Interface (120 Hz Data)	0	09/12/08A	10/23/08A	XE12110310	XE12110335											
XE12110340	AVAIL: Beam Line Interface (120 Hz Data)	0		04/01/09	XE12110320, XE12110325, XE12110338*	S8X7_NH080											
1.06.02.10.11.04 Local Hutch Controls																	
XE12110405	Final Design Review Local Hutch Controls	0	09/05/08A	09/11/08A	XE12110400	XE12110410											
XE12110410	COMP: FDR for Local Hutch Controls	0		09/11/08A	XE12110405	XE12110415, XE12110420, XE12110425											
XE12110415	Procure Local Hutch Controls	0	09/12/08A	10/23/08A	XE12110410	XE12110435											
XE12110440	AVAIL: Local Hutch Controls System	0		04/01/09	XE12110420, XE12110425, XE12110438*	S8X7_NH080											
1.06.02.10.11.07 Pumping Section																	
XE12110710	COMP: FDR for Pumping Section	0		12/15/08A	XE12110705	XE12110715, XE12110720, XE12110725											
XE12110715	Procure Pumping Section	0	12/16/08A	03/06/09A	XE12110710	XE12110735											
XE12110740	AVAIL: Pumping Section System	0		05/29/09	XE12110720, XE12110725, XE12110738*	S8X7_NH100											
1.06.02.10.11.08 Focusing Optics																	
XE12110810	COMP: FDR for Focusing Optics	0		12/15/08A	XE12110805	XE12110815, XE12110820, XE12110825											
XE12110815	Procure Focusing Optics	0	12/16/08A	03/06/09A	XE12110810	XE12110835											
XE12110840	AVAIL: Focusing Optics System	0		05/29/09	XE12110820, XE12110825, XE12110838*	S8X7_NH100											
1.06.02.10.12 Data Acquisition (DAQ)																	
XE12120100	Prepare Requirements	0	06/11/08A	08/06/08A	XE1270125	XE12120125											
XE12120105	Prepare DAQ ICD	0	06/11/08A	08/06/08A	XE1270125	XE12120125											
XE12120110	Prepare Requirements	0	06/11/08A	08/06/08A	XE1270125	XE12120125											
XE12120115	Prepare Final Device List for Phase 1	0	06/11/08A	08/06/08A	XE1270125	XE12120125											
XE12120120	Prepare Final Device List for Phase 2	0	06/11/08A	08/06/08A	XE1270125	XE12120125											
XE12120500	Design 2D Detector	0	08/01/08A	01/06/09A	XE1270125	XE12120505											
XE12120125	Preliminary Design for DAQ	0	08/07/08A	08/20/08A	XE12120100, XE12120105, XE12120110, XE12120115,	XE12120130											
XE12120130	Preliminary Design Review (PDR)	0	08/21/08A	08/27/08A	XE12120125	XE12120135											

Activity ID	Activity Description	Rem Dur	Early Start	Early Finish	Predecessors	Successors	FY08			FY09			FY10				
1.06.02.10.12 Data Acquisition (DAQ)																	
XE12120140	Procure Hrdwr for Develop Test Setup	0	08/28/08A	11/14/08A	XE12120135	XE12120145											
XE12120150	Develop Software for Test Setup	0	08/28/08A	11/24/08A	XE12120135	XE12120215											
XE12120200	Design DAQ Common	0	08/28/08A	11/24/08A	XE12120135, XE1270125	XE12120205											
XE12120300	Design CE	0	08/28/08A	02/24/09A	XE12120135, XE1270125	XE12120305											
XE12120400	Design CPCI	0	08/28/08A	02/24/09A	XE12120135, XE1270125	XE12120405											
XE12120205	Final Design Review DAQ Common	0	11/25/08A	12/03/08A	XE12120200	XE12120210											
XE12120220	Dev Software DAQ Common	0	12/04/08A	02/24/09A	XE12120210	XE12120240											
XE12120225	Prepare Docs DAQ Common	0	12/04/08A	02/24/09A	XE12120210	XE12120240											
XE12120505	Final Design Review 2D Detector	0	02/25/09A	03/06/09A	XE12120500	XE12120510											
XE12120420	Dev Software CPCI	8	02/25/09A	04/10/09	XE12120410	XE12120440*											
XE12120425	Prepare Docs CPCI	8	02/25/09A	04/10/09	XE12120410	XE12120440*											
XE12120235	Fab/Delvr DAQ Common	38	02/25/09A	05/22/09	XE12120215	XE12120240*											
XE12120320	Dev Software CE	58	02/25/09A	06/19/09	XE12120310	XE12120340											
XE12120325	Prepare Docs CE	58	02/25/09A	06/19/09	XE12120310	XE12120340											
XE12120520	Dev Software 2D Detector	58	02/25/09A	06/19/09	XE12120510	XE12120540*											
XE12120525	Prepare Docs 2D Detector	58	02/25/09A	06/19/09	XE12120510	XE12120540*											
XE12120305	Final Design Review CE	5	04/01/09	04/07/09	XE12120300	XE12120310											
XE12120405	Final Design Review CPCI	5	04/01/09	04/07/09	XE12120400	XE12120410											
XE12120335	Fab/Delvr CE	60	04/13/09	07/06/09	XE12120315*	XE12120340*											
1.06.02.10.12.01 Requirements, Design, Test Setup																	
XE12120135	COMP: Preliminary Design Review (PDR) - DAQ	0		10/01/08A	XE12120130	XE12120140, XE12120150, XE12120200, XE12120300,											
XE12120145	Rcv: Hardware for Develop Test Setup	0		10/14/08A	XE12120140	XE12120215											
1.06.02.10.12.02 DAQ Common																	
XE12120210	COMP: FDR for DAQ Common	0		12/03/08A	XE12120205	XE12120215, XE12120220, XE12120225											
XE12120215	Procure DAQ Common	0	12/04/08A	01/27/09A	XE12120145, XE12120150, XE12120210	XE12120235											
XE12120240	AVAIL: DAQ Common System	0		05/22/09	XE12120220, XE12120225, XE12120235*	MS3_XT075, S8X7_NH100, XE_S16_010, XE_S26_010											
1.06.02.10.12.03 CE																	
XE12120310	COMP: FDR for CE	0		01/13/09A	XE12120305	XE12120315, XE12120320, XE12120325											
XE12120315	Procure CE	8	01/14/09A	04/10/09	XE12120310	XE12120335*											
XE12120340	AVAIL: CE System	0		07/06/09	XE12120320, XE12120325, XE12120335*	XE254_2150											

Activity ID	Activity Description	Rem Dur	Early Start	Early Finish	Predecessors	Successors	FY08			FY09			FY10				
1.06.02.10.12.04 CPCI																	
XE12120410	COMP: FDR for CPCI	0		01/13/09A	XE12120405	XE12120420, XE12120425											
XE12120440	AVAIL: CPCI System	0		04/10/09	XE12120420*, XE12120425*	S8X7_NH080											
1.06.02.10.12.05 2D Detector																	
XE12120510	COMP: FDR for 2D Detector	0		12/11/08A	XE12120505	XE12120520, XE12120525											
XE12120540	AVAIL: 2D Detector System	0		06/19/09	XE12120520*, XE12120525*	XE254_2150											
1.06.02.10.13 Archives																	
XE12130100	Prepare Requirements	0	06/11/08A	08/08/08A	XE1270125	XE12130125											
XE12130105	Prepare Archives ICD	0	06/11/08A	08/08/08A	XE1270125	XE12130125											
XE12130110	Prepare Requirements	0	06/11/08A	08/08/08A	XE1270125	XE12130125											
XE12130115	Prepare Final Device List for Phase 1	0	06/11/08A	08/08/08A	XE1270125	XE12130125											
XE12130120	Prepare Final Device List for Phase 2	0	06/11/08A	08/08/08A	XE1270125	XE12130125											
XE12130125	Preliminary Design for Archives	0	08/11/08A	09/08/08A	XE12130100, XE12130105, XE12130110, XE12130115, XE12130125	XE12130130											
XE12130130	Preliminary Design Review (PDR)	0	09/09/08A	09/15/08A	XE12130125	XE12130135											
XE12130150	Develop Software for Test Setup	0	09/16/08A	01/13/09A	XE12130135	XE12130210											
XE12130200	Design DAQ Archive	0	09/16/08A	01/13/09A	XE12130135, XE1270125	XE12130205											
XE12130300	Design 120 Hz Archive	0	09/16/08A	01/13/09A	XE12130135, XE1270125	XE12130305											
XE12130400	Design EPICS Archive	0	09/16/08A	01/13/09A	XE12130135, XE1270125	XE12130405											
XE12130405	Final Design Review EPICS Archive	0	01/14/09A	01/14/09A	XE12130400	XE12130410											
XE12130205	Final Design Review DAQ Archive	0	01/14/09A	01/20/09A	XE12130200	XE12130210											
XE12130305	Final Design Review 120 Hz Archive	0	01/14/09A	01/20/09A	XE12130300	XE12130310											
XE12130220	Dev Software DAQ Archive	5	01/15/09A	04/07/09	XE12130210	XE12130240*											
XE12130225	Prepare Docs DAQ Archive	5	01/15/09A	04/07/09	XE12130210	XE12130240*											
XE12130320	Dev Software 120 Hz Archive	5	01/15/09A	04/07/09	XE12130310	XE12130340*											
XE12130325	Prepare Docs 120 Hz Archive	5	01/15/09A	04/07/09	XE12130310	XE12130340*											
XE12130420	Dev Software EPICS Archive	5	01/15/09A	04/07/09	XE12130410	XE12130440*											
XE12130425	Prepare Docs EPICS Archive	5	01/15/09A	04/07/09	XE12130410	XE12130440*											
1.06.02.10.13.01 Requirements, Design, Test Setup																	
XE12130135	COMP: Preliminary Design Review (PDR) - Archives	0		09/15/08A	XE12130130	XE12130150, XE12130200, XE12130300, XE12130400											
1.06.02.10.13.02 DAQ Archive																	
XE12130210	COMP: FDR for DAQ Archive	0		01/20/09A	XE12130150, XE12130205	XE12130220, XE12130225											

Activity ID	Activity Description	Rem Dur	Early Start	Early Finish	Predecessors	Successors	FY08			FY09			FY10			
1.06.02.10.13.02 DAQ Archive																
XE12130240	AVAIL: DAQ Archive System	0		04/07/09	XE12130220*, XE12130225*	MS3_XE060, S8X7_NH080										
1.06.02.10.13.03 120 Hz Archives																
XE12130310	COMP: FDR for 120 Hz Archive	0		01/20/09A	XE12130305	XE12130320, XE12130325										
XE12130340	AVAIL: 120 Hz Archive System	0		04/07/09	XE12130320*, XE12130325*	S8X7_NH080										
1.06.02.10.13.04 EPICS Archive																
XE12130410	COMP: FDR for EPICS Archive	0		01/14/09A	XE12130405	XE12130420, XE12130425										
XE12130440	AVAIL: EPICS Archive System	0		04/07/09	XE12130420*, XE12130425*	S8X7_NH080										
1.06.02.10.14 Data Retrieval & Analysis																
XE12140100	Prepare Requirements	0	11/03/08A	01/12/09A	MS_260	XE12140125										
XE12140105	Prepare Data Retrieval ICD	0	11/03/08A	01/12/09A	MS_260	XE12140125										
XE12140115	Prepare Final Device List for Phase 1	0	11/03/08A	01/12/09A	MS_260	XE12140125										
XE12140125	Preliminary Design for Data Retrieval	4	01/13/09A	04/06/09	XE12140100, XE12140105, XE12140115	XE12140130*										
XE12140140	Procure Hrdwr for Develop Test Setup	31	04/01/09	05/13/09	XE12140135	XE12140145*										
XE12140150	Develop Software for Test Setup	60	04/01/09	06/23/09	XE12140135	XE12140210										
XE12140130	Preliminary Design Review (PDR)	5	04/07/09	04/13/09	XE12140125*	XE12140135										
XE12140200	Design Data Retrieval	80	08/11/09	11/30/09	XE12140135*	XE12140205*										
XE12140300	Design Data Analysis	80	08/11/09	11/30/09	XE12140135*	XE12140305*										
XE12140205	Final Design Review Data Retrieval	5	12/01/09	12/07/09	XE12140200*	XE12140210*										
XE12140305	Final Design Review Data Analysis	5	12/01/09	12/07/09	XE12140300*	XE12140310*										
XE12140220	Dev Software Data Retrieval	80	12/08/09	03/31/10	XE12140210*	XE12140240*										
XE12140225	Prepare Docs Data Retrieval	80	12/08/09	03/31/10	XE12140210*	XE12140240*										
XE12140320	Dev Software Data Analysis	80	12/08/09	03/31/10	XE12140310*	XE12140340*										
XE12140325	Prepare Docs Data Analysis	80	12/08/09	03/31/10	XE12140310*	XE12140340*										
1.06.02.10.14.01 Requirements, Design, Test Setup																
XE12140135	COMP: PDR for Data Retrieval/Analysis	0		03/20/09A	XE12140130	MS1_PM040, XE12140140, XE12140150, XE12140200*										
XE12140145	RCV: Hardware for Develop Test Setup	0		05/13/09	XE12140140*	XE12140210										
1.06.02.10.14.02 Data Retrieval																
XE12140210	COMP: FDR for Data Retrieval	0		12/07/09	XE12140145, XE12140150, XE12140205*	XE12140220*, XE12140225*										
XE12140240	AVAIL: Data Retrieval System	0		03/31/10	XE12140220*, XE12140225*	MS1_PM040										
1.06.02.10.14.03 Data Analysis																
XE12140310	COMP: FDR for Data Analysis	0		12/07/09	XE12140305*	XE12140320*, XE12140325*										

Activity ID	Activity Description	Rem Dur	Early Start	Early Finish	Predecessors	Successors	FY08			FY09			FY10			
1.06.02.10.14.03 Data Analysis																
XE12140340	AVAIL: Data Analysis System	0		03/31/10	XE12140320*, XE12140325*	MS1_PM040										◆
1.06.02.11 Laser Controls																
XE624_0105	Develop Laser Controls System ICDs	0	06/11/08A	08/08/08A	XE1270125	XE624_0130	■									
XE624_0125	Laser Controls System Preliminary Design	0	06/11/08A	08/08/08A	XE1270125	XE624_0130	■									
XE624_0130	Preliminary Design Review (PDR)	0	08/11/08A	08/15/08A	XE624_0105, XE624_0125	XE624_0135										
XE624_0140	Laser Controls System Final Design	0	08/18/08A	12/01/08A	XE624_0135	XE624_0145, XE624_0160	■									
XE624_0135	COMP: Prelim Design Review (PDR) - Laser Control	0		09/03/08A	XE624_0130	XE624_0140	◆									
XE624_0160	Procure: Laser Controls Hardware	3	12/08/08A	04/03/09	XE624_0140	XE624_0165, XE624_0170, XE624_0175, XE624_0180,			■							
XE624_0150	COMP: Final Design Review (FDR) - Laser Control	0		12/08/08A	XE624_0145	XE624_0155, XE624_0195			◆							
XE624_0155	Laser Controls System Software Development	0	12/09/08A	02/24/09A	XE624_0150	XE624_0197			■							
XE624_0145	Final Design Review (FDR)	0	01/02/09A	01/08/09A	XE624_0140	XE624_0150										
XE624_0165	RCV: 1 Crate/CPU/EVR	0	02/24/09A	03/02/09A	XE624_0160	XE624_0195										
XE624_0170	RCV: 24 Position controls	0	02/24/09A	03/02/09A	XE624_0160	XE624_0195										
XE624_0175	RCV: 1 General IO	0	02/24/09A	03/02/09A	XE624_0160	XE624_0195										
XE624_0180	RCV: 1 Timing	0	02/24/09A	03/02/09A	XE624_0160	XE624_0195										
XE624_0185	RCV: 5 Video Diagnostics	0	02/24/09A	03/02/09A	XE624_0160	XE624_0195										
XE624_0195	Laser Controls System Hardware Development	10	03/03/09A	04/14/09	XE624_0150, XE624_0165, XE624_0170, XE624_0175,	XE624_0197*			■							
XE624_0197	AVAIL: Laser Controls System	0		04/14/09	XE624_0155, XE624_0195*	MS3_XE060, S8X7_NH090					◆					
1.06.02.12 SXR Controls																
1.06.02.12.01 SXR Requirement - Design & Setup																
XE_SXR0900	Prepare Documents	26	01/02/09A	05/06/09	XE_S1_0010	XE_SXR0920*			■							
XE_SXR0920	Preliminary Design - SXR Phase 1	20	05/07/09	06/03/09	XE_SXR0900*	XE_SXR0940*					■					
XE_SXR0940	Preliminary Design - SXR Phase 2	42	06/04/09	08/03/09	XE_SXR0920*	XE_SXR0960*					■					
XE_SXR0960	Preliminary Design Review - SXR	1	08/04/09	08/04/09	XE_SXR0940*	XE_SXR0980*										
XE_SXR0980	COMP: Preliminary Design Review (PDR) - SXR	0		08/04/09	XE_SXR0960*											◆
1.06.02.12.02 SXR Hardware Procurement																
XE_SXR0780	Spec/Bid/Award SXR Racks	0	01/02/09A	01/15/09A	XE_S1_0010	XE_SXR0790										
XE_SXR0700	Spec/Bid/Award SXR MPS/PPS	0	01/02/09A	02/24/09A	XE_S1_0010	XE_SXR0710, XE_SXR0740, XE_SXR1000			■							
XE_SXR0740	Spec/Bid/Award SXR VME	0	01/16/09A	02/24/09A	XE_SXR0700	XE_SXR0750			■							
XE_SXR0790	AWARD: SXR Racks	0	01/16/09A	02/24/09A	XE_SXR0780	XE_SXR0800			■							

Activity ID	Activity Description	Rem Dur	Early Start	Early Finish	Predecessors	Successors	FY08			FY09			FY10				
1.06.02.12.02 SXR Hardware Procurement																	
XE_SXR0800	Fab/Deliver SXR Racks	58	01/19/09A	06/19/09	XE_SXR0790	XE_SXR0810											
XE_SXR1050	Spec/Bid/Award Cables - SXR	2	01/29/09A	04/02/09	XE_S1_0010	XE_SXR1060*, XE_SXR1190											
XE_SXR0820	Spec/Bid/Award SXR Workstation	0	02/24/09A	02/24/09A	XE_S1_0010	XE_SXR0830, XE_SXR0860											
XE_SXR0710	AWARD: SXR MPS/PPS	1	03/02/09A	04/01/09	XE_SXR0700	XE_SXR0720											
XE_SXR0750	AWARD: SXR VME	1	03/02/09A	04/01/09	XE_SXR0740	XE_SXR0760											
XE_SXR0830	AWARD: SXR Workstation	1	03/02/09A	04/01/09	XE_SXR0820	XE_SXR0840											
XE_SXR1000	Spec/Bid/Award Laser Controls - SXR CY 08	18	03/02/09A	04/24/09	XE_SXR0700	XE_SXR1020*, XE_SXR1190											
XE_SXR0760	Fab/Deliver SXR VME	69	03/03/09A	07/07/09	XE_SXR0750	XE_SXR0770*											
XE_SXR0840	Fab/Deliver SXR Workstation	69	03/03/09A	07/07/09	XE_SXR0830	XE_SXR0850*											
XE_SXR0720	Fab/Deliver SXR MPS/PPS	82	03/03/09A	07/24/09	XE_SXR0710	XE_SXR0730*											
XE_SXR0860	Spec/Bid/Award Vacuum Controllers - SXR	4	03/10/09A	04/06/09	XE_SXR0820	XE_SXR0870*											
XE_SXR1190	Spec/Bid/Award Laser Controls - SXR CY 09	6	03/12/09A	04/08/09	XE_S1_0010, XE_SXR1000, XE_SXR1050	XE_SXR1200*											
XE_SXR1170	Fab/Deliver SXR Cables	37	03/13/09A	05/21/09	XE_SXR1060	XE_SXR1180											
XE_SXR1060	AWARD: Cables - SXR	1	04/03/09	04/03/09	XE_SXR1050*	XE_SXR1170											
XE_SXR1200	AWARD: Laser Controls Phase 2 - SXR	1	04/09/09	04/09/09	XE_SXR1190*	XE_SXR1210*											
XE_SXR0870	AWARD: SXR Vacuum Controllers	1	04/10/09	04/10/09	XE_SXR0860*	XE_SXR0880*											
XE_SXR1210	Fab/Deliver SXR Laser Controls Phase 2	55	04/10/09	06/25/09	XE_SXR1200*	XE_SXR1220*, XE_SXR1240											
XE_SXR0880	Fab/Deliver SXR Vacuum Controllers	90	04/13/09	08/17/09	XE_SXR0870*	XE_SXR0890*											
XE_SXR1020	AWARD: Laser Controls Phase 1 - SXR	1	04/27/09	04/27/09	XE_SXR1000*	XE_SXR1030*											
XE_SXR1030	Fab/Deliver SXR Laser Controls Phase 1	90	04/28/09	09/01/09	XE_SXR1020*	XE_SXR1040*											
XE_SXR1220	RCV: SXR Laser Controls Phase 2	1	06/26/09	06/26/09	XE_SXR1210*	XE_SXR1240											
XE_SXR0770	RCV: SXR VME	1	07/08/09	07/08/09	XE_SXR0760*	XE_SXR0810*, XE_SXR1240											
XE_SXR0850	RCV: SXR Workstation	1	07/08/09	07/08/09	XE_SXR0840*	XE_SXR1240											
XE_SXR0810	RCV: SXR Racks	24	07/09/09	08/11/09	XE_SXR0770*, XE_SXR0800	XE_SXR1180*, XE_SXR1240											
XE_SXR0730	RCV: SXR MPS/PPS	1	07/27/09	07/27/09	XE_SXR0720*	XE_SXR1240											
XE_SXR1180	RCV: SXR Cables	1	08/12/09	08/12/09	XE_SXR0810*, XE_SXR1170	XE_SXR1260*											
XE_SXR1260	Cables Available	0		08/12/09	XE_SXR1180*	XE_S16_250*, XE_SXR1400											
XE_SXR0890	RCV: SXR Vacuum Controllers	1	08/18/09	08/18/09	XE_SXR0880*	XE_SXR1240											
XE_SXR1040	RCV: SXR Laser Controls Phase 1	1	09/02/09	09/02/09	XE_SXR1030*	XE_SXR1240*											

Activity ID	Activity Description	Rem Dur	Early Start	Early Finish	Predecessors	Successors	FY08			FY09			FY10					
1.06.02.12.02 SXR Hardware Procurement																		
XE_SXR1240	Hardware Available	0		09/02/09	XE_SXR0730, XE_SXR0770, XE_SXR0810, XE_SXR0850,	XE_S16_260*, XE_SXR1400*												
XE_SXR1400	I & C infrastructure complete	0		09/02/09	XE_SXR1240*, XE_SXR1260	XE_S16_301												
1.06.02.12.03 EDI Software & Hardware																		
XE_SXR0300	EDI Device software / hardware - SXR	256	01/29/09A	03/29/10	XE_S1_0010													
1.06.04 XES Laser System																		
1.06.04.01 XES Laser																		
XE1410020	Specification - XES Laser	0	02/01/08A	05/13/08A	XE_RB	XE1410030, XE1450030												
XE1410030	Design - XES Laser	0	04/01/08A	05/23/08A	XE1410020	XE1410040, XE1430036												
XE1410040	Design Review - XES Laser	0	05/27/08A	06/13/08A	XE1410030	XE1410050, XE1410060												
XE1410050	COMP: Design - XES Laser	0		06/13/08A	XE1410040	XE1410070												
XE1410060	Laser System Final Design Review	0		06/13/08A	XE1410040	XE1410070												
XE1410070	Prep Bid Pkg - XES Laser	0*	06/16/08A	07/31/08A	XE1410050, XE1410060	XE1410080												
XE1410080	Bid Process - XES Laser	0	08/01/08A	09/12/08A	XE1410070	XE1410090												
XE1410090	Evaluation of Proposals - XES Laser	0	09/15/08A	09/22/08A	XE1410080	XE1410100												
XE1410100	AWARD: Contract - XES Laser	0	10/15/08A	10/31/08A	XE1410090	XE1410110, XE1410120												
XE1410120	Vendor Fab/Ship - XES Laser	0	10/15/08A	12/18/08A	XE1410100, XE1410110	XE1410125												
XE1410115	Design - XES Laser Integration	44	10/15/08A	06/01/09	XE1410110	S8X7_NH090												
XE1410110	AWARD: XES Laser	0		10/31/08A	XE1410100	MS3_XE025, XE1410115, XE1410120												
XE1410125	RCV: XES Laser	0	12/18/08A	12/18/08A	XE1410120	S8X7_NH090												
1.06.04.02 Laser Diagnostics																		
XE1420030	Specification - Laser Diagnostics	0	04/01/08A	07/14/08A	XE_RB	XE1420040												
XE1420040	Design - Laser Diagnostics	0	05/01/08A	11/14/08A	XE1420030	XE1420050												
XE1420050	COMP: Design - Laser Diagnostics	0		11/14/08A	XE1420040	XE1420060, XE1420110, XE1420160, XE1420260												
XE1420060	Prep Bid Pkg Energy Sensors - Laser Diagnostics	0	11/17/08A	12/19/08A	XE1420050	XE1420070												
XE1420110	Prep Bid Pkg IR FROG - Laser Diagnostics	0	11/17/08A	12/19/08A	XE1420050	XE1420120												
XE1420160	Prepare Bid Pkg Fast Diodes - Laser Diagnostics	0	11/17/08A	12/19/08A	XE1420050	XE1420170												
XE1420260	Prep Bid Pkg Autocorrelators - Laser Diagnostic	0	11/17/08A	12/19/08A	XE1420050	XE1420270												
XE1420120	Bid Process IR FROG - Laser Diagnostics	0	12/01/08A	02/26/09A	XE1420110	XE1420130												
XE1420170	Bid Process Fast Diodes - Laser Diagnostics	0	12/01/08A	02/26/09A	XE1420160	XE1420180												
XE1420270	Bid Process Autocorrelators - Laser Diagnostics	0	12/01/08A	02/26/09A	XE1420260	XE1420280												

Activity ID	Activity Description	Rem Dur	Early Start	Early Finish	Predecessors	Successors	FY08			FY09			FY10				
1.06.04.02 Laser Diagnostics																	
XE1420070	Bid Process Energy Sensors - Laser Diagnostics	0	12/01/08A	02/27/09A	XE1420060	XE1420080											
XE1420080	AWARD: Energy Sensors - Laser Diagnostics	0*	12/01/08A	02/27/09A	MS_260, XE1420070	XE1420090											
XE1420130	AWARD: Contract - IR FROG - Laser Diagnostics	0	12/01/08A	02/27/09A	MS_260, XE1420120	XE1420140											
XE1420180	AWARD: Fast Diodes - Laser Diagnostics	0	12/01/08A	02/27/09A	MS_260, XE1420170	XE1420190											
XE1420280	AWARD: Autocorrelators - Laser Diagnostics	0	12/01/08A	02/27/09A	MS_260, XE1420270	XE1420285, XE1420290											
XE1420090	Fab/Ship Energy Sensors - Laser Diagnostics	22	12/01/08A	04/30/09	XE1420080	XE1420095*											
XE1420140	Vendor Ship IR FROG- Laser Diagnostics	22	12/01/08A	04/30/09	XE1420130	XE1420145*											
XE1420190	Vendor Fab/Ship Fast Diodes-Laser Diagnostics	22	12/01/08A	04/30/09	XE1420180	XE1420195*											
XE1420290	Fab/Ship Autocorrelators - Laser Diagnostics	22	12/01/08A	04/30/09	XE1420280	XE1420295*											
XE1420095	RCV: Energy Sensors - Laser Diagnostics	22	12/08/08A	04/30/09	XE1420090*	XE1420310*											
XE1420145	RCV: IR FROG - Laser Diagnostics	22	12/08/08A	04/30/09	XE1420140*	XE1420310*											
XE1420195	RCV: Fast Diodes - Laser Diagnostics	22	12/08/08A	04/30/09	XE1420190*	XE1420310*											
XE1420285	Design - Laser Diagnostics Integration	22	12/15/08A	04/30/09	XE1420280	S8X7_NH090											
XE1420295	RCV: Autocorrelators - Laser Diagnostics	22	12/15/08A	04/30/09	XE1420290*	XE1420310*											
XE1420310	AVAIL: Laser Diagnostics	0		04/30/09	XE1420095*, XE1420145*, XE1420195*, XE1420295*	S8X7_NH090											
1.06.04.03 Laser Optical Transport																	
XE1430020	Specification - Laser Optic Transport	0	04/01/08A	06/12/08A	XE_RB	XE1430030											
XE1430036	Design Earthquake restraints for Optical Tables	0	04/01/08A	06/12/08A	XE1410030	XE1430038, XE1430040, XE1430150											
XE1430030	Conceptual Design - Laser Optic Transport	0	04/14/08A	05/30/08A	XE1430020	XE1430032											
XE1430150	Prep Bid Pkg Optic Tables (4) - Laser Optic Tran	0	05/12/08A	06/13/08A	XE1430036	XE1430160											
XE1430032	Preliminary Design - Laser Optic Transport	0	05/19/08A	07/07/08A	XE1430030	XE1430034											
XE1430038	Design Enclosures for Optical Tables	0	07/01/08A	11/26/08A	XE1430036	XE1430040, XE1430160, XE1430245											
XE1430034	Final Design - Laser Optic Transport	0	07/08/08A	11/26/08A	XE1430032	XE1430040											
XE1430160	Bid Process Optic Tables (4) - Laser Optic Trans	0	08/13/08A	08/26/08A	XE1430038, XE1430150	XE1430170											
XE1430170	AWARD: Contract Optic Tables (4) - Laser Optic T	0	08/27/08A	10/09/08A	XE1430160	XE1430180											
XE1430180	Vendor Fab/Ship Optic Tables (4) -Laser Optic Tr	0	10/10/08A	01/12/09A	XE1430170	XE1430185											
XE1430040	COMP: Design Laser Optic Transport	0		11/26/08A	XE1430034, XE1430036, XE1430038	XE1430050, XE1430100, XE1430200											
XE1430050	Prep Bid Pkg Lenses & Mirrors - Laser Optic Tran	0	12/01/08A	12/12/08A	XE1430040	XE1430060											
XE1430200	Prep Bid Pkg Cabinets - Laser Optic Transport	0	12/01/08A	12/12/08A	XE1430040	XE1430210											

Activity ID	Activity Description	Rem Dur	Early Start	Early Finish	Predecessors	Successors	FY08			FY09			FY10				
1.06.04.03 Laser Optical Transport																	
XE1430100	Prep Bid Pkg Shielding/Contain - Laser Optic Tra	0	12/01/08A	12/19/08A	XE1430040	XE1430110											
XE1430245	Procure Enclosures for Optical Tables	0	12/01/08A	01/30/09A	XE1430038	S8X7_NH090, XE1430250											
XE1430060	Bid Process Lenses & Mirrors - Laser Optic Trans	0	12/15/08A	01/29/09A	XE1430050	XE1430070											
XE1430070	AWARD: Contract Lenses & Mirrors-Laser Optic Tra	0	12/15/08A	01/29/09A	MS_260, XE1430060	XE1430080											
XE1430210	Bid Process Cabinets - Laser Optic Transport	0	12/15/08A	01/29/09A	XE1430200	XE1430220											
XE1430220	AWARD: Contract Cabinets - Laser Optic Transport	0	12/15/08A	01/29/09A	MS_260, XE1430210	XE1430225, XE1430230											
XE1430080	Vendor Fab/Ship Lenses & Mirrors -Laser Optic Tr	0	12/15/08A	03/27/09A	XE1430070	XE1430085											
XE1430085	RCV: Lenses & Mirrors - Laser Optic Transport	0	12/17/08A	03/27/09A	XE1430080	XE1430250											
XE1430110	Bid Process Shielding/Contain - Laser Optic Tran	0	01/02/09A	01/29/09A	XE1430100	XE1430120											
XE1430185	RCV: Optic Tables (4) - Laser Optic Transport	0	01/13/09A	01/13/09A	XE1430180	S8X7_NH090, XE1430250											
XE1430120	AWARD: Contract Shielding/Contain-Laser Optic T	0	01/30/09A	01/30/09A	MS_260, XE1430110	XE1430130											
XE1430225	Design - Laser Transport Integration	0	01/30/09A	03/25/09A	XE1430220	XE1430250											
XE1430230	Vendor Fab/Ship Cabinets -Laser Optic Transport	0	01/30/09A	03/25/09A	XE1430220	XE1430235											
XE1430130	Vendor Fab/Ship Shielding/Conta -Laser Optic Tra	0	02/02/09A	02/27/09A	XE1430120	XE1430135											
XE_S14_039	Spec/Bid/Award SXR Enclosures	25	02/09/09A	05/05/09		XE_S14_040*											
XE_S14_019	Spec/Bid/Award SXR Compressor	10	02/18/09A	04/14/09	XE_S1_0010	XE_S14_020*											
XE_S14_009	Spec/Bid/Award SXR Optics/Opto-Mechanics	32	02/18/09A	05/14/09	XE_S1_0010	XE_S14_010*											
XE1430135	RCV: Shielding/Contain - Laser Optic Transport	0	02/27/09A	02/27/09A	XE1430130	XE1430250											
XE1430250	AVAIL: Laser Optic Transport	0		03/27/09A	XE1430085, XE1430135, XE1430185, XE1430225, XE1430235, XE1430245	S8X7_NH090											
XE1430235	RCV: Cabinets - Laser Optic Transport	0		03/26/09A	XE1430230	XE1430250											
XE_S14_029	Spec/Bid/Award SXR Vacuum Windows & Parts	40	04/10/09*	06/04/09		XE_S14_030*											
XE_S14_020	AWARD: SXR Compressor	1	04/15/09	04/15/09	XE_S14_019*	XE_S14_021*											
XE_S14_021	Fab/Deliver SXR Compressor	75	04/16/09	07/30/09	XE_S14_020*	XE_S14_022*											
XE_S14_040	AWARD: SXR Enclosures	1	05/06/09*	05/06/09	XE_S14_039*	XE_S14_041*											
XE_S14_041	Fab/Deliver SXR Enclosures	50	05/07/09	07/16/09	XE_S14_040*	XE_S14_042*											
XE_S14_010	AWARD: SXR Optics/Opto-Mechanics	1	05/15/09	05/15/09	XE_S14_009*	XE_S14_011*											
XE_S14_011	Fab/Deliver SXR Optics/Opto-Mechanics	75	05/18/09	08/31/09	XE_S14_010*	XE_S14_012*											
XE_S14_030	AWARD: SXR Vacuum Windows & Parts	1	06/05/09	06/05/09	XE_S14_029*	XE_S14_031*											
XE_S14_031	Fab/Deliver SXR Vacuum Windows & Parts	60	06/08/09	08/31/09	XE_S14_030*	XE_S14_032*											

Activity ID	Activity Description	Rem Dur	Early Start	Early Finish	Predecessors	Successors	FY08			FY09			FY10					
1.06.04.03 Laser Optical Transport																		
XE_S14_042	RCV: SXR Enclosures	1	07/17/09	07/17/09	XE_S14_041*	XE_S16_150, XE_S26_150												
XE_S14_022	RCV: SXR Compressor	1	07/31/09	07/31/09	XE_S14_021*	XE_S16_150, XE_S26_150												
XE_S14_012	RCV: SXR Optics/Opto-Mechanics	1	09/01/09	09/01/09	XE_S14_011*	XE_S16_150, XE_S26_150												
XE_S14_032	RCV: SXR Vacuum Windows & Parts	1	09/01/09	09/01/09	XE_S14_031*	XE_S16_150, XE_S26_150												
1.06.04.04 Laser Safety																		
XE1450030	Prepare for Laser Safety PDR	0	02/11/08A	05/06/08A	XE1410020	XE1450040	■											
XE1450040	Laser Safety PDR	0	05/07/08A	05/20/08A	XE1450030	XE1450045, XE1450050	■											
XE1450045	Prepare for Laser Safety Oversight Comm. Review	0	05/21/08A	06/20/08A	XE1450040	XE1450047	■											
XE1450050	Prepare for Laser Safety FDR	0	05/21/08A	06/20/08A	XE1450040	XE1450060	■											
XE1450020	Write SOP - Laser Safety	0	06/09/08A	07/30/08A	XE1450047	XE1450080	■											
XE1450070	Prepare for Laser Safety Committee Review	0	06/09/08A	07/30/08A	XE1450047, XE1450060	XE1450080	■											
XE1450047	Laser Safety Oversight Comm. Review	0	07/01/08A	07/15/08A	XE1450045	XE1450020, XE1450070	■											
XE1450060	Laser Safety FDR	0	07/01/08A	07/15/08A	XE1450050	XE1450070	■											
XE1450080	Laser Safety Committee Review	0	08/01/08A	11/26/08A	XE1450020, XE1450070	XE1450090	■											
XE1450090	Procure Laser PPS	22	12/01/08A	04/30/09	XE1450080	XE1450100*												
XE1450100	RCV: Laser PPS	0		04/30/09	XE1450090*	S8X7_NH090												
1.06.05 X-Ray Detectors																		
1.06.05.04 Detector & Streak Camera																		
1.06.05.04.01 X-Ray Detector Management																		
XE1541015	Detector Engineering (FY08)	0	02/01/08A	09/30/08A	XE_RB	XE2350000	■											
1.06.06 System Installation & Alignment																		
S8Z1_PB050	Install PPS/BCS racks in SB 2.?	0	12/01/08A	12/12/08A	S8Z1_PB040	S8Z1_PB060												
1.06.06.01 Front End Install																		
XE1610010	XE Start Installation in FEE	0	05/11/09		S8X6_FE080*	MS3_XT000, S8X6_FE091												
S8X6_FE080	Install hutch stoppers in FEE - XE	9	05/11/09	05/21/09	S8X6_FE060, S8X6_FE061, XE1912160, XE1922180, XT1325560*	S8X6_FE091, S8X6_FE110*, XE1610010*, XE1610020*, XE_0241												
XE1610020	XE Finish Installation in FEE	0		05/21/09	S8X6_FE080*	MS3_XT000, S8X6_FE091												
S8X6_FE110	Checkout FEE PPS - XE	10	05/22/09	06/04/09	S8X6_FE000, S8X6_FE080*, S8Z1_PB060	S8Z2_SC055*, S8Z2_SC060, XE_0241*												
S8Z2_SC055	FEE system checks complete PH1	0		06/04/09	S8X6_FE095, S8X6_FE110*	S8Z2_SC017*, S8Z2_SC020												
S8Z2_SC060	FEE system checks complete PH2	0		08/24/09	S8X6_FE095, S8X6_FE100*, S8X6_FE110, S8X6_FE120*	S8Z2_SC020*												
1.06.06.02 Near Hall Install																		
S8X7_NH010	NEH - CF early occupancy (TCCo)	0	02/15/08A		MS3CO_020	S8X6_FE020, S8X7_NH000*, S8X7_NH020, XE_0241, XT1331200												

Activity ID	Activity Description	Rem Dur	Early Start	Early Finish	Predecessors	Successors	FY08			FY09			FY10				
1.06.06.02 Near Hall Install																	
S8X7_NH075	XE Start Installation in NEH	0	01/12/09A		S8X7_NH090	MS3_XE060											
XE1629900	XE Finish Installation in NEH	0		09/24/09	S8X7_NH080, S8X7_NH090, S8X7_NH100*, S8Z1_PB080,	MS3_XT075, S8X7_NH110*											
S8Z2_SC070	NEH systems checks complete	0		12/03/09	S8X7_NH140, S8X7_NH150*	S8Z2_SC100											
1.06.06.02.02 NEH Network Fiber Installation																	
XE1622001	ED&I for Network Fiber (PCD-Ph5)	0	02/01/08A	11/26/08A	XE_RB	S8X7_NH061											
S8X7_NH061	Install Network Fiber NEH (PCD-Ph5)	0	05/01/08A	11/26/08A	S8X1_0056, XE1622001, XE221_0182	S8X7_NH130											
S8X7_NH130	Terminate cable plant NEH - XE	0	12/01/08A	07/27/09	S8X7_NH060, S8X7_NH061, S8X7_NH080*, S8X7_NH612	S8X7_NH150, XE27330020, XE27330030*, XE_0341*											
1.06.06.02.04 NEH AMO Exp Installation																	
S8X7_NH100	Install AMO Experiment - Phase 1	33	08/11/09	09/24/09	S8X7_NH060, XE12110740, XE12110840, XE12120240,	S8X7_NH105, S8X7_NH110*, XE1629900*, XE1720525*,											
S8X7_NH105	Install AMO Experiment - Phase 2	10	10/30/09	11/12/09	S8X7_NH100, XE1722560, XE1741058, XE1741610*, XE400050	S8Z3_CM200, XE27330060											
1.06.06.02.05 NEH Laser Installation																	
S8X7_NH090	Install NEH Laser Components - XE	63*	01/12/09A	06/26/09	S8X6_FE060, S8X6_FE061, XE1410115, XE1410125, XE1420285,	S8X7_NH075, S8X7_NH110, XE1629900											
1.06.06.02.06 NEH PPS Installation																	
S8Z1_PB059	ED&I for PPS Cabling - FEE/NEH (PCD-Ph6)	0	09/02/08A	03/31/09A	XE_RB	S8Z1_PB060											
S8Z1_PB060	Install PPS wiring - FEE & NEH (PCD-Ph6)	27*	02/09/09A	05/07/09	S8X1_0057, S8Z1_PB050, S8Z1_PB059, XE223_0175	S8X6_FE110, S8Z1_PB070											
S8Z1_PB070	Install PPS/BCS racks in NEH	38*	02/09/09A	05/22/09	S8Z1_PB060	S8Z1_PB080, S8Z1_PB090, XE_0341											
S8Z1_PB080	Install HPS in NEH	53*	03/23/09A	06/12/09	S8Z1_PB070	MS3_XE065, S8Z1_PB090*, XE1629900											
S8Z2_SC017	PPS Certification process: FEE PH1	10	06/05/09	06/18/09	S8Z1_PB000, S8Z2_SC055*	S8Z2_SC000*, S8Z2_SC025, S8Z3_CM070*, S8Z3_CM180											
S8Z1_PB090	Checkout/verify PPS/BCS through NEH	20	06/15/09	07/13/09	S8Z1_PB010*, S8Z1_PB070, S8Z1_PB080*, XE223_0267	S8Z2_SC020											
S8Z2_SC020	PPS Certification process: FEE & NEH	10	08/25/09	09/07/09	S8Z1_PB000, S8Z1_PB090, S8Z2_SC055, S8Z2_SC060*	S8Z2_SC000, S8Z2_SC025*, S8Z3_CM180											
S8Z2_SC025	FEE/NEH PPS Certified	0		09/07/09	S8Z2_SC017, S8Z2_SC020*	MS3_XE130, S8Z3_CM060*, S8Z3_CM180											
S8Z3_CM060	System Ready for beam into NEH	0		09/07/09	S8Z2_SC025*	S8Z3_CM120*											
1.06.06.02.09 LBL Timing Fiber Installation																	
S8X7_NH611	ED&I for LBL Timing Fiber (PCD-Ph6)	0	09/02/08A	03/31/09A	XE_RB	S8X7_NH612											
S8X7_NH612	Install LBL Timing Fiber NEH (PCD-Ph6)	40*	03/02/09A	05/26/09	S8X1_0057, S8X7_NH611	S8X7_NH130											
1.06.06.02.10 Install SXR Instrument																	
XE_S16_002	REQD: NEH Benef. Occupancy	0		08/15/08A	MS3BO_050	XE_S16_210, XE_S16_220, XE_S16_230, XE_S16_240,											
XE_S16_200	ED&I for Conv. Construction	47*	03/02/09A	06/04/09	XE_S1_0010	XE_S16_220*											
XE_S16_004	START: Floor Anchor Hole Drilling Hutch 1	0		05/01/09*	S8X7_NH040	XE_S16_230											
XE_S16_220	Concrete Cutting	5	06/05/09	06/11/09	XE_S16_002, XE_S16_200*, XE_S1_0010	XE_S16_003, XE_S16_230*											
XE_S16_230	Hole Drilling	5	06/12/09	06/18/09	XE_S16_002, XE_S16_004, XE_S16_220*, XE_S1_0010	XE_S16_003*, XE_S16_301											

Activity ID	Activity Description	Rem Dur	Early Start	Early Finish	Predecessors	Successors	FY08			FY09			FY10				
1.06.06.02.10 Install SXR Instrument																	
XE_S16_003	Hutch 2 Ready for Equip. Installation	0		06/18/09	XE_S16_220, XE_S16_230*	XE_S16_050, XE_S16_060, XE_S16_080, XE_S16_090, XE_S16_301											
XE_S16_190	Install MPS/PPS for SXR	90	08/06/09	12/09/09	SX_E_900*, XE_S1_0010	XE_S16_301											
XE_S16_250	Install cabling	90	08/13/09	12/16/09	SX_E_900, XE_S16_002, XE_S16_003, XE_S1_0010,	XE_S16_210*, XE_S16_301											
XE_S16_019	REQD: ZO Stopper RFI	0		09/01/09*	SX_P_080	XE_S16_020, XE_S26_020											
XE_S16_039	REQD: Collimators RFI	0		09/03/09*	SX_P_160*	XE_S16_040, XE_S26_040											
XE_S16_260	Controls hardware installation	55	09/03/09	11/18/09	SX_E_900, XE_S16_003, XE_SXR1240*	XE_S16_301											
XE_S16_139	REQD: Intensity/Beam View Monitor RFI	0		09/09/09	SX_P_560*	XE_S16_140*, XE_S26_140*											
XE_S16_145	START: Installation of Major Vacuum Systems	0	09/10/09		XE_S16_140*	MS3_XE170											
XE_S16_140	Install Intensity/Beam View Monitor	4	09/10/09	09/15/09	XE_S16_003, XE_S16_139*	XE_S16_145*, XE_S16_301											
XE_S16_079	REQD: Beam Stoppers RFI	0		09/18/09	SX_P_320*	XE_S16_080*, XE_S26_080*											
XE_S16_119	REQD: Single Pulse Shutter RFI	0		09/18/09	SX_P_480*	XE_S16_120, XE_S26_120											
XE_S16_069	REQD: Mono valves, bellows, & spools RFI	0		09/21/09	SX_P_280*	XE_S16_070, XE_S26_070											
XE_S16_080	Install Beam Stoppers	10	09/21/09	10/02/09	XE_S16_003, XE_S16_079*	XE_S16_240*, XE_S16_301											
XE_S16_149	REQD: 1st Station Pump Laser Transport RFI	0		09/25/09	SX_P_600*	XE_S16_150, XE_S26_150											
XE_S16_159	REQD: 2nd Station Pump Laser Transport RFI	0		09/25/09	SX_P_640*	XE_S16_160*, XE_S26_160*											
XE_S16_129	REQD: Upstream Sample Chamber RFI	0		09/28/09	SX_P_520*	XE_S16_130, XE_S26_130											
XE_S16_160	Install 2nd Station Pump Laser Transport	2	09/28/09	09/29/09	XE_S16_003, XE_S16_159*	XE_S16_301											
XE_S16_059	REQD: Detector - Spectrometer RFI	0		09/29/09	SX_P_240*	XE_S16_060*, XE_S26_060*											
XE_S16_060	Install Detector - Spectrometer	3	09/30/09	10/02/09	XE_S16_003, XE_S16_059*	XE_S16_301											
XE_S16_240	Plumbing - Stoppers	5	10/05/09	10/09/09	SX_E_900, XE_S16_002, XE_S16_003, XE_S16_080*,	XE_S16_301											
XE_S16_029	REQD: Grating Aperature RFI	0		10/09/09	SX_P_120*	XE_S16_030, XE_S26_030											
XE_S16_109	REQD: M3 valves, bellows, & spools RFI	0		10/26/09	SX_P_440*	XE_S16_110*, XE_S26_110*											
XE_S16_179	REQD: Beam Dump RFI	0		10/27/09	SX_P_720*	XE_S16_180*, XE_S26_180*											
XE_S16_110	Install M3 valves, bellows, & spools	5	10/27/09	11/02/09	XE_S16_003, XE_S16_109*	XE_S16_245, XE_S16_301											
XE_S16_180	Install Beam Dump	2	10/28/09	10/29/09	XE_S16_003, XE_S16_179*	XE_S16_301											
XE_S16_169	REQD: Diagnostic Station RFI	0		11/27/09	SX_P_680*	XE_S16_170*, XE_S26_170*											
XE_S16_170	Install Diagnostic Station	1	11/30/09	11/30/09	XE_S16_003, XE_S16_169*	XE_S16_301											
XE_S16_009	REQD: M1 & Grating System RFI	0		12/04/09*	SX_P_040	XE_S16_010, XE_S26_010											
XE_S16_049	REQD: Exit Slit RFI	0		12/04/09*	SX_P_200	XE_S16_050*, XE_S26_050*											

Activity ID	Activity Description	Rem Dur	Early Start	Early Finish	Predecessors	Successors	FY08			FY09			FY10			
1.06.06.02.10 Install SXR Instrument																
XE_S16_089	REQD: M2 Mirror RFI	0		12/04/09	SX_P_360*, SX_P_405*	XE_S16_090*, XE_S26_090*										◆
XE_S16_099	REQD: M3 Mirror RFI	0		12/04/09	SX_P_400*, SX_P_405*	XE_S16_100*, XE_S26_100*										◆
XE_S16_100	Install M3 Mirror	1	12/07/09	12/07/09	XE_S16_003, XE_S16_099*	XE_S16_301										
XE_S16_050	Install Exit Slit	2	12/07/09	12/08/09	XE_S16_003, XE_S16_049*	XE_S16_301										
XE_S16_090	Install M2 Mirror	6	12/07/09	12/14/09	XE_S16_003, XE_S16_089*	XE_S16_301										
XE_S16_001	REQD: Start FY10 Shutdown	0		12/14/09	S8Z3_CM150*	XE_S16_010*, XE_S16_020*, XE_S16_030*, XE_S16_040*										◆
XE_S16_130	Install Upstream Sample Chamber	4	12/15/09	12/18/09	XE_S16_001*, XE_S16_129	XE_S16_301										
XE_S16_040	Install Collimators	5	12/15/09	12/21/09	XE_S16_001*, XE_S16_039	XE_S16_301										
XE_S16_070	Install Mono valves, bellows, & spools	5	12/15/09	12/21/09	XE_S16_001*, XE_S16_069	XE_S16_245*, XE_S16_301										
XE_S16_120	Install Single Pulse Shutter	5	12/15/09	12/21/09	XE_S16_001*, XE_S16_119	XE_S16_301										
XE_S16_150	Install 1st Station Pump Laser Transport	5	12/15/09	12/21/09	XE_S14_012, XE_S14_022, XE_S14_032, XE_S14_042,	XE_S16_301										
XE_S16_010	Install M1 & Grating System	8	12/15/09	12/24/09	S8X7_NH060, XE12120240, XE_S16_001*, XE_S16_009	XE_S16_301										
XE_S16_020	Install ZO Stopper	10	12/15/09	12/29/09	XE_S16_001*, XE_S16_019	XE_S16_301										
XE_S16_030	Install Grating Aperture	10	12/15/09	12/29/09	XE_S16_001*, XE_S16_029	XE_S16_301										
XE_S16_210	Electr. Mods. AC Power	10	12/17/09	12/31/09	SX_E_900, XE_S16_002, XE_S16_250*, XE_S1_0010	XE_S16_301										
XE_S16_245	Plumbing - Valves	10	12/22/09	01/06/10	SX_E_900, SX_P_903, SX_P_904, XE_S16_002, XE_S16_003,	XE_S16_301*										
XE_S16_301	Connect and Test	10	01/07/10	01/20/10	XE_S16_010, XE_S16_020, XE_S16_030, XE_S16_040,	XE_S1_0020*										
1.06.06.02.99 NEH Installation - Other																
S8X7_NH050	Install, align & grout supports: NEH	42*	02/13/09A	05/28/09	S8X1_00035, S8X7_NH040, XT1331230	S8X7_NH060*										■
S8X7_NH060	Install Racks & Cable Plant NEH	42*	03/13/09A	05/28/09	S8X7_NH050*, XE228_0172	S8X7_NH070, S8X7_NH100, S8X7_NH120, S8X7_NH130,										■
S8X7_NH080	Install NEH Beamline components - XE	63*	03/23/09A	06/26/09	S8X6_FE060, S8X6_FE061, XE12110140, XE12110240,	MS3_XE060, S8X7_NH110, S8X7_NH130*, S8X7_NH150,										■
S8X7_NH110	Test NEH components - XE	30	09/25/09	11/05/09	S8X6_FE060, S8X6_FE061, S8X7_NH000, S8X7_NH080,	S8X7_NH150*, S8Z3_CM200										■
S8X7_NH150	Checkout NEH System - XE	20	11/06/09	12/03/09	S8X7_NH000*, S8X7_NH080, S8X7_NH110*, S8X7_NH130	S8Z2_SC070*										■
1.06.06.03 Tunnel Install																
XE1630020	XE Start Installation in TUN	0	08/13/09		S8X8_XT080*	MS3_XT071, XE1639900										◆
S8X8_XT080	Install X-Ray tunnel components - XE	20	08/13/09	09/09/09	S8X1_00040, XE1912630, XE1922680*	S8X8_XT090, S8X9_FH110, S8X9_FH120, XE1630020*,										■
S8Z1_PB120	Install PPS conduits, wiring, racks - X-Ray & FEH	25	12/22/09	01/27/10	S8X9_FH060, S8X9_FH095*, S8Z1_PB110, XE223_0268	S8Z1_PB100, S8Z1_PB130*, XE1639900*, XE_0551*										■
XE1639900	XE Finish Installation in TUN	0		01/27/10	S8X8_XT080, S8Z1_PB120*, XE1630020	MS3_XT071, S8X8_XT110*										◆
S8X8_XT110	Checkout X-Ray tunnel systems - XE	10	01/28/10	02/10/10	S8X8_XT000*, S8X8_XT090, XE1639900*	S8X9_FH110*, S8X9_FH120*, S8X9_FH130, S8Z2_SC080*										■

Activity ID	Activity Description	Rem Dur	Early Start	Early Finish	Predecessors	Successors	FY08			FY09			FY10					
1.06.06.03 Tunnel Install																		
S8Z2_SC080	X-Ray tunnel systems checks complete	0		02/10/10	S8X8_XT100, S8X8_XT110*	S8Z2_SC100											◆	
1.06.06.04 Far Hall Install																		
S8X9_FH010	FEH - CF early occupancy (TCCo)	0	09/09/08A		MS3CO_030	S8X9_FH000, S8X9_FH020, S8X9_FH090, XT1351200		◆										
S8X9_FH050	Install, align & grout supports: FEH	5	05/05/09	05/11/09	S8X9_FH040*	S8X9_FH060, S8X9_FH090*												
S8X9_FH090	FEH Hutch & utilities construction	140	05/12/09	11/24/09	CFENG_1265, S8X9_FH010, S8X9_FH050*	S8X9_FH060*, S8X9_FH095, S8X9_FH100, S8Z1_PB130												
S8X9_FH095	FEH Hutches Beneficial Occupancy	0		12/21/09	MS3BO_080*, S8X9_FH090	S8X9_FH070*, S8X9_FH080*, S8Z1_PB120*											◆	
S8X9_FH065	XE Start Installation in FEH	0	12/22/09		S8X9_FH080*	MS3_XE050, S8X9_FH100											◆	
S8X9_FH080	Install FEH components - XE	15	12/22/09	01/13/10	S8X9_FH060, S8X9_FH095*, XE221_0183, XE225_0405	S8X9_FH065*, S8X9_FH100*, S8X9_FH110, S8X9_FH120,											■	
S8Z1_PB130	Install HPS in FEH	25	12/22/09	01/27/10	S8X9_FH090, S8Z1_PB120*	S8Z1_PB140*											■	
S8X9_FH100	Terminate cable plant FEH	10	12/30/09	01/13/10	S8X9_FH065, S8X9_FH070*, S8X9_FH080*, S8X9_FH090,	S8X9_FH110, S8X9_FH120											■	
XE1649900	XE Finish Installation in FEH	0		01/13/10	S8X9_FH080*	MS3_XT071, S8X9_FH120											◆	
S8Z1_PB140	Checkout/verify PPS through FEH	10	01/28/10	02/10/10	S8Z1_PB000*, S8Z1_PB100*, S8Z1_PB130*	S8Z2_SC090											■	
S8X9_FH120	Checkout Far Hall systems - XE	5	02/11/10	02/17/10	S8X8_XT070, S8X8_XT080, S8X8_XT090, S8X8_XT100,	S8X9_FH130*, S8Z2_SC090*											■	
S8Z2_SC090	Far Hall systems checks complete	0		02/17/10	S8X9_FH110*, S8X9_FH120*, S8Z1_PB140	S8Z2_SC100*											◆	
S8Z2_SC100	PPS Certification process through FEH	10	02/18/10	03/03/10	S8Z2_SC000*, S8Z2_SC070, S8Z2_SC080, S8Z2_SC090*	S8Z2_SC110*											■	
S8Z2_SC110	TUN/FEH PPS Certified	0		03/03/10	S8Z2_SC100*	MS3_XE150, S8Z3_CM180*											◆	
S8Z3_CM180	System Ready for beam into FEH	0		03/03/10	S8Z2_SC017, S8Z2_SC020, S8Z2_SC025, S8Z2_SC110*,	S8Z3_CM190											◆	
1.06.06.05 Electron Dump Enclosure Install																		
S8Z1_PB040	Install PPS wiring - Dump (PCD-Ph5)	0	09/02/08A	10/31/08A	S8Z1_PB020, S8Z1_PB030	S8Z1_PB050				■								
XE1650020	XE Start Installation in EDE	0	10/01/08A		S8X5_BD070	S8X5_BD080		◆										
S8X5_BD070	Install Dump components - XE	0	10/01/08A	10/31/08A	S8X1_00040, S8X5_BD030, S8X5_BD040, XE1911190,	S8X5_BD080, XE1650020				■								
S8Z2_SC010	PPS Certification process through Beam Dump	0	11/03/08A	11/21/08A	S8Z2_SC000, S8Z2_SC030, S8Z2_SC040, S8Z2_SC050	LNMS4_015, S8Z2_SC015, S8Z3_CM020, S8Z3_CM040				■								
S8Z2_SC015	Electron Dump Stoppers Certified	0		11/24/08A	S8Z2_SC010	MS3_XE120, S8Z3_CM020, S8Z3_CM040				◆								
1.06.06.06 XES Installation Management																		
XE1660010	XES Installation Management - FY09	130*	10/01/08A	09/30/09		XE1660020*, XT1660010												
XE1660020	XES Installation Management - FY10	214	10/01/09	07/30/10	XE1660010*, XT1660010*	XE_LOE*												
1.06.07 AMOS Experiment																		
1.06.07.01 AMO Exp - Management & Design																		
XE1711100	ESD integration of components	0	02/01/08A	03/31/08A	XE_RB	XE1714090		■										
XE1713030	LBNL Contract Development - Refocus optics	0	02/01/08A	05/30/08A	XE_RB	XE1713040		■										

Activity ID	Activity Description	Rem Dur	Early Start	Early Finish	Predecessors	Successors	FY08			FY09			FY10						
1.06.07.01 AMO Exp - Management & Design																			
XE1714050	Specify components - Diagnostics	0	02/01/08A	07/25/08A	XE_RB	XE1714005, XE1740060, XE1740110, XE1741010													
XE1711005	Management of AMO Experiment (FY08)	0	02/01/08A	09/30/08A	XE_RB	XE1711010													
XE1714010	Specify components - X1 High Field Physics	0	02/01/08A	11/14/08A	XE_RB	XE1714005, XE1721010, XE1721040, XE1722010, XE1722040, XE1722200,													
XE1714020	Final design - X1 High Field Physics	0	02/01/08A	11/14/08A	XE_RB	XE1711220, XE1714085													
XE1714060	Final design - Diagnostics	0	02/01/08A	11/14/08A	XE_RB	XE1714085													
XE1711090	ICD to conventional facilities	0	07/01/08A	11/14/08A	XE_RB	XE1711170													
XE1711010	Management of AMO Experiment - Oct08 thru Jul09	87*	10/01/08A	07/31/09	XE1711005, XE1711200	XE2330008*													
XE1714005	AVAIL: Detailed Device Desc/Cnt for Controls	0		11/14/08A	XE1714010, XE1714050	XE62810107, XE62810123, XE62810137													
XE1714090	Prepare/Hold FDR	0	11/17/08A	01/22/09A	XE1711100, XE1714085	XE1714095, XE1714100													
XE1711220	Engineering Procurement Support	6*	11/18/08A	04/08/09	XE1714020	XE1711230*													
XE1714100	Final design review (FDR)	21	11/24/08A	04/29/09	XE1714090	XE1714095*, XE1715000, XE400030													
XE1713040	AWARD: LBNL Contract (FY08 Funding)	0	12/01/08A	12/01/08A	XE1713030	XE1730010, XE1730080, XE1730100, XE1730120, XE1730140													
XE1713050	AWARD: LBNL Contract (FY09 Funding)	0	12/01/08A	12/01/08A	MS_260	XE1730090, XE1730110, XE1730130, XE1730150													
XE1715000	Design Updates/Detail Drawings - Dec08	0	12/01/08A	12/19/08A	XE1714100	XE1715002													
XE1711170	Plan assembly/installation X1-high field physics	0	12/01/08A	12/29/08A	XE1711090	XE400020													
XE1711180	Plan assembly/installation of refocus optics	0	12/01/08A	12/29/08A		XE1730500													
XE1711190	Plan assembly/installation of diagnostics	0	12/01/08A	12/29/08A		XE1740500, XE1741040													
XE1711200	Plan assembly/installation X2 - particle imaging	0	12/01/08A	12/29/08A		XE1711010													
XE1715040	Design/Engineering for Slits for KB	0*	12/01/08A	03/31/09A		XE1722580													
XE1715002	Design Updates/Detail Dwgs - Jan09 thru Feb09	0*	01/02/09A	02/27/09A	XE1715000	XE1715003, XE1715004													
XE1715030	Design/Engineering for Pulse Shutter	0	01/02/09A	02/27/09A		XE1722550													
XE1714085	FDR Safety Review	5	01/02/09A	04/07/09	XE1714020, XE1714060	S8X7_NH100, XE1714090													
XE1715010	Design/Installation Management	195*	01/02/09A	12/31/09		S8Z3_CM200													
XE1715020	Design/Engineering for Alignment Laser	12	02/02/09A	04/16/09		XE1722510													
XE1715003	Design Updates/Detail Dwgs - Mar09 thru May09	43*	03/02/09A	05/29/09	XE1715002	XE1715004*													
XE1711210	Plan commissioning	20	04/01/09*	04/28/09		XE27330010, XE27330020, XE27330030													
XE1711230	Engineering Assembly Support	81	04/09/09	07/31/09	XE1711220*	XE1629900													
XE1714095	COMP: Final Design Review Meeting_amo	0		04/29/09	XE1714090, XE1714100*	MS3_XE065													
XE1715004	Design Updates/Detail Dwgs - Jun09 thru Aug09	65	06/01/09	08/31/09	XE1715002, XE1715003*	XE1715006*													

Activity ID	Activity Description	Rem Dur	Early Start	Early Finish	Predecessors	Successors	FY08			FY09			FY10				
1.06.07.01 AMO Exp - Management & Design																	
XE1715006	Design Updates/Detail Dwg - Sep09 thru Nov09	65	09/01/09	11/30/09	XE1715004*	XE27330060*											
1.06.07.02 AMO Exp - High Field Physics																	
XE1724010	Place POs - X1 Vacuum System	0	10/15/08A	10/31/08A	XE1714010	XE1724035											
XE1724035	COMP: Award X1 Vacuum System	0		10/31/08A	XE1724010	XE1724040											
XE1721010	Place Misc POs - X-Ray Emission Spectrometer	0	11/03/08A	11/07/08A	MS_260, XE1714010	XE1721020											
XE1724040	Fab/Deliver - X1 Vacuum System	11*	11/03/08A	04/15/09	XE1724035	XE1724045*											
XE1721020	Fab/Deliver Misc - X-Ray Fluor. Spectrometer	0	11/10/08A	11/14/08A	XE1721010	XE1721030											
XE1721030	RCV: Misc X-Ray Fluor. Spectrometer	0	11/17/08A	11/20/08A	XE1721020	XE400020											
XE1722040	Bid/Evaluate/RFP - Ion Imaging Detector	0	11/17/08A	11/26/08A	MS_260, XE1714010	XE1722050											
XE1722200	Place Purchase Orders - TOF Detectors	0	11/17/08A	12/30/08A	XE1714010	XE1722210, XE1722220											
XE1722010	Place POs - Ion Imaging Detector (Misc Equip)	0	11/17/08A	01/30/09A	MS_260, XE1714010	XE1722020											
XE1723010	Place POs - X1 Sample Source	0	11/17/08A	02/27/09A	XE1714010	XE1723035											
XE400020	Assemble/Test - AMO HFP Section (Ph.1)	30*	11/17/08A	05/12/09	XE1711170, XE1721030, XE1722240, XE1722270, XE1722520*, XE1722590,	XE400025*, XE400040											
XE400010	Ready for AMO Assembly/Testing in Staging Area	0		11/17/08A		XE400020											
XE1725010	Place POs - Differential Pumping	0	12/01/08A	12/19/08A	XE1714010	XE1725040											
XE1722050	Prepare PO - Ion Imaging Detector	0	12/01/08A	12/29/08A	XE1722040	XE1722060											
XE1721040	Bid/Evaluate/RFP - X-Ray Fluor. Spectrometer	22*	12/01/08A	04/30/09	XE1714010	XE1721050*											
XE1723040	Fab/Deliver - X1 Sample Source	22	12/10/08A	04/30/09	XE1723035	XE1723045*											
XE1725040	Fab/Deliver - Differential Pumping	9*	12/22/08A	04/13/09	XE1725010	XE1725050*											
XE1722060	AWARD: Ion Imaging Detector	0	12/30/08A	12/30/08A	XE1722050	XE1722070, XE1722080											
XE1722070	COMP: Award Ion Imaging Detector	0		12/30/08A	XE1722060	XE1722080											
XE1722210	COMP: Awards for TOF Detectors	0		12/30/08A	XE1722200	MS3_XT075, XE1722220											
XE1722220	Fab/Deliver - TOF Detectors	1*	12/31/08A	04/01/09	XE1722200, XE1722210	XE1722230*											
XE1722080	Fab/Deliver - Ion Imaging Detector	25*	12/31/08A	05/05/09	XE1722060, XE1722070	XE1722090*											
XE1722550	Procure/Deliver: Pulse Shutter	0	01/02/09A	03/31/09A	XE1715030	XE1722560*											
XE1725050	RCV: Differential Pumping	1	01/12/09A	04/13/09	XE1725040*	XE400020											
XE1724045	RCV: X1 Vacuum System	1	01/12/09A	04/15/09	XE1724040*	XE400020											
XE1723045	RCV: X1 Sample Source	1	01/12/09A	04/30/09	XE1723040*	XE1723050*											
XE1722090	RCV: Ion Imaging Detector	1	01/12/09A	05/05/09	XE1722080*	XE400040											

Activity ID	Activity Description	Rem Dur	Early Start	Early Finish	Predecessors	Successors	FY08			FY09			FY10				
1.06.07.02 AMO Exp - High Field Physics																	
XE1722020	Fab/Deliver - Ion Imaging Detector (Misc Equip)	22	01/30/09A	04/30/09	XE1722010	XE1722030*											
XE1722030	RCV: Ion Imaging Detector (Misc Equip)	1	01/30/09A	04/30/09	XE1722020*	XE400040											
XE1722230	RCV: TOF Detectors	1	02/02/09A	04/01/09	XE1722220*	XE1722240*											
XE1723035	COMP: Awards for X1 Sample Source	0		02/27/09A	XE1723010	MS3_XT075, XE1723040											
XE1722580	Procure/Deliver: Slits for KB	22	03/02/09A	04/30/09	XE1715040	XE1722590*											
XE1722510	Procure/Deliver: Alignment Laser	29*	03/18/09A	05/11/09	XE1715020	XE1722520*											
XE1722590	RCV: Slits for KB	22	03/23/09A	04/30/09	XE1722580*	XE400020											
XE1722240	COMP: TOF Detectors RFI	0		04/01/09	XE1722230*	XE400020											
XE1722560	RCV: Pulse Shutter	1	04/01/09	04/01/09	XE1722550*	S8X7_NH105											
XE1723050	RCV: X1 Sample Source	0		04/30/09	XE1723045*	XE400020											
XE1721050	Prepare PO - X-Ray Fluor. Spectrometer	60	05/01/09	07/24/09	XE1721040*	XE1721060*											
XE1722270	REQD: Controls TOF Detectors	0		05/05/09	XE12716093*, XE12716094*, XE12716103, XE12716104	XE400020											
XE1723518	REQD: Controls Sample Source	0		05/08/09	XE12716092*, XE12716102	XE400020											
XE1722520	RCV: Alignment Laser	1	05/12/09	05/12/09	XE1722510*	XE400020*											
XE400025	Readiness Review - AMO HFP Section (Ph.1)	5	05/13/09	05/19/09	XE400020*	XE400030*											
XE400030	COMP: AMO HFP Assembly/Testing (Ph1)	0		05/19/09	XE1714100, XE400025*	MS3_XE065, S8X7_NH100											
XE400040	Assemble/Test - AMO HFP Section (Ph.2)	108	05/21/09	10/20/09	XE1721090*, XE1722030, XE1722090, XE1722120, XE400020	XE400045*											
XE1720518	REQD: Controls Vac & Mech Exp 1	0		06/03/09	XE12708050, XE12712050, XE12714050, XE12715050,	S8X7_NH100											
XE1721130	REQD: Controls X-Ray Emission Spectrometer	0		07/22/09	XE12716097*, XE12716107, XE12717094, XE12717104	S8X7_NH100											
XE1722120	REQD: Controls Ion Imaging Detector	0		07/22/09	XE12716095*, XE12716105	XE400040											
XE1721060	AWARD: X-Ray Emission Spectrometer	1	07/27/09	07/27/09	MS_260, XE1721050*	XE1721070*, XE1721080*											
XE1721070	COMP: Award of X-Ray Emission Spectrometer	0		07/27/09	XE1721060*	MS3_XT075, XE1721080*											
XE1721080	Fab/Deliver - X-Ray Emission Spectrometer	60	07/28/09	10/19/09	XE1721060*, XE1721070*	XE1721090*											
XE1720525	COMP: AMO Ready for Basic Expmnts (Phase 1)	0		09/24/09	S8X7_NH100*	MS3_XE065											
XE1721090	RCV: X-Ray Emission Spectrometer	1	10/20/09	10/20/09	XE1721080*	XE400040*											
XE400045	Readiness Review - AMO HFP Section (Ph.2)	5	10/21/09	10/27/09	XE400040*	XE400050*											
XE400050	COMP: AMO HFP Assembly/Testing (Ph2)	0		10/27/09	XE400045*	MS3_XT075, S8X7_NH105											
1.06.07.03 AMO Exp - Refocus Optics																	
XE1730010	Design - Optics Substrate	0	04/01/08A	06/13/08A	XE1713040	XE1730020											

Activity ID	Activity Description	Rem Dur	Early Start	Early Finish	Predecessors	Successors	FY08			FY09			FY10				
1.06.07.03 AMO Exp - Refocus Optics																	
XE1730020	Bid/Evaluate/RFP - Optics Substrate	0	07/01/08A	10/14/08A	XE1730010	XE1730030											
XE1730030	Prepare PO - Optics Substrate	0	10/15/08A	10/28/08A	XE1730020	XE1730040											
XE1730040	AWARD: Optics Substrate	0	10/29/08A	10/29/08A	XE1730030	XE1730050, XE1730060											
XE1730050	COMP: Award Optics Substrate_amo	0		10/29/08A	XE1730040	XE1730060											
XE1730060	Fab/Deliver - Optics Substrate	0	11/03/08A	03/31/09A	XE1730040, XE1730050	XE1730070											
XE1730140	Design - Optics Stand	0	11/10/08A	03/31/09A	XE1713040	XE1730150*											
XE1730080	Design - Mirror Manipulators	22*	11/10/08A	04/30/09	XE1713040	XE1730090											
XE1730100	Design - Optics Vacuum Chamber	22*	11/10/08A	04/30/09	XE1713040	XE1730110*, XE1731010											
XE1730120	Design - Optics Diagnostic Hardware	22*	11/10/08A	04/30/09	XE1713040	XE1730130											
XE1730090	Fabricate - Mirror Manipulators	62*	03/16/09A	06/25/09	XE1713050, XE1730080	XE1730500											
XE1730130	Fabricate - Optics Diagnostic Hardware	65*	03/16/09A	06/30/09	XE1713050, XE1730120	XE1730500											
XE1731010	Procure Misc Parts for Refocus Optics	96*	03/16/09A	08/13/09	XE1730100	XE1730500*											
XE1730450	Optics Coating	38	03/23/09A	05/22/09	XE1730070	XE1730460											
XE1730460	Optics Metrology	48	03/30/09A	06/05/09	XE1730450	XE1730500											
XE1730070	RCV: Optics Substrate	0	03/31/09A	03/31/09A	XE1730060	XE1730450											
XE1730150	Fabricate - Optics Stand	41	04/01/09*	05/27/09	XE1713050, XE1730140*	XE1730500											
XE1730110	Fabricate - Optics Vacuum Chamber	40	05/01/09*	06/25/09	XE1713050, XE1730100*	XE1730500											
XE1730498	REQD: Controls Refocus Optics	0		05/21/09	XE12717091*, XE12717101*	S8Z3_CM200, XE1730500											
XE1730500	Assemble - Refocus Optics	20	08/14/09	09/10/09	XE1711180, XE1730090, XE1730110, XE1730130, XE1730150, XE1730460,	S8X7_NH100*, S8X7_NH110, XE27330020*											
1.06.07.04 AMO Exp - Diagnostics																	
XE1740110	Procure/Award - Focus Verification	0	11/03/08A	11/07/08A	XE1714050	XE1740140											
XE1740060	Procure/Award - Phase 1 Diagnostic Equipment	0	11/03/08A	03/13/09A	XE1714050	XE1740090*, XE1740700											
XE1740140	Fab/Deliver - Focus Verification	22*	11/10/08A	04/30/09	MS_260, XE1740110	XE1740500											
XE1740090	Fab/Deliver - Ph1 Diagnostic Equipment (Part1)	18*	11/17/08A	04/24/09	MS_260, XE1740060*	XE1740095*											
XE1740800	Modify Design for Energy Monitor (LLNL)	22*	01/02/09A	04/30/09		XE1740810*											
XE1740500	Assemble - Phase 1 Diagnostic Equipment	33*	01/12/09A	05/15/09	XE1711190, XE1740095, XE1740140	XE1740610*											
XE1740750	Procure Misc. Mtls. for Mag. Bottle	108*	02/02/09A	08/31/09		XE1741040											
XE1740700	Fab/Deliver - Magnetic Bottle	138*	03/16/09A	10/12/09	XE1740060	XE1741040											
XE1741010	Procure/Award - Phase 2 Diagnostic Equipment	61	04/01/09*	06/24/09	MS_260, XE1714050	XE1741030*											

Activity ID	Activity Description	Rem Dur	Early Start	Early Finish	Predecessors	Successors	FY08			FY09			FY10					
1.06.07.04 AMO Exp - Diagnostics																		
XE1740095	Fab/Deliver - Ph1 Diagnostic Equipment (Part2)	10	04/27/09	05/08/09	XE1740090*	XE1740500												
XE1740810	Procure Energy Monitor (LLNL)	20	05/01/09*	05/28/09	XE1740800*	XE1740820*												
XE1740610	COMP: Phase 1 Diag Assembly	0		05/15/09	XE1740500*	MS3_XE065, S8X7_NH100												
XE1740820	Fab/Deliver Energy Monitor	44	05/29/09*	07/30/09	XE1740810*	XE1740830*												
XE1741030	Fab/Deliver - Phase 2 Diagnostic Equipment	80	06/25/09	10/15/09	XE1741010*	XE1741040*												
XE1740518	REQD: Controls Phase 1 Diagnostics	0		07/13/09	XE12708090, XE12708100, XE12712090, XE12712100,	S8X7_NH100												
XE1741058	REQD: Controls Phase 2 Diagnostics	0		07/17/09	XE12709090, XE12709100*	S8X7_NH105												
XE1740830	RCV: Energy Monitor	1	07/31/09*	07/31/09	XE1740820*	XE1741040												
XE1741040	Assemble - Phase 2 Diagnostic Equipment	10	10/16/09	10/29/09	XE1711190, XE1740700, XE1740750, XE1740830, XE1741030*	XE1741610*												
XE1741610	COMP: Phase 2 Diag Assembly	0		10/29/09	XE1741040*	MS3_XT075, S8X7_NH105*												
1.06.08 K Measurement Crystals																		
1.06.08.01 K Measurement Crystals																		
XE1810160	Prepare Bid Docs - Si Crystal (2)	0	05/01/08A	06/13/08A	XT1546065	XE1810170												
XE1810170	Bid and Award - Si Crystal (2)	0	06/16/08A	09/02/08A	XE1810160	XE1810180, XE1810190, XE1810200												
XE1810180	AWARD: Si Crystal (2)	0	09/02/08A	09/02/08A	XE1810170	XE1810190												
XE1810200	AWARD: Add'l Si Crystals (2)	0	09/02/08A	09/02/08A	XE1810170	XE1810210												
XE1810190	Fab and Deliver - Si Crystal (2)	0	10/01/08A	10/31/08A	XE1810170, XE1810180	XT1546360												
XE1810210	Fab and Deliver - Add'l Si Crystals (2)	0	10/01/08A	10/31/08A	XE1810200	XT1546360												
1.06.09 Mechanical Systems																		
1.06.09.01 PPS Stoppers																		
XE1911100	Prep Bid Pkg - EDE Stoppers	0	02/01/08A	02/14/08A	XE_RB	XE1911110												
XE1912088	Purchase Absorber Matls - FEE/NEH Stoppers	0	02/01/08A	03/21/08A	XE_RB	XE1912150												
XE1911055	Purchase Absorber Matls - EDE Stoppers	0	02/01/08A	04/30/08A	XE_RB	XE1911180												
XE1912140	MFD Fabricate - FEE/NEH Stoppers	0	02/01/08A	12/19/08A	XE1912092, XE_RB	XE1912150												
XE1911110	Bid Process - EDE Stoppers	0	02/15/08A	02/29/08A	XE1911100	XE1911120												
XE1911120	AWARD: - EDE Stoppers (2)	0	02/29/08A	02/29/08A	XE1911110	XE1911130												
XE1911130	COMP: AWARD: - EDE Stoppers (2)	0		02/29/08A	XE1911120	XE1911140												
XE1911140	MFD Fabricate - EDE Stoppers	0	03/03/08A	10/21/08A	XE1911130	XE1911180												
XE1912090	Purchase Vacuum Components - FEE/NEH Stoppers	0	05/12/08A	06/23/08A	XE_RB	XE1912092												
XE1912092	RCV: Vacuum Components - FEE/NEH Stoppers	0	06/23/08A	10/31/08A	XE1912090	XE1912140												

Activity ID	Activity Description	Rem Dur	Early Start	Early Finish	Predecessors	Successors	FY08			FY09			FY10				
1.06.09.01 PPS Stoppers																	
XE1912570	Prep Bid Pkg - TUN/FEH Stoppers	0	10/02/08A	01/06/09A	MS_260	XE1912580											
XE1911180	Test - EDE Stoppers	0	10/22/08A	10/31/08A	XE1911055, XE1911140	XE1911190											
XE1911190	AVAIL: RFI EDE Stoppers (2)	0		10/31/08A	XE1911180	S8X5_BD070											
XE1912150	Test - FEE/NEH Stoppers	10	01/02/09A	04/14/09	XE1912088, XE1912140	XE1912160*											
XE1912580	Bid Process - TUN/FEH Stoppers	0	01/07/09A	01/13/09A	XE1912570	XE1912590											
XE1912590	AWARD: - TUN/FEH Stoppers (4)	0	01/14/09A	01/14/09A	XE1912580	XE1912600											
XE1912591	Purchase Vacuum Components - TUN/FEH Stoppers	16	02/02/09A	04/22/09	MS_260, XE1912600	XE1912592*											
XE1912600	COMP: AWARD: - TUN/FEH Stoppers (4)	0		02/02/09A	XE1912590	MS3_XE150, XE1912588, XE1912591, XE1912610											
XE1912610	MFD Fabricate - TUN/FEH Stoppers	62	02/23/09A	06/25/09	XE1912588, XE1912592, XE1912600	XE1912620*											
XE1912588	Purchase Absorber Matls - TUN/FEH Stoppers	0	03/02/09A	03/27/09A	MS_260, XE1912600	XE1912610, XE1912620											
XE1912160	AVAIL: RFI FEE/NEH Stoppers (4)	0		04/14/09	XE1912150*	MS3_S8010, S8X6_FE080											
XE1912592	RCV: Vacuum Components - TUN/FEH Stoppers	1	04/23/09	04/23/09	XE1912591*	XE1912610											
XE1912620	Test - TUN/FEH Stoppers	20	06/26/09	07/24/09	XE1912588, XE1912610*	XE1912630*											
XE1912630	AVAIL: RFI TUN/FEH Stoppers (4)	0		07/24/09	XE1912620*	MS3_XT071, S8X8_XT080											
1.06.09.02 PPS Shielding																	
XE1922010	Prepare Specification - PPS Shielding & Supports	0	04/01/08A	04/30/08A	XE_RB	XE1922020, XE1922030, XE1922510											
XE1922020	Develop RP Reqmnts - PPS Shielding & Supports	0	04/01/08A	04/30/08A	XE1922010	XE1922025											
XE1922030	Design PPS Shielding & Supports	0	04/01/08A	04/30/08A	XE1922010, XE1922025	XE1922070											
XE1922025	COMP: RP Reqmnts - PPS Shielding & Supports	0		04/30/08A	XE1922020	XE1922030											
XE1922100	Prep Bid Pkg - PPS Shielding & Supports	0	05/05/08A	05/19/08A	XE1922090	XE1922110											
XE1922070	Review PPS Shielding Design	0	05/05/08A	06/13/08A	XE1922030	XE1922080, XE1922090											
XE1922110	Bid Process - PPS Shielding & Supports	0	05/20/08A	05/23/08A	XE1922080, XE1922100	XE1922120											
XE1922120	AWARD: - PPS Shielding & Supports	0	05/27/08A	05/27/08A	XE1922110	XE1922125											
XE1922125	COMP: AWARD: - PPS Shielding & Supports	0		05/27/08A	XE1922120	XE1922160											
XE1922160	Fab/Assemble FEE/NEH - PPS Shielding & Supports	0	05/28/08A	08/15/08A	XE1922090, XE1922125	XE1922180											
XE1922080	RP Safety Review - Shielding & Supports	0	10/01/08A	10/30/08A	XE1922070	XE1922110											
XE1922090	Finalize PPS Shielding Design	0	10/01/08A	10/31/08A	XE1922070	XE1922100, XE1922160											
XE1922510	Prepare TUN/FEH Spec - PPS Shielding & Supports	0	10/01/08A	10/31/08A	XE1922010	XE1922520, XE1922540											
XE1922180	AVAIL: RFI - FEE/NEH PPS Shielding & Supports	0		11/03/08A	XE1922160	S8X6_FE080											

Activity ID	Activity Description	Rem Dur	Early Start	Early Finish	Predecessors	Successors	FY08			FY09			FY10					
1.06.09.02 PPS Shielding																		
XE1922520	Develop RP Reqmnts - PPS Shielding & Supports	0	12/01/08A	12/19/08A	XE1922510	XE1922530												
XE1922530	COMP: RP Reqmnts - PPS Shielding & Supports	0		12/19/08A	XE1922520	XE1922540												
XE1922540	Design PPS Shielding & Supports	0	01/02/09A	03/06/09A	XE1922510, XE1922530	XE1922580												
XE1922580	Review PPS Shielding Design	0	02/09/09A	03/11/09A	XE1922540	XE1922600, XE1922610												
XE1922600	RP Safety Review - Shielding & Supports	0	02/23/09A	03/06/09A	XE1922580	XE1922630												
XE1922610	Finalize PPS Shielding Design	0	03/12/09A	03/31/09A	XE1922580	XE1922620*												
XE1922620	Prep Bid Pkg - PPS Shielding & Supports	10	04/01/09	04/14/09	XE1922610*	XE1922630*												
XE1922630	Bid Process - PPS Shielding & Supports	20	04/15/09	05/12/09	XE1922600, XE1922620*	XE1922640*												
XE1922640	AWARD: - PPS Shielding & Supports	1	05/13/09	05/13/09	XE1922630*	XE1922650*												
XE1922650	COMP: AWARD: - PPS Shielding & Supports	0		05/13/09	XE1922640*	MS3_XT071, XE1922670*												
XE1922670	Fab/Assemble TUN/FEH - PPS Shielding & Supports	64	05/14/09	08/12/09	XE1922650*	XE1922680*												
XE1922680	AVAIL: RFI - TUN/FEH PPS Shielding & Supports	0		08/12/09	XE1922670*	MS3_XT071, S8X8_XT080*												
1.06.09.03 NEH Hutch Doors																		
XE19300160	MFD Fab/Deliver - NEH Hutch Doors	0	02/01/08A	06/30/08A	XE_RB	XE19300165												
XE19300165	AVAIL: NEH Hutch Doors	0		06/30/08A	XE19300160	S8X7_NH080												
1.06.10 SXR Instrument																		
1.06.10.01 SXR - Management & Design																		
SX_E_050	Engrng/Design - Mono valves, bellows,& spools	8	11/05/08A	04/10/09		SX_P_250												
SX_E_060	Engrng/Design - Beam Stoppers	3	11/17/08A	04/03/09		SX_P_290, SX_P_290*												
SX_E_090	Engrng/Design - M3 valves, bellows,& spools	15	11/26/08A	04/21/09		SX_P_410, SX_P_410												
SX_E_010	Engrng/Design - ZO Stopper	8	12/01/08A	04/10/09	XE_S1_0010	SX_E_020*, SX_P_050												
SX_E_030	Engrng/Design - Collimators	8	12/01/08A	04/10/09	XE_S1_0010	SX_E_040, SX_P_130												
SX_E_070	Engrng/Design - M2 Mirror	20	12/01/08A	04/28/09	XE_S1_0010	SX_E_080*, SX_P_330*												
SX_E_080	Engrng/Design - M3 Mirror	20	12/01/08A	04/28/09	SX_E_070*	SX_P_370*												
XE_S10_001	Integration Engineering - SXR	124*	12/01/08A	09/22/09	XE_S1_0010	XE_S10_007												
SX_E_140	Engrng/Design - 2nd Station Pump Laser Transport	8	12/08/08A	04/10/09		SX_P_610												
SX_E_020	Engrng/Design - Grating Aperture	8	12/15/08A	04/10/09	SX_E_010*, XE_S1_0010	SX_P_090, XE_S10_003*, XE_S21_020*												
SX_E_040	Engrng/Design - Detector - Spectrometer	3	12/24/08A	04/03/09	SX_E_030	SX_P_210												
SX_E_100	Engrng/Design - Single Pulse Shutter	8	01/12/09A	04/10/09		SX_P_450*												
SX_E_130	Engrng/Design - 1st Station Pump Laser Transport	8	01/16/09A	04/10/09		SX_P_570												

Activity ID	Activity Description	Rem Dur	Early Start	Early Finish	Predecessors	Successors	FY08			FY09			FY10				
1.06.10.01 SXR - Management & Design																	
SX_E_120	Engrng/Design - Intensity/Beam View Monitor	26	03/16/09A	05/06/09		SX_P_530											
SX_E_110	Engrng/Design - Upstream Sample Chamber	27	04/01/09*	05/07/09		SX_P_490*											
SX_E_160	Engrng/Design - Beam Dump	40	04/01/09	05/26/09		SX_E_900, SX_P_690*											
XE_S10_003	Design Integration - SXR	91	04/13/09	08/18/09	SX_E_020*, XE_S1_0010	XE_S10_007											
SX_E_150	Engrng/Design - Diagnostic Station	25	07/01/09*	08/05/09		SX_E_900*, SX_P_650*											
SX_E_900	COMP: SXR Engrng/Design	0		08/05/09	SX_E_150*, SX_E_160	XE_S16_190*, XE_S16_210, XE_S16_240, XE_S16_245,											
XE_S10_007	Readiness Reviews - SXR	21	11/23/09	12/21/09	XE_S10_001, XE_S10_003, XE_S1_0010, XE_S21_040*	XE_S1_0020											
1.06.10.02 Monochromator																	
SX_P_090	Spec/Bid/Award Grating Aperture	26	03/02/09A	05/06/09	SX_E_020	SX_P_100*											
SX_P_170	Spec/Bid/Award Exit Slit	15	03/09/09A	04/21/09	XE_S1_0010	SX_P_180											
SX_P_010	Spec/Bid/Award M1 & Grating System	1	04/01/09	04/01/09	XE_S1_0010	SX_P_020											
SX_P_290	Spec/Bid/Award Beam Stoppers	3	04/01/09	04/03/09	SX_E_060, SX_E_060*	SX_P_300											
SX_P_250	Spec/Bid/Award Mono valves, bellows, & spools	18	04/01/09	04/24/09	SX_E_050	SX_P_260											
SX_P_050	Spec/Bid/Award ZO Stopper	27	04/01/09	05/07/09	SX_E_010	SX_P_060*											
SX_P_210	Spec/Bid/Award Detector - Spectrometer	27	04/01/09	05/07/09	SX_E_040	SX_P_220											
SX_P_130	Spec/Bid/Award Collimators	40	04/01/09	05/26/09	SX_E_030	SX_P_140*											
SX_P_000	AVAIL: 1st Hamburg Funds Ready for Procurement	0	05/01/09*			SX_P_020*, SX_P_060, SX_P_100, SX_P_140, SX_P_180*, SX_P_260*, SX_P_030*, SX_P_900*											
SX_P_020	AWARD: M1 & Grating System	1	05/01/09	05/01/09	SX_P_000*, SX_P_010	SX_P_030*, SX_P_900*											
SX_P_180	AWARD: Exit Slit	1	05/01/09	05/01/09	SX_P_000*, SX_P_170	SX_P_185*, SX_P_190*											
SX_P_185	Exit Slit Awarded	0		05/01/09	SX_P_180*	SX_P_190*											
SX_P_260	AWARD: Mono valves, bellows, & spools	1	05/01/09	05/01/09	SX_P_000*, SX_P_250	SX_P_270*											
SX_P_900	Monochromator Systems Awarded	0		05/01/09	SX_P_020*	SX_P_030*											
SX_P_270	Fab/Deliver Mono valves, bellows, & spools	100	05/04/09	09/21/09	SX_P_260*	SX_P_280*											
SX_P_030	Fab/Deliver M1 & Grating System	145	05/04/09	11/23/09	SX_P_020*, SX_P_900*	SX_P_040*											
SX_P_190	Fab/Deliver Exit Slit	145	05/04/09	11/23/09	SX_P_180*, SX_P_185*	SX_P_200*											
SX_P_100	AWARD: Grating Aperture	1	05/07/09	05/07/09	SX_P_000, SX_P_090*	SX_P_110*											
SX_P_060	AWARD: ZO Stopper	1	05/08/09	05/08/09	SX_P_000, SX_P_050*	SX_P_070*											
SX_P_110	Fab/Deliver Grating Aperture	110	05/08/09	10/09/09	SX_P_100*	SX_P_120*											
SX_P_070	Fab/Deliver ZO Stopper	75	05/11/09	08/24/09	SX_P_060*	SX_P_080*											

Activity ID	Activity Description	Rem Dur	Early Start	Early Finish	Predecessors	Successors	FY08			FY09			FY10				
1.06.10.02 Monochromator																	
SX_P_140	AWARD: Collimators	1	05/27/09	05/27/09	SX_P_000, SX_P_130*	SX_P_150*											
SX_P_150	Fab/Deliver Collimators	70	05/28/09	09/03/09	SX_P_140*	SX_P_160*											
SX_P_001	AVAIL: 2nd Hamburg Funds Ready for Procurement	0	06/01/09*			SX_P_220*, SX_P_300*, SX_P_420*, SX_P_460*, SX_P_500*, SX_P_540*,											
SX_P_220	AWARD: Detector - Spectrometer	1	06/01/09	06/01/09	SX_P_001*, SX_P_210	SX_P_230*											
SX_P_300	AWARD: Beam Stoppers	1	06/01/09	06/01/09	SX_P_001*, SX_P_290	SX_P_310*											
SX_P_310	Fab/Deliver Beam Stoppers	78	06/02/09	09/18/09	SX_P_300*	SX_P_320*											
SX_P_230	Fab/Deliver Detector - Spectrometer	85	06/02/09	09/29/09	SX_P_220*	SX_P_240*											
SX_P_002	AVAIL: CFEL Funds Ready for Procurement	0	08/03/09*			SX_P_660											
SX_P_080	AVAIL: ZO Stopper RFI	0		08/24/09	SX_P_070*	SX_P_903, XE_S16_019											
SX_P_160	AVAIL: Collimators RFI	0		09/03/09	SX_P_150*	SX_P_903, SX_P_904, XE_S16_039*											
SX_P_320	AVAIL: Beam Stoppers RFI	0		09/18/09	SX_P_310*	SX_P_904, XE_S16_079*											
SX_P_280	AVAIL: Mono valves, bellows, & spools RFI	0		09/21/09	SX_P_270*	SX_P_903, XE_S16_069*											
SX_P_903	1st Hutch Connecting Vacuum RFI	0		09/28/09	SX_P_080, SX_P_160, SX_P_280, SX_P_480, SX_P_520*, SX_P_600	XE_S16_245											
SX_P_240	AVAIL: Detector - Spectrometer RFI	0		09/29/09	SX_P_230*	SX_P_904, XE_S16_059*											
SX_P_120	AVAIL: Grating Aperture RFI	0		10/09/09	SX_P_110*	XE_S16_029*											
SX_P_040	AVAIL: M1 & Grating System RFI	0		11/23/09	SX_P_030*	XE_S16_009											
SX_P_200	AVAIL: Exit Slit RFI	0		11/23/09	SX_P_190*	XE_S16_049											
1.06.10.03 Focusing Optics & Beam Transport																	
SX_P_330	Spec/Bid/Award M2 Mirror	20	03/19/09A	04/28/09	SX_E_070*	SX_P_340											
SX_P_370	Spec/Bid/Award M3 Mirror	20	03/19/09A	04/28/09	SX_E_080*	SX_P_380											
SX_P_490	Spec/Bid/Award Upstream Sample Chamber	27	04/01/09	05/07/09	SX_E_110*	SX_P_500											
SX_P_570	Spec/Bid/Award 1st Station Pump Laser Transport	30	04/01/09	05/12/09	SX_E_130	SX_P_580											
SX_P_610	Spec/Bid/Award 2nd Station Pump Laser Transport	30	04/01/09	05/12/09	SX_E_140	SX_P_620											
SX_P_410	Spec/Bid/Award M3 valves, bellows, & spools	37	04/01/09	05/21/09	SX_E_090, SX_E_090	SX_P_420											
SX_P_530	Spec/Bid/Award Intensity/Beam View Monitor	38	04/01/09	05/22/09	SX_E_120	SX_P_540											
SX_P_450	Spec/Bid/Award Single Pulse Shutter	6	04/03/09	04/10/09	SX_E_100*	SX_P_460											
SX_P_340	AWARD: M2 Mirror	1	05/01/09	05/01/09	SX_P_000*, SX_P_330	SX_P_350*, SX_P_910*											
SX_P_380	AWARD: M3 Mirror	1	05/01/09	05/01/09	SX_P_000*, SX_P_370	SX_P_390*, SX_P_910*											
SX_P_910	KB Mirrors Awarded	0		05/01/09	SX_P_340*, SX_P_380*	SX_P_350*, SX_P_390*											

Activity ID	Activity Description	Rem Dur	Early Start	Early Finish	Predecessors	Successors	FY08			FY09			FY10				
1.06.10.03 Focusing Optics & Beam Transport																	
SX_P_350	Fab/Deliver M2 Mirror	154	05/04/09	12/04/09	SX_P_340*, SX_P_910*	SX_P_360*											
SX_P_390	Fab/Deliver M3 Mirror	154	05/04/09	12/04/09	SX_P_380*, SX_P_910*	SX_P_400*											
SX_P_420	AWARD: M3 valves, bellows,& spools	1	06/01/09	06/01/09	SX_P_001*, SX_P_410	SX_P_430*											
SX_P_460	AWARD: Single Pulse Shutter	1	06/01/09	06/01/09	SX_P_001*, SX_P_450	SX_P_470*											
SX_P_500	AWARD: Upstream Sample Chamber	1	06/01/09	06/01/09	SX_P_001*, SX_P_490	SX_P_510*											
SX_P_540	AWARD: Intensity/Beam View Monitor	1	06/01/09	06/01/09	SX_P_001*, SX_P_530	SX_P_550*											
SX_P_580	AWARD: 1st Station Pump Laser Transport	1	06/01/09	06/01/09	SX_P_001*, SX_P_570	SX_P_590*											
SX_P_620	AWARD: 2nd Station Pump Laser Transport	1	06/01/09	06/01/09	SX_P_001*, SX_P_610	SX_P_630*											
SX_P_550	Fab/Deliver Intensity/Beam View Monitor	71	06/02/09	09/09/09	SX_P_540*	SX_P_560*											
SX_P_470	Fab/Deliver Single Pulse Shutter	78	06/02/09	09/18/09	SX_P_460*	SX_P_480*											
SX_P_590	Fab/Deliver 1st Station Pump Laser Transport	83	06/02/09	09/25/09	SX_P_580*	SX_P_600*											
SX_P_630	Fab/Deliver 2nd Station Pump Laser Transport	83	06/02/09	09/25/09	SX_P_620*	SX_P_640*											
SX_P_510	Fab/Deliver Upstream Sample Chamber	84	06/02/09	09/28/09	SX_P_500*	SX_P_520*											
SX_P_430	Fab/Deliver M3 valves, bellows,& spools	104	06/02/09	10/26/09	SX_P_420*	SX_P_440*											
SX_P_560	AVAIL: Intensity/Beam View Monitor RFI	0		09/09/09	SX_P_550*	SX_P_904, XE_S16_139*											
SX_P_480	AVAIL: Single Pulse Shutter RFI	0		09/18/09	SX_P_470*	SX_P_903, XE_S16_119*											
SX_P_600	AVAIL: 1st Station Pump Laser Transport RFI	0		09/25/09	SX_P_590*	SX_P_903, XE_S16_149*											
SX_P_640	AVAIL: 2nd Station Pump Laser Transport RFI	0		09/25/09	SX_P_630*	SX_P_904, XE_S16_159*											
SX_P_520	AVAIL: Upstream Sample Chamber RFI	0		09/28/09	SX_P_510*	SX_P_903*, XE_S16_129*											
SX_P_440	AVAIL: M3 valves, bellows,& spools RFI	0		10/26/09	SX_P_430*	SX_P_904, XE_S16_109*											
SX_P_360	AVAIL: M2 Mirror RFI	0		12/04/09	SX_P_350*	SX_P_405*, XE_S16_089*											
SX_P_400	AVAIL: M3 Mirror RFI	0		12/04/09	SX_P_390*	SX_P_405*, XE_S16_099*											
SX_P_405	KB Mirrors RFI	0		12/04/09	SX_P_360*, SX_P_400*	XE_S16_089*, XE_S16_099*											
1.06.10.04 Diagnostic & Experimental Facilities																	
SX_P_690	Spec/Bid/Award Beam Dump	41	04/01/09	05/27/09	SX_E_160*	SX_P_700											
SX_P_700	AWARD: Beam Dump	1	06/01/09	06/01/09	SX_P_001*, SX_P_690	SX_P_710*											
SX_P_710	Fab/Deliver Beam Dump	105	06/02/09	10/27/09	SX_P_700*	SX_P_720*											
SX_P_650	Spec/Bid/Award Diagnostic Station	26	07/01/09	08/06/09	SX_E_150*	SX_P_660*											
SX_P_660	AWARD: Diagnostic Station	1	08/07/09	08/07/09	SX_P_002, SX_P_650*	SX_P_670*											

Activity ID	Activity Description	Rem Dur	Early Start	Early Finish	Predecessors	Successors	FY08			FY09			FY10						
1.06.10.04 Diagnostic & Experimental Facilities																			
SX_P_670	Fab/Deliver Diagnostic Station	80	08/10/09	11/27/09	SX_P_660*	SX_P_680*													
SX_P_720	AVAIL: Beam Dump RFI	0		10/27/09	SX_P_710*	SX_P_904*, XE_S16_179*													
SX_P_904	2nd Hutch Connecting Vacuum RFI	0		10/27/09	SX_P_160, SX_P_240, SX_P_320, SX_P_440, SX_P_560, SX_P_640,	XE_S16_245													
SX_P_680	AVAIL: Diagnostic Station RFI	0		11/27/09	SX_P_670*	XE_S16_169*													
2 LCLS PROJECT - R&D, SPARES, COMMISSIONING																			
2.06 X-RAY END STATION SYSTEMS (OPC)																			
S8Z3_CM070	First spontaneous light into FEE	0		06/18/09	S8Z2_SC017*, S8Z3_CM050, XT1546450	MS3_UN025, S8Z3_CM090*													
S8Z3_CM090	Commission FEE	25	06/19/09	07/24/09	S8Z3_CM070*	S8Z3_CM085*, S8Z3_CM100*													
S8Z3_CM110	Commision XRay Mirrors	10	08/25/09	09/07/09	S8X6_FE120*, S8X7_NH140, S8Z3_CM010*, S8Z3_CM100	S8Z3_CM120*, S8Z3_CM180													
S8Z3_CM120	First X-Rays into NEH, ready to start Expt'l Ops	0		09/07/09	S8Z3_CM060*, S8Z3_CM110*	MS3_XE005, S8Z3_CM135													
2.06.01 XE System Mgmt & Integration																			
XE2330000	AMO Exp. Management - FY08	0	02/01/08A	09/30/08A	XE_RB	XE2330005													
XE_033	Management & Oversight - FY08	0	02/01/08A	09/30/08A	XE_RB	XE2100200, XE_036, XE_040, XE_050													
XE2330005	AMO Exp. Management - Oct08 thru Jul09	87*	10/01/08A	07/31/09	XE2330000	XE2330008*													
XE2350000	X-Ray Detector Management - Oct08 thru Jul09	87*	10/01/08A	07/31/09	XE1541015	XE2350010, XE2350020*													
XE_036	Management & Oversight - Oct08 thru Aug09	108*	10/01/08A	08/31/09	XE_033, XE_035	XE_038*													
XE_0491	Travel & Misc Expenses - Nov08 thru Sep09	130*	11/03/08A	09/30/09	XE_0482	XE_0492*													
2.06.02 Controls Subsystem																			
2.06.02.04 LBNL Laser Timing																			
XE2240020	LBL Timing Procurement (FY08)	0	02/01/08A	09/30/08A	XE_RB	XE12109011, XE2240030													
XE2240030	LBL Timing Procurement (FY09)	150	10/01/08A	10/28/09	XE2240020	XE_LOE													
XE2240130	Procure Controls	0	12/01/08A	03/11/09A	XE2240110	XE2240150													
XE2240150	Procure Heliac	0	12/01/08A	03/11/09A	XE2240130	XE2240170													
XE2240050	Fab Phase Cavities	6	12/01/08A	04/08/09		XE2240070, XE2240190*													
XE2240070	Procure Phase Cavity Electronics	6	12/01/08A	04/08/09	XE2240050	XE2240090, XE2240110													
XE2240110	Procure Water Chiller system	6	12/01/08A	04/08/09	XE2240070	XE2240130													
XE2240190	Phase Cavity Testing	12	04/09/09	04/24/09	XE2240050*	XE2240090*, XE2240170*													
XE2240090	Install Phase Cavities	10	04/27/09	05/08/09	XE2240070, XE2240190*														
XE2240170	Install Heliac	10	04/27/09	05/08/09	XE2240150, XE2240190*														

Activity ID	Activity Description	Rem Dur	Early Start	Early Finish	Predecessors	Successors	FY08			FY09			FY10				
2.06.02.08 2-D X-Ray Detector Controls																	
XE2281010	DAQ system & component design	0	03/03/08A	12/03/08A	XE_RB	XE2281020, XE2281025, XE2281030	█										
XE2282010	Mechanical Design & Analysis, testing	0	03/03/08A	12/03/08A	XE_RB	XE2282020	█										
XE2281020	DAQ Software Development (FY08)	0	04/28/08A	10/01/08A	XE2281010	XE2281025	█										
XE2281030	ASIC interface board schemetic/layout	0	05/27/08A	12/03/08A	XE2281010	XE2281040	█										
XE2281025	DAQ Software Development (FY09)	40	10/01/08A	05/26/09	XE2281010, XE2281020	XE2281080				█							
XE2281040	Fabrication of interface board	0	12/04/08A	01/14/09A	XE2281030	XE2281050				█							
XE2282020	Mech. Fabrication, first article (1st half)	9	12/09/08A	04/13/09	XE2282010	XE2282021*, XE2282025*				█							
XE2281050	Testing/commissioning DAQ - Functional	8	01/15/09A	04/10/09	XE2281040	XE2281060*, XE2281070*				█							
XE2281060	AVAIL: DAQ system - Functional	0		04/10/09	XE2281050*	XE2281070*				◆							
XE2281070	Testing/commissioning DAQ - Performance	124	04/13/09	10/02/09	XE2281050*, XE2281060*	XE2281080*					█						
XE2282021	Mech. Fabrication, first article (2nd half)	40	04/14/09	06/08/09	XE2282020*	XE2282025				█							
XE2282025	Mech. Test & Design Modifications, 1st Article	48	04/14/09	06/18/09	XE2282020*, XE2282021	XE2282030*				█							
XE2282030	Mech. Fabrication, Final System	52	06/19/09	09/01/09	XE2282025*	XE2282040*, XE2282050					█						
XE2282040	Mech. Assembly, Final System	20	09/02/09	09/29/09	XE2282030*	XE2282050*					█						
XE2282050	Mechanical Assembly Ready for Integration	0		09/29/09	XE2282030, XE2282040*	XE1644030						◆					
XE2281080	AVAIL: DAQ system - Performance	0		10/02/09	XE2281025, XE2281070*	XE_30						◆					
2.06.03 Commissioning																	
XE2100200	SLAC Commissioning Team - Oct08 thru Nov08	0	10/01/08A	11/26/08A	XE_033, XE_035	XE2100202, XE2320005	█										
XE2320005	Laser Commissioning Team - Oct08 thru Nov08	0	10/01/08A	11/26/08A	XE2100200	XE2320007	█										
XE2100100	LLNL Commissioning Team - Nov08 thru Jun09	65*	11/03/08A	06/30/09	XT1111035	XE2100212*				█							
XE2100202	SLAC Commissioning Team - Dec08	0	12/01/08A	12/19/08A	XE2100200	XE2100203, XE2100204, XE2100205, XE2100207, XE2100250, XE2100260, XE2100204	█										
XE2100203	Hire Comm. Staff for Start Jan09	0	12/01/08A	12/19/08A	XE2100202	XE2100204	█										
XE2100205	Hire Comm. Staff for Start Feb09	0*	12/01/08A	01/30/09A	XE2100202	XE2100206, XE2100211				█							
XE2100207	Hire Comm. Staff for Start Apr09	0	12/01/08A	03/31/09A	XE2100202	XE2100208*, XE2100213*				█							
XE2320007	Laser Commissioning - Dec08 thru Mar09	0	12/01/08A	03/31/09A	XE2320005	XE2320009*				█							
XE2320008	Hire Comm. Staff for Start Apr09	0	12/01/08A	03/31/09A	XE2100202	XE2100213*, XE2320009*				█							
XE2100260	Installation of B4C monitor	22	12/01/08A	04/30/09	XE2100202	XE_037				█							
XE2100250	Consultant (Teresa T.) - 121508 thru 022709	33*	12/15/08A	05/15/09	XE2100202	XE_0492				█							
XE2100204	SLAC Commissioning Team - Jan09	0	01/02/09A	01/30/09A	XE2100202, XE2100203	XE2100206	█										

Activity ID	Activity Description	Rem Dur	Early Start	Early Finish	Predecessors	Successors	FY08			FY09			FY10				
2.06.03 Commissioning																	
XE_0141	Test & Commission EDE	55*	01/12/09A	06/16/09	S8X5_BD060, S8Z3_CM040	XE27330035											
XE2100206	SLAC Commissioning Team - Feb09 thru Mar09	0	02/02/09A	03/31/09A	XE2100204, XE2100205	XE2100208*											
XE2100211	Hire Comm. Staff for Start Jul09	65*	02/02/09A	06/30/09	XE2100205	XE2100212*											
XE2100210	Gas Attenuator/Detector Commissioning	49	04/01/09	06/08/09	S8X6_FE072	S8Z3_CM100											
XE2100208	SLAC Commissioning Team - Apr09 thru Jun09	65	04/01/09	06/30/09	XE2100206*, XE2100207*	XE2100212*											
XE2100213	Hire Comm. Staff for Start Aug09	87	04/01/09	07/31/09	XE2100207*, XE2320008*	XE2100214*											
XE2320009	Laser Commissioning - Apr09 thru Sep09	130	04/01/09	09/30/09	XE2320007*, XE2320008*	XE2320011*, XE_0492*											
XE27330035	Start XES Commissioning	0		06/04/09	XE_0141, XE_0241*	MS3_S8010, S8Z3_CM100											
XE_0241	Test & Commission FEE	20	06/05/09	07/02/09	S8X6_FE072, S8X6_FE074, S8X6_FE080, S8X6_FE095, S8Z3_CM090*	S8Z3_CM100, XE27330035*, XE_0341, XE_4457											
S8Z3_CM085	Start FEE commissioning with Beam	0	06/19/09			MS3_XT005, S8Z3_CM100											
XE1620034	Integrate/Test Laser	40	06/29/09	08/24/09	S8X7_NH080*	XE1620044*											
XE1620039	Integrate/Test Diagnostics & Optic Transport	40	06/29/09	08/24/09	S8X7_NH080*	XE1620044*, XE2410010*											
XE2100212	SLAC Commissioning Team - Jul09	22	07/01/09	07/31/09	XE2100100*, XE2100208*, XE2100211*	XE2100214*											
MS3_S8010	Photon flux density measurement in FEE achieved	0		07/09/09*	S8Z3_CM100, XE1912160, XE27330035												
S8Z3_CM100	Photon flux density measurement in FEE achieved	0		07/24/09	S8Z3_CM050, S8Z3_CM080, S8Z3_CM085, S8Z3_CM090*	MS3_S8010, S8Z3_CM110, S8Z3_CM180											
XE27330030	Commission Diagnostic Equipment (Phase 1)	10	07/28/09	08/10/09	S8X7_NH080, S8X7_NH130*, XE1711210	XE_4457											
XE_0341	Test & Commission NEH	20	07/28/09	08/24/09	S8X7_NH130*, S8Z1_PB070, XE_0241	XE_0441											
XE2100214	SLAC Commissioning Team - Aug09 thru Sep09	43	08/03/09	09/30/09	XE2100212*, XE2100213*	XE2100216*, XE_0492*											
XE2330008	AMO Exp. Management - Aug/Sep09 (OPS)	43	08/03/09	09/30/09	XE1711010*, XE2330005*	XE2330010*											
XE2350020	X-Ray Detector Management - Aug/Sep09 (OPS)	43	08/03/09	09/30/09	XE2350000*	XE2350010*											
XE1620044	COMP: XES Laser Operating in NEH	0		08/24/09	XE1620034*, XE1620039*	MS3_XE080											
XE_58	Commission Far Hall - Laser Timing	80	08/25/09	12/14/09	XE2410010*	XE_4457											
XE2410010	Commission - Laser/Diagnostics/Optical Transport	105	08/25/09	01/20/10	XE1620039*	XE_4457, XE_58*											
XE_038	Management & Oversight - Sep09 (OPS)	22	09/01/09	09/30/09	XE_036*, XE_040	XE_037*											
XE_0441	Test & Commission Tunnel	20	09/10/09	10/07/09	S8X8_XT080*, XE_0341	XE_0551, XE_4457											
XE27330020	Commission Refocus Optics	10	09/11/09	09/24/09	S8X7_NH080, S8X7_NH130, XE1711210, XE1730500*	XE27330060, XE_4457											
XE27330010	Commission AMO for Basic Experiments	20	09/25/09	10/22/09	S8X7_NH080, S8X7_NH100*, XE1711210	XE27330060											
XE2100216	SLAC Commissioning Team - Oct09 thru Dec09	61	10/01/09	12/24/09	XE2100214*	XE_037											
XE2320011	Laser Commissioning - Oct09 thru Dec09	61	10/01/09	12/24/09	XE2320009*	XE_037											

Activity ID	Activity Description	Rem Dur	Early Start	Early Finish	Predecessors	Successors	FY08			FY09			FY10						
2.06.03 Commissioning																			
XE2330010	AMO Exp. Commissioning - Oct09 thru Jul10	214	10/01/09	07/30/10	XE2330008*	XE_LOE*													
XE2350010	X-Ray Detector Commissioning - Oct09 thru Jul10	214	10/01/09	07/30/10	XE2350000, XE2350020*	XE_LOE*													
XE_037	XES Commissioning - Oct09 thru Jul10	214	10/01/09	07/30/10	XE2100216, XE2100260, XE2320011, XE_038*	XE_LOE*													
XE_0492	Travel & Misc Expenses FY10	214	10/01/09	07/30/10	XE2100214*, XE2100250, XE2320009*, XE_0491*	XE_LOE*													
XE27330060	AVAIL: AMO HF Phy. Exp. for CD4	0		11/30/09	S8X7_NH105, XE1715006*, XE27330010, XE27330020	PM_DOE													
XE1644030	Final Acceptance Test of final Detector @SLAC	40	12/16/09	02/11/10	S8X7_NH080, XE2282050, XE254_2170*, XE254_2180*	XE1644040*													
XE_0551	Test & Commission Far Hall	20	01/28/10	02/24/10	S8X9_FH080, S8Z1_PB120*, XE_0441	XE_4457*													
XE1644040	COMP: Acceptance Tests for X-Ray Detector	0		02/11/10	XE1644030*	MS3_XT075, S8Z3_CM200													
2.06.04 Spares																			
2.06.04.01 Spares - PPS Stoppers																			
XE2410030	Submit MFD Job Order - Spare PPS Stoppers	60	10/02/09	12/24/09	MS_265*	XE2410060*													
XE2410060	MFD Fab/Assemble - Spare PPS Stoppers	80	12/28/09	04/19/10	XE2410030*	XE2410080*													
XE2410080	Test - Spare PPS Beam Stop Hardware (2)	40	04/20/10	06/14/10	XE2410060*	XE_LOE													
2.06.05 X-Ray Detectors																			
2.06.05.02 2-D X-Ray Detector																			
XE2523140	Test Full Lot ASIC #1 / Write report - bumped	0	02/01/08A	04/18/08A	XE_RB	XE2523150, XE254_2010, XE254_2060													
XE2520080	Cornell Labor/Materials _ Jan/Feb08 Inv.	0	02/15/08A	02/15/08A	XE_RB	XE2520090													
XE2520090	Cornell Labor/Materials Feb-Jul08 Inv.	0	04/01/08A	09/30/08A	XE2520080	XE2520100													
XE2520140	COMP: LDAC Review May2008	0		05/06/08A	XE_RB	XE2520150, XE254_0030, XE254_2020, XE254_2030, XE2523160, XE254_2160													
XE2523150	COMP: Delivery at SLAC of Full Lot Proto Detecto	0		05/08/08A	XE2523140	XE2523170, XE254_1080, XE254_2010, XE254_2070													
XE2523160	Continue Test Full Lot ASIC #1 - bumped	0	05/09/08A	09/05/08A	XE2523150	XE254_1130													
XE254_0010	Simulation Full Tiled DAQ & Control	0	07/01/08A	09/10/08A															
XE254_1080	Fabricate cooling system	0	09/08/08A	10/03/08A	XE2523160	XE254_1090													
XE254_2010	Layout of Detector Diode #2	0*	09/08/08A	01/15/09A	XE2523140, XE2523160	XE254_2020, XE254_2030													
XE2523170	Develop Test Program 2x1 Module	12	09/08/08A	04/16/09	XE2523160	XE254_1110													
XE254_2020	Prepare PO for Detector Diode #2	0*	09/22/08A	01/16/09A	XE2520140, XE254_2010	XE254_2030													
XE2520100	Cornell Labor/Materials Q4 CY08	0	10/01/08A	12/31/08A	XE2520090	XE2520110													
XE254_1010	REQD: Carrier board	0		10/01/08A		XE254_1030													
XE254_0020	Design and layout Proto 4 ASIC	0	11/03/08A	11/04/08A	XE_RB	XE254_0030													
XE2524080	Fabricate Proto 4 ASIC	0	11/04/08A	11/07/08A	XE254_0030	XE254_0050, XE254_0060													

Activity ID	Activity Description	Rem Dur	Early Start	Early Finish	Predecessors	Successors	FY08			FY09			FY10				
2.06.05.02 2-D X-Ray Detector																	
XE254_0030	COMP: Submission Proto 4 ASIC	0		11/04/08A	XE2520140, XE254_0020	XE2524080											
XE254_0050	Test Proto 4 ASIC	0	11/10/08A	11/11/08A	XE2524080	XE254_0060											
XE254_0060	Design and layout Proto 5 ASIC	0	11/12/08A	11/13/08A	XE2524080, XE254_0050	XE254_0070											
XE254_0070	COMP: Submission Proto 5 ASIC	0		11/13/08A	XE254_0060	XE2524093											
XE2524093	Fabricate Proto 5 ASIC	0	11/14/08A	11/19/08A	XE254_0070	XE254_0090											
XE2520150	COMP: LDAC Review Oct2008	0		11/14/08A	XE2520140	XE2520160											
XE254_0090	Test Proto 5 ASIC	0	11/20/08A	11/20/08A	XE2524093	XE254_2120											
XE2520110	Cornell Labor/Materials CY09	130*	01/02/09A	09/30/09	XE2520100	XE2520120*											
XE254_1050	REQD: Analog PCB	0		01/09/09A		XE254_1060, XE254_1070, XE254_1130											
XE254_1060	Digital PCB layout and fabrication (Cornell vers	0	01/12/09A	01/26/09A	XE254_1050	XE254_1070, XE254_1130											
XE254_2030	COMP: Submission Detector Diode #2	0		01/16/09A	XE2520140, XE254_2010, XE254_2020	XE2524150											
XE2524150	Fabricate Detector Diode #2	8	01/19/09A	04/10/09	XE254_2030	XE254_2050*											
XE254_2060	Design and layout of Full-lot ASIC #2	0	03/02/09A	03/04/09A	XE2523140, XE254_1090	XE254_2070, XE254_2080											
XE254_2070	Prepare PO for Full-lot ASIC #2	0	03/02/09A	03/06/09A	XE2520140, XE2523160, XE254_2060	XE254_2080											
XE254_2080	COMP: Submission Full-lot ASIC #2	0		03/09/09A	XE2520140, XE254_2060, XE254_2070	MS3_XT075, XE2524190											
XE2524190	Fabricate Full-lot ASIC #2	0	03/10/09A	03/13/09A	XE254_2080	XE254_2100											
XE254_2100	Test Full-lot ASIC #2 - not bumped	0	03/16/09A	03/20/09A	XE2524190	XE2524210											
XE2524210	Thinning & Bump Bond Full-lot ASIC #2	0	03/23/09A	03/27/09A	XE254_2100	XE254_2120											
XE254_2120	Test ASIC #2 Bumped	0	03/30/09A	03/31/09A	XE2524210, XE254_0090	XE254_2130											
XE254_1020	REQD: Strongback support (G. Haller)	0		03/31/09		XE254_1070											
XE254_1030	Fabricate/Test 2x2 Modules on Strongback	20	04/01/09	04/28/09	XE254_1010	XE254_1040*, XE254_1070*											
XE254_1130	Integrate DAQ with Fully Tiled PCB & Test	39	04/01/09	05/25/09	XE254_0010, XE254_1050, XE254_1060	XE254_1140*											
XE254_1040	Vacuum compatibility testing of 2x1 modules	10	04/08/09	04/21/09	XE254_1030*	XE254_1090											
XE254_2050	Test Detector Diode #2	5	04/13/09	04/17/09	XE2524150*	XE254_2130											
XE254_1070	Assemble one quadrant system	10	04/29/09	05/12/09	XE254_1020, XE254_1030*, XE254_1050, XE254_1060	XE254_1090*											
XE254_1090	Test one quadrant system (16 ASICs)	20	05/13/09	06/09/09	XE254_1040, XE254_1070*, XE254_1080	XE254_1100*, XE254_2060											
XE254_1100	Write calibration reports for 2x2 modules	20	05/13/09	06/09/09	XE254_1090*	XE254_1110*											
XE2520160	COMP: LDAC Review Mar2009	0		05/15/09*	XE2520150	XE254_2130											
XE254_1140	Prep/Test DAQ for Final Full-tiled Detector	90	05/26/09	09/29/09	XE254_1130*	XE254_1150*, XE254_2130*											

Activity ID	Activity Description	Rem Dur	Early Start	Early Finish	Predecessors	Successors	FY08			FY09			FY10					
2.06.05.02 2-D X-Ray Detector																		
XE254_1110	Ship tested 2x2 modules to SLAC	5	06/10/09	06/16/09	XE2523170, XE254_1100*	XE254_1120*												
XE254_1120	AVAIL: 2x2 modules (G. Haller)	0		06/16/09	XE254_1110*	XE254_2130												
XE254_2130	Assembly of 2x2 Modules	20	09/30/09	10/27/09	XE2520160, XE254_1120, XE254_1140*, XE254_2050,	XE254_2140*												
XE254_1150	Write Control/DAQ Documentation	30	09/30/09	11/10/09	XE254_1140*	XE254_2150												
XE2520120	Cornell Labor/Materials Oct09-Feb10	105	10/01/09	02/26/10	XE2520110*	XE_LOE												
XE254_2140	Test and calibrate 2x2 Modules	20	10/28/09	11/24/09	XE254_2130*	XE254_2150*												
XE254_2150	Ship final 2x2 Modules to SLAC	10	11/25/09	12/08/09	XE12120340, XE12120540, XE254_1150, XE254_2140*	XE254_2160*, XE254_2170*												
XE254_2160	2-D Detector received at SLAC	0		12/08/09	XE12070240, XE2523150, XE254_2150*	MS3_XE015												
XE254_2170	Calibration Checkout @ SLAC	5	12/09/09	12/15/09	XE254_2150*	XE1644030*, XE254_2180*												
XE254_2180	COMP: Test and Calibration Procedures Report	0		12/15/09	XE254_2170*	XE1644030*												
2.06.07 AMO Instrument																		
2.06.07.01 AMO Instrument - High Field Physics																		
XE1726010	Design/Procurement - TOF Storage Chamber	0	01/02/09A	01/19/09A	XE1714010	XE1726020												
XE1726020	Fab/Deliver - TOF Storage Chamber	0*	01/20/09A	03/31/09A	XE1726010	XE1726030												
XE1726030	RCV: TOF Storage Chamber	0	01/20/09A	03/31/09A	XE1726020	XE400020												
2.06.10 SXR Instrument																		
2.06.10.01 SXR - Integration Management & Design																		
XE_S21_010	Integration Engineering - SXR	124*	12/01/08A	09/22/09	XE_S1_0010	XE_S21_030												
XE_S21_040	Radiation Physics - SXR	167	01/02/09A	11/20/09	XE_S1_0010	XE_S10_007*, XE_S21_030*												
XE_S21_020	Design Integration - SXR	91	04/13/09	08/18/09	SX_E_020*, XE_S1_0010	XE_S21_030												
XE_S21_030	Readiness Reviews - SXR	21	11/23/09	12/21/09	XE_S1_0010, XE_S21_010, XE_S21_020, XE_S21_040*	XE_S1_0020												
2.06.10.02 Install SXR Instrument																		
XE_S26_140	Install Intensity/Beam View Monitor	4	09/10/09	09/15/09	XE_S16_003, XE_S16_139*	XE_S16_301												
XE_S26_080	Install Beam Stoppers	10	09/21/09	10/02/09	XE_S16_003, XE_S16_079*	XE_S16_301												
XE_S26_160	Install 2nd Station Pump Laser Transport	2	09/28/09	09/29/09	XE_S16_003, XE_S16_159*	XE_S16_301												
XE_S26_060	Install Detector - Spectrometer	3	09/30/09	10/02/09	XE_S16_003, XE_S16_059*	XE_S16_301												
XE_S26_110	Install M3 valves, bellows, & spools	5	10/27/09	11/02/09	XE_S16_003, XE_S16_109*	XE_S16_301												
XE_S26_180	Install Beam Dump	2	10/28/09	10/29/09	XE_S16_003, XE_S16_179*	XE_S16_301												
XE_S26_170	Install Diagnostic Station	1	11/30/09	11/30/09	XE_S16_003, XE_S16_169*	XE_S16_301												
XE_S26_100	Install M3 Mirror	1	12/07/09	12/07/09	XE_S16_003, XE_S16_099*	XE_S16_301												

Activity ID	Activity Description	Rem Dur	Early Start	Early Finish	Predecessors	Successors	FY08			FY09			FY10			
2.06.10.02 Install SXR Instrument																
XE_S26_050	Install Exit Slit	2	12/07/09	12/08/09	XE_S16_003, XE_S16_049*	XE_S16_301										
XE_S26_090	Install M2 Mirror	6	12/07/09	12/14/09	XE_S16_003, XE_S16_089*	XE_S16_301										
XE_S26_130	Install Upstream Sample Chamber	4	12/15/09	12/18/09	XE_S16_001*, XE_S16_129	XE_S16_301										
XE_S26_040	Install Collimators	5	12/15/09	12/21/09	XE_S16_001*, XE_S16_039	XE_S16_301										
XE_S26_070	Install Mono valves, bellows, & spools	5	12/15/09	12/21/09	XE_S16_001*, XE_S16_069	XE_S16_301										
XE_S26_120	Install Single Pulse Shutter	5	12/15/09	12/21/09	XE_S16_001*, XE_S16_119	XE_S16_301										
XE_S26_150	Install 1st Station Pump Laser Transport	5	12/15/09	12/21/09	XE_S14_012, XE_S14_022, XE_S14_032, XE_S14_042,	XE_S16_301										
XE_S26_010	Install M1 & Grating System	8	12/15/09	12/24/09	S8X7_NH060, XE12120240, XE_S16_001*, XE_S16_009	XE_S16_301										
XE_S26_020	Install ZO Stopper	10	12/15/09	12/29/09	XE_S16_001*, XE_S16_019	XE_S16_301										
XE_S26_030	Install Grating Aperture	10	12/15/09	12/29/09	XE_S16_001*, XE_S16_029	XE_S16_301										