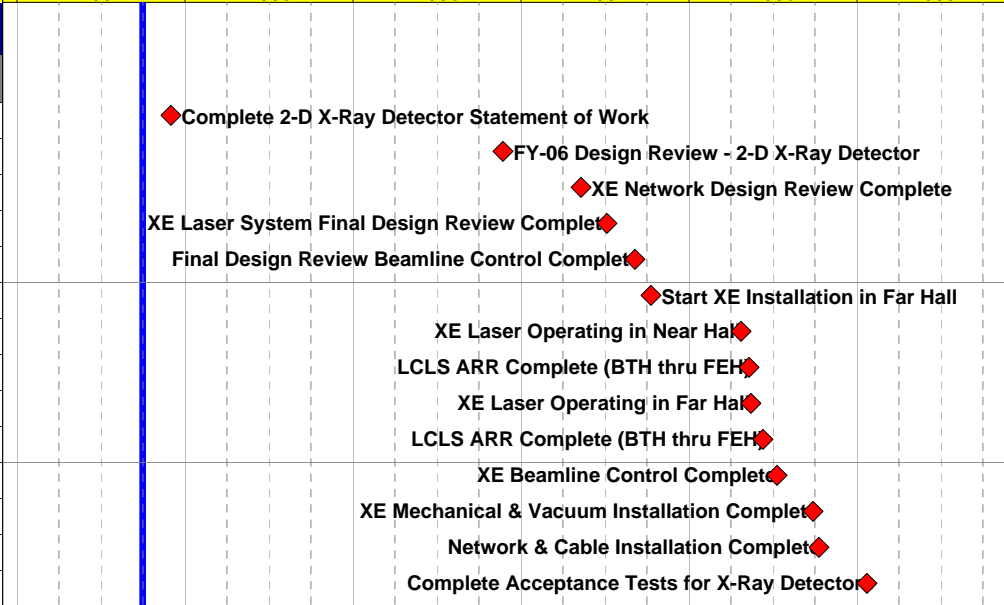


Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	2004	2005	2006	2007	2008	2009
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# 1 LCLS PROJECT - PED & CONSTRUCTION

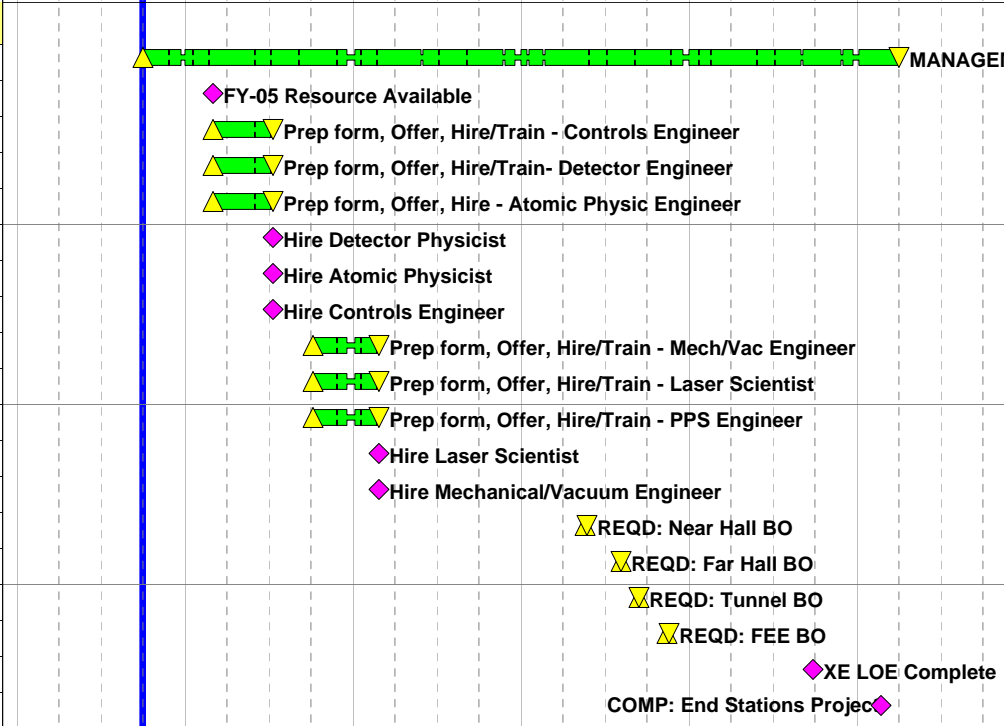
## 1.06 X-RAY END STATION SYSTEMS

MS3_XE030	Complete 2-D X-Ray Detector Statement of Work	0		01DEC04*
MS3_XE040	FY-06 Design Review - 2-D X-Ray Detector	0		20NOV06*
MS3_XE012	XE Network Design Review Complete	0		11MAY07*
MS3_XE020	XE Laser System Final Design Review Complete	0		03JUL07*
MS3_XE017	Final Design Review Beamline Control Complete	0		04SEP07*
MS3_XE060	Start XE Installation in Far Hall	0	08OCT07*	
MS3_XE080	XE Laser Operating in Near Hall	0		22APR08*
MS3_PM030	LCLS ARR Complete (BTH thru FEH)	0		09MAY08*
MS3_XE050	XE Laser Operating in Far Hall	0		14MAY08*
MS2_PM030	LCLS ARR Complete (BTH thru FEH)	0		09JUN08*
MS3_XE065	XE Beamline Control Complete	0		08JUL08*
MS3_XE075	XE Mechanical & Vacuum Installation Complete	0		23SEP08*
MS3_XE070	Network & Cable Installation Complete	0		10OCT08*
MS3_XE085	Complete Acceptance Tests for X-Ray Detectors	0		20JAN09*



### 1.06.01 System Management & Integration

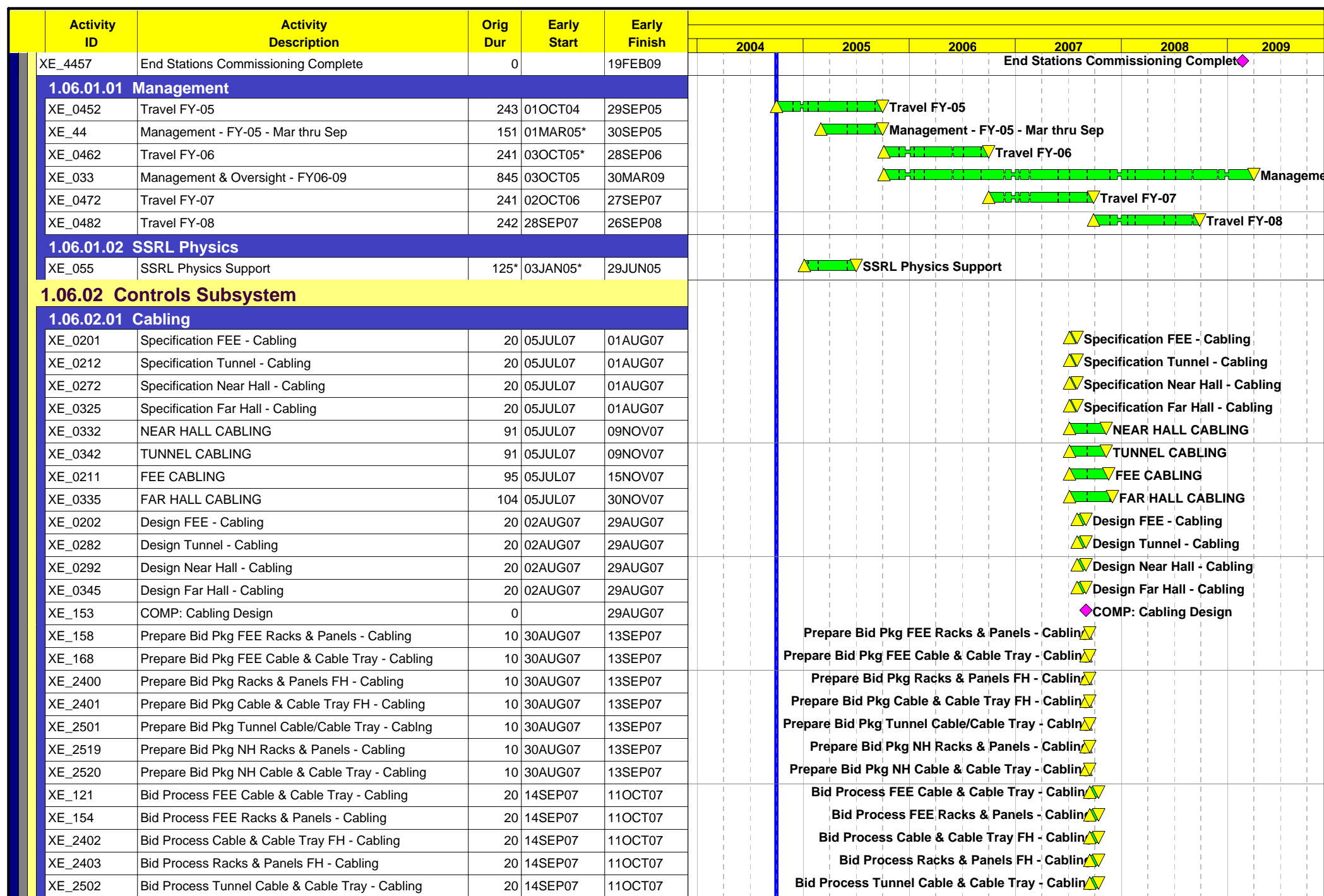
XE_0121	MANAGEMENT	1,089	01OCT04	30MAR09
XE_MS2005	FY-05 Resource Available	0		01MAR05*
XE_0232	Prep form, Offer, Hire/Train - Controls Engineer	90	02MAR05	07JUL05
XE_0422	Prep form, Offer, Hire/Train- Detector Engineer	90	02MAR05	07JUL05
XE_0432	Prep form, Offer, Hire - Atomic Physic Engineer	90	02MAR05	07JUL05
XE_M09	Hire Detector Physicist	0		07JUL05
XE_M12	Hire Atomic Physicist	0		07JUL05
XE_M13	Hire Controls Engineer	0		07JUL05
XE_0402	Prep form, Offer, Hire/Train - Mech/Vac Engineer	90	03OCT05	24FEB06
XE_0412	Prep form, Offer, Hire/Train - Laser Scientist	90	03OCT05	24FEB06
XE_0492	Prep form, Offer, Hire/Train - PPS Engineer	90	03OCT05	24FEB06
XE_M15	Hire Laser Scientist	0		24FEB06
XE_M16	Hire Mechanical/Vacuum Engineer	0		24FEB06
XE_0372	REQD: Near Hall BO	1	21MAY07	21MAY07
XE_0382	REQD: Far Hall BO	1	06AUG07	06AUG07
XE_0392	REQD: Tunnel BO	1	14SEP07	14SEP07
XE_0362	REQD: FEE BO	1	15NOV07	15NOV07
XE_LOE	XE LOE Complete	0		26SEP08
XE_30	COMP: End Stations Project	0		19FEB09



Start Date	01JUN01
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**LCLS INTEGRATED SCHEDULE**  
**X-Ray Endstations**

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Start Date 01JUN01  
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**LCLS  
INTEGRATED SCHEDULE  
X-Ray Endstations**



Activity ID	Activity Description	Orig Dur	Early Start	Early Finish								
					2004	2005	2006	2007	2008	2009		
XE_2521	Bid Process NH Cable & Cable Tray - Cabling	20	14SEP07	11OCT07								
XE_2522	Bid Process NH Racks & Panels - Cabling	20	14SEP07	11OCT07								
XE_141	Vendor Fab/Ship FEE Cable & Cable Tray - Cabling	20	15OCT07	09NOV07								
XE_156	Vendor Fab/Ship FEE Racks & Panels - Cabling	20	15OCT07	09NOV07								
XE_2506	Vendor Fab/Ship Tunnel Cable/Cable Tray - Cabling	20	15OCT07	09NOV07								
XE_2525	Vendor Fab/Ship NH Cable & Cable Tray - Cabling	20	15OCT07	09NOV07								
XE_2526	Vendor Fab/Ship NH Racks & Panels - Cabling	20	15OCT07	09NOV07								
XE_2406	Vendor Fab/Ship Cable & Cable Tray FH - Cabling	20	01NOV07	30NOV07								
XE_2407	Vendor Fab/Ship Racks & Panels FH - Cabling	20	01NOV07	30NOV07								
XE_151	RECV: FEE Cable & Cable Tray - Cabling	0		09NOV07								
XE_157	RECV: FEE Racks & Panels - Cabling	0		09NOV07								
XE_177	AVAIL: FEE Cabling	0		09NOV07								
XE_2508	RECV: Tunnel Cable & Cable Tray - Cabling	0		09NOV07								
XE_2518	REQD: Tunnel Beneficial Occupancy	0		09NOV07								
XE_2527	RECV: NH Cable & Cable Tray - Cabling	0		09NOV07								
XE_2528	RECV: NH Racks & Panels - Cabling	0		09NOV07								
XE_2538	REQD: Near Hall Beneficial Occupancy	0		09NOV07								
XE_2548	AVAIL: Near Hall Cabling	0		09NOV07								
XE_2558	AVAIL: Tunnel Cabling	0		09NOV07								
XE_167	REQD: FEE Beneficial Occupancy	0		15NOV07								
XE_2408	RECV: Cable & Cable Tray FH - Cabling	0		30NOV07								
XE_2409	RECV: Racks & Panels FH - Cabling	0		30NOV07								
XE_2419	REQD: Far Hall Beneficial Occupancy	0		30NOV07								
XE_2429	AVAIL: Far Hall Cabling	0		30NOV07								
<b>1.06.02.02 Network</b>												
XE_2200	Specification - Network	40	10JUL06*	01SEP06								
XE_2250	NETWORK	414	10JUL06	27MAR08								
XE_2201	Design FEE - Network	120	05SEP06	12MAR07								
XE_2202	Design Near Hall - Network	120	05SEP06	12MAR07								
XE_2205	Design Tunnel - Network	120	05SEP06	12MAR07								
XE_2208	Design Far Hall - Network	120	05SEP06	12MAR07								
XE_2213	COMP: Network Design	0		12MAR07								
XE_M18	COMP: Network Design Review	0		12MAR07								
XE_2203	Prepare Bid Pkg Electronics - Network	40	13MAR07	07MAY07								
XE_2230	Programming Near Hall - Network	80	13MAR07	03JUL07								
XE_2235	Programming Tunnel - Network	80	13MAR07	03JUL07								
XE_2238	Programming Far Hall - Network	80	13MAR07	03JUL07								

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**LCLS  
INTEGRATED SCHEDULE**

**X-Ray Endstations**



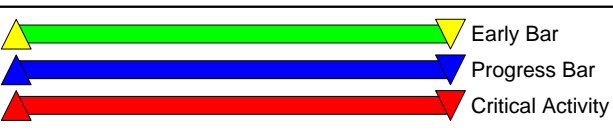
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish							
					2004	2005	2006	2007	2008	2009	
XE_2247	Programming FEE - Network	80	13MAR07	03JUL07					Programming FEE - Network		
XE_2206	Bid Process Electronics - Network	20	08MAY07	05JUN07					Bid Process Electronics - Network		
XE_2211	Vendor Fab/Ship Electronics - Network	100	26JUN07	14NOV07					Vendor Fab/Ship Electronics - Network		
XE_2223	COMP: CONTROLS DESIGN	0		03JUL07					COMP: CONTROLS DESIGN		
XE_2214	RECV: Electronics - Network	0		14NOV07					RECV: Electronics - Network		
XE_2216	REQD: FEE Beneficial Occupancy	0		14NOV07					REQD: FEE Beneficial Occupancy		
XE_2236	AVAIL: FEE Network	0		14NOV07					AVAIL: FEE Network		
XE_2248	REQD: Far Hall Beneficial Occupancy	0		14NOV07					REQD: Far Hall Beneficial Occupancy		
XE_2298	AVAIL: Far Hall Network	0		14NOV07					AVAIL: Far Hall Network		
XE_2240	REQD: Near Hall Beneficial Occupancy	0		13FEB08					REQD: Near Hall Beneficial Occupancy		
XE_2260	AVAIL: Near Hall Network	0		13FEB08					AVAIL: Near Hall Network		
XE_2244	COMP: Near Hall - Network	0		27MAR08					COMP: Near Hall - Network		
XE_2245	REQD: Tunnel Beneficial Occupancy	0		27MAR08					REQD: Tunnel Beneficial Occupancy		
XE_2285	AVAIL: Tunnel Network	0		27MAR08					AVAIL: Tunnel Network		
<b>1.06.02.03 PC Support</b>											
XE_2255	Specification - PC Support	45	13MAR07*	14MAY07					Specification - PC Support		
XE_2275	PC SUPPORT	276	13MAR07	28APR08					PC SUPPORT		
XE_2257	Design Near Hall - PC Support	40	15MAY07	11JUL07					Design Near Hall - PC Support		
XE_2277	Programming Near Hall - PC Support	80	22MAY07	13SEP07					Programming Near Hall - PC Support		
XE_2263	Design Far Hall - PC Support	40	12JUL07	06SEP07					Design Far Hall - PC Support		
XE_2287	Programming Far Hall - PC Support	80	19JUL07	08NOV07					Programming Far Hall - PC Support		
XE_2268	COMP: Design PC Support	0		06SEP07					COMP: Design PC Support		
XE_2258	Prepare Bid Pkg Domain Server - PC Support	20	07SEP07	04OCT07					Prepare Bid Pkg Domain Server - PC Support		
XE_2259	Prepare Bid Pkg File Server - PC Support	20	07SEP07	04OCT07					Prepare Bid Pkg File Server - PC Support		
XE_2299	Prepare Bid Pkg PCs/Software/Printer - PC Spt	20	07SEP07	04OCT07					Prepare Bid Pkg PCs/Software/Printer - PC Spt		
XE_2261	Bid Process Domain Server - PC Support	20	05OCT07	01NOV07					Bid Process Domain Server - PC Support		
XE_2262	Bid Process File Server - PC Support	20	05OCT07	01NOV07					Bid Process File Server - PC Support		
XE_2302	Bid Process PCs/Software/Printer - PC Support	20	05OCT07	01NOV07					Bid Process PCs/Software/Printer - PC Support		
XE_2266	Vendor Fab/Ship Domain Server - PC Support	60	05NOV07	15FEB08					Vendor Fab/Ship Domain Server - PC Support		
XE_2267	Vendor Fab/Ship File Server - PC Support	60	05NOV07	15FEB08					Vendor Fab/Ship File Server - PC Support		
XE_2297	Vendor Fab/Ship PCs/Software/Printer - PC Spt	60	05NOV07	15FEB08					Vendor Fab/Ship PCs/Software/Printer - PC Spt		
XE_2269	RECV: Domain Server - PC Support	0		15FEB08					RECV: Domain Server - PC Support		
XE_2270	RECV: File Server - PC Support	0		15FEB08					RECV: File Server - PC Support		
XE_2300	RECV: PCs/Software/Printer - PC Support	0		15FEB08					RECV: PCs/Software/Printer - PC Support		
XE_2317	REQD: Near Hall Ben Occ PC Support	0		15FEB08					REQD: Near Hall Ben Occ PC Support		
XE_2327	AVAIL: Far Hall PC Support	0		15FEB08					AVAIL: Far Hall PC Support		
XE_2337	AVAIL: Near Hall PC Support	0		15FEB08					AVAIL: Near Hall PC Support		

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**LCLS  
INTEGRATED SCHEDULE**

**X-Ray Endstations**






Activity ID	Activity Description	Orig Dur	Early Start	Early Finish							
					2004	2005	2006	2007	2008	2009	
XE_2307	REQD: Far Hall Ben Occ PC Support	0		28APR08							REQD: Far Hall Ben Occ PC Support
<b>1.06.02.04 Beamline Controls</b>											
XE_2600	Specification - Beamline Controls	120	10JUL06*	11JAN07							Specification - Beamline Controls
XE_300	Specification High Perf Data Storage - Beam Cntl	120	10JUL06*	11JAN07							Specification High Perf Data Storage - Beam Cntl
XE_2640	BEAMLINE CONTROLS	354	10JUL06	14DEC07							BEAMLINE CONTROLS
XE_111	Design High Perf Data Storage - Beamline Control	20	12JAN07	09FEB07							Design High Perf Data Storage - Beamline Control
XE_2601	Design Near Hall - Beamline Control	120	12JAN07	03JUL07							Design Near Hall - Beamline Control
XE_2602	Design Far Hall - Beamline Control	120	12JAN07	03JUL07							Design Far Hall - Beamline Control
XE_2620	Programming Near Hall - Beamline Control	80	22JAN07	14MAY07							Programming Near Hall - Beamline Control
XE_2603	COMP: Design Beamline Control	0		03JUL07							COMP: Design Beamline Control
XE_M17	Start Programming Beamline Controls	0		03JUL07							Start Programming Beamline Controls
XE_M30	COMP: Final Design Review Beamline Control	0		03JUL07							COMP: Final Design Review Beamline Control
XE_2604	Prep Bid Pkg Rotate/Transl Stage- Beamline Cntrl	20	05JUL07	01AUG07							Prep Bid Pkg Rotate/Transl Stage- Beamline Cntrl
XE_2605	Prepare Bid Pkg MC Software - Beamline Control	20	05JUL07	01AUG07							Prepare Bid Pkg MC Software - Beamline Control
XE_2606	Prep Bid Pkg MC Electronics - Beamline Control	20	05JUL07	01AUG07							Prep Bid Pkg MC Electronics - Beamline Control
XE_301	Prepare Bid Pkg Data Storage - Beamline Control	20	05JUL07	01AUG07							Prepare Bid Pkg Data Storage - Beamline Control
XE_2607	Bid Process Rotate/Transl Stage - Beamline Cntrl	20	02AUG07	29AUG07							Bid Process Rotate/Transl Stage - Beamline Cntrl
XE_2608	Bid Process MC Software - Beamline Control	20	02AUG07	29AUG07							Bid Process MC Software - Beamline Control
XE_2609	Bid Process MC Electronics - Beamline Control	20	02AUG07	29AUG07							Bid Process MC Electronics - Beamline Control
XE_302	Bid Process Data Storage - Beamline Control	20	02AUG07	29AUG07							Bid Process Data Storage - Beamline Control
XE_304	Vendor Fab/Ship Data Storage - Beamline Ctrl	40	20SEP07	14NOV07							Vendor Fab/Ship Data Storage - Beamline Ctrl
XE_314	Vendor Ship Computers	40	20SEP07	14NOV07							Vendor Ship Computers
XE_2613	Vendor Fab/Ship Rotate/Transl Stage - Beam Cntl	60	20SEP07	14DEC07							Vendor Fab/Ship Rotate/Transl Stage - Beam Cntl
XE_2614	Vendor Fab/Ship MC Software - Beamline Control	60	20SEP07	14DEC07							Vendor Fab/Ship MC Software - Beamline Control
XE_2615	Vendor Fab/Ship MC Electronics - Beamline Cntrl	60	20SEP07	14DEC07							Vendor Fab/Ship MC Electronics - Beamline Cntrl
XE_305	RECV: High Perf Data Storage - Beamline Control	0		14NOV07							RECV: High Perf Data Storage - Beamline Control
XE_2616	RECV: Rotate/Translate Stages - Beamline Control	0		14DEC07							RECV: Rotate/Translate Stages - Beamline Control
XE_2617	RECV: MC Software - Beamline Control	0		14DEC07							RECV: MC Software - Beamline Control
XE_2618	RECV: MC Electronics - Beamline Control	0		14DEC07							RECV: MC Electronics - Beamline Control
XE_2619	REQD: Near Hall Beneficial Occupancy	0		14DEC07							REQD: Near Hall Beneficial Occupancy
XE_2626	REQD: Far Hall Beneficial Occupancy	0		14DEC07							REQD: Far Hall Beneficial Occupancy
XE_2639	AVAIL: Near Hall Beamline Control	0		14DEC07							AVAIL: Near Hall Beamline Control
XE_2646	AVAIL: Far Hall Beamline Control	0		14DEC07							AVAIL: Far Hall Beamline Control
<b>1.06.02.05 X-Ray PPS</b>											
XE_3000	Specification Near Hall - X-Ray PPS	20	27FEB06	24MAR06							Specification Near Hall - X-Ray PPS
XE_400	Specification Tunnel - X-Ray PPS	20	27FEB06	24MAR06							Specification Tunnel - X-Ray PPS
XE_425	Specification Far Hall - PPS	20	27FEB06	24MAR06							Specification Far Hall - PPS

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**INTEGRATED SCHEDULE**  
X-Ray Endstations

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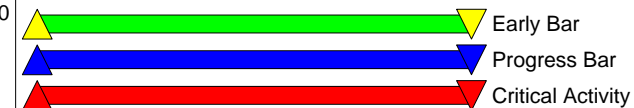
 Early Bar  
 Progress Bar  
 Critical Activity



Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
XE_81	Specification FEE - X-Ray PPS	20	27FEB06	24MAR06				▲▼ Specification FEE - X-Ray PPS		
XE_3030	NEAR HALL X-RAY PPS	303	27FEB06	21MAY07				▲▼ NEAR HALL X-RAY PPS		
XE_455	FAR HALL PPS	356	27FEB06	06AUG07				▲▼ FAR HALL PPS		
XE_450	TUNNEL X-Ray PPS	384	27FEB06	14SEP07				▲▼ TUNNEL X-Ray PPS		
XE_161	FEE PPS	428	27FEB06	15NOV07				▲▼ FEE PPS		
XE_3001	Design Near Hall - X-Ray PPS	40	27MAR06	19MAY06				▲▼ Design Near Hall - X-Ray PPS		
XE_401	Design Tunnel - X-Ray PPS	40	27MAR06	19MAY06				▲▼ Design Tunnel - X-Ray PPS		
XE_426	Design Far Hall - PPS	40	27MAR06	19MAY06				▲▼ Design Far Hall - PPS		
XE_80	Design FEE - PPS	40	27MAR06	19MAY06				▲▼ Design FEE - PPS		
XE_3031	Safety Review Near Hall - X-Ray PPS	40	22MAY06	18JUL06				▲▼ Safety Review Near Hall - X-Ray PPS		
XE_451	Safety Review Tunnel - X-Ray PPS	40	22MAY06	18JUL06				▲▼ Safety Review Tunnel - X-Ray PPS		
XE_456	Safety Review Far Hall - PPS	40	22MAY06	18JUL06				▲▼ Safety Review Far Hall - PPS		
XE_90	Safety Review FEE - PPS	40	22MAY06	18JUL06				▲▼ Safety Review FEE - PPS		
XE_3002	COMP: Near Hall Design - X-Ray PPS	0		18JUL06				◆ COMP: Near Hall Design - X-Ray PPS		
XE_402	COMP: Tunnel Design - X-Ray PPS	0		18JUL06				◆ COMP: Tunnel Design - X-Ray PPS		
XE_427	COMP: Far Hall Design - PPS	0		18JUL06				◆ COMP: Far Hall Design - PPS		
XE_91	COMP: FEE Design - X-Ray PPS	0		18JUL06				◆ COMP: FEE Design - X-Ray PPS		
XE_M25	X-Ray PPS Final Design Review	0		18JUL06				◆ X-Ray PPS Final Design Review		
XE_100	Prepare Bid Pkg FEE Alarms/Signs - PPS	10	02OCT06	13OCT06				▲▼ Prepare Bid Pkg FEE Alarms/Signs - PPS		
XE_112	Prep Bid Pkg FEE Beam Stop Hardware - X-Ray PPS	10	02OCT06	13OCT06				▲▼ Prep Bid Pkg FEE Beam Stop Hardware - X-Ray PPS		
XE_12	Prep Bid Pkg NH Beam Stop Hardware - X-Ray PPS	10	02OCT06	13OCT06				▲▼ Prep Bid Pkg NH Beam Stop Hardware - X-Ray PPS		
XE_120	Prepare Bid Pkg FEE Containment/Interlock - PPS	10	02OCT06	13OCT06				▲▼ Prepare Bid Pkg FEE Containment/Interlock - PPS		
XE_3003	Prepare Bid Pkg Near Hall Alarms/Signs-X-RayPPS	10	02OCT06	13OCT06				▲▼ Prepare Bid Pkg Near Hall Alarms/Signs-X-RayPPS		
XE_3004	Prep Bid Pkg NHall Contain/Interlock - X-Ray PPS	10	02OCT06	13OCT06				▲▼ Prep Bid Pkg NHall Contain/Interlock - X-Ray PPS		
XE_3005	Prepare Near Hall Bid Pkg Detectors - X-Ray PPS	10	02OCT06	13OCT06				▲▼ Prepare Near Hall Bid Pkg Detectors - X-Ray PPS		
XE_403	Prepare Bid Pkg Tunnel Alarms/Signs - X-Ray PPS	10	02OCT06	13OCT06				▲▼ Prepare Bid Pkg Tunnel Alarms/Signs - X-Ray PPS		
XE_404	Prep Bid Pkg Tunnel Containmt/Interlock-X-RayPPS	10	02OCT06	13OCT06				▲▼ Prep Bid Pkg Tunnel Containmt/Interlock-X-RayPPS		
XE_405	Prepare Bid Pkg Tunnel Detectors - X-Ray PPS	10	02OCT06	13OCT06				▲▼ Prepare Bid Pkg Tunnel Detectors - X-Ray PPS		
XE_428	Prepare Bid Pkg Far Hall Alarms/Signs - PPS	10	02OCT06	13OCT06				▲▼ Prepare Bid Pkg Far Hall Alarms/Signs - PPS		
XE_429	Prep Bid Pkg Far Hall Contain/Interlock - PPS	10	02OCT06	13OCT06				▲▼ Prep Bid Pkg Far Hall Contain/Interlock - PPS		
XE_430	Prepare Far Hall Bid Pkg Detectors - PPS	10	02OCT06	13OCT06				▲▼ Prepare Far Hall Bid Pkg Detectors - PPS		
XE_92	Prepare Bid Pkg FEE Detectors - PPS	10	02OCT06	13OCT06				▲▼ Prepare Bid Pkg FEE Detectors - PPS		
XE_2333	Vendor Fab Beam Stop Hardware	91	02OCT06	26FEB07				▲▼ Vendor Fab Beam Stop Hardware		
XE_4447	Procure Beam Stop Hardware	91	02OCT06	26FEB07				▲▼ Procure Beam Stop Hardware		
XE_101	Bid Process FEE Alarms/Signs - PPS	40	16OCT06	12DEC06				▲▼ Bid Process FEE Alarms/Signs - PPS		
XE_1250	Bid Process FEE Containment/Interlock - PPS	40	16OCT06	12DEC06				▲▼ Bid Process FEE Containment/Interlock - PPS		
XE_13	Bid Process NH Beam Stop Hardware - X-Ray PPS	40	16OCT06	12DEC06				▲▼ Bid Process NH Beam Stop Hardware - X-Ray PPS		

**LCLS  
INTEGRATED SCHEDULE**

**X-Ray Endstations**



Start Date 01JUN01  
Finish Date 31MAR09  
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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish							
					2004	2005	2006	2007	2008	2009	
XE_222	Bid Process FEE Beam Stop Hardware - X-Ray PPS	40	16OCT06	12DEC06							▲▲▲ Bid Process FEE Beam Stop Hardware - X-Ray PPS
XE_3006	Bid Process Near Hall Alarms/Signs - X-Ray PPS	40	16OCT06	12DEC06							▲▲▲ Bid Process Near Hall Alarms/Signs - X-Ray PPS
XE_3007	Bid Process NHall Containmnt/Interlock-X-Ray PPS	40	16OCT06	12DEC06							▲▲▲ Bid Process NHall Containmnt/Interlock-X-Ray PPS
XE_3008	Bid Process Near Hall Detectors - X-Ray PPS	40	16OCT06	12DEC06							▲▲▲ Bid Process Near Hall Detectors - X-Ray PPS
XE_406	Bid Process Tunnel Alarms/Signs - X-Ray PPS	40	16OCT06	12DEC06							▲▲▲ Bid Process Tunnel Alarms/Signs - X-Ray PPS
XE_407	Bid Process Tunnel Containmt/Interlock-X-Ray PPS	40	16OCT06	12DEC06							▲▲▲ Bid Process Tunnel Containmt/Interlock-X-Ray PPS
XE_408	Bid Process Tunnel Detectors - X-Ray PPS	40	16OCT06	12DEC06							▲▲▲ Bid Process Tunnel Detectors - X-Ray PPS
XE_431	Bid Process Far Hall Alarms/Signs - PPS	40	16OCT06	12DEC06							▲▲▲ Bid Process Far Hall Alarms/Signs - PPS
XE_432	Bid Process Far Hall Containmnt/Interlock - PPS	40	16OCT06	12DEC06							▲▲▲ Bid Process Far Hall Containmnt/Interlock - PPS
XE_433	Bid Process Far Hall Detectors - PPS	40	16OCT06	12DEC06							▲▲▲ Bid Process Far Hall Detectors - PPS
XE_93	Bid Process FEE Detectors - PPS	40	16OCT06	12DEC06							▲▲▲ Bid Process FEE Detectors - PPS
XE_103	Vendor Fab/Ship FEE Alarms/Signs - PPS	40	14DEC06	26FEB07							▲▲▲ Vendor Fab/Ship FEE Alarms/Signs - PPS
XE_15	Vendor Fab/Ship NH Beam Stop Hardware-X-Ray PPS	40	14DEC06	26FEB07							▲▲▲ Vendor Fab/Ship NH Beam Stop Hardware-X-Ray PPS
XE_182	Vendor Fab/Ship FEE Containment/Interlock - PPS	40	14DEC06	26FEB07							▲▲▲ Vendor Fab/Ship FEE Containment/Interlock - PPS
XE_242	Vendor Fab/Ship FEE Beam Stop Hardware-X-Ray PPS	40	14DEC06	26FEB07							▲▲▲ Vendor Fab/Ship FEE Beam Stop Hardware-X-Ray PPS
XE_3012	Vendor Fab/Ship Near Hall Alarms/Signs-X-Ray PPS	40	14DEC06	26FEB07							▲▲▲ Vendor Fab/Ship Near Hall Alarms/Signs-X-Ray PPS
XE_3013	Vendor Fab/Ship NHall Contain/Interlock-X-RayPPS	40	14DEC06	26FEB07							▲▲▲ Vendor Fab/Ship NHall Contain/Interlock-X-RayPPS
XE_3014	Vendor Fab/Ship Near Hall Detectors -X-Ray PPS	40	14DEC06	26FEB07							▲▲▲ Vendor Fab/Ship Near Hall Detectors -X-Ray PPS
XE_412	Vendor Fab/Ship Tunnel Alarms/Signs - X-Ray PPS	40	14DEC06	26FEB07							▲▲▲ Vendor Fab/Ship Tunnel Alarms/Signs - X-Ray PPS
XE_413	Vendor Ship Tunnel Contain/Interlock-X-RayPPS	40	14DEC06	26FEB07							▲▲▲ Vendor Ship Tunnel Contain/Interlock-X-RayPPS
XE_414	Vendor Fab/Ship Tunnel Detectors - X-Ray PPS	40	14DEC06	26FEB07							▲▲▲ Vendor Fab/Ship Tunnel Detectors - X-Ray PPS
XE_437	Vendor Fab/Ship Far Hall Alarms/Signs - PPS	40	14DEC06	26FEB07							▲▲▲ Vendor Fab/Ship Far Hall Alarms/Signs - PPS
XE_438	Vendor Fab/Ship Far Hall Contain/Interlock- PPS	40	14DEC06	26FEB07							▲▲▲ Vendor Fab/Ship Far Hall Contain/Interlock- PPS
XE_439	Vendor Fab/Ship Far Hall Detectors - PPS	40	14DEC06	26FEB07							▲▲▲ Vendor Fab/Ship Far Hall Detectors - PPS
XE_95	Vendor Fab/Ship FEE Detectors - PPS	40	14DEC06	26FEB07							▲▲▲ Vendor Fab/Ship FEE Detectors - PPS
XE_104	RECV: FEE Alarms/Signs - PPS	0		26FEB07							◆ RECV: FEE Alarms/Signs - PPS
XE_116	AVAIL: FEE X-Ray PPS	0		26FEB07							◆ AVAIL: FEE X-Ray PPS
XE_16	RECV: NH Beam Stop Hardware - X-Ray PPS	0		26FEB07							◆ RECV: NH Beam Stop Hardware - X-Ray PPS
XE_184	RECV: FEE Containment/Interlock - PPS	0		26FEB07							◆ RECV: FEE Containment/Interlock - PPS
XE_212	RECV: FEE Beam Stop Hardware - X-Ray PPS	0		26FEB07							◆ RECV: FEE Beam Stop Hardware - X-Ray PPS
XE_3015	RECV: Near Hall Alarms/Signs - X-Ray PPS	0		26FEB07							◆ RECV: Near Hall Alarms/Signs - X-Ray PPS
XE_3016	RECV: Near Hall Containment/Interlock-X-Ray PPS	0		26FEB07							◆ RECV: Near Hall Containment/Interlock-X-Ray PPS
XE_3017	RECV: Near Hall Detectors - X-Ray PPS	0		26FEB07							◆ RECV: Near Hall Detectors - X-Ray PPS
XE_3028	AVAIL: Near Hall X-Ray PPS	0		26FEB07							◆ AVAIL: Near Hall X-Ray PPS
XE_415	RECV: Tunnel Alarms/Signs - X-Ray PPS	0		26FEB07							◆ RECV: Tunnel Alarms/Signs - X-Ray PPS
XE_416	RECV: Tunnel Containment/Interlock - X-Ray PPS	0		26FEB07							◆ RECV: Tunnel Containment/Interlock - X-Ray PPS
XE_417	RECV: Tunnel Detectors - X-Ray PPS	0		26FEB07							◆ RECV: Tunnel Detectors - X-Ray PPS

**LCLS  
INTEGRATED SCHEDULE**

**X-Ray Endstations**



Start Date 01JUN01  
Finish Date 31MAR09  
Data Date 01OCT04  
Run Date 29APR05 13:51

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish							
					2004	2005	2006	2007	2008	2009	
XE_440	RECV: Far Hall Alarms/Signs - PPS	0		26FEB07				◆	RECV: Far Hall Alarms/Signs - PPS		
XE_441	RECV: Far Hall Containment/Interlock - PPS	0		26FEB07				◆	RECV: Far Hall Containment/Interlock - PPS		
XE_442	RECV: Far Hall Detectors - PPS	0		26FEB07				◆	RECV: Far Hall Detectors - PPS		
XE_453	AVAIL: Far Hall X-Ray PPS	0		26FEB07				◆	AVAIL: Far Hall X-Ray PPS		
XE_468	AVAIL: Tunnel X-Ray PPS	0		26FEB07				◆	AVAIL: Tunnel X-Ray PPS		
XE_96	RECV: FEE Detectors - PPS	0		26FEB07				◆	RECV: FEE Detectors - PPS		
XE_132	Assemble FEE Beam Stop Hardware - X-Ray PPS	40	27FEB07	23APR07				▲▼	Assemble FEE Beam Stop Hardware - X-Ray PPS		
XE_17	Assemble NH Beam Stop Hardware - X-Ray PPS	40	27FEB07	23APR07				▲▼	Assemble NH Beam Stop Hardware - X-Ray PPS		
XE_233	Procure Beam Stop Hardware	91	27FEB07	05JUL07				▲▼	Procure Beam Stop Hardware		
XE_44478	Procure Beam Stop Hardware	91	27FEB07	05JUL07				▲▼	Procure Beam Stop Hardware		
XE_3018	REQD: Near Hall Beneficial Occupancy	0		21MAY07				◆	REQD: Near Hall Beneficial Occupancy		
XE_44479	Assemble Beam Stop Hardware	20	06JUL07	02AUG07				▲▼	Assemble Beam Stop Hardware		
XE_23336	Assemble Beam Stop Hardware	40	06JUL07	30AUG07				▲▼	Assemble Beam Stop Hardware		
XE_443	REQD: Far Hall Beneficial Occupancy	0		06AUG07				◆	REQD: Far Hall Beneficial Occupancy		
XE_418	REQD: Tunnel Beneficial Occupancy - X-Ray PPS	0		14SEP07				◆	REQD: Tunnel Beneficial Occupancy - X-Ray PPS		
XE_106	REQD: FEE Ben Occ PPS	0		15NOV07				◆	REQD: FEE Ben Occ PPS		
<b>1.06.02.06 X-Ray MPS</b>											
XE_5015	Specification FEE - MPS	20	27FEB06	24MAR06				▲▼	Specification FEE - MPS		
XE_5024	Specification Near Hall - MPS	20	27FEB06	24MAR06				▲▼	Specification Near Hall - MPS		
XE_5048	Specification Tunnel - MPS	20	27FEB06	24MAR06				▲▼	Specification Tunnel - MPS		
XE_5072	Specification Far Hall - MPS	20	27FEB06	24MAR06				▲▼	Specification Far Hall - MPS		
XE_5124	NEAR HALL MPS	303	27FEB06	21MAY07				▲▼	NEAR HALL MPS		
XE_5112	FAR HALL MPS	356	27FEB06	06AUG07				▲▼	FAR HALL MPS		
XE_5108	TUNNEL MPS	384	27FEB06	14SEP07				▲▼	TUNNEL MPS		
XE_5105	FEE MPS	428	27FEB06	15NOV07				▲▼	FEE MPS		
XE_5014	Design FEE - MPS	40	27MAR06	19MAY06				▲▼	Design FEE - MPS		
XE_5025	Design Near Hall - MPS	40	27MAR06	19MAY06				▲▼	Design Near Hall - MPS		
XE_5049	Design Tunnel - MPS	40	27MAR06	19MAY06				▲▼	Design Tunnel - MPS		
XE_5073	Design Far Hall - MPS	40	27MAR06	19MAY06				▲▼	Design Far Hall - MPS		
XE_5098	Safety Review - MPS	40	22MAY06	18JUL06				▲▼	Safety Review - MPS		
XE_5102	Safety Review - MPS	40	22MAY06	18JUL06				▲▼	Safety Review - MPS		
XE_5104	Safety Review - MPS	40	22MAY06	18JUL06				▲▼	Safety Review - MPS		
XE_5114	Safety Review - MPS	40	22MAY06	18JUL06				▲▼	Safety Review - MPS		
XE_3333	COMP: XRAY MPS, PPS DESIGN	0		18JUL06				◆	COMP: XRAY MPS, PPS DESIGN		
XE_5016	COMP: FEE Design - MPS	0	19JUL06	18JUL06				▲	COMP: FEE Design - MPS		
XE_5026	COMP: Near Hall Design - MPS	0	19JUL06	18JUL06				▲	COMP: Near Hall Design - MPS		
XE_5050	COMP: Tunnel Design - MPS	0	19JUL06	18JUL06				▲	COMP: Tunnel Design - MPS		




Start Date 01JUN01  
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**X-Ray Endstations**

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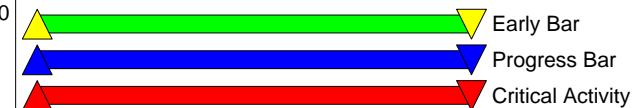
 Early Bar  
 Progress Bar  
 Critical Activity



Activity ID	Activity Description	Orig Dur	Early Start	Early Finish							
					2004	2005	2006	2007	2008	2009	
XE_5074	COMP: Far Hall Design - MPS	0	19JUL06	18JUL06							COMP: Far Hall Design - MPS
XE_5000	Prepare Bid Pkg FEE Sensors - MPS	10	19JUL06	01AUG06							Prepare Bid Pkg FEE Sensors - MPS
XE_5007	Prepare Bid Pkg FEE Interlocks - MPS	10	19JUL06	01AUG06							Prepare Bid Pkg FEE Interlocks - MPS
XE_5017	Prepare Bid Pkg FEE Valves - MPS	10	19JUL06	01AUG06							Prepare Bid Pkg FEE Valves - MPS
XE_5001	Bid Process FEE Sensors - MPS	40	02AUG06	27SEP06							Bid Process FEE Sensors - MPS
XE_5009	Bid Process FEE Interlocks - MPS	40	02AUG06	27SEP06							Bid Process FEE Interlocks - MPS
XE_5018	Bid Process FEE Valves - MPS	40	02AUG06	27SEP06							Bid Process FEE Valves - MPS
XE_5027	Prepare Bid Pkg Near Hall Sensors - MPS	10	02OCT06	13OCT06							Prepare Bid Pkg Near Hall Sensors - MPS
XE_5028	Prep Bid Pkg Near Hall Interlocks - MPS	10	02OCT06	13OCT06							Prep Bid Pkg Near Hall Interlocks - MPS
XE_5029	Prepare Near Hall Bid Pkg Valves - MPS	10	02OCT06	13OCT06							Prepare Near Hall Bid Pkg Valves - MPS
XE_5051	Prepare Bid Pkg Tunnel Sensors - MPS	10	02OCT06	13OCT06							Prepare Bid Pkg Tunnel Sensors - MPS
XE_5052	Prep Bid Pkg Tunnel Interlocks - MPS	10	02OCT06	13OCT06							Prep Bid Pkg Tunnel Interlocks - MPS
XE_5053	Prepare Bid Pkg Tunnel Valves - MPS	10	02OCT06	13OCT06							Prepare Bid Pkg Tunnel Valves - MPS
XE_5075	Prepare Bid Pkg Far Hall Sensors - MPS	10	02OCT06	13OCT06							Prepare Bid Pkg Far Hall Sensors - MPS
XE_5076	Prep Bid Pkg Far Hall Interlocks - MPS	10	02OCT06	13OCT06							Prep Bid Pkg Far Hall Interlocks - MPS
XE_5077	Prepare Far Hall Bid Pkg Valves - MPS	10	02OCT06	13OCT06							Prepare Far Hall Bid Pkg Valves - MPS
XE_5003	Vendor Fab/Ship FEE Sensors - MPS	40	03OCT06	29NOV06							Vendor Fab/Ship FEE Sensors - MPS
XE_5010	Vendor Fab/Ship FEE Interlocks - MPS	40	03OCT06	29NOV06							Vendor Fab/Ship FEE Interlocks - MPS
XE_5020	Vendor Fab/Ship FEE Valves - MPS	40	03OCT06	29NOV06							Vendor Fab/Ship FEE Valves - MPS
XE_5030	Bid Process Near Hall Sensors - MPS	40	16OCT06	12DEC06							Bid Process Near Hall Sensors - MPS
XE_5031	Bid Process Near Hall Interlock - MPS	40	16OCT06	12DEC06							Bid Process Near Hall Interlock - MPS
XE_5032	Bid Process Near Hall Valves - MPS	40	16OCT06	12DEC06							Bid Process Near Hall Valves - MPS
XE_5054	Bid Process Tunnel Sensors - MPS	40	16OCT06	12DEC06							Bid Process Tunnel Sensors - MPS
XE_5055	Bid Process Tunnel Interlocks - MPS	40	16OCT06	12DEC06							Bid Process Tunnel Interlocks - MPS
XE_5056	Bid Process Tunnel Valves - MPS	40	16OCT06	12DEC06							Bid Process Tunnel Valves - MPS
XE_5078	Bid Process Far Hall Sensors - MPS	40	16OCT06	12DEC06							Bid Process Far Hall Sensors - MPS
XE_5079	Bid Process Far Hall Interlock - MPS	40	16OCT06	12DEC06							Bid Process Far Hall Interlock - MPS
XE_5080	Bid Process Far Hall Valves - MPS	40	16OCT06	12DEC06							Bid Process Far Hall Valves - MPS
XE_5115	AVAIL: FEE X-Ray MPS	0		29NOV06							AVAIL: FEE X-Ray MPS
XE_5004	RECV: FEE Sensors - MPS	0	30NOV06	29NOV06							RECV: FEE Sensors - MPS
XE_5011	RECV: FEE Interlocks - MPS	0	30NOV06	29NOV06							RECV: FEE Interlocks - MPS
XE_5021	RECV: FEE Valves - MPS	0	30NOV06	29NOV06							RECV: FEE Valves - MPS
XE_5036	Vendor Fab/Ship Near Hall Sensors - MPS	40	14DEC06	26FEB07							Vendor Fab/Ship Near Hall Sensors - MPS
XE_5037	Vendor Fab/Ship Near Hall Interlocks - MPS	40	14DEC06	26FEB07							Vendor Fab/Ship Near Hall Interlocks - MPS
XE_5038	Vendor Fab/Ship Near Hall Valves - MPS	40	14DEC06	26FEB07							Vendor Fab/Ship Near Hall Valves - MPS
XE_5060	Vendor Fab/Ship Tunnel Sensors - MPS	40	14DEC06	26FEB07							Vendor Fab/Ship Tunnel Sensors - MPS
XE_5061	Vendor Fab/Ship Tunnel Interlocks - MPS	40	14DEC06	26FEB07							Vendor Fab/Ship Tunnel Interlocks - MPS

**LCLS  
INTEGRATED SCHEDULE**

**X-Ray Endstations**



Start Date 01JUN01  
 Finish Date 31MAR09  
 Data Date 01OCT04  
 Run Date 29APR05 13:51

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
XE_5062	Vendor Fab/Ship Tunnel Valves - MPS	40	14DEC06	26FEB07				▲▼	Vendor Fab/Ship Tunnel Valves - MPS	
XE_5084	Vendor Fab/Ship Far Hall Sensors - MPS	40	14DEC06	26FEB07				▲▼	Vendor Fab/Ship Far Hall Sensors - MPS	
XE_5085	Vendor Fab/Ship Far Hall Interlocks- MPS	40	14DEC06	26FEB07				▲▼	Vendor Fab/Ship Far Hall Interlocks- MPS	
XE_5086	Vendor Fab/Ship Far Hall Valves - MPS	40	14DEC06	26FEB07				▲▼	Vendor Fab/Ship Far Hall Valves - MPS	
XE_5096	AVAIL: Tunnel X-Ray MPS	0		26FEB07				◆	AVAIL: Tunnel X-Ray MPS	
XE_5100	AVAIL: Far Hall X-Ray MPS	0		26FEB07				◆	AVAIL: Far Hall X-Ray MPS	
XE_5122	AVAIL: Near Hall X-Ray PPS	0		26FEB07				◆	AVAIL: Near Hall X-Ray PPS	
XE_5039	RECV: Near Hall Sensors - MPS	0	27FEB07	26FEB07				▲	RECV: Near Hall Sensors - MPS	
XE_5040	RECV: Near Hall Interlocks - MPS	0	27FEB07	26FEB07				▲	RECV: Near Hall Interlocks - MPS	
XE_5041	RECV: Near Hall Valves - MPS	0	27FEB07	26FEB07				▲	RECV: Near Hall Valves - MPS	
XE_5063	RECV: Tunnel Sensors - MPS	0	27FEB07	26FEB07				▲	RECV: Tunnel Sensors - MPS	
XE_5064	RECV: Tunnel Interlocks - MPS	0	27FEB07	26FEB07				▲	RECV: Tunnel Interlocks - MPS	
XE_5065	RECV: Tunnel Valves - MPS	0	27FEB07	26FEB07				▲	RECV: Tunnel Valves - MPS	
XE_5087	RECV: Far Hall Sensors - MPS	0	27FEB07	26FEB07				▲	RECV: Far Hall Sensors - MPS	
XE_5088	RECV: Far Hall Interlocks - MPS	0	27FEB07	26FEB07				▲	RECV: Far Hall Interlocks - MPS	
XE_5089	RECV: Far Hall Valves - MPS	0	27FEB07	26FEB07				▲	RECV: Far Hall Valves - MPS	
XE_5042	REQD: Near Hall Beneficial Occupancy	0		21MAY07				◆	REQD: Near Hall Beneficial Occupancy	
XE_5090	REQD: Far Hall Beneficial Occupancy	0		06AUG07				◆	REQD: Far Hall Beneficial Occupancy	
XE_5066	REQD: Tunnel Beneficial Occupancy	0		14SEP07				◆	REQD: Tunnel Beneficial Occupancy	
XE_5005	REQD: FEE Beneficial Occupancy	0		15NOV07				◆	REQD: FEE Beneficial Occupancy	
<b>1.06.02.07 Laser PPS</b>										
XE_2700	Specification - Near Hall - Laser PPS	20	19JUL06	15AUG06				▲▼	Specification - Near Hall - Laser PPS	
XE_7301	Specification Far Hall - Laser PPS	20	19JUL06	15AUG06				▲▼	Specification Far Hall - Laser PPS	
XE_2730	NEAR HALL LASER PPS	203	19JUL06	21MAY07				▲▼	NEAR HALL LASER PPS	
XE_760	FAR HALL LASER PPS	256	19JUL06	06AUG07				▲▼	FAR HALL LASER PPS	
XE_2701	Design Near Hall - Laser PPS	40	16AUG06	11OCT06				▲▼	Design Near Hall - Laser PPS	
XE_7311	Design Far Hall - Laser PPS	40	16AUG06	11OCT06				▲▼	Design Far Hall - Laser PPS	
XE_2703	Safety Review Near Hall - Laser PPS	40	12OCT06	08DEC06				▲▼	Safety Review Near Hall - Laser PPS	
XE_7331	Safety Review Far Hall - Laser PPS	40	12OCT06	08DEC06				▲▼	Safety Review Far Hall - Laser PPS	
XE_2702	COMP: Near Hall Design - Laser PPS	0		08DEC06				◆	COMP: Near Hall Design - Laser PPS	
XE_7321	COMP: Far Hall Design - Laser PPS	0		08DEC06				◆	COMP: Far Hall Design - Laser PPS	
XE_M24	Complete Laser PPS Design Review	0		08DEC06				◆	Complete Laser PPS Design Review	
XE_2704	Prep Bid Pkg Near Hall Alarms/Signs - Laser PPS	10	11DEC06	08JAN07				▲▼	Prep Bid Pkg Near Hall Alarms/Signs - Laser PPS	
XE_2705	Prep Bid Pkg NHall Contain/Interlck - Laser PPS	10	11DEC06	08JAN07				▲▼	Prep Bid Pkg NHall Contain/Interlck - Laser PPS	
XE_7341	Prep Bid Pkg Far Hall Alarms/Signs - Laser PPS	10	11DEC06	08JAN07				▲▼	Prep Bid Pkg Far Hall Alarms/Signs - Laser PPS	
XE_7351	Prep Bid Pkg FHall Contain/Interlck - Laser PPS	10	11DEC06	08JAN07				▲▼	Prep Bid Pkg FHall Contain/Interlck - Laser PPS	
XE_7361	Prepare Bid Pkg Far Hall Detectors - Laser PPS	10	11DEC06	08JAN07				▲▼	Prepare Bid Pkg Far Hall Detectors - Laser PPS	

Start Date 01JUN01  
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**X-Ray Endstations**

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▲▼ Early Bar  
▲ Progress Bar  
▲ Critical Activity

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
XE_2707	Bid Process Near Hall Alarms/Signs - Laser PPS	40	09JAN07	07MAR07	Bid Process Near Hall Alarms/Signs - Laser PPS					
XE_2708	Bid Process NHall Contain/Interlock - Laser PPS	40	09JAN07	07MAR07	Bid Process NHall Contain/Interlock - Laser PPS					
XE_7371	Bid Process Far Hall Alarms/Signs - Laser PPS	40	09JAN07	07MAR07	Bid Process Far Hall Alarms/Signs - Laser PPS					
XE_7381	Bid Process Far Hall Contain/Interlock - Laser PP	40	09JAN07	07MAR07	Bid Process Far Hall Contain/Interlock - Laser PP					
XE_7391	Bid Process Far Hall Detectors - Laser PPS	40	09JAN07	07MAR07	Bid Process Far Hall Detectors - Laser PPS					
XE_2713	Vendor Fab/Ship Near Hall Alarm/Sign - Laser PPS	40	09MAR07	03MAY07	Vendor Fab/Ship Near Hall Alarm/Sign - Laser PPS					
XE_2714	Vendor Ship Near Hall Contain/Intrck-Laser PPS	40	09MAR07	03MAY07	Vendor Ship Near Hall Contain/Intrck-Laser PPS					
XE_7431	Vendor Fab/Ship Far Hall Alarm/Sign - Laser PPS	40	09MAR07	03MAY07	Vendor Fab/Ship Far Hall Alarm/Sign - Laser PPS					
XE_7441	Vendor Ship Far Hall Contain/Intrck-Laser PPS	40	09MAR07	03MAY07	Vendor Ship Far Hall Contain/Intrck-Laser PPS					
XE_7451	Vendor Fab/Ship Far Hall Detectors - Laser PPS	40	09MAR07	03MAY07	Vendor Fab/Ship Far Hall Detectors - Laser PPS					
XE_2716	RECV: Near Hall Alarms/Signs - Laser PPS	0		03MAY07	RECV: Near Hall Alarms/Signs - Laser PPS					
XE_2717	RECV: Near Hall Containment/Interlock -Laser PPS	0		03MAY07	RECV: Near Hall Containment/Interlock -Laser PPS					
XE_2729	AVAIL: Near Hall Laser PPS	0		03MAY07	AVAIL: Near Hall Laser PPS					
XE_7461	RECV: Far Hall Alarms/Signs - Laser PPS	0		03MAY07	RECV: Far Hall Alarms/Signs - Laser PPS					
XE_7471	RECV: Far Hall Containment/Interlock -Laser PPS	0		03MAY07	RECV: Far Hall Containment/Interlock -Laser PPS					
XE_7481	RECV: Far Hall Detectors - Laser PPS	0		03MAY07	RECV: Far Hall Detectors - Laser PPS					
XE_7591	AVAIL: Far Hall Laser PPS	0		03MAY07	AVAIL: Far Hall Laser PPS					
XE_2719	REQD: Near Hall Beneficial Occup - Laser PPS	0		21MAY07	REQD: Near Hall Beneficial Occup - Laser PPS					
XE_7491	REQD: Far Hall Beneficial Occup - Laser PPS	0		06AUG07	REQD: Far Hall Beneficial Occup - Laser PPS					
<b>1.06.02.08 User Safeguards</b>										
XE_850	Specification Far Hall - User Safeguards	20	19JUL06	15AUG06	Specification Far Hall - User Safeguards					
XE_900	Specification Near Hall - User Safeguards	20	19JUL06	15AUG06	Specification Near Hall - User Safeguards					
XE_930	NEAR HALL USER SAFEGUARDS	203	19JUL06	21MAY07	NEAR HALL USER SAFEGUARDS					
XE_880	FAR HALL USER SAFEGUARDS	256	19JUL06	06AUG07	FAR HALL USER SAFEGUARDS					
XE_851	Design Far Hall - User Safeguards	40	16AUG06	11OCT06	Design Far Hall - User Safeguards					
XE_901	Design Near Hall - User Safeguards	40	16AUG06	11OCT06	Design Near Hall - User Safeguards					
XE_853	Safety Review Far Hall - User Safeguards	40	12OCT06	08DEC06	Safety Review Far Hall - User Safeguards					
XE_903	Safety Review Near Hall - User Safeguards	40	12OCT06	08DEC06	Safety Review Near Hall - User Safeguards					
XE_852	COMP: Far Hall Design - User Safeguards	0		08DEC06	COMP: Far Hall Design - User Safeguards					
XE_902	COMP: Near Hall Design - User Safeguards	0		08DEC06	COMP: Near Hall Design - User Safeguards					
XE_854	Prep Bid Pkg Far Hall Alarms/Signs - User Safegu	10	11DEC06	08JAN07	Prep Bid Pkg Far Hall Alarms/Signs - User Safegu					
XE_855	Prep Bid Pkg Far Hall Interlock - User Safeguard	10	11DEC06	08JAN07	Prep Bid Pkg Far Hall Interlock - User Safeguard					
XE_856	Prepare Far Hall Bid Pkg Detectors - User Safegu	10	11DEC06	08JAN07	Prepare Far Hall Bid Pkg Detectors - User Safegu					
XE_904	Prep Bid Pkg Near Hall Alarms/Signs - User Safeg	10	11DEC06	08JAN07	Prep Bid Pkg Near Hall Alarms/Signs - User Safeg					
XE_905	Prep Bid Pkg NHall Interlock - User Safeguards	10	11DEC06	08JAN07	Prep Bid Pkg NHall Interlock - User Safeguards					
XE_906	Prepare Near Hall Bid Pkg Detectors - User Safeg	10	11DEC06	08JAN07	Prepare Near Hall Bid Pkg Detectors - User Safeg					
XE_857	Bid Process Far Hall Alarms/Signs - User Safegua	40	09JAN07	07MAR07	Bid Process Far Hall Alarms/Signs - User Safegu					

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**X-Ray Endstations**

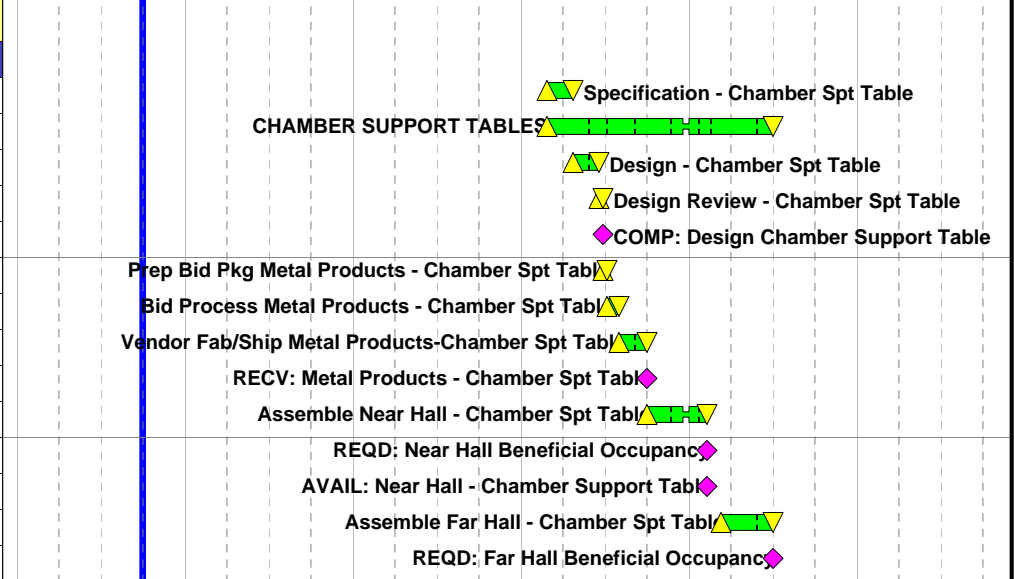


Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Year						
					2004	2005	2006	2007	2008	2009	
XE_858	Bid Process Far Hall Interlock - User Safeguards	40	09JAN07	07MAR07							
XE_859	Bid Process Far Hall Detectors - User Safeguards	40	09JAN07	07MAR07							
XE_907	Bid Process Near Hall Alarms/Signs - User Safegu	40	09JAN07	07MAR07							
XE_908	Bid Process NHall Interlock - User Safeguards	40	09JAN07	07MAR07							
XE_909	Bid Process Near Hall Detectors - User Safeguard	40	09JAN07	07MAR07							
XE_863	Vendor Fab/Ship Far Hall Alarm/Sign - User Safeg	40	09MAR07	03MAY07							
XE_864	Vendor Ship Far Hall Contain/Intrclck-User Safegu	40	09MAR07	03MAY07							
XE_865	Vendor Fab/Ship Far Hall Detectors - User Safegu	40	09MAR07	03MAY07							
XE_913	Vendor Fab/Ship Near Hall Alarm/Sign - User Safe	40	09MAR07	03MAY07							
XE_914	Vendor Ship Near Hall Intrlock-User Safeguards	40	09MAR07	03MAY07							
XE_915	Vendor Fab/Ship Near Hall Detectors - User Safeg	40	09MAR07	03MAY07							
XE_866	RECV: Far Hall Alarms/Signs - User Safeguards	0		03MAY07							
XE_867	RECV: Far Hall Containment/Interlock -User Safeg	0		03MAY07							
XE_868	RECV: Far Hall Detectors - User Safeguards	0		03MAY07							
XE_879	AVAIL: Far Hall User Safeguards	0		03MAY07							
XE_916	RECV: Near Hall Alarms/Signs - User Safeguards	0		03MAY07							
XE_917	RECV: Near Hall Interlock -User Safeguards	0		03MAY07							
XE_918	RECV: Near Hall Detectors - User Safeguards	0		03MAY07							
XE_929	AVAIL: Near Hall User Safeguard	0		03MAY07							
XE_919	REQD: Near Hall Beneficial Occup - User Safeguar	0		21MAY07							
XE_869	REQD: Far Hall Beneficial Occup - User Safeguard	0		06AUG07							

**1.06.03 Mechanical/Vacuum Subsystem**

**1.06.03.01 Chamber Support Tables - Mech/Vac**

XE_503	Specification - Chamber Spt Table	40	27FEB07*	23APR07
XE_523	CHAMBER SUPPORT TABLES	331	27FEB07	01JUL08
XE_504	Design - Chamber Spt Table	40	24APR07	19JUN07
XE_505	Design Review - Chamber Spt Table	5	20JUN07	26JUN07
XE_506	COMP: Design Chamber Support Table	0		26JUN07
XE_507	Prep Bid Pkg Metal Products - Chamber Spt Table	5	27JUN07	03JUL07
XE_508	Bid Process Metal Products - Chamber Spt Table	20	05JUL07	01AUG07
XE_510	Vendor Fab/Ship Metal Products-Chamber Spt Table	40	03AUG07	28SEP07
XE_511	RECV: Metal Products - Chamber Spt Table	0		28SEP07
XE_515	Assemble Near Hall - Chamber Spt Table	80	01OCT07	08FEB08
XE_525	REQD: Near Hall Beneficial Occupancy	0		08FEB08
XE_535	AVAIL: Near Hall - Chamber Support Table	0		08FEB08
XE_512	Assemble Far Hall - Chamber Spt Table	80	11MAR08	01JUL08
XE_522	REQD: Far Hall Beneficial Occupancy	0		01JUL08






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 Critical Activity



Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
XE_532	AVAIL: Far Hall - Chamber Support Table	0		01JUL08			AVAIL: Far Hall - Chamber Support Table			
<b>1.06.03.02 Vacuum Components - Mech/Vac</b>										
XE_2760	Specification Valve - Vacuum	40	23AUG07	18OCT07						Specification Valve - Vacuum
XE_2900	Specification - Vacuum Hardware	40	23AUG07	18OCT07						Specification - Vacuum Hardware
XE_2933	Specification Ion Pump - Vacuum	40	23AUG07	18OCT07						Specification Ion Pump - Vacuum
XE_2960	Specification Turbo Pump - Vacuum	40	23AUG07	18OCT07						Specification Turbo Pump - Vacuum
XE_800	Specification Gauges - Vacuum	40	23AUG07	18OCT07						Specification Gauges - Vacuum
XE_810	VACUUM GAUGES	156	23AUG07	21APR08						VACUUM GAUGES
XE_2910	VACUUM HARDWARE	171	23AUG07	12MAY08						VACUUM HARDWARE
XE_2943	VACUUM ION PUMP	171	23AUG07	12MAY08						VACUUM ION PUMP
XE_2980	VACUUM TURBO PUMP	171	23AUG07	12MAY08						VACUUM TURBO PUMP
XE_2790	VACUUM VALVES	172	23AUG07	13MAY08						VACUUM VALVES
XE_2761	Design Valve - Vacuum	40	19OCT07	02JAN08						Design Valve - Vacuum
XE_2901	Design - Vacuum Hardware	40	19OCT07	02JAN08						Design - Vacuum Hardware
XE_2934	Design Ion Pump - Vacuum	40	19OCT07	02JAN08						Design Ion Pump - Vacuum
XE_2961	Design Turbo Pump - Vacuum	40	19OCT07	02JAN08						Design Turbo Pump - Vacuum
XE_801	Design Gauges - Vacuum	40	19OCT07	02JAN08						Design Gauges - Vacuum
XE_2762	Design Review Valves - Vacuum	5	03JAN08	09JAN08						Design Review Valves - Vacuum
XE_2902	Design Review - Vacuum Hardware	5	03JAN08	09JAN08						Design Review - Vacuum Hardware
XE_2935	Design Review Ion Pump - Vacuum	5	03JAN08	09JAN08						Design Review Ion Pump - Vacuum
XE_2962	Design Review Turbo Pump - Vacuum	5	03JAN08	09JAN08						Design Review Turbo Pump - Vacuum
XE_802	Design Review Gauges - Vacuum	5	03JAN08	09JAN08						Design Review Gauges - Vacuum
XE_2763	COMP: Design Beryllium Valve - Vacuum	0		09JAN08						COMP: Design Beryllium Valve - Vacuum
XE_2903	COMP: Design Vacuum Hardware	0		09JAN08						COMP: Design Vacuum Hardware
XE_2936	COMP: Design Ion Pump - Vacuum	0		09JAN08						COMP: Design Ion Pump - Vacuum
XE_2963	COMP: Design Turbo Pump Vacuum	0		09JAN08						COMP: Design Turbo Pump Vacuum
XE_803	COMP: Design Gauges - Vacuum	0		09JAN08						COMP: Design Gauges - Vacuum
XE_2764	Prep Bid Pkg Isolation Valve - Vacuum	5	10JAN08	16JAN08						Prep Bid Pkg Isolation Valve - Vacuum
XE_2800	Prep Bid Pkg Beryllium Valve - Vacuum	5	10JAN08	16JAN08						Prep Bid Pkg Beryllium Valve - Vacuum
XE_2905	Prep Bid Pkg - Vacuum Hardware	5	10JAN08	16JAN08						Prep Bid Pkg - Vacuum Hardware
XE_2937	Prep Bid Pkg Ion Pump - Vacuum	5	10JAN08	16JAN08						Prep Bid Pkg Ion Pump - Vacuum
XE_2964	Prep Bid Pkg Turbo Pump - Vacuum	5	10JAN08	16JAN08						Prep Bid Pkg Turbo Pump - Vacuum
XE_804	Prep Bid Pkg Gauges - Vacuum	5	10JAN08	16JAN08						Prep Bid Pkg Gauges - Vacuum
XE_2765	Bid Process Isolation Valve - Vacuum	20	17JAN08	14FEB08						Bid Process Isolation Valve - Vacuum
XE_2801	Bid Process Beryllium Valve - Vacuum	20	17JAN08	14FEB08						Bid Process Beryllium Valve - Vacuum
XE_2907	Bid Process - Vacuum Hardware	20	17JAN08	14FEB08						Bid Process - Vacuum Hardware
XE_2938	Bid Process Ion Pump - Vacuum	20	17JAN08	14FEB08						Bid Process Ion Pump - Vacuum




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 Early Bar  
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 Critical Activity



Activity ID	Activity Description	Orig Dur	Early Start	Early Finish							
					2004	2005	2006	2007	2008	2009	
XE_2965	Bid Process Turbo Pump - Vacuum	20	17JAN08	14FEB08			Bid Process Turbo Pump - Vacuum				
XE_805	Bid Process Gauges - Vacuum	20	17JAN08	14FEB08							Bid Process Gauges - Vacuum
XE_2767	Vendor Fab/Ship Isolation Valve - Vacuum	40	19FEB08	14APR08			Vendor Fab/Ship Isolation Valve - Vacuum				
XE_2803	Vendor Fab/Ship Beryllium Valve - Vacuum	40	19FEB08	14APR08			Vendor Fab/Ship Beryllium Valve - Vacuum				
XE_2911	Vendor Fab/Ship - Vacuum Hardware	40	19FEB08	14APR08			Vendor Fab/Ship - Vacuum Hardware				
XE_2940	Vendor Fab/Ship Ion Pump - Vacuum	40	19FEB08	14APR08			Vendor Fab/Ship Ion Pump - Vacuum				
XE_2967	Vendor Fab/Ship Turbo Pump - Vacuum	40	19FEB08	14APR08			Vendor Fab/Ship Turbo Pump - Vacuum				
XE_808	Vendor Fab/Ship Gauges - Vacuum	40	19FEB08	14APR08			Vendor Fab/Ship Gauges - Vacuum				
XE_2804	RECV: Beryllium Valves	0		14APR08							RECV: Beryllium Valves
XE_2912	RECV: Vacuum Hardware	0		14APR08							RECV: Vacuum Hardware
XE_2941	RECV: Ion Pump - Vacuum	0		14APR08							RECV: Ion Pump - Vacuum
XE_2968	RECV: Turbo Pump - Vacuum	0		14APR08			RECV: Turbo Pump - Vacuum				
XE_809	RECV: Gauges - Vacuum	0		14APR08							RECV: Gauges - Vacuum
XE_2814	RECV: Isolation Valves	1	15APR08	15APR08							RECV: Isolation Valves
XE_819	Assemble Far Hall Gauges - Vacuum	5	15APR08	21APR08			Assemble Far Hall Gauges - Vacuum				
XE_829	Assemble Near Hall Gauges - Vacuum	5	15APR08	21APR08			Assemble Near Hall Gauges - Vacuum				
XE_2918	Assemble Near Hall - Vacuum Hardware	20	15APR08	12MAY08			Assemble Near Hall - Vacuum Hardware				
XE_2926	Assemble Far Hall - Vacuum Hardware	20	15APR08	12MAY08			Assemble Far Hall - Vacuum Hardware				
XE_2954	Assemble Far Hall Ion Pump - Vacuum	20	15APR08	12MAY08			Assemble Far Hall Ion Pump - Vacuum				
XE_2969	Assemble NH Turbo Pump - Vacuum	20	15APR08	12MAY08			Assemble NH Turbo Pump - Vacuum				
XE_2988	Assemble Near Hall Ion Pump - Vacuum	20	15APR08	12MAY08			Assemble Near Hall Ion Pump - Vacuum				
XE_29998	Assemble FH Turbo Pump - Vacuum	20	15APR08	12MAY08			Assemble FH Turbo Pump - Vacuum				
XE_2781	Assemble Near Hall Valve - Vacuum	20	16APR08	13MAY08			Assemble Near Hall Valve - Vacuum				
XE_2805	Assemble Far Hall Valve - Vacuum	20	16APR08	13MAY08			Assemble Far Hall Valve - Vacuum				
XE_816	REQD: Near Hall Beneficial Occupancy	0		21APR08			REQD: Near Hall Beneficial Occupancy				
XE_824	REQD: Far Hall Beneficial Occupancy	0		21APR08			REQD: Far Hall Beneficial Occupancy				
XE_834	AVAIL: Far Hall Gauges - Vacuum	0		21APR08			AVAIL: Far Hall Gauges - Vacuum				
XE_836	AVAIL: Near Hall Gauges - Vacuum	0		21APR08			AVAIL: Near Hall Gauges - Vacuum				
XE_2919	REQD: Near Hall Beneficial Occupancy	0		12MAY08			REQD: Near Hall Beneficial Occupancy				
XE_2927	REQD: Far Hall Beneficial Occupancy	0		12MAY08			REQD: Far Hall Beneficial Occupancy				
XE_2947	REQD: Near Hall Beneficial Occupancy	0		12MAY08			REQD: Near Hall Beneficial Occupancy				
XE_2955	REQD: Far Hall Beneficial Occupancy	0		12MAY08			REQD: Far Hall Beneficial Occupancy				
XE_2959	AVAIL: Near Hall Vacuum Hardware	0		12MAY08			AVAIL: Near Hall Vacuum Hardware				
XE_2970	REQD: Near Hall Beneficial Occupancy	0		12MAY08			REQD: Near Hall Beneficial Occupancy				
XE_2972	AVAIL: NH Turbo Pump - Vacuum	0		12MAY08			AVAIL: NH Turbo Pump - Vacuum				
XE_2973	REQD: Far Hall Beneficial Occupancy	0		12MAY08			REQD: Far Hall Beneficial Occupancy				
XE_2975	AVAIL: Far Hall Ion Pump - Vacuum	0		12MAY08			AVAIL: Far Hall Ion Pump - Vacuum				

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					2004	2005	2006	2007	2008	2009
XE_2977	AVAIL: Far Hall Vacuum Hardware	0		12MAY08			AVAIL: Far Hall Vacuum Hardware			
XE_2987	AVAIL: Near Hall Ion Pump - Vacuum	0		12MAY08			AVAIL: Near Hall Ion Pump - Vacuum			
XE_30008	AVAIL: Far Hall Turbo Pump - Vacuum	0		12MAY08			AVAIL: Far Hall Turbo Pump - Vacuum			
XE_2779	REQD: Near Hall Ben Occ Valves Vacuum	0		13MAY08			REQD: Near Hall Ben Occ Valves Vacuum			
XE_2789	AVAIL: Near Hall Valves - Vacuum	0		13MAY08			AVAIL: Near Hall Valves - Vacuum			
XE_2806	REQD: Far Hall Beneficial Occupancy	0		13MAY08			REQD: Far Hall Beneficial Occupancy			
XE_2816	AVAIL: Far Hall Valves - Vacuum	0		13MAY08			AVAIL: Far Hall Valves - Vacuum			
<b>1.06.03.03 Experimental Chambers</b>										
XE_5300	Specification Near Hall - Experimental Chamber	40	27FEB07*	23APR07			Specification Near Hall - Experimental Chamber			
XE_5400	Specification Far Hall - Experimental Chamber	40	27FEB07	23APR07			Specification Far Hall - Experimental Chamber			
XE_5320	NEAR HALL EXPERIMENTAL CHAMBER	271	27FEB07	07APR08			NEAR HALL EXPERIMENTAL CHAMBER			
XE_5410	FAR HALL EXPERIMENTAL CHAMBER	271	27FEB07	07APR08			FAR HALL EXPERIMENTAL CHAMBER			
XE_5301	Design Near Hall - Experimental Chamber	80	24APR07	15AUG07			Design Near Hall - Experimental Chamber			
XE_5401	Design Far Hall - Experimental Chamber	80	24APR07	15AUG07			Design Far Hall - Experimental Chamber			
XE_5302	Design Review Near Hall - Experimental Chamber	5	16AUG07	22AUG07			Design Review Near Hall - Experimental Chamber			
XE_5402	Design Review Far Hall - Experimental Chamber	5	16AUG07	22AUG07			Design Review Far Hall - Experimental Chamber			
XE_5303	COMP: Design Near Hall - Experimental Chamber	0		22AUG07			COMP: Design Near Hall - Experimental Chamber			
XE_5403	COMP: Design Far Hall Experimental Chamber	0		22AUG07			COMP: Design Far Hall Experimental Chamber			
XE_M21	Final Design Review Experimental Chamber	0		22AUG07			Final Design Review Experimental Chamber			
XE_5304	Prep Bid Pkg Near Hall - Experimental Chamber	5	23AUG07	29AUG07			Prep Bid Pkg Near Hall - Experimental Chamber			
XE_5404	Prep Bid Pkg Far Hall - Experimental Chamber	5	23AUG07	29AUG07			Prep Bid Pkg Far Hall - Experimental Chamber			
XE_5305	Bid Process Near Hall - Experimental Chamber	20	30AUG07	27SEP07			Bid Process Near Hall - Experimental Chamber			
XE_5405	Bid Process Far Hall - Experimental Chamber	20	30AUG07	27SEP07			Bid Process Far Hall - Experimental Chamber			
XE_5307	Vendor Fab/Ship Near Hall - Experimental Chamber	40	01OCT07	27NOV07			Vendor Fab/Ship Near Hall - Experimental Chamber			
XE_5407	Vendor Fab/Ship Far Hall - Experimental Chamber	40	01OCT07	27NOV07			Vendor Fab/Ship Far Hall - Experimental Chamber			
XE_5308	RECV: Near Hall Experimental Chamber	0		27NOV07			RECV: Near Hall Experimental Chamber			
XE_5408	RECV: Far Hall Experimental Chamber	0		27NOV07			RECV: Far Hall Experimental Chamber			
XE_5309	Assemble Near Hall - Experimental Chamber	80	28NOV07	07APR08			Assemble Near Hall - Experimental Chamber			
XE_5413	Assemble Far Hall - Experimental Chamber	80	28NOV07	07APR08			Assemble Far Hall - Experimental Chamber			
XE_5310	REQD: Near Hall Beneficial Occupancy	0		07APR08			REQD: Near Hall Beneficial Occupancy			
XE_5330	AVAIL: Near Hall Experimental Chamber	0		07APR08			AVAIL: Near Hall Experimental Chamber			
XE_5414	REQD: Far Hall Beneficial Occupancy	0		07APR08			REQD: Far Hall Beneficial Occupancy			
XE_5424	AVAIL: Far Hall Experimental Chamber	0		07APR08			AVAIL: Far Hall Experimental Chamber			
<b>1.06.04 Laser Subsystem</b>										
<b>1.06.04.01 Oscillator Laser &amp; Pump</b>										
XE_701	Specification Near Hall - Oscillator Laser/Pump	40	27FEB06	21APR06			Specification Near Hall - Oscillator Laser/Pump			
XE_721	NEAR HALL OSCILLATOR LASER/PUMP	606	27FEB06	15AUG08			NEAR HALL OSCILLATOR LASER/PUMP			

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					2004	2005	2006	2007	2008	2009
XE_750	Give Specs for Near Hall Laser Room to CF	0		20OCT06*				◆ Give Specs for Near Hall Laser Room to CF		
XE_5503	Specification Far Hall - Oscillator Laser/Pump	40	23OCT06*	03JAN07				▲▼ Specification Far Hall - Oscillator Laser/Pump		
XE_702	Design Near Hall - Oscillator Laser/Pump	80	23OCT06*	02MAR07				▲▼ Design Near Hall - Oscillator Laser/Pump		
XE_714	Procure Near Hall Laser Tables	120	23OCT06*	27APR07				▲▼ Procure Near Hall Laser Tables		
XE_5523	FAR HALL OSCILLATOR LASER/PUMP	271	23OCT06	03DEC07				FAR HALL OSCILLATOR LASER/PUMP		
XE_5533	Give Specs for Far Hall Laser Room to CF	0		03JAN07				◆ Give Specs for Far Hall Laser Room to CF		
XE_5504	Design Far Hall - Oscillator Laser/Pump	80	04JAN07	27APR07				▲▼ Design Far Hall - Oscillator Laser/Pump		
XE_703	Design Review Near Hall - Oscillator Laser/Pump	10	05MAR07	16MAR07				Design Review Near Hall - Oscillator Laser/Pump		
XE_704	COMP: Design Near Hall - Oscillator Laser/Pump	0		16MAR07				COMP: Design Near Hall - Oscillator Laser/Pump		
XE_705	Prep Bid Pkg Near Hall - Oscillator Laser/Pump	10	19MAR07	30MAR07				Prep Bid Pkg Near Hall - Oscillator Laser/Pump		
XE_706	Bid Process Near Hall - Oscillator Laser/Pump	20	02APR07	27APR07				Bid Process Near Hall - Oscillator Laser/Pump		
XE_5505	Design Review Far Hall - Oscillator Laser/Pump	5	30APR07	04MAY07				Design Review Far Hall - Oscillator Laser/Pump		
XE_5506	COMP: Design Far Hall Oscillator Laser/Pump	0		04MAY07				COMP: Design Far Hall Oscillator Laser/Pump		
XE_M19	Laser System Final Design Review	0		04MAY07				◆ Laser System Final Design Review		
XE_5507	Prep Bid Pkg Far Hall - Oscillator Laser/Pump	5	07MAY07	11MAY07				Prep Bid Pkg Far Hall - Oscillator Laser/Pump		
XE_5508	Bid Process Far Hall - Oscillator Laser/Pump	20	14MAY07	11JUN07				Bid Process Far Hall - Oscillator Laser/Pump		
XE_5510	Vendor Fab/Ship Far Hall - Oscillator Laser/Pump	120	13JUN07	03DEC07				Vendor Fab/Ship Far Hall - Oscillator Laser/Pump		
XE_708	Vendor Fab/Ship Near Hall - Oscillator Laser/Pump	120	13JUN07	03DEC07				Vendor Fab/Ship Near Hall - Oscillator Laser/Pump		
XE_5511	RECV: Far Hall Oscillator Laser/Pump	0		03DEC07				RECV: Far Hall Oscillator Laser/Pump		
XE_5513	REQD: Far Hall Beneficial Occupancy	0		03DEC07				REQD: Far Hall Beneficial Occupancy		
XE_5543	AVAIL: Far Hall Oscillator Laser/Pump	0		03DEC07				AVAIL: Far Hall Oscillator Laser/Pump		
XE_709	RECV: Near Hall Oscillator Laser/Pump	0		03DEC07				RECV: Near Hall Oscillator Laser/Pump		
XE_711	REQD: Near Hall Beneficial Occupancy	0		03DEC07				REQD: Near Hall Beneficial Occupancy		
XE_720	REQD: Diagnostics for Laser Demo	0		03DEC07				REQD: Diagnostics for Laser Demo		
XE_731	AVAIL: Near Hall Oscillator Laser/Pump	0		03DEC07				AVAIL: Near Hall Oscillator Laser/Pump		
SSXE_0105	Start XES Commissioning	0	18AUG08					Start XES Commissioning		
<b>1.06.04.02 Laser Diagnostics</b>										
XE_4000	Specification - Laser Diagnostics	60	04JAN07*	30MAR07				▲▼ Specification - Laser Diagnostics		
XE_4040	LASER DIAGNOSTICS	201	04JAN07	18OCT07				▲▼ LASER DIAGNOSTICS		
XE_4001	Design - Laser Diagnostics	40	02APR07	25MAY07				▲▼ Design - Laser Diagnostics		
XE_4003	Safety Review - Laser Diagnostics	10	29MAY07	11JUN07				▲ Safety Review - Laser Diagnostics		
XE_4002	COMP: Design - Laser Diagnostics	0		11JUN07				◆ COMP: Design - Laser Diagnostics		
XE_4004	Prep Bid Pkg Energy Sensors - Laser Diagnostics	10	12JUN07	25JUN07				Prep Bid Pkg Energy Sensors - Laser Diagnostics		
XE_4005	Prep Bid Pkg IR FROG - Laser Diagnostics	10	12JUN07	25JUN07				Prep Bid Pkg IR FROG - Laser Diagnostics		
XE_4006	Prepare Bid Pkg Fast Diodes - Laser Diagnostics	10	12JUN07	25JUN07				Prepare Bid Pkg Fast Diodes - Laser Diagnostics		
XE_4025	Prep Bid Pkg Oscillo Scope - Laser Diagnostics	10	12JUN07	25JUN07				Prep Bid Pkg Oscillo Scope - Laser Diagnostics		
XE_4026	Prep Bid Pkg Autocorrelators - Laser Diagnostic	10	12JUN07	25JUN07				Prep Bid Pkg Autocorrelators - Laser Diagnostic		

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 Early Bar  
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 Critical Activity

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Year						
					2004	2005	2006	2007	2008	2009	
XE_4007	Bid Process Energy Sensors - Laser Diagnostics	40	26JUN07	21AUG07		Bid Process Energy Sensors - Laser Diagnostic					
XE_4008	Bid Process IR FROG - Laser Diagnostics	40	26JUN07	21AUG07		Bid Process IR FROG - Laser Diagnostic					
XE_4009	Bid Process Fast Diodes - Laser Diagnostics	40	26JUN07	21AUG07		Bid Process Fast Diodes - Laser Diagnostic					
XE_4028	Bid Process Oscillo Scope - Laser Diagnostics	40	26JUN07	21AUG07		Bid Process Oscillo Scope - Laser Diagnostic					
XE_4029	Bid Process Autocorrelators - Laser Diagnostics	40	26JUN07	21AUG07		Bid Process Autocorrelators - Laser Diagnostic					
XE_4013	Vendor Fab/Ship Energy Sensor - Laser Diagnostic	40	23AUG07	18OCT07		Vendor Fab/Ship Energy Sensor - Laser Diagnostic					
XE_4014	Vendor Ship IR FROG- Laser Diagnostics	40	23AUG07	18OCT07		Vendor Ship IR FROG- Laser Diagnostic					
XE_4015	Vendor Fab/Ship Fast Diodes - Laser Diagnostics	40	23AUG07	18OCT07		Vendor Fab/Ship Fast Diodes - Laser Diagnostic					
XE_4034	Vendor Fab/Ship Oscillo Scope - Laser Diagnost	40	23AUG07	18OCT07		Vendor Fab/Ship Oscillo Scope - Laser Diagnost					
XE_4035	Vendor Ship Autocorrelators - Laser Diagnostics	40	23AUG07	18OCT07		Vendor Ship Autocorrelators - Laser Diagnostic					
XE_4016	RECV: Energy Sensors - Laser Diagnostics	0		18OCT07							
XE_4017	RECV: IR FROG - Laser Diagnostics	0		18OCT07							RECV: IR FROG - Laser Diagnostics
XE_4018	RECV: Fast Diodes - Laser Diagnostics	0		18OCT07							
XE_4019	REQD: Near Hall Beneficial Occup - Laser Diag	0		18OCT07							
XE_4037	RECV: Oscillo Scope - Laser Diagnostics	0		18OCT07							
XE_4038	RECV: Autocorrelators - Laser Diagnostics	0		18OCT07							
XE_4048	AVAIL: Laser Diagnostics	0		18OCT07							AVAIL: Laser Diagnostics
<b>1.06.04.03 Laser Supplies &amp; Optical Transport</b>											
XE_6000	Specification - Laser Supp/Optic Transport	40	04JAN07*	02MAR07							Specification - Laser Supp/Optic Transport
XE_6010	LASER SUPPLIES / OPTICS TRANSPORT	221	04JAN07	15NOV07							LASER SUPPLIES / OPTICS TRANSPORT
XE_6001	Design - Laser Supp/Optic Transport	80	05MAR07	25JUN07							Design - Laser Supp/Optic Transport
XE_6003	COMP: Design Laser Supp/Optic Transport	0		25JUN07							COMP: Design Laser Supp/Optic Transport
XE_6004	Prep Bid Pkg Lenses & Mirrors - Laser Supplies	10	26JUN07	10JUL07							Prep Bid Pkg Lenses & Mirrors - Laser Supplies
XE_6060	Prep Bid Pkg Optic Tables (4) - Laser Supplies	10	26JUN07	10JUL07							Prep Bid Pkg Optic Tables (4) - Laser Supplies
XE_6065	Prep Bid Pkg Cabinets - Laser Supplies	10	26JUN07	10JUL07							Prep Bid Pkg Cabinets - Laser Supplies
XE_6055	Prep Bid Pkg Shielding/Contain - Laser Supplies	20	26JUN07	24JUL07							Prep Bid Pkg Shielding/Contain - Laser Supplies
XE_6005	Bid Process Lenses & Mirrors - Laser Supplies	20	11JUL07	07AUG07							Bid Process Lenses & Mirrors - Laser Supplies
XE_6061	Bid Process Optic Tables (4) - Laser Supplies	20	11JUL07	07AUG07							Bid Process Optic Tables (4) - Laser Supplies
XE_6066	Bid Process Cabinets - Laser Supplies	20	11JUL07	07AUG07							Bid Process Cabinets - Laser Supplies
XE_6056	Bid Process Shielding/Contain - Laser Supplies	20	25JUL07	21AUG07							Bid Process Shielding/Contain - Laser Supplies
XE_6068	Vendor Fab/Ship Cabinets -Laser Supplies	40	09AUG07	04OCT07							Vendor Fab/Ship Cabinets -Laser Supplies
XE_6007	Vendor Fab/Ship Lenses & Mirrors -Laser Supplies	60	09AUG07	01NOV07							Vendor Fab/Ship Lenses & Mirrors -Laser Supplies
XE_6063	Vendor Fab/Ship Optic Tables (4) -Laser Supplies	60	09AUG07	01NOV07							Vendor Fab/Ship Optic Tables (4) -Laser Supplies
XE_6058	Vendor Fab/Ship Shielding/Conta -Laser Supplies	60	23AUG07	15NOV07							Vendor Fab/Ship Shielding/Conta -Laser Supplies
XE_6069	RECV: Cabinets - Laser Supplies	0		04OCT07							RECV: Cabinets - Laser Supplies
XE_6008	RECV: Lenses & Mirrors - Laser Supplies	0		01NOV07							RECV: Lenses & Mirrors - Laser Supplies
XE_6064	RECV: Optic Tables (4) - Laser Supplies	0		01NOV07							RECV: Optic Tables (4) - Laser Supplies

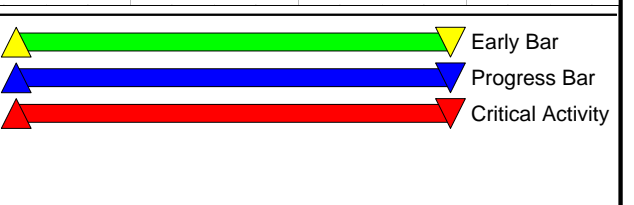
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**X-Ray Endstations**

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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Year					
					2004	2005	2006	2007	2008	2009
XE_6009	REQD: Near Hall Beneficial Occupancy - LSupp	0		15NOV07		REQD: Near Hall Beneficial Occupancy - LSupp				
XE_6059	RECV: Shielding/Contain - Laser Supplies	0		15NOV07		RECV: Shielding/Contain - Laser Supplies				
XE_6079	AVAIL: Laser Supplies	0		15NOV07		AVAIL: Laser Supplies				
<b>1.06.04.04 Laser Timing</b>										
XE_6020	Specification - Laser Timing	120	08JUL05	11JAN06		Specification - Laser Timing				
XE_6070	LASER TIMING	506	08JUL05	06AUG07		LASER TIMING				
XE_6021	Design - Laser Timing	80	12JAN06	05MAY06		Design - Laser Timing				
XE_6022	Design Review - Laser Timing	10	08MAY06	19MAY06		Design Review - Laser Timing				
XE_6023	COMP: Design Laser Timing	0		19MAY06		COMP: Design Laser Timing				
XE_6024	Prep Bid Pkg Frequency Analyzer - Laser Timing	2	02OCT06	03OCT06		Prep Bid Pkg Frequency Analyzer - Laser Timing				
XE_6025	Bid Process Frequency Analyzer - Laser Timing	20	04OCT06	31OCT06		Bid Process Frequency Analyzer - Laser Timing				
XE_6027	Vendor Fab/Ship Frequency Analyzer - Laser Timin	60	02NOV06	13FEB07	Vendor Fab/Ship Frequency Analyzer - Laser Timin					
XE_6028	RECV: Frequency Analyzer - Laser Timing	0		13FEB07		RECV: Frequency Analyzer - Laser Timing				
XE_6031	Optic Table Ready NHall - Laser Timing	5	14FEB07	21FEB07		Optic Table Ready NHall - Laser Timing				
XE_6102	Optic Table Ready Laser Far Hall - Timing	5	14FEB07	21FEB07		Optic Table Ready Laser Far Hall - Timing				
XE_6080	AVAIL: Near Hall Laser Timing	0		21FEB07		AVAIL: Near Hall Laser Timing				
XE_6110	AVAIL: Far Hall Laser Timing	0		21FEB07		AVAIL: Far Hall Laser Timing				
XE_6029	REQD: Near Hall Beneficial Occup - Laser Timing	0		21MAY07		REQD: Near Hall Beneficial Occup - Laser Timing				
XE_6030	REQD: Diagnostics for NHall Laser Demo - Timing	0		21MAY07		REQD: Diagnostics for NHall Laser Demo - Timin				
XE_6100	REQD: Far Hall Beneficial Occup - Laser Timing	0		06AUG07		REQD: Far Hall Beneficial Occup - Laser Timin				
XE_6101	REQD: Diagnostics for Far Hall Laser Demo	0		06AUG07		REQD: Diagnostics for Far Hall Laser Dem				
<b>1.06.04.05 Laser Amplifiers</b>										
XE_6078	NEAR HALL LASER AMPLIFIERS	540	14MAR05	29MAY07		NEAR HALL LASER AMPLIFIERS				
XE_6038	Specification Near Hall - Laser Amplifiers	40	27FEB06	21APR06		Specification Near Hall - Laser Amplifiers				
XE_6039	Design Near Hall - Laser Amplifiers	80	24APR06	15AUG06		Design Near Hall - Laser Amplifiers				
XE_6040	Design Review Near Hall - Laser Amplifiers	10	16AUG06	29AUG06		Design Review Near Hall - Laser Amplifiers				
XE_6041	COMP: Design Near Hall - Laser Amplifiers	0		29AUG06		COMP: Design Near Hall - Laser Amplifiers				
XE_6042	Prep Bid Pkg Near Hall - Laser Amplifiers	10	02OCT06	13OCT06		Prep Bid Pkg Near Hall - Laser Amplifiers				
XE_6043	Bid Process Near Hall - Laser Amplifiers	20	16OCT06	10NOV06		Bid Process Near Hall - Laser Amplifiers				
XE_7000	Specification Far Hall - Laser Amplifiers	40	23OCT06*	03JAN07		Specification Far Hall - Laser Amplifiers				
XE_7080	FAR HALL LASER AMPLIFIERS	273	23OCT06	05DEC07		FAR HALL LASER AMPLIFIERS				
XE_6045	Vendor Fab/Ship Near Hall - Laser Amplifiers	120	14NOV06	21MAY07	Vendor Fab/Ship Near Hall - Laser Amplifier					
XE_7001	Design Far Hall - Laser Amplifiers	80	04JAN07	27APR07		Design Far Hall - Laser Amplifiers				
XE_7002	Design Review Far Hall - Laser Amplifiers	5	30APR07	04MAY07		Design Review Far Hall - Laser Amplifiers				
XE_7003	COMP: Design Far Hall Laser Amplifiers	0		04MAY07		COMP: Design Far Hall Laser Amplifiers				
XE_7004	Prep Bid Pkg Far Hall - Laser Amplifiers	5	07MAY07	11MAY07		Prep Bid Pkg Far Hall - Laser Amplifiers				
XE_7005	Bid Process Far Hall - Laser Amplifiers	20	14MAY07	11JUN07		Bid Process Far Hall - Laser Amplifiers				

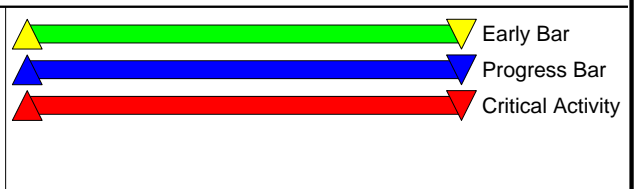
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**X-Ray Endstations**

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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
XE_6046	RECV: Near Hall Laser Amplifiers	0		21MAY07				◆ RECV: Near Hall Laser Amplifiers		
XE_6049	Optic Table Ready NHall - Laser Amplifiers	5	22MAY07	29MAY07				▲ Optic Table Ready NHall - Laser Amplifiers		
XE_6047	REQD: Near Hall Beneficial Occupancy	0		29MAY07				◆ REQD: Near Hall Beneficial Occupancy		
XE_6048	REQD: Diagnostics for Laser Demo	0		29MAY07				◆ REQD: Diagnostics for Laser Demo		
XE_6077	AVAIL: Near Hall Laser Amplifiers	0		29MAY07				◆ AVAIL: Near Hall Laser Amplifiers		
XE_7007	Vendor Fab/Ship Far Hall - Laser Amplifiers	120	13JUN07	03DEC07				▲ Vendor Fab/Ship Far Hall - Laser Amplifiers		
XE_7008	RECV: Far Hall Laser Amplifiers	0		03DEC07				◆ RECV: Far Hall Laser Amplifiers		
XE_7010	Optic Table Ready FHall - Laser Amplifiers	2	04DEC07	05DEC07				▲ Optic Table Ready FHall - Laser Amplifiers		
XE_7009	REQD: Far Hall Beneficial Occupancy	0		05DEC07				◆ REQD: Far Hall Beneficial Occupancy		
XE_7079	AVAIL: Far Hall Laser Amplifiers	0		05DEC07				◆ AVAIL: Far Hall Laser Amplifiers		

### 1.06.05 X-Ray Detectors

#### 1.06.05.01 Beam Imaging

XE_7016	Specification - Beam Imaging	5	02OCT06*	06OCT06
XE_7056	BEAM IMAGING	151	02OCT06	21MAY07
XE_7017	Design - Beam Imaging	5	09OCT06	13OCT06
XE_7018	Design Review - Beam Imaging	5	16OCT06	20OCT06
XE_7019	COMP: Design - Beam Imaging	0		20OCT06
XE_7020	Prep Bid Pkg - Beam Imaging	5	23OCT06	27OCT06
XE_7021	Bid Process - Beam Imaging	20	30OCT06	28NOV06
XE_7023	Vendor Fab/Ship - Beam Imaging	80	30NOV06	09APR07
XE_M26	Complete X-Ray Detectors Final Design Review	0		15FEB07
XE_7024	RECV: Beam Imaging	0		09APR07
XE_7025	Assemble - Beam Imaging	5	10APR07	16APR07
XE_7066	AVAIL: Beam Imaging	0		16APR07
XE_7026	REQD: Near Hall Beneficial Occupancy	0		21MAY07

								▲ Specification - Beam Imaging		
								▲ BEAM IMAGING		
								▲ Design - Beam Imaging		
								▲ Design Review - Beam Imaging		
								◆ COMP: Design - Beam Imaging		
								▲ Prep Bid Pkg - Beam Imaging		
								▲ Bid Process - Beam Imaging		
								▲ Vendor Fab/Ship - Beam Imaging		
								◆ Complete X-Ray Detectors Final Design Review		
								◆ RECV: Beam Imaging		
								▲ Assemble - Beam Imaging		
								◆ AVAIL: Beam Imaging		
								◆ REQD: Near Hall Beneficial Occupancy		

#### 1.06.05.02 2-D X-Ray Detector

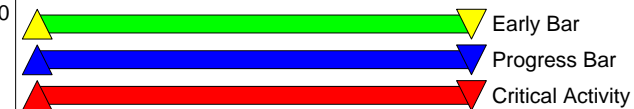
SSXE_0200	2-D X-Ray Detector Design	667*	01OCT04	03JUL07
XE_70775	FY-06 Vendor Contract - Prototype-2-D X-Ray Det	185	03OCT05	11JUL06
XE_72222	FY-06 Contract Report - 2-D X-Ray Detector	40	12JUL06	06SEP06
XE_7081	FY-06 Design Review - 2-D X-Ray Detector	10	07SEP06	20SEP06
XE_M14	FY-06 Design Review - 2-D X-Ray Detector	0		20SEP06
XE_70832	FY-07 Design Review - 2-D X-Ray Detector	10	31AUG07	14SEP07
XE_M222	FY-07 Design Review - 2-D X-Ray Detector	0		14SEP07
XE_7112	FY-08 Vendor Contract - 2-D X-Ray Detector	240	01OCT07*	25SEP08
SSXE_0210	XE Installation	246*	08OCT07	10OCT08
XE_71122	FY-08 Final Report - 2-D X-Ray Detector	20	26SEP08	23OCT08
SSXE_0205	X-Ray Detectors Acceptance Test	0		23OCT08

								▲ 2-D X-Ray Detector Design		
								▲ FY-06 Vendor Contract - Prototype-2-D X-Ray Det		
								▲ FY-06 Contract Report - 2-D X-Ray Detector		
								▲ FY-06 Design Review - 2-D X-Ray Detector		
								◆ FY-06 Design Review - 2-D X-Ray Detector		
								▲ FY-07 Design Review - 2-D X-Ray Detector		
								▲ FY-07 Design Review - 2-D X-Ray Detector		
								▲ FY-08 Vendor Contract - 2-D X-Ray Detector		
								▲ XE Installation		
								▲ FY-08 Final Report - 2-D X-Ray Detector		
								◆ X-Ray Detectors Acceptance Test		

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### X-Ray Endstations



Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
XE_7063	RECV: 2-D X-Ray Detector	0		23OCT08					RECV: 2-D X-Ray Detector	
XE_7083	AVAIL: 2-D X-Ray Detector	0		23OCT08					AVAIL: 2-D X-Ray Detector	
XE_7102	Contract - Demo at SLAC - 2-D X-Ray Detector	20	24OCT08	20NOV08					Contract - Demo at SLAC - 2-D X-Ray Detector	
<b>1.06.05.03 Beam Intensity</b>										
XE_7029	Specification - Beam Intensity	40	02OCT06*	28NOV06					Specification - Beam Intensity	
XE_7069	BEAM INTENSITY	276	02OCT06	15NOV07					BEAM INTENSITY	
XE_7030	Design - Beam Intensity	40	29NOV06	08FEB07					Design - Beam Intensity	
XE_7031	Design Review - Beam Intensity	5	09FEB07	15FEB07					Design Review - Beam Intensity	
XE_7032	COMP: Design - Beam Intensity	0		15FEB07					COMP: Design - Beam Intensity	
XE_7033	Prep Bid Pkg - Beam Intensity	5	16FEB07	23FEB07					Prep Bid Pkg - Beam Intensity	
XE_7034	Bid Process - Beam Intensity	20	26FEB07	23MAR07					Bid Process - Beam Intensity	
XE_7036	Vendor Fab/Ship - Beam Intensity	40	27MAR07	21MAY07					Vendor Fab/Ship - Beam Intensity	
XE_7037	RECV: Beam Intensity	0		21MAY07					RECV: Beam Intensity	
XE_7038	Assemble - Beam Intensity	80	22MAY07	13SEP07					Assemble - Beam Intensity	
XE_7089	AVAIL: Beam Intensity	0		13SEP07					AVAIL: Beam Intensity	
XE_7039	REQD: FEE Beneficial Occupancy	0		15NOV07					REQD: FEE Beneficial Occupancy	
<b>1.06.05.04 Streak Camera</b>										
XE_7042	Specification - Streak Camera	40	06JUN06	01AUG06					Specification - Streak Camera	
XE_7132	STREAK CAMERA	498	06JUN06	23JUN08					STREAK CAMERA	
XE_7043	Preliminary Design - Streak Camera	40	02AUG06	27SEP06					Preliminary Design - Streak Camera	
XE_7044	Preliminary Design Review - Streak Camera	5	02OCT06	06OCT06					Preliminary Design Review - Streak Camera	
XE_7109	Final Design - Streak Camera	40	09OCT06	05DEC06					Final Design - Streak Camera	
XE_7110	Final Design Review - Streak Camera	5	06DEC06	12DEC06					Final Design Review - Streak Camera	
XE_7045	COMP: Design - Streak Camera	0		12DEC06					COMP: Design - Streak Camera	
XE_7046	Prep Bid Pkg - Streak Camera	5	13DEC06	03JAN07					Prep Bid Pkg - Streak Camera	
XE_7047	Bid Process - Streak Camera	20	04JAN07	01FEB07					Bid Process - Streak Camera	
XE_7105	Contract 50% Complete - Streak Camera	100	05FEB07	26JUN07					Contract 50% Complete - Streak Camera	
XE_7106	Vendor Contract 100% Complete - Streak Camera	100	27JUN07	15NOV07					Vendor Contract 100% Complete - Streak Camera	
XE_7107	Produce Report,Contract Complete - Streak Camera	60	16NOV07	29FEB08					Produce Report,Contract Complete - Streak Camera	
XE_7050	RECV: Streak Camera	0		29FEB08					RECV: Streak Camera	
XE_7051	Assemble at SLAC - Streak Camera	40	03MAR08	25APR08					Assemble at SLAC - Streak Camera	
XE_7049	Inspect/Vendor Setup - Streak Camera	40	28APR08	23JUN08					Inspect/Vendor Setup - Streak Camera	
XE_7052	REQD: Near Hall Beneficial Occupancy	0		23JUN08					REQD: Near Hall Beneficial Occupancy	
XE_7142	AVAIL: Streak Camera	0		23JUN08					AVAIL: Streak Camera	
<b>1.06.06 System Installation &amp; Alignment</b>										
<b>1.06.06.01 Front End Install</b>										
XE_142	Install FEE Beam Stop Hardware	20	24APR07	21MAY07					Install FEE Beam Stop Hardware	

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**X-Ray Endstations**



Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
XE_7027	Install FEE - Beam Imaging	20	22MAY07	19JUN07				Install FEE - Beam Imaging		
XE_7087	Set Up PC - Beam Imaging	10	20JUN07	03JUL07				Set Up PC - Beam Imaging		
XE_7077	Integrate with Controls - Beam Imaging	10	05JUL07	18JUL07				Integrate with Controls - Beam Imaging		
XE_7028	COMP: Beam Imaging	0		18JUL07				COMP: Beam Imaging		
XE_2218	Install Electronics FEE - Network	40	15NOV07	30JAN08			Install Electronics FEE - Network			
XE_7070	Install FEE - Beam Intensity	20	16NOV07	02JAN08				Install FEE - Beam Intensity		
XE_107	Install FEE Alarms/Signs - PPS	40	16NOV07	31JAN08				Install FEE Alarms/Signs - PPS		
XE_152	Install Cable Tray FEE - Cabling	40	16NOV07	31JAN08			Install Cable Tray FEE - Cabling			
XE_185	Install FEE Containment/Interlock - PPS	40	16NOV07	31JAN08			Install FEE Containment/Interlock - PPS			
XE_5006	Install FEE Sensors - MPS	40	16NOV07	31JAN08				Install FEE Sensors - MPS		
XE_5012	Install FEE Interlocks - MPS	40	16NOV07	31JAN08				Install FEE Interlocks - MPS		
XE_5023	Install FEE Valves - MPS	40	16NOV07	31JAN08				Install FEE Valves - MPS		
XE_99	Install FEE Detectors - PPS	40	16NOV07	31JAN08				Install FEE Detectors - PPS		
XE_0311	Install FEE Racks & Panels - Cabling	40	27NOV07	07FEB08			Install FEE Racks & Panels - Cabling			
XE_0441	Install FEE Cables - Cabling	40	04DEC07	14FEB08				Install FEE Cables - Cabling		
XE_7040	Integrate with Controls - Beam Intensity	20	03JAN08	31JAN08			Integrate with Controls - Beam Intensity			
XE_7041	COMP: Beam Intensity	0		31JAN08				COMP: Beam Intensity		
XE_2219	Test FEE - Network	10	31JAN08	13FEB08				Test FEE - Network		
XE_186	Test FEE - PPS	5	01FEB08	07FEB08				Test FEE - PPS		
XE_5013	Test FEE - MPS	5	01FEB08	07FEB08				Test FEE - MPS		
XE_98	COMP: FEE X-RAY PPS	0		07FEB08				COMP: FEE X-RAY PPS		
XE_5022	COMP: FEE MPS	0	08FEB08	07FEB08				COMP: FEE MPS		
XE_2239	COMP: FEE Network	0		13FEB08				COMP: FEE Network		
XE_0321	Test FEE - Cabling	10	15FEB08	29FEB08				Test FEE - Cabling		
XE_0421	COMP: FEE - Cabling	0		29FEB08				COMP: FEE - Cabling		
<b>1.06.06.02 Near Hall Install</b>										
XE_18	Install NH Beam Stop Hardware	20	24APR07	21MAY07				Install NH Beam Stop Hardware		
XE_M27	Start Installation in Near Hall	0	22MAY07					Start Installation in Near Hall		
XE_2720	Install Near Hall Alarms/Signs - Laser PPS	20	22MAY07	19JUN07				Install Near Hall Alarms/Signs - Laser PPS		
XE_2721	Install Near Hall Contain/Interlock - Laser PPS	20	22MAY07	19JUN07			Install Near Hall Contain/Interlock - Laser PPS			
XE_3019	Install Near Hall Alarms/Signs - X-Ray PPS	20	22MAY07	19JUN07				Install Near Hall Alarms/Signs - X-Ray PPS		
XE_3020	Install Near Hall Containment/Interlock-X-Ray PPS	20	22MAY07	19JUN07			Install Near Hall Containment/Interlock-X-Ray PPS			
XE_3021	Install Near Hall Detectors - X-Ray PPS	20	22MAY07	19JUN07				Install Near Hall Detectors - X-Ray PPS		
XE_5043	Install Near Hall Sensors - MPS	20	22MAY07	19JUN07				Install Near Hall Sensors - MPS		
XE_5044	Install Near Hall Interlocks - MPS	20	22MAY07	19JUN07				Install Near Hall Interlocks - MPS		
XE_5045	Install Near Hall Valves - MPS	20	22MAY07	19JUN07				Install Near Hall Valves - MPS		
XE_6032	Install Diagnostics Near Hall - Laser Timing	20	22MAY07	19JUN07			Install Diagnostics Near Hall - Laser Timing			

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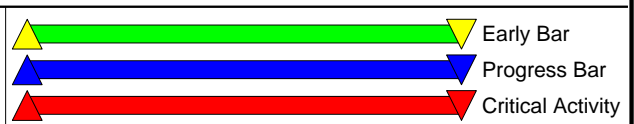
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▶ Progress Bar  
▶ Critical Activity

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Year						
					2004	2005	2006	2007	2008	2009	
XE_920	Install Near Hall Alarms/Signs - User Safeguards	20	22MAY07	19JUN07							
XE_921	Install Near Hall Contain/Interlock - User Safegu	20	22MAY07	19JUN07							
XE_922	Install Near Hall Detectors - User Safeguards	20	22MAY07	19JUN07							
XE_6050	First Install Near Hall - Laser Amplifiers	10	30MAY07	12JUN07							
XE_6051	Vendor Setup/Demo NHall - Laser Amplifiers	20	13JUN07	11JUL07							
XE_2723	Test Near Hall - Laser PPS	5	20JUN07	26JUN07							
XE_3022	Test Near Hall - X-Ray PPS	5	20JUN07	26JUN07							
XE_5046	Test Near Hall - MPS	5	20JUN07	26JUN07							
XE_923	Test Near Hall - User Safeguards	5	20JUN07	26JUN07							
XE_6072	Test Timing System Near Hall - Laser Timing	40	20JUN07	15AUG07							
XE_2724	COMP: Near Hall Laser PPS	0		26JUN07							
XE_3023	COMP: Near Hall X-Ray PPS	0		26JUN07							
XE_924	COMP: Near Hall User Safeguards	0		26JUN07							
XE_M34	Certify Near Hall X-Ray PPS and MPS	0		26JUN07							
XE_5047	COMP: Near Hall MPS	0	27JUN07	26JUN07							
XE_6052	Final Check Near Hall - Laser Amplifiers	5	12JUL07	18JUL07							
XE_6053	Test Near Hall - Laser Amplifiers	5	19JUL07	25JUL07							
XE_6054	COMP: Near Hall Laser Amplifiers	0		25JUL07							
XE_6036	COMP: Near Hall Laser Timing	0		15AUG07							
XE_M38	Synchronize NH Laser with LINAC Master Oscillato	0		15AUG07							
XE_4020	Install Energy Sensors - Laser Diagnostics	20	19OCT07	15NOV07							
XE_4021	Install IR FROG - Laser Diagnostics	20	19OCT07	15NOV07							
XE_4030	Install Fast Diodes - Laser Diagnostics	20	19OCT07	15NOV07							
XE_4041	Install Oscilloscope - Laser Diagnostics	20	19OCT07	15NOV07							
XE_4042	Install Autocorrelators - Laser Diagnostics	20	19OCT07	15NOV07							
XE_162	Install Cable Tray Near Hall - Cabling	40	12NOV07	25JAN08							
XE_306	Install Data Storag Near Hall - Beamline Cntrl	20	15NOV07	14DEC07							
XE_4023	Test - Laser Diagnostics	5	16NOV07	26NOV07							
XE_6011	Install Pipe, Laser Table to X-Ray Hutch-LSupp	20	16NOV07	02JAN08							
XE_0312	Install Near Hall Racks & Panels - Cabling	40	19NOV07	01FEB08							
XE_4024	COMP: Laser Diagnostics	0		26NOV07							
XE_163	Install Cable Near Hall - Cabling	40	28NOV07	08FEB08							
XE_710	Install Laser Table Near Hall - Oscillator Laser	20	04DEC07	16JAN08							
XE_2599	Install Near Hall Data Storage - Beamline Contrl	20	02JAN08	30JAN08							
XE_2621	Install Near Hall R/Trans Stage - Beamline Contr	20	02JAN08	30JAN08							
XE_2622	Install Near Hall MC Software - Beamline Control	20	02JAN08	30JAN08							
XE_6015	Test - Optic Transport	5	03JAN08	09JAN08							

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**INTEGRATED SCHEDULE**  
X-Ray Endstations



Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
XE_740	First Install Near Hall - Oscillator Laser/Pump	10	17JAN08	31JAN08				First Install Near Hall - Oscillator Laser/Pump		
XE_2623	Install Near Hall MC Electronics - Beam Control	20	31JAN08	28FEB08				Install Near Hall MC Electronics - Beam Control		
XE_730	Vendor Setup/Demo NHall - Oscillator Laser/Pump	20	01FEB08	29FEB08				Vendor Setup/Demo NHall - Oscillator Laser/Pump		
XE_0322	COMP: Near Hall Laser Installed - Cabling	0		08FEB08				COMP: Near Hall Laser Installed - Cabling		
XE_0371	Install Cable to Near Hall Laser - Cabling	5	11FEB08	15FEB08				Install Cable to Near Hall Laser - Cabling		
XE_516	Install Near Hall - Chamber Spt Table	20	11FEB08	10MAR08				Install Near Hall - Chamber Spt Table		
XE_6016	COMP: Laser Supplies/Optic Transport	0		14FEB08				COMP: Laser Supplies/Optic Transport		
XE_2221	Install Near Hall Electronics - Network	20	14FEB08	13MAR08				Install Near Hall Electronics - Network		
XE_0341	Test Near Hall - Cabling	10	19FEB08	03MAR08				Test Near Hall - Cabling		
XE_2278	Install Near Hall Domain Server - PC Support	20	19FEB08	17MAR08				Install Near Hall Domain Server - PC Support		
XE_2309	Install Near Hall PCs/Software/Printer - PC Support	20	19FEB08	17MAR08				Install Near Hall PCs/Software/Printer - PC Support		
XE_2624	Test Near Hall - Beamline Control	10	29FEB08	13MAR08				Test Near Hall - Beamline Control		
XE_0411	COMP: Near Hall - Cabling	0		03MAR08				COMP: Near Hall - Cabling		
XE_712	Final Check Near Hall - Oscillator Laser/Pump	5	03MAR08	07MAR08				Final Check Near Hall - Oscillator Laser/Pump		
XE_517	COMP: Near Hall Chamber Spt Table	0		10MAR08				COMP: Near Hall Chamber Spt Table		
XE_700	Test Near Hall - Oscillator Laser/Pump	5	10MAR08	14MAR08				Test Near Hall - Oscillator Laser/Pump		
XE_2625	COMP: Near Hall - Beamline Control	0		13MAR08				COMP: Near Hall - Beamline Control		
XE_713	COMP: Near Hall Oscillator Laser/Pump	0		14MAR08				COMP: Near Hall Oscillator Laser/Pump		
XE_M31	Laser Operating in Near Hall	0		14MAR08				Laser Operating in Near Hall		
XE_2224	Test Near Hall - Network	10	14MAR08	27MAR08				Test Near Hall - Network		
XE_2279	Install Near Hall File Server - PC Support	20	18MAR08	14APR08				Install Near Hall File Server - PC Support		
XE_5311	Install Near Hall - Experimental Chamber	20	08APR08	05MAY08				Install Near Hall - Experimental Chamber		
XE_2280	Test Near Hall - PC Support	10	15APR08	28APR08				Test Near Hall - PC Support		
XE_817	Install Near Hall Gauges - Vacuum	5	22APR08	28APR08				Install Near Hall Gauges - Vacuum		
XE_2281	COMP: Near Hall - PC Support	0		28APR08				COMP: Near Hall - PC Support		
XE_818	COMP: Near Hall Gauges - Vacuum	0		28APR08				COMP: Near Hall Gauges - Vacuum		
XE_5321	Leak Check/Test Near Hall - Experimental Chamber	5	06MAY08	12MAY08				Leak Check/Test Near Hall - Experimental Chamber		
XE_5312	COMP: Near Hall Experimental Chamber	0		12MAY08				COMP: Near Hall Experimental Chamber		
XE_2920	Install Near Hall - Vacuum Hardware	5	13MAY08	19MAY08				Install Near Hall - Vacuum Hardware		
XE_2971	Install NH Turbo Pump - Vacuum	5	13MAY08	19MAY08				Install NH Turbo Pump - Vacuum		
XE_2948	Install Near Hall Ion Pump - Vacuum	10	13MAY08	27MAY08				Install Near Hall Ion Pump - Vacuum		
XE_2780	Install Near Hall Valves - Vacuum	5	14MAY08	20MAY08				Install Near Hall Valves - Vacuum		
XE_2921	COMP: Near Hall Vacuum Hardware	0		19MAY08				COMP: Near Hall Vacuum Hardware		
XE_2985	COMP: NH Turbo Pump - Vacuum	0		19MAY08				COMP: NH Turbo Pump - Vacuum		
XE_2772	COMP: Near Hall Valve - Vacuum	0		20MAY08				COMP: Near Hall Valve - Vacuum		
XE_2949	COMP: Near Hall Ion Pump - Vacuum	0		27MAY08				COMP: Near Hall Ion Pump - Vacuum		
XE_7053	Install Near Hall - Streak Camera	20	24JUN08	22JUL08				Install Near Hall - Streak Camera		

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**X-Ray Endstations**





Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Year					
					2004	2005	2006	2007	2008	2009
XE_7073	Integrate with Controls - Streak Camera	20	23JUL08	19AUG08			Integrate with Controls - Streak Camera			
XE_7054	COMP: Streak Camera	0		19AUG08			COMP: Streak Camera			
XE_M29	Complete Near Hall Installation	0		19AUG08			Complete Near Hall Installation			
<b>1.06.06.03 Tunnel Install</b>										
XE_233367	Install Beam Stop Hardware	20	31AUG07	28SEP07			Install Beam Stop Hardware			
XE_420	Install Tunnel Containment/Interlock - X-Ray PPS	20	17SEP07	12OCT07			Install Tunnel Containment/Interlock - X-Ray PPS			
XE_421	Install Tunnel Detectors - X-Ray PPS	20	17SEP07	12OCT07			Install Tunnel Detectors - X-Ray PPS			
XE_5067	Install Tunnel Sensors - MPS	20	17SEP07	12OCT07			Install Tunnel Sensors - MPS			
XE_5068	Install Tunnel Interlocks - MPS	20	17SEP07	12OCT07			Install Tunnel Interlocks - MPS			
XE_5069	Install Tunnel Valves - MPS	20	17SEP07	12OCT07			Install Tunnel Valves - MPS			
XE_419	Install Tunnel Alarms/Signs - X-Ray PPS	40	17SEP07	09NOV07			Install Tunnel Alarms/Signs - X-Ray PPS			
XE_5070	Test Tunnel - MPS	5	15OCT07	19OCT07			Test Tunnel - MPS			
XE_5071	COMP: Tunnel MPS	0	22OCT07	19OCT07			COMP: Tunnel MPS			
XE_422	Test Tunnel - X-Ray PPS	5	12NOV07	16NOV07			Test Tunnel - X-Ray PPS			
XE_172	Install Tunnel Cable Tray - Cabling	40	12NOV07	25JAN08			Install Tunnel Cable Tray - Cabling			
XE_423	COMP: Tunnel X-Ray PPS	0		16NOV07			COMP: Tunnel X-Ray PPS			
XE_192	Install Tunnel Racks - Cabling	40	28JAN08	24MAR08			Install Tunnel Racks - Cabling			
XE_202	Install Tunnel Cable - Cabling	40	25MAR08	19MAY08			Install Tunnel Cable - Cabling			
XE_2226	Install Tunnel Electronics - Network	10	28MAR08	10APR08			Install Tunnel Electronics - Network			
XE_2227	Test Tunnel - Network	5	11APR08	17APR08			Test Tunnel - Network			
XE_2237	COMP: Tunnel - Network	0		17APR08			COMP: Tunnel - Network			
XE_0351	Test Tunnel - Cabling	10	20MAY08	03JUN08			Test Tunnel - Cabling			
XE_0261	COMP: Tunnel - Cabling	0		03JUN08			COMP: Tunnel - Cabling			
<b>1.06.06.04 Far Hall Install</b>										
XE_M28	Start Installation in Far Hall	0	07AUG07				Start Installation in Far Hall			
XE_444	Install Far Hall Alarms/Signs - PPS	20	07AUG07	04SEP07			Install Far Hall Alarms/Signs - PPS			
XE_444791	Install Beam Stop Hardware	20	07AUG07	04SEP07			Install Beam Stop Hardware			
XE_445	Install Far Hall Containment/Interlock - PPS	20	07AUG07	04SEP07			Install Far Hall Containment/Interlock - PPS			
XE_446	Install Far Hall Detectors - PPS	20	07AUG07	04SEP07			Install Far Hall Detectors - PPS			
XE_5091	Install Far Hall Sensors - MPS	20	07AUG07	04SEP07			Install Far Hall Sensors - MPS			
XE_5092	Install Far Hall Interlocks - MPS	20	07AUG07	04SEP07			Install Far Hall Interlocks - MPS			
XE_5093	Install Far Hall Valves - MPS	20	07AUG07	04SEP07			Install Far Hall Valves - MPS			
XE_6103	Install Diagnostics Far Hall - Laser Timing	20	07AUG07	04SEP07			Install Diagnostics Far Hall - Laser Timing			
XE_7501	Install Far Hall Alarms/Signs - Laser PPS	20	07AUG07	04SEP07			Install Far Hall Alarms/Signs - Laser PPS			
XE_7511	Install Far Hall Contain/Interlock - Laser PPS	20	07AUG07	04SEP07			Install Far Hall Contain/Interlock - Laser PPS			
XE_7521	Install Far Hall Detectors - Laser PPS	20	07AUG07	04SEP07			Install Far Hall Detectors - Laser PPS			
XE_870	Install Far Hall Alarms/Signs - User Safeguards	20	07AUG07	04SEP07			Install Far Hall Alarms/Signs - User Safeguards			

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**X-Ray Endstations**



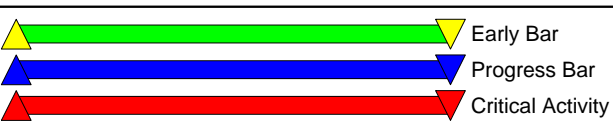
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish							
					2004	2005	2006	2007	2008	2009	
XE_871	Install Far Hall Contain/Interlock - User Safegua	20	07AUG07	04SEP07		Install Far Hall Contain/Interlock - User Safegu					
XE_872	Install Far Hall Detectors - User Safeguards	20	07AUG07	04SEP07		Install Far Hall Detectors - User Safeguard					
XE_6104	Test Timing Far Hall - Laser Timing	40	07AUG07	02OCT07					Test Timing Far Hall - Laser Timing		
XE_447	Test Far Hall - PPS	5	05SEP07	11SEP07					Test Far Hall - PPS		
XE_5094	Test Far Hall - MPS	5	05SEP07	11SEP07					Test Far Hall - MPS		
XE_7531	Test Far Hall - Laser PPS	5	05SEP07	11SEP07					Test Far Hall - Laser PPS		
XE_873	Test Far Hall - User Safeguards	5	05SEP07	11SEP07					Test Far Hall - User Safeguards		
XE_448	COMP: Far Hall X-Ray PPS	0		11SEP07					COMP: Far Hall X-Ray PPS		
XE_5411	COMP: Far Hall Laser PPS	0		11SEP07					COMP: Far Hall Laser PPS		
XE_874	COMP: Far Hall User Safeguards	0		11SEP07					COMP: Far Hall User Safeguards		
XE_M35	Certify X-Ray PPS and MPS in Far Hall	0		11SEP07					Certify X-Ray PPS and MPS in Far Hall		
XE_5095	COMP: Far Hall MPS	0	12SEP07	11SEP07					COMP: Far Hall MPS		
XE_6106	COMP: Far Hall Laser Timing	0		02OCT07					COMP: Far Hall Laser Timing		
XE_0324	Install Cable Tray FH - Cabling	40	03DEC07	13FEB08					Install Cable Tray FH - Cabling		
XE_5517	Install Laser Table Far Hall-Oscillator Laser	5	04DEC07	10DEC07		Install Laser Table Far Hall-Oscillator Lase					
XE_5518	First Install Far Hall - Oscillator Laser/Pump	10	11DEC07	09JAN08		First Install Far Hall - Oscillator Laser/Pum					
XE_7011	First Install Far Hall - Laser Amplifiers	10	11DEC07	09JAN08		First Install Far Hall - Laser Amplifier					
XE_2629	Install Far Hall MC Software - Beamline Cntrl	20	02JAN08	30JAN08		Install Far Hall MC Software - Beamline Cntr					
XE_2630	Install Far Hall MC Electronics - Beam Control	20	02JAN08	30JAN08		Install Far Hall MC Electronics - Beam Control					
XE_316	Install Data Storage Far Hall - Beamline Cntrl	20	02JAN08	30JAN08		Install Data Storage Far Hall - Beamline Cntr					
XE_2627	Programming Far Hall - Beamline Control	80	02JAN08	24APR08		Programming Far Hall - Beamline Control					
XE_5519	Vendor Setup/Demo FHall - Oscillator Laser/Pump	20	10JAN08	07FEB08		Vendor Setup/Demo FHall - Oscillator Laser/Pum					
XE_7012	Vendor Setup/Demo FHall - Laser Amplifiers	20	10JAN08	07FEB08		Vendor Setup/Demo FHall - Laser Amplifier					
XE_307	Test High Perf Data Storage - Beamline Control	5	31JAN08	06FEB08		Test High Perf Data Storage - Beamline Control					
XE_5520	Final Check Far Hall - Oscillator Laser/Pump	5	08FEB08	14FEB08		Final Check Far Hall - Oscillator Laser/Pum					
XE_7013	Final Check Far Hall - Laser Amplifiers	5	08FEB08	14FEB08		Final Check Far Hall - Laser Amplifier					
XE_M39	Synchronize FH Laser with LINAC Master Oscillato	0		14FEB08		Synchronize FH Laser with LINAC Master Oscillat					
XE_0314	Install Far Hall Racks & Panels - Cabling	40	14FEB08	10APR08		Install Far Hall Racks & Panels - Cabling					
XE_5521	Test Far Hall - Oscillator Laser/Pum	5	15FEB08	22FEB08		Test Far Hall - Oscillator Laser/Pum					
XE_7014	Test Far Hall - Laser Amplifiers	5	15FEB08	22FEB08		Test Far Hall - Laser Amplifier					
XE_5516	COMP: Far Hall Oscillator Laser/Pump	0		22FEB08		COMP: Far Hall Oscillator Laser/Pum					
XE_7015	COMP: Far Hall Laser Amplifiers	0		22FEB08		COMP: Far Hall Laser Amplifier					
XE_M32	Laser Operating in the Far Hall	0		22FEB08		Laser Operating in the Far Hall					
XE_2628	Install Far Hall Rotate/Trans Stage - Beam Cntrl	20	14MAR08	10APR08		Install Far Hall Rotate/Trans Stage - Beam Cntr					
XE_2631	Test Far Hall - Beamline Control	20	14MAR08	10APR08		Test Far Hall - Beamline Control					
XE_5415	Install Far Hall - Experimental Chamber	5	08APR08	14APR08		Install Far Hall - Experimental Chambe					
XE_5488	Leak Check/Test - Experimental Chamber	5	08APR08	14APR08		Leak Check/Test - Experimental Chambe					

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**INTEGRATED SCHEDULE**

X-Ray Endstations



Activity ID	Activity Description	Orig Dur	Early Start	Early Finish							
					2004	2005	2006	2007	2008	2009	
XE_2632	COMP: Far Hall - Beamline Control	0		10APR08							
XE_2633	Integrate & Test System - Beamline Control	20	11APR08	08MAY08							
XE_0334	Install Cable Far Hall - Cabling	40	11APR08	06JUN08							
XE_2229	Install Far Hall Electronics - Network	20	18APR08	15MAY08							
XE_825	Install Far Hall Gauges - Vacuum	5	22APR08	28APR08							
XE_2288	Install Far Hall PCs/Software/Printer - PC Spt	10	29APR08	12MAY08							
XE_2289	Install Far Hall Domain Server - PC Support	10	29APR08	12MAY08							
XE_2319	Install Far Hall File Server - PC Support	10	29APR08	12MAY08							
XE_806	Test Gauges - Vacuum System	60	29APR08	23JUL08							
XE_2634	COMP: System Integrate & Test - Beamline Control	0		08MAY08							
XE_M33	Complete Beamline Control	0		08MAY08							
XE_5416	COMP: Far Hall Experimental Chamber	0		12MAY08							
XE_29722	Install Far Hall Turbo Pump - Vacuum	5	13MAY08	19MAY08							
XE_2956	Install Far Hall Ion Pump - Vacuum	10	13MAY08	27MAY08							
XE_2290	Test Far Hall - PC Support	40	13MAY08	09JUL08							
XE_2232	Test Far Hall - Network	40	16MAY08	14JUL08							
XE_29723	COMP: Far Hall Turbo Pump - Vacuum	0		19MAY08							
XE_2928	Install Far Hall - Vacuum Hardware	5	20MAY08	27MAY08							
XE_2807	Install Far Hall Valve - Vacuum	5	21MAY08	28MAY08							
XE_2929	COMP: Far Hall Vacuum Hardware	0		27MAY08							
XE_2930	COMP: Vacuum Hardware	0		27MAY08							
XE_2957	COMP: Far Hall Ion Pump - Vacuum	0		27MAY08							
XE_2958	COMP: Ion Pump - Vacuum	0		27MAY08							
XE_2777	COMP: Vacuum Valves	0		28MAY08							
XE_2808	COMP: Far Hall Valve - Vacuum	0		28MAY08							
XE_0391	COMP: Far Hall Laser Installed Ready - Cabling	0		06JUN08							
XE_0381	Install Cable to Far Hall Laser - Cabling	5	09JUN08	13JUN08							
XE_0361	Test Far Hall - Cabling	20	16JUN08	14JUL08							
XE_513	Install Far Hall - Chamber Spt Table	5	02JUL08	09JUL08							
XE_2291	COMP: Far Hall - PC Support	0		09JUL08							
XE_514	COMP: Far Hall Chamber Spt Table	0		09JUL08							
XE_527	COMP: Chamber Support Tables	0		09JUL08							
XE_2292	Integrate & Test System - PC Support	20	10JUL08	06AUG08							
XE_0431	COMP: Far Hall - Cabling	0		14JUL08							
XE_2242	COMP: Far Hall - Network	0		14JUL08							
XE_0331	System Integrate & Test Far Hall - Cabling	20	15JUL08	11AUG08							
XE_2233	Integrate & Test System Far Hall - Network	40	15JUL08	09SEP08							

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X-Ray Endstations**

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▶ Early Bar  
▶ Progress Bar  
▶ Critical Activity

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish							
					2004	2005	2006	2007	2008	2009	
XE_826	COMP: Far Hall Gauges - Vacuum	0		23JUL08							COMP: Far Hall Gauges - Vacuum
XE_827	COMP: Gauges - Vacuum System	0		23JUL08							COMP: Gauges - Vacuum System
XE_M37	Complete Mechanical & Vacuum - Ready to Commiss	0		23JUL08							Complete Mechanical & Vacuum - Ready to Commiss
XE_2293	COMP: System Integrate & Test - PC Support	0		06AUG08							COMP: System Integrate & Test - PC Support
XE_0401	COMP: System Integrate & Test FH - Cabling	0		11AUG08							COMP: System Integrate & Test FH - Cabling
XE_M36	Complete Network & Cable - Ready to Commission	0		11AUG08							Complete Network & Cable - Ready to Commission
XE_2243	COMP: System Integrate & Test Far Hall-Network	0		09SEP08							COMP: System Integrate & Test Far Hall-Network
XE_M40	Complete Accept Tests for 2-D X-Ray Detector	0		20NOV08							Complete Accept Tests for 2-D X-Ray Detector
XE_7064	Install at SLAC - 2-D X-Ray Detector	20	21NOV08	02JAN09							Install at SLAC - 2-D X-Ray Detector
XE_7076	Integrate with Controls - 2-D X-Ray Detector	20	05JAN09	30JAN09							Integrate with Controls - 2-D X-Ray Detector
XE_7067	COMP: 2-D X-Ray Detector	0		30JAN09							COMP: 2-D X-Ray Detector

## 2 LCLS PROJECT - R&D, SPARES, COMMISSIONING

### 2.06 X-RAY END STATION SYSTEMS (OPC)

#### 2.06.01 XE System Mgmt & Integration

XEOPS_0000	X-Ray End Stations Pre-Operations	283	04FEB08*	25MAR09							X-Ray End Stations Pre-Operations
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#### 2.06.02 Controls Subsystem

##### 2.06.02.01 Cabling

XE_0451	Commission FEE - Cabling	20	03MAR08	28MAR08							Commission FEE - Cabling
XE_0461	Commission Near Hall - Cabling	20	04MAR08	31MAR08							Commission Near Hall - Cabling
XE_0291	Commission Tunnel - Cabling	20	04JUN08	01JUL08							Commission Tunnel - Cabling
XE_0241	Commission Far Hall - Cabling	20	12AUG08	09SEP08							Commission Far Hall - Cabling

##### 2.06.02.02 Network

XE_2234	Commission - Network	20	10SEP08	07OCT08							Commission - Network
XE_2254	COMP: Commission - Network	0		07OCT08							COMP: Commission - Network

##### 2.06.02.03 PC Support

XE_2294	Commission - PC Support	20	07AUG08	04SEP08							Commission - PC Support
XE_2295	COMP: Commission - PC Support	0		04SEP08							COMP: Commission - PC Support

##### 2.06.02.04 Beamline Controls

XE_2635	Commission - Beamline Control	20	09MAY08	06JUN08							Commission - Beamline Control
XE_2636	COMP: Commission - Beamline Control	0		06JUN08							COMP: Commission - Beamline Control

##### 2.06.02.05 X-Ray PPS

XE_3033	Commission Near Hall - X-Ray PPS	20	27JUN07	25JUL07							Commission Near Hall - X-Ray PPS
XE_458	Commission Far Hall X-Ray PPS	20	12SEP07	09OCT07							Commission Far Hall X-Ray PPS
XE_463	Commission Tunnel - X-Ray PPS	20	19NOV07	03JAN08							Commission Tunnel - X-Ray PPS
XE_108	Commission FEE - X-Ray PPS	20	08FEB08	07MAR08							Commission FEE - X-Ray PPS

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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
<b>2.06.02.06 X-Ray MPS</b>										
XE_5097	Commission Near Hall - X-Ray MPS	20	27JUN07	25JUL07				Commission Near Hall - X-Ray MPS		
XE_5125	Commission Far Hall - X-Ray MPS	20	12SEP07	09OCT07				Commission Far Hall - X-Ray MPS		
XE_5101	Commission Tunnel - X-Ray MPS	20	22OCT07	16NOV07				Commission Tunnel - X-Ray MPS		
XE_5132	Commission FEE - X-Ray MPS	20	08FEB08	07MAR08				Commission FEE - X-Ray MPS		
<b>2.06.02.07 Laser PPS</b>										
XE_2734	Commission Near Hall - Laser PPS	20	27JUN07	25JUL07				Commission Near Hall - Laser PPS		
XE_5421	Commission Far Hall - Laser PPS	20	12SEP07	09OCT07				Commission Far Hall - Laser PPS		
<b>2.06.02.08 User Safeguards</b>										
XE_934	Commission Near Hall - User Safeguards	20	27JUN07	25JUL07				Commission Near Hall - User Safeguards		
XE_884	Commission Far Hall - User Safeguards	20	12SEP07	09OCT07				Commission Far Hall - User Safeguards		
<b>2.06.03 Mechanical/Vacuum Subsystem</b>										
<b>2.06.03.02 Vacuum Components - Mech/Vac</b>										
XE_2986	Commission Turbo Pump - Vacuum	20	20MAY08	17JUN08				Commission Turbo Pump - Vacuum		
XE_2978	Commission Ion Pump - Vacuum	20	28MAY08	24JUN08				Commission Ion Pump - Vacuum		
XE_2818	Commission Valves - Vacuum	20	29MAY08	25JUN08				Commission Valves - Vacuum		
XE_828	Commission Gauges - Vacuum	20	24JUL08	20AUG08				Commission Gauges - Vacuum		
<b>2.06.03.03 Experimental Chambers</b>										
XE_2979	Commission Far Hall Experiment Chamber - Vacuum	20	15APR08	12MAY08				Commission Far Hall Experiment Chamber - Vacuum		
XE_5313	Commission Near Hall Experiment Chamber - Vacuum	20	13MAY08	10JUN08				Commission Near Hall Experiment Chamber - Vacuum		
<b>2.06.04 Laser Subsystem</b>										
<b>2.06.04.01 Oscillator Laser &amp; Pump</b>										
XE_55	Commission Far Hall - Oscillator Laser/Pump	120	25FEB08	12AUG08				Commission Far Hall - Oscillator Laser/Pump		
XE_7144	Commission Near Hall - Oscillator Laser/Pump	20	17MAR08	11APR08				Commission Near Hall - Oscillator Laser/Pump		
<b>2.06.04.02 Laser Diagnostics</b>										
XE_56	Commission - Laser Diagnostics	60	27NOV07	07MAR08				Commission - Laser Diagnostics		
<b>2.06.04.03 Laser Supplies &amp; Optical Transport</b>										
XE_57	Commission - Optic Transport	20	15FEB08	14MAR08				Commission - Optic Transport		
<b>2.06.04.04 Laser Timing</b>										
XE_58	Commission Far Hall - Laser Timing	120	03OCT07	09APR08				Commission Far Hall - Laser Timing		
<b>2.06.04.05 Laser Amplifiers</b>										
XE_59	Commission Near Hall - Laser Amplifiers	120	26JUL07	31JAN08				Commission Near Hall - Laser Amplifier		
XE_60	Commission Far Hall - Laser Amplifiers	120	25FEB08	12AUG08				Commission Far Hall - Laser Amplifier		
<b>2.06.05 X-Ray Detectors</b>										
<b>2.06.05.01 Beam Imaging</b>										
XE_61	Commission - Beam Imaging	120	19JUL07	24JAN08				Commission - Beam Imaging		

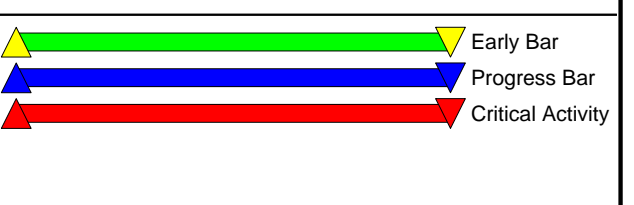
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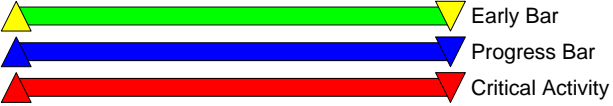


Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
<b>2.06.05.02 2-D X-Ray Detector</b>										
XE_M07	Complete 2-D X-Ray Detector Statement of Work	0		30SEP04	◆ Complete 2-D X-Ray Detector Statement of Work					
XE_7055	Specification - 2-D X-Ray Detector	40	01OCT04	29NOV04	▲▼ Specification - 2-D X-Ray Detector					
XE_7085	2-D X-RAY DETECTOR	1,068	01OCT04	27FEB09	▲▼ 2-D X-RAY DETECTOR					
XE_7059	Prep Bid Pkg - 2-D X-Ray Detector	10	30NOV04	13DEC04	▲▼ Prep Bid Pkg - 2-D X-Ray Detector					
XE_7075	Engineering - 2-D X-Ray Detector	500	30NOV04	02JAN07	▲▼ Engineering - 2-D X-Ray Detector					
XE_7060	Bid Process - 2-D X-Ray Detector	10	14DEC04	10JAN05	▲▼ Bid Process - 2-D X-Ray Detector					
XE_7062	FY-05 Vendor Contract - Design - 2-D X-Ray Det	70	01JUN05*	08SEP05	▲▼ FY-05 Vendor Contract - Design - 2-D X-Ray Det					
XE_7057	FY-05 Design Review - 2-D X-Ray Detector	10	09SEP05	22SEP05	▲▼ FY-05 Design Review - 2-D X-Ray Detector					
XE_M11	FY-05 Design Review - 2-D X-Ray Detector	0		22SEP05	◆ FY-05 Design Review - 2-D X-Ray Detector					
XE_223	FY-06 Vendor Contract - 2-D X-Ray Det	185	03OCT05	11JUL06	▲▼ FY-06 Vendor Contract - 2-D X-Ray Det					
XE_22346	FY-07 Vendor Contract Funds-2-D X-Ray Det	222	02OCT06*	30AUG07	FY-07 Vendor Contract Funds-2-D X-Ray Det					
XE_62	Commission - 2-D X-Ray Detector	20	02FEB09	27FEB09	Commission - 2-D X-Ray Detector					
<b>2.06.05.03 Beam Intensity</b>										
XE_63	Commission - Beam Intensity	120	01FEB08	22JUL08	Commission - Beam Intensity					
<b>2.06.05.04 Streak Camera</b>										
XE_64	Commission - Streak Camera	120	20AUG08	19FEB09	Commission - Streak Camera					
<b>2.06.07 Atomic Physics</b>										
<b>2.06.07.01 Atomic Physics Samples</b>										
XE_7350	Define AP Samples	250	03OCT05	11OCT06	Define AP Samples					
XE_73511	Design AP preparation and handling - Samples	120	12OCT06	18APR07	Design AP preparation and handling - Samples					
XE_M20	Atomic Physics Final Design Review	0		29APR08	◆ Atomic Physics Final Design Review					
XE_7200	Prep Bid Pkg - AP Samples	5	30APR08	06MAY08	Prep Bid Pkg - AP Samples					
XE_73512	Procurements - AP Samples	120	30APR08	17OCT08	Procurements - AP Samples					
XE_7300	Bid Process - AP Samples	20	07MAY08	04JUN08	Bid Process - AP Samples					
XE_7108	Vendor Fab/Ship - AP Samples	40	06JUN08	01AUG08	Vendor Fab/Ship - AP Samples					
XE_7500	RECV: AP Samples	0		01AUG08	◆ RECV: AP Samples					
XE_73513	Assembly - AP Samples	20	04AUG08	29AUG08	Assembly - AP Samples					
XE_M41	First Atomic Physics Experiment	0		29AUG08	◆ First Atomic Physics Experiment					
XE_73514	Test AP Sample	20	02SEP08	29SEP08	▲▼ Test AP Sample					
<b>2.06.07.02 Atomic Physics Diagnostics</b>										
XE_74100	Define AP Diagnostics	250	12OCT06	22OCT07	Define AP Diagnostics					
XE_74101	Design AP Diagnostics	120	23OCT07	29APR08	Design AP Diagnostics					
XE_7302	Prep Bid Pkg - AP Diagnostics	5	30APR08	06MAY08	Prep Bid Pkg - AP Diagnostics					
XE_74102	Procurements - AP Diagnostics	120	30APR08	17OCT08	Procurements - AP Diagnostics					
XE_7303	Bid Process - AP Diagnostics	20	07MAY08	04JUN08	Bid Process - AP Diagnostics					
XE_7305	Vendor Fab/Ship - AP Diagnostics	40	06JUN08	01AUG08	Vendor Fab/Ship - AP Diagnostics					

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					2004	2005	2006	2007	2008	2009
XE_7306	RECV: AP Diagnostics	0		01AUG08					RECV: AP Diagnostics	
XE_74103	Assembly - AP Diagnostics	20	04AUG08	29AUG08					Assembly - AP Diagnostics	
XE_74104	Test AP Diagnostics	20	02SEP08	29SEP08					Test AP Diagnostics	
<b>2.06.07.03 Atomic Physics Data Analysis</b>										
XE_73515	Define AP Data Handling	250	03OCT05	11OCT06					Define AP Data Handling	
XE_73516	Design AP Data Handling	120	12OCT06	18APR07					Design AP Data Handling	
XE_44556	Prep Bid Pkg - AP Data Handling	5	19APR07	25APR07					Prep Bid Pkg - AP Data Handling	
XE_73517	Procurements - AP Data Handling	120	19APR07	08OCT07					Procurements - AP Data Handling	
XE_44557	Bid Process - AP Data Handling	20	26APR07	23MAY07					Bid Process - AP Data Handling	
XE_44559	Vendor Fab/Ship - AP Data Handling	40	25MAY07	23JUL07					Vendor Fab/Ship - AP Data Handling	
XE_44560	RECV: AP Data Handling	0		23JUL07					RECV: AP Data Handling	
XE_73518	Assembly - AP Data Handling	20	24JUL07	20AUG07					Assembly - AP Data Handling	
XE_73519	Test - AP Data Handling	20	02SEP08	29SEP08					Test - AP Data Handling	
<b>2.06.07.04 Atomic Physics Detectors</b>										
XE_73520	Define AP Detectors	250	12OCT06	22OCT07					Define AP Detectors	
XE_73521	Design AP Detectors	120	23OCT07	29APR08					Design AP Detectors	
XE_44561	Prep Bid Pkg - AP Data Handling	5	30APR08	06MAY08					Prep Bid Pkg - AP Data Handling	
XE_73522	Procurements - AP Detectors	120	30APR08	17OCT08					Procurements - AP Detectors	
XE_44562	Bid Process - AP Data Handling	20	07MAY08	04JUN08					Bid Process - AP Data Handling	
XE_44564	Vendor Fab/Ship - AP Data Handling	40	06JUN08	01AUG08					Vendor Fab/Ship - AP Data Handling	
XE_44565	RECV: AP Data Handling	0		01AUG08					RECV: AP Data Handling	
XE_73523	Assembly - AP Detectors	20	20OCT08	14NOV08					Assembly - AP Detectors	
XE_73524	Test - AP Detectors	20	17NOV08	16DEC08					Test - AP Detectors	




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 Early Bar  
 Progress Bar  
 Critical Activity