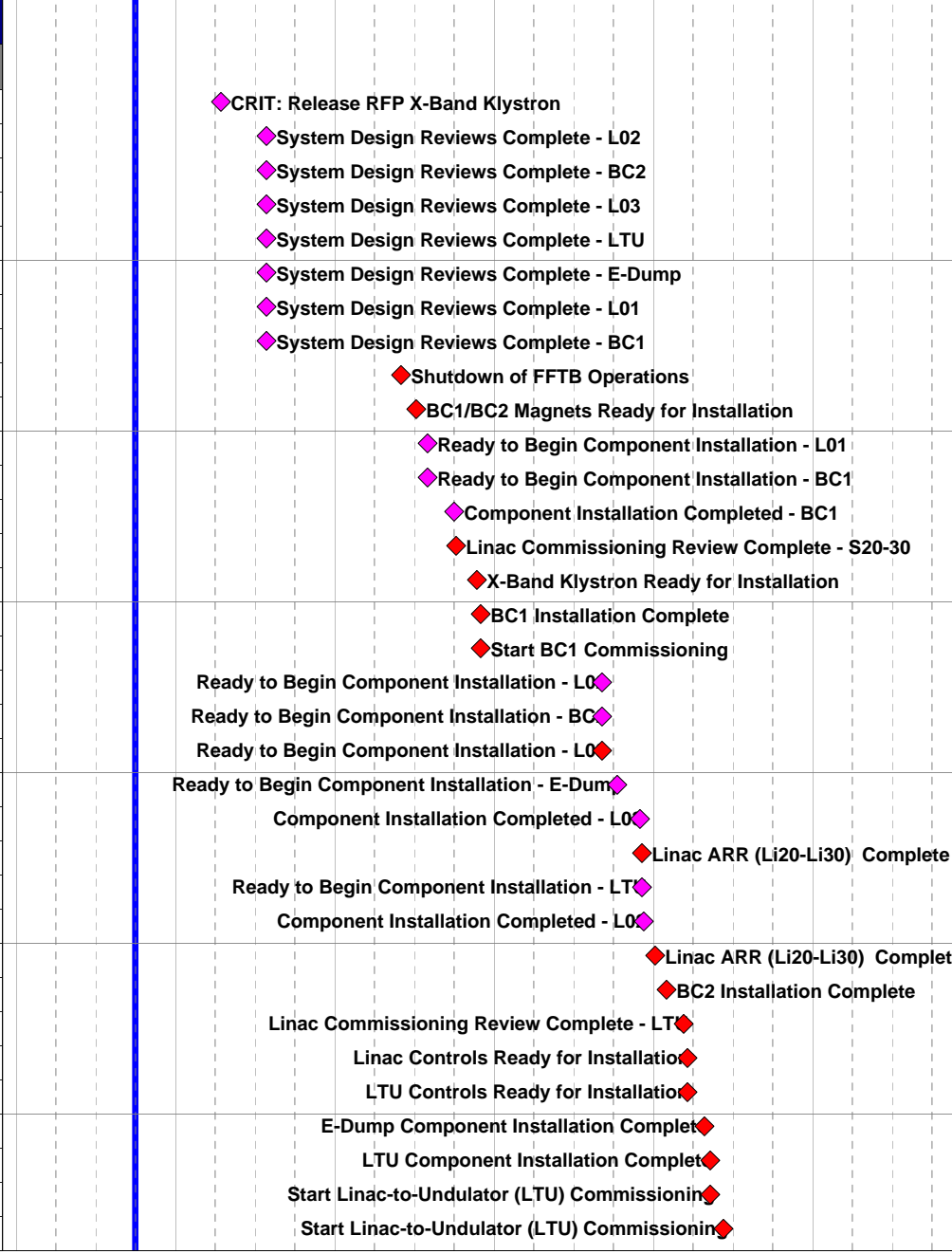


Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	2004	2005	2006	2007	2008	2009
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1 LCLS PROJECT - PED & CONSTRUCTION

1.03 LINAC SYSTEM

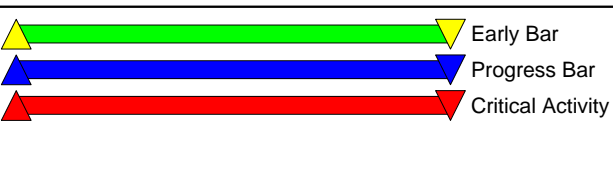
MSC_LN005	CRIT: Release RFP X-Band Klystron	0		13APR05
LNMS_0300	System Design Reviews Complete - L02	0		25JUL05
LNMS_0400	System Design Reviews Complete - BC2	0		25JUL05
LNMS_0500	System Design Reviews Complete - L03	0		25JUL05
LNMS_0600	System Design Reviews Complete - LTU	0		25JUL05
LNMS_0700	System Design Reviews Complete - E-Dump	0		25JUL05
LNMS_0100	System Design Reviews Complete - L01	0		26JUL05
LNMS_0200	System Design Reviews Complete - BC1	0		26JUL05
MSBS_090	Shutdown of FFTB Operations	0	01JUN06*	
MS3_LN016	BC1/BC2 Magnets Ready for Installation	0		03JUL06*
LNMS_0140	Ready to Begin Component Installation - L01	0	01AUG06	
LNMS_0240	Ready to Begin Component Installation - BC1	0	01AUG06	
LNMS_0260	Component Installation Completed - BC1	0		29SEP06
MS3_LN030	Linac Commissioning Review Complete - S20-30	0		03OCT06*
MS3_LN010	X-Band Klystron Ready for Installation	0		22NOV06*
MS3_LN012	BC1 Installation Complete	0		29NOV06*
MS3_LN013	Start BC1 Commissioning	0		29NOV06*
LNMS_0340	Ready to Begin Component Installation - L02	0	04SEP07	
LNMS_0440	Ready to Begin Component Installation - BC2	0	04SEP07	
LNMS_0540	Ready to Begin Component Installation - L03	0	04SEP07	
LNMS_0740	Ready to Begin Component Installation - E-Dump	0	10OCT07	
LNMS_0560	Component Installation Completed - L03	0		30NOV07
MS3_LN020	Linac ARR (Li20-Li30) Complete	0		03DEC07*
LNMS_0640	Ready to Begin Component Installation - LTU	0	04DEC07	
LNMS_0360	Component Installation Completed - L02	0		10DEC07
MS2_LN020	Linac ARR (Li20-Li30) Complete	0		03JAN08*
MS3_LN011	BC2 Installation Complete	0		30JAN08*
MS3_LN032	Linac Commissioning Review Complete - LTU	0		07MAR08*
MS3_CT075	Linac Controls Ready for Installation	0		18MAR08*
MS3_CT080	LTU Controls Ready for Installation	0		18MAR08*
MS3_LN055	E-Dump Component Installation Complete	0		25APR08*
MS3_LN035	LTU Component Installation Complete	0		07MAY08*
MS3_LN015	Start Linac-to-Undulator (LTU) Commissioning	0	09MAY08*	
MS2_LN015	Start Linac-to-Undulator (LTU) Commissioning	0	09JUN08*	



Start Date	01JUN01
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LCLS
INTEGRATED SCHEDULE

Linac

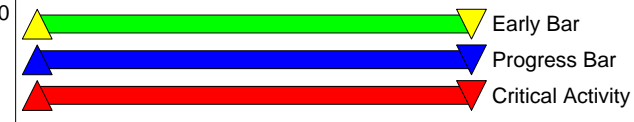


Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
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LN_LOE	Linac LOE Complete	0		30MAR09	Linac LOE Complete					
1.03.01 System Management & Integration										
1.03.01.01 Linac Mechanical Integration										
LN01010612	Generate Removal Document List - FFTB to LT	21	01OCT04	29OCT04	Generate Removal Document List - FFTB to LT					
LN01010116	Define/ Develop L01 System Assembly Model	22	01OCT04	01NOV04	Define/ Develop L01 System Assembly Model					
LN01010216	Define/Develop BC1 System Assembly Model	22	01OCT04	01NOV04	Define/Develop BC1 System Assembly Model					
LN0101_416	Define/Develop BC2 System Assembly Model - FY04a	43	01OCT04	02DEC04	Define/Develop BC2 System Assembly Model - FY04a					
LN0101_316	Define/Develop L02 System Assembly Model - FY05	60	01OCT04	10JAN05	Define/Develop L02 System Assembly Model - FY05					
LN0101_516	Define/Develop L03 System Assembly Model - FY04a	60	01OCT04	10JAN05	Define/Develop L03 System Assembly Model - FY04a					
LN01010100	L01 SYSTEM SUMMARY	1,089	01OCT04	30MAR09	L01 SYSTEM SUMMARY					
LN01010200	BC1 SYSTEM SUMMARY	1,089	01OCT04	30MAR09	BC1 SYSTEM SUMMARY					
LN01010300	L02 SYSTEM SUMMARY	1,089	01OCT04	30MAR09	L02 SYSTEM SUMMARY					
LN01010400	BC2 SYSTEM SUMMARY	1,089	01OCT04	30MAR09	BC2 SYSTEM SUMMARY					
LN01010500	L03 SYSTEM SUMMARY	1,089	01OCT04	30MAR09	L03 SYSTEM SUMMARY					
LN01010600	LTU SYSTEM SUMMARY	1,089	01OCT04	30MAR09	LTU SYSTEM SUMMARY					
LN01010624	Prepare for PDR - LTU	3	04OCT04	06OCT04	Prepare for PDR - LTU					
LN01010724	Prepare for PDR - E-Dump	3	04OCT04	06OCT04	Prepare for PDR - E-Dump					
LN0101_716	Define/Develop E-Dump System Assy Model - FY05	30	04OCT04	12NOV04	Define/Develop E-Dump System Assy Model - FY05					
LN0101_616	Define/Develop LTU System Assembly Model - FY05	50	04OCT04	14DEC04	Define/Develop LTU System Assembly Model - FY05					
LN01010700	E-DUMP SYSTEM SUMMARY	1,088	04OCT04	30MAR09	E-DUMP SYSTEM SUMMARY					
LN01010626	Conduct LTU System PDR	1	07OCT04	07OCT04	Conduct LTU System PDR					
LN01010726	Conduct E-Dump System PDR	1	07OCT04	07OCT04	Conduct E-Dump System PDR					
LN01010628	Generate Detailed Procurement Plan	1	08OCT04	08OCT04	Generate Detailed Procurement Plan					
LN01010728	Generate Detailed Procurement Plan	1	08OCT04	08OCT04	Generate Detailed Procurement Plan					
LN01010730	Create Test Plan	2	11OCT04	12OCT04	Create Test Plan					
LN01010732	Establish Subordinate Work Orders	1	13OCT04	13OCT04	Establish Subordinate Work Orders					
LN01010108	Write System ICD - L01	5	02NOV04	08NOV04	Write System ICD - L01					
LN01010222	Make Linac Vacuum Schematic	5	02NOV04	08NOV04	Make Linac Vacuum Schematic					
LN01010122	Make Linac Vacuum Schematic	10	02NOV04	15NOV04	Make Linac Vacuum Schematic					
LN01010117	AVAIL: System Reqmts for L01 Component Designs	0		08NOV04	AVAIL: System Reqmts for L01 Component Designs					
LN01010118	Write Installation Plan - L01	5	09NOV04	15NOV04	Write Installation Plan - L01					
LN01010208	Write System ICD - BC1	5	09NOV04	15NOV04	Write System ICD - BC1					
LN01010140	L01 System PED Support to Components	217	09NOV04	30SEP05	L01 System PED Support to Components					
LN01010217	AVAIL: System Reqmts for BC1 Component Designs	0		15NOV04	AVAIL: System Reqmts for BC1 Component Designs					
LN01010228	Generate Detailed Procurement Plan	1	16NOV04	16NOV04	Generate Detailed Procurement Plan					
LN01010218	Write Installation Plan - BC1	5	16NOV04	22NOV04	Write Installation Plan - BC1					
LN01010308	Write System ICD - L02	5	16NOV04	22NOV04	Write System ICD - L02					

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**LCLS
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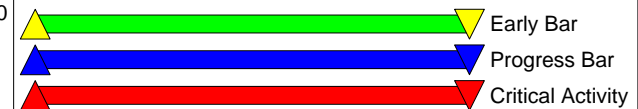
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish							
					2004	2005	2006	2007	2008	2009	
LN01010124	Prepare for PDR - L01	43	16NOV04	01FEB05							
LN01010240	BC1 System PED Support to Components	212	16NOV04	30SEP05							
LN01010230	Create Cold Test Plan	3	17NOV04	19NOV04							
LN01010232	Establish Subordinate Work Orders	1	22NOV04	22NOV04							
LN01010408	Write System ICD - BC2	5	23NOV04	01DEC04							
LN01010417	AVAIL: System Reqmts for BC2 Component Designs	0		02DEC04							
LN01010508	Write System ICD - L03	5	02DEC04	08DEC04							
LN01010418	Write Installation Plan - BC2	5	03DEC04	09DEC04							
LN01010440	BC2 System PED Support to Components	201	03DEC04	30SEP05							
LN01010608	Write System ICD - L03	5	09DEC04	15DEC04							
LN01010422	Make Linac Vacuum Schematic	4	10DEC04	15DEC04							
LN01010617	AVAIL: System Reqmts for LTU Component Designs	0		15DEC04							
LN01010424	Prepare for PDR - BC2	3	16DEC04	03JAN05							
LN01010618	Write Installation Plan - LTU	3	16DEC04	03JAN05							
LN01010708	Write System ICD - E-Dump	5	16DEC04	05JAN05							
LN01010640	LTU System PED Support to Components	192*	16DEC04	30SEP05							
LN01010426	Conduct BC2 System PDR	1	04JAN05	04JAN05							
LN01010428	Generate Detailed Procurement Plan	1	05JAN05	05JAN05							
LN01010717	AVAIL: System Reqmts for E Dmp Component Designs	0		05JAN05							
LN01010430	Create Cold Test Plan	3	06JAN05	10JAN05							
LN01010718	Write Installation Plan - E-Dump	3	06JAN05	10JAN05							
LN01010740	E-Dump System PED Support to Components	187*	06JAN05	30SEP05							
LN01010317	AVAIL: System Reqmts for L02 Component Designs	0		10JAN05							
LN01010517	AVAIL: System Reqmts for L03 Component Designs	0		10JAN05							
LN01010432	Establish Subordinate Work Orders	1	11JAN05	11JAN05							
LN01010318	Write Installation Plan - L02	3	11JAN05	13JAN05							
LN01010518	Write Installation Plan - L03	3	11JAN05	13JAN05							
LN01010340	L02 System PED Support to Components	184	11JAN05	30SEP05							
LN01010540	L03 System PED Support to Components	184	11JAN05	30SEP05							
LN01010322	Make Linac Vacuum Schematic	5	14JAN05	21JAN05							
LN01010522	Make Linac Vacuum Schematic	5	14JAN05	21JAN05							
LN01010324	Prepare for PDR - L02	3	24JAN05	26JAN05							
LN01010524	Prepare for PDR - L03	3	24JAN05	26JAN05							
LN01010326	Conduct L02 System PDR	1	27JAN05	27JAN05							
LN01010526	Conduct L03 System PDR	1	27JAN05	27JAN05							
LN01010328	Generate Detailed Procurement Plan	1	28JAN05	28JAN05							
LN01010528	Generate Detailed Procurement Plan	1	28JAN05	28JAN05							

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LCLS INTEGRATED SCHEDULE

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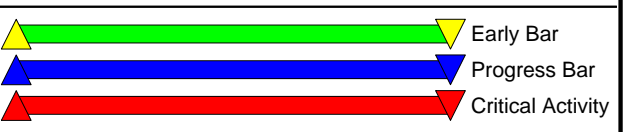


Activity ID	Activity Description	Orig Dur	Early Start	Early Finish							
					2004	2005	2006	2007	2008	2009	
LN01010530	Create Cold Test Plan	2	31JAN05	01FEB05		⚠ Create Cold Test Plan					
LN01010630	Create Test Plan	2	31JAN05	01FEB05		⚠ Create Test Plan					
LN01010330	Create Cold Test Plan	3	31JAN05	02FEB05		⚠ Create Cold Test Plan					
LN01010532	Establish Subordinate Work Orders	1	02FEB05	02FEB05		⚠ Establish Subordinate Work Orders					
LN01010632	Establish Subordinate Work Orders	1	02FEB05	02FEB05		⚠ Establish Subordinate Work Orders					
LN01010126	Conduct L01 System PDR	10	02FEB05	15FEB05		⚠ Conduct L01 System PDR					
LN01010332	Establish Subordinate Work Orders	1	03FEB05	03FEB05		⚠ Establish Subordinate Work Orders					
LN01010128	Generate Detailed Procurement Plan	1	15FEB05	15FEB05		⚠ Generate Detailed Procurement Plan					
LN01010130	Create RF Cold Test Plan	3	16FEB05	18FEB05		⚠ Create RF Cold Test Plan					
LN01010132	Establish Subordinate Work Orders	1	22FEB05	22FEB05		⚠ Establish Subordinate Work Orders					
LN01010134	Prepare for FDR - L01	3	20JUL05	22JUL05		⚠ Prepare for FDR - L01					
LN01010234	Prepare for FDR - BC1	3	20JUL05	22JUL05		⚠ Prepare for FDR - BC1					
LN01010334	Prepare for FDR - L02	3	20JUL05	22JUL05		⚠ Prepare for FDR - L02					
LN01010434	Prepare for FDR - BC2	3	20JUL05	22JUL05		⚠ Prepare for FDR - BC2					
LN01010534	Prepare for FDR - L03	3	20JUL05	22JUL05		⚠ Prepare for FDR - L03					
LN01010634	Prepare for FDR - LTU	3	20JUL05	22JUL05		⚠ Prepare for FDR - LTU					
LN01010734	Prepare for FDR - E-Dump	3	20JUL05	22JUL05		⚠ Prepare for FDR - E-Dump					
LN01010336	Conduct L02 System FDR	1	25JUL05	25JUL05		⚠ Conduct L02 System FDR					
LN01010338	COMP: L02 System Design	0		25JUL05		◆ COMP: L02 System Design					
LN01010436	Conduct BC2 System FDR	1	25JUL05	25JUL05		⚠ Conduct BC2 System FDR					
LN01010438	COMP: BC2 System Design	0		25JUL05		◆ COMP: BC2 System Design					
LN01010536	Conduct L03 System FDR	1	25JUL05	25JUL05		⚠ Conduct L03 System FDR					
LN01010538	COMP: L03 System Design	0		25JUL05		◆ COMP: L03 System Design					
LN01010636	Conduct LTU System FDR	1	25JUL05	25JUL05		⚠ Conduct LTU System FDR					
LN01010638	COMP: LTU System Design	0		25JUL05		◆ COMP: LTU System Design					
LN01010736	Conduct E-Dump System FDR	1	25JUL05	25JUL05		⚠ Conduct E-Dump System FDR					
LN01010738	COMP: E-Dump System Design	0		25JUL05		◆ COMP: E-Dump System Design					
LN01010136	Conduct L01 System FDR	2	25JUL05	26JUL05		⚠ Conduct L01 System FDR					
LN01010236	Conduct BC1 System FDR	2	25JUL05	26JUL05		⚠ Conduct BC1 System FDR					
LN01010138	COMP: L01 System Design	0		26JUL05		◆ COMP: L01 System Design					
LN01010238	COMP: BC1 System Design	0		26JUL05		◆ COMP: BC1 System Design					
LN01010139	Document System Assembly Model - L01	20	27JUL05	23AUG05		⚠ Document System Assembly Model - L01					
LN01010239	Document System Assembly Model - BC1	20	24AUG05	21SEP05		⚠ Document System Assembly Model - BC1					
LN01010339	Document System Assembly Model - L02	20	22SEP05	19OCT05		⚠ Document System Assembly Model - L02					
LN01010142	L01 System CONST Support to Components	845	03OCT05	30MAR09		⚠ L01 System CONST Support to Components					
LN01010242	BC1 System CONST Support to Components	845	03OCT05	30MAR09		⚠ BC1 System CONST Support to Components					
LN01010342	L02 System CONST Support to Components	845	03OCT05	30MAR09		⚠ L02 System CONST Support to Components					

Start Date 01JUN01
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**LCLS
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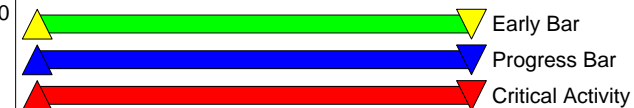


Activity ID	Activity Description	Orig Dur	Early Start	Early Finish									
					2004	2005	2006	2007	2008	2009			
LN01010442	BC2 System CONST Support to Components	845	03OCT05	30MAR09									BC2 System
LN01010542	L03 System CONST Support to Components	845	03OCT05	30MAR09									L03 System
LN01010642	LTU System CONST Support to Components	845	03OCT05	30MAR09									LTU System
LN01010742	E-Dump System CONST Support to Components	845	03OCT05	30MAR09									E-Dump System
LN01010439	Document System Assembly Model - BC2	20	20OCT05	16NOV05									Document System Assembly Model - BC2
LN01010539	Document System Assembly Model - L03	20	17NOV05	16DEC05									Document System Assembly Model - L03
1.03.01.03 Travel													
LN0103A01	Travel - PED	21	01APR05*	29APR05									Travel - PED
LN0103A04	Travel - PED	41	02MAY05	28JUN05									Travel - PED
LN0103A02	Travel - PED	41	29JUN05	25AUG05									Travel - PED
LN0103A03	Travel - PED	41	29JUN05	25AUG05									Travel - PED
LN0103A05	Travel - PED	41	29JUN05	25AUG05									Travel - PED
LN0103A06	Travel - PED	41	29JUN05	25AUG05									Travel - PED
LN0103A07	Travel - PED	41	29JUN05	25AUG05									Travel - PED
LN0103A08	Travel - PED	41	29JUN05	25AUG05									Travel - PED
LN0103A09	Travel - PED	41	29JUN05	25AUG05									Travel - PED
LN0103B01	Travel - CONST	41	03OCT05	30NOV05									Travel - CONST
LN0103B02	Travel - CONST	41	01DEC05	13FEB06									Travel - CONST
LN0103B03	Travel - CONST	41	14FEB06	12APR06									Travel - CONST
LN0103B04	Travel - CONST	41	13APR06	09JUN06									Travel - CONST
LN0103B05	Travel - CONST	41	12JUN06	08AUG06									Travel - CONST
LN0103B06	Travel - CONST	41	02OCT06	29NOV06									Travel - CONST
LN0103B07	Travel - CONST	41	03OCT06	30NOV06									Travel - CONST
LN0103B08	Travel - CONST	41	01DEC06	13FEB07									Travel - CONST
LN0103B09	Travel - CONST	41	14FEB07	12APR07									Travel - CONST
LN0103B10	Travel - CONST	41	13APR07	11JUN07									Travel - CONST
LN0103B11	Travel - CONST	41	12JUN07	08AUG07									Travel - CONST
LN0103B12	Travel - CONST	41	09AUG07	05OCT07									Travel - CONST
LN0103B13	Travel - CONST	41	08OCT07	05DEC07									Travel - CONST
LN0103B14	Travel - CONST	41	06DEC07	20FEB08									Travel - CONST
LN0103B15	Travel - CONST	41	21FEB08	17APR08									Travel - CONST
LN0103B16	Travel - CONST	41	18APR08	16JUN08									Travel - CONST
LN0103B17	Travel - CONST	41	17JUN08	13AUG08									Travel - CONST
LN0103B18	Travel - CONST	41	14AUG08	10OCT08									Travel - CONST
1.03.01.04 Linac Management													
LN01040035	LINAC COMPONENT DATA BASE SUMMARY	102	01OCT04	11MAR05									LINAC COMPONENT DATA BASE SUMMARY
LN01040040	Create Component Specification Reports	102	01OCT04	11MAR05									Create Component Specification Reports

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**LCLS
INTEGRATED SCHEDULE**

Linac



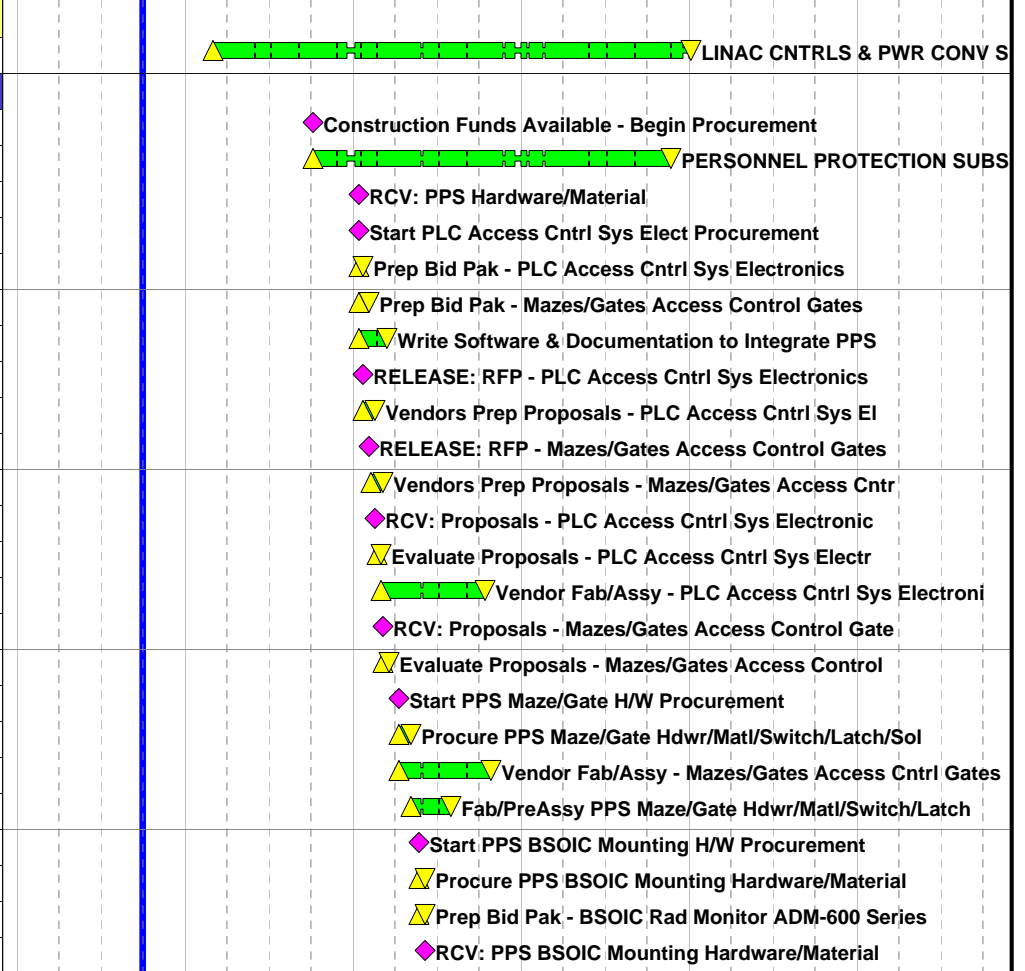
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					2004	2005	2006	2007	2008	2009
LN010400	Linac System Management Effort - PED	244*	01OCT04	30SEP05	Linac System Management Effort - PED					
LN01040070	LINAC ADMINISTRATIVE SUMMARY	486	01OCT04	29SEP06	LINAC ADMINISTRATIVE SUMMARY					
LN01040085	Linac Procurement Management	485	04OCT04	29SEP06	Linac Procurement Management					
LN01040090	Linac Testing & Post-Process Management	485	04OCT04	29SEP06	Linac Testing & Post-Process Management					
LN01040095	Linac Stage & Storage Management	485	04OCT04	29SEP06	Linac Stage & Storage Management					
LN01040105	Receive and Review Linac Optics Requirements	1	26MAY05	26MAY05	Receive and Review Linac Optics Requirements					
LN01040100	LINAC PHYSICS REQUIREMENTS SUMMARY	75	26MAY05	12SEP05	LINAC PHYSICS REQUIREMENTS SUMMARY					
LN01040110	Verify Diagnostic Requirements	5	27MAY05	03JUN05	Verify Diagnostic Requirements					
LN01040115	Back Check Component Spec vs Optics Requirements	5	06JUN05	10JUN05	Back Check Component Spec vs Optics Requirements					
LN010402	Linac System Management Effort - CONST	845	03OCT05	30MAR09	Linac System Management Effort - CONST					

1.03.02 Linac Controls & Power Conversion Subsystem

LN02	LINAC CNTRLs & PWR CONV SUBSYSTEM	690	01MAR05	03JAN08	LINAC CNTRLs & PWR CONV SUBSYSTEM					
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1.03.02.01 Personnel Protection System (PPS)

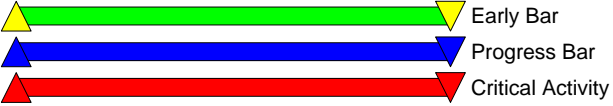
LN02010040	Construction Funds Available - Begin Procurement	0	03OCT05		Construction Funds Available - Begin Procurement					
LN0201	PERSONNEL PROTECTION SUBSYSTEM SUMMARY	522	03OCT05	21NOV07	PERSONNEL PROTECTION SUBSYSTEM SUMMARY					
LN02010240	RCV: PPS Hardware/Material	0		12JAN06	RCV: PPS Hardware/Material					
LN02010241	Start PLC Access Cntrl Sys Elect Procurement	0	13JAN06		Start PLC Access Cntrl Sys Elect Procurement					
LN02010245	Prep Bid Pak - PLC Access Cntrl Sys Electronics	5	13JAN06	20JAN06	Prep Bid Pak - PLC Access Cntrl Sys Electronics					
LN02010355	Prep Bid Pak - Mazes/Gates Access Control Gates	15	13JAN06	03FEB06	Prep Bid Pak - Mazes/Gates Access Control Gates					
LN02010388	Write Software & Documentation to Integrate PPS	40	13JAN06	13MAR06	Write Software & Documentation to Integrate PPS					
LN02010250	RELEASE: RFP - PLC Access Cntrl Sys Electronics	0		20JAN06	RELEASE: RFP - PLC Access Cntrl Sys Electronics					
LN02010255	Vendors Prep Proposals - PLC Access Cntrl Sys EI	20	23JAN06	17FEB06	Vendors Prep Proposals - PLC Access Cntrl Sys EI					
LN02010360	RELEASE: RFP - Mazes/Gates Access Control Gates	0		03FEB06	RELEASE: RFP - Mazes/Gates Access Control Gates					
LN02010365	Vendors Prep Proposals - Mazes/Gates Access Cntrl	20	06FEB06	06MAR06	Vendors Prep Proposals - Mazes/Gates Access Cntrl					
LN02010260	RCV: Proposals - PLC Access Cntrl Sys Electronic	0		17FEB06	RCV: Proposals - PLC Access Cntrl Sys Electronic					
LN02010265	Evaluate Proposals - PLC Access Cntrl Sys Electr	5	21FEB06	27FEB06	Evaluate Proposals - PLC Access Cntrl Sys Electr					
LN02010272	Vendor Fab/Assy - PLC Access Cntrl Sys Electroni	160	01MAR06	13OCT06	Vendor Fab/Assy - PLC Access Cntrl Sys Electroni					
LN02010370	RCV: Proposals - Mazes/Gates Access Control Gate	0		06MAR06	RCV: Proposals - Mazes/Gates Access Control Gate					
LN02010375	Evaluate Proposals - Mazes/Gates Access Control	10	07MAR06	20MAR06	Evaluate Proposals - Mazes/Gates Access Control					
LN02010230	Start PPS Maze/Gate H/W Procurement	0	10APR06		Start PPS Maze/Gate H/W Procurement					
LN02010335	Procure PPS Maze/Gate Hdwr/Mat/Switch/Latch/Sol	20	10APR06	05MAY06	Procure PPS Maze/Gate Hdwr/Mat/Switch/Latch/Sol					
LN02010382	Vendor Fab/Assy - Mazes/Gates Access Cntrl Gates	140	11APR06	26OCT06	Vendor Fab/Assy - Mazes/Gates Access Cntrl Gates					
LN02010340	Fab/PreAssy PPS Maze/Gate Hdwr/Mat/Switch/Latch	60	08MAY06	01AUG06	Fab/PreAssy PPS Maze/Gate Hdwr/Mat/Switch/Latch					
LN02010041	Start PPS BSOIC Mounting H/W Procurement	0	23MAY06*		Start PPS BSOIC Mounting H/W Procurement					
LN02010045	Procure PPS BSOIC Mounting Hardware/Material	10	23MAY06	06JUN06	Procure PPS BSOIC Mounting Hardware/Material					
LN02010055	Prep Bid Pak - BSOIC Rad Monitor ADM-600 Series	10	23MAY06*	06JUN06	Prep Bid Pak - BSOIC Rad Monitor ADM-600 Series					
LN02010050	RCV: PPS BSOIC Mounting Hardware/Material	0		06JUN06	RCV: PPS BSOIC Mounting Hardware/Material					



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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish							
					2004	2005	2006	2007	2008	2009	
LN02010060	RELEASE: RFP - BSOIC Rad Monitor ADM-600 Series	0		06JUN06				◆	RELEASE: RFP - BSOIC Rad Monitor ADM-600 Series		
LN02010065	Vendors Prep Proposals - BSOIC Rad Monitor ADM-6	15	07JUN06	27JUN06				▲	Vendors Prep Proposals - BSOIC Rad Monitor ADM-6		
LN02010070	RCV: Proposals - BSOIC Rad Monitor ADM-600 Serie	0		27JUN06				◆	RCV: Proposals - BSOIC Rad Monitor ADM-600 Serie		
LN02010075	Evaluate Proposals - BSOIC Rad Monitor ADM-600 S	10	28JUN06	12JUL06				▲	Evaluate Proposals - BSOIC Rad Monitor ADM-600 S		
LN02010085	Vendor Fab/Assy - BSOIC Rad Monitor ADM-600 Seri	180	02OCT06*	02JUL07				▲	Vendor Fab/Assy - BSOIC Rad Monitor A		
LN02010090	Fab/Assy - BSOIC Mounting Hardware (15)	240	02OCT06*	26SEP07				▲	Fab/Assy - BSOIC Mounting Hardware (15)		
LN02010345	Procure Cable PPS Maze/Gate Cableplant	60	03OCT06	11JAN07				▲	Procure Cable PPS Maze/Gate Cableplant		
LN02010274	RCV: from Vendor - PPS PLC Access Cntrl Sys Elec	0		13OCT06				◆	RCV: from Vendor - PPS PLC Access Cntrl Sys Elec		
LN02010281	Fab, Pre Assemble and Qual Test PPS Component	40	16OCT06	12DEC06				▲	Fab, Pre Assemble and Qual Test PPS Component		
LN02010384	RCV: PPS Mazes/Gates Access Control Set 3 from V	0		26OCT06				◆	RCV: PPS Mazes/Gates Access Control Set 3 from V		
LN02010282	AVAIL: Linac PPS Equipment Ready for Integ	0		12DEC06				◆	AVAIL: Linac PPS Equipment Ready for Integ		
LN02010350	RCV: PPS Maze/Gate Hdwr/Matl/Switches/Latches/So	0		11JAN07				◆	RCV: PPS Maze/Gate Hdwr/Matl/Switches/Latches/S		
LN02010386	AVAIL: PPS Mazes/Gates Access Control Gates	0		11JAN07				◆	AVAIL: PPS Mazes/Gates Access Control Gates		
LN02010394	Integrate and Test PPS	10	12JAN07	26JAN07				▲	Integrate and Test PPS		
LN02010398	AVAIL: PPS Controls ready to Integrate	0		26JAN07				◆	AVAIL: PPS Controls ready to Integrate		
LN02010095	RCV: PPS BSOIC Rad Monitor ADM-600 Series (20) f	0		02JUL07				◆	RCV: PPS BSOIC Rad Monitor ADM-600 Series (20)		
LN02010100	Fab and Pre Assemble Components (as required)	20	27SEP07	24OCT07				▲	Fab and Pre Assemble Components (as required)		
LN02010105	COMP: Linac PPS Component Fab & Assembly	0		24OCT07				◆	COMP: Linac PPS Component Fab & Assembly		
LN02010110	Perform PPS BSOIC Pre-Installation Qual Test	20	25OCT07	21NOV07				▲	Perform PPS BSOIC Pre-Installation Qual Tes		
LN02010115	AVAIL: Linac PPS BSOIC Equipment Ready for Instl	0		21NOV07				◆	AVAIL: Linac PPS BSOIC Equipment Ready for Ins		
1.03.02.02 Beam Containment System (BCS)											
LN02020025	Construction Funds Available - Begin Procurement	0	03OCT05					◆	Construction Funds Available - Begin Procurement		
LN02020029	Start BCS LTU & Halls Procurement	0	03OCT05					◆	Start BCS LTU & Halls Procurement		
LN02020110	Write S/W and Documentation to Integrate BCS	30	03OCT05	11NOV05				▲	Write S/W and Documentation to Integrate BCS		
LN0202	BEAM CONTAINMENT SUBSYSTEM SUMMARY	284	03OCT05	30NOV06				▲	BEAM CONTAINMENT SUBSYSTEM SUMMARY		
LN02020125	Integrate and Test BCS	10	14NOV05	29NOV05				▲	Integrate and Test BCS		
LN02020135	AVAIL: Linac BCS Controls Ready to Integrate	0		29NOV05				◆	AVAIL: Linac BCS Controls Ready to Integrate		
LN02020060	Prep Bid Pak - BCS PLIC/LION Cableplant	5	03OCT06	09OCT06				▲	Prep Bid Pak - BCS PLIC/LION Cableplant		
LN02020030	Procure BCS PLIC/LION System HV Power Supply Cha	15	03OCT06	23OCT06				▲	Procure BCS PLIC/LION System HV Power Supply Cha		
LN02020035	Procure Gas System - BCS PLIC/LION Regulators/Fi	15	03OCT06	23OCT06				▲	Procure Gas System - BCS PLIC/LION Regulators/Fi		
LN02020040	Procure BCS PLIC/LION Gas Bottle(s) & Bottle(s)	21	03OCT06	31OCT06				▲	Procure BCS PLIC/LION Gas Bottle(s) & Bottle(s)		
LN02020045	Procure BCS PLIC/LION Cableplant Heliac, Andre	21	03OCT06	31OCT06				▲	Procure BCS PLIC/LION Cableplant Heliac, Andre		
LN02020065	RELEASE: RFP - BCS PLIC/LION Cableplant	0		09OCT06				◆	RELEASE: RFP - BCS PLIC/LION Cableplant		
LN02020070	Vendors Prep Proposals - BCS PLIC/LION Cableplan	5	10OCT06	16OCT06				▲	Vendors Prep Proposals - BCS PLIC/LION Cableplan		
LN02020075	RCV: Proposals - BCS PLIC/LION Cableplant	0		16OCT06				◆	RCV: Proposals - BCS PLIC/LION Cableplant		
LN02020080	Evaluate Proposals - BCS PLIC/LION Cableplant	5	17OCT06	23OCT06				▲	Evaluate Proposals - BCS PLIC/LION Cableplant		
LN02020090	AVAIL: HV Power Supply ready to integrate	0		24OCT06				◆	AVAIL: HV Power Supply ready to integrate		

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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish							
					2004	2005	2006	2007	2008	2009	
LN02020050	RCV: from Vendor - BCS PLIC/LION HV Supply	0		31OCT06							◆RCV: from Vendor - BCS PLIC/LION HV Supply
LN02020055	RCV: from Vendor - BCS PLIC/LION Cableplant	0		31OCT06							◆RCV: from Vendor - BCS PLIC/LION Cableplant
LN02020095	COMP: BCS LTU & Halls Component Fab & Assembly	0		31OCT06							◆COMP: BCS LTU & Halls Component Fab & Assembly
LN02020100	Perform Pre-Installation Qual Test on BCS LTU	20	01NOV06	30NOV06							▲Perform Pre-Installation Qual Test on BCS LTU
LN02020105	AVAIL: Linac BCS Cableplant ready for Instl	0		30NOV06							◆AVAIL: Linac BCS Cableplant ready for Instl
1.03.02.03 Machine Protection System (MPS)											
LN02030040	Construction Funds Available - Begin Procurement	0		30SEP05							◆Construction Funds Available - Begin Procurement
LN02030049	Start MPS Procurement & Fabrication	0	03OCT05								◆Start MPS Procurement & Fabrication
LN02030050	Acquire MPS Hardware	1	03OCT05	03OCT05							▲Acquire MPS Hardware
LN02030051	Prep Bid Pak - PIC Modules	15	03OCT05	21OCT05							▲Prep Bid Pak - PIC Modules
LN02030225	Prep Bid Pak - BSOIC	15	03OCT05	21OCT05							▲Prep Bid Pak - BSOIC
LN02030095	Procure TC Reference Plane material (as required)	20	03OCT05	28OCT05							▲Procure TC Reference Plane material (as required)
LN02030105	Procure Cable TC Reference Plane material	20	03OCT05	28OCT05							▲Procure Cable TC Reference Plane material
LN0203	MACHINE PROTECTION SUBSYSTEM SUMMARY	206	03OCT05	09AUG06							▲MACHINE PROTECTION SUBSYSTEM SUMMARY
LN02030230	RELEASE: RFP - BSOIC	0		21OCT05							◆RELEASE: RFP - BSOIC
LN02030055	Prep Assy Pak - TC Reference Planes Modules	15	24OCT05	11NOV05							▲Prep Assy Pak - TC Reference Planes Modules
LN02030235	Vendors Prep Proposals - BSOIC	20	24OCT05	18NOV05							▲Vendors Prep Proposals - BSOIC
LN02030100	Fab and Pre Assemble TC Ref. Planes (as required)	20	31OCT05	29NOV05							▲Fab and Pre Assemble TC Ref. Planes (as required)
LN02030110	Fab Cable, Coax, PIC Module to PIC Detector (6)	20	31OCT05	29NOV05							▲Fab Cable, Coax, PIC Module to PIC Detector (6)
LN02030115	Fab Cable, Coax, HV P.S. to PIC Detector (6)	20	31OCT05	29NOV05							▲Fab Cable, Coax, HV P.S. to PIC Detector (6)
LN02030120	Fab Cable,1553, PIC Module Chain to VME A.P. Cra	20	31OCT05	29NOV05							▲Fab Cable,1553, PIC Module Chain to VME A.P. Cra
LN02030125	Fab Cable,8/C, HV P.S. to X-connects (P.S. Statu	20	31OCT05	29NOV05							▲Fab Cable,8/C, HV P.S. to X-connects (P.S. Statu
LN02030130	Fab Cable,4/C, HV P.S. to X-connects (HV Enable)	20	31OCT05	29NOV05							▲Fab Cable,4/C, HV P.S. to X-connects (HV Enable)
LN02030060	RELEASE: RFP - PIC's	0	14NOV05	11NOV05							▲RELEASE: RFP - PIC's
LN02030065	Vendors Prep Proposals - PIC's	20	14NOV05	13DEC05							▲Vendors Prep Proposals - PIC's
LN02030240	RCV: Proposals - BSOIC	0		18NOV05							◆RCV: Proposals - BSOIC
LN02030245	Evaluate Proposals - BSOIC	10	21NOV05	06DEC05							▲Evaluate Proposals - BSOIC
LN02030135	Fab and Pre Assemble PIC Components (as reqd)	20	30NOV05	11JAN06							▲Fab and Pre Assemble PIC Components (as reqd)
LN02030255	Vendor Fab/Assy - BSOIC	100	08DEC05	15MAY06							▲Vendor Fab/Assy - BSOIC
LN02030070	RCV: Proposals - PIC Modules	0	14DEC05	13DEC05							▲RCV: Proposals - PIC Modules
LN02030075	Evaluate Proposals - PIC Modules	10	14DEC05	11JAN06							▲Evaluate Proposals - PIC Modules
LN02030140	COMP: Linac MPS Component Fab & Assembly	0		11JAN06							◆COMP: Linac MPS Component Fab & Assembly
LN02030085	Vendor Fab/Assy - PIC Modules	120	13JAN06	05JUL06							▲Vendor Fab/Assy - PIC Modules
LN02030260	RCV: from Vendor - MPS BSOIC	0		15MAY06							◆RCV: from Vendor - MPS BSOIC
LN02030285	COMP: Linac MPS Component Fab & Assembly	0		15MAY06							◆COMP: Linac MPS Component Fab & Assembly
LN02030295	AVAIL: Linac MPS Equipment ready for Install	0		15MAY06							◆AVAIL: Linac MPS Equipment ready for Install
LN02030280	Fab and Pre Assemble Components (as required)	0	16MAY06	15MAY06							▲Fab and Pre Assemble Components (as required)




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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
LN02030290	Perform Pre-Installation Qual Test on Linac MPS	0	16MAY06	15MAY06			⚠ Perform Pre-Installation Qual Test on Linac MPS			
LN02030300	Write Software and Doc. to Integrate MPS	40	16MAY06	12JUL06			⚠ Write Software and Doc. to Integrate MPS			
LN02030090	RCV: from Vendor - MPS PIC Modules	0	06JUL06	05JUL06			⚠ RCV: from Vendor - MPS PIC Modules			
LN02030145	Perform Pre-Installation Qual Test on Linac MPS	20	06JUL06	02AUG06			⚠ Perform Pre-Installation Qual Test on Linac MPS			
LN02030315	Integrate and Test MPS Hardware and Software	20	13JUL06	09AUG06			⚠ Integrate and Test MPS Hardware and Software			
LN02030150	AVAIL: Linac MPS Equipment ready for Install	0		02AUG06			◆ AVAIL: Linac MPS Equipment ready for Install			
LN02030320	AVAIL: Linac MPS Controls Ready to Integrate	0		09AUG06			◆ AVAIL: Linac MPS Controls Ready to Integrate			
1.03.02.04 Linac Power Conversion Subsystem										
LN0204_202	Engineering (Layouts/Raceways/Supports)	20	02MAY05*	27MAY05			⚠ Engineering (Layouts/Raceways/Supports)			
LN0204_200	CONTROLS & POWER SUPPLY MISC HDWR	646	02MAY05	03JAN08			⚠ CONTROLS & POWER SUPPLY			
LN0204_204	Cableplant/Rack System Drafting (Bid Doc's)	20	16MAY05	13JUN05			⚠ Cableplant/Rack System Drafting (Bid Doc's)			
LN0204_206	Captar Liason, Documents & Data Entry (Bid Doc's)	10	14JUN05	27JUN05			⚠ Captar Liason, Documents & Data Entry (Bid Doc's)			
LN0204_208	Conduct SLAC Citizen Committee Reviews	10	28JUN05	12JUL05			⚠ Conduct SLAC Citizen Committee Reviews			
LN0204_010	Finalize Power Conv Reqmts Definition (Dipole)	5	11JUL05*	15JUL05			⚠ Finalize Power Conv Reqmts Definition (Dipole)			
LN0204_060	Finalize Power Conv Reqmts Definition (Quad)	5	11JUL05*	15JUL05			⚠ Finalize Power Conv Reqmts Definition (Quad)			
LN0204_110	Finalize Power Conv Reqmts Definition (Trim)	5	11JUL05*	15JUL05			⚠ Finalize Power Conv Reqmts Definition (Trim)			
LN0204_050	LINAC POWER SUPPLIES (QUAD) SUMMARY	403	11JUL05	13MAR07			⚠ LINAC POWER SUPPLIES (QUAD) SUMMARY			
LN0204_100	LINAC POWER SUPPLIES (TRIM) SUMMARY	410	11JUL05	22MAR07			⚠ LINAC POWER SUPPLIES (TRIM) SUMMARY			
LN0204_000	LINAC POWER SUPPLIES (DIPOLE) SUMMARY	538	11JUL05	21SEP07			⚠ LINAC POWER SUPPLIES (DIPOLE) SUMMARY			
LN0204_209	Conduct Design Review - Linac and Hall Racks/Tra	1	13JUL05	13JUL05			⚠ Conduct Design Review - Linac and Hall Racks/Tra			
LN0204_015	COMP: Pwr Conv Specification Requirements	0		15JUL05			◆ COMP: Pwr Conv Specification Requirements			
LN0204_065	COMP: Pwr Conv Specification Reqmts (Quad)	0		15JUL05			◆ COMP: Pwr Conv Specification Reqmts (Quad)			
LN0204_115	COMP: Pwr Conv Specification Requirements	0		15JUL05			◆ COMP: Pwr Conv Specification Requirements			
LN0204_075	Conduct ES&H Review - (Quad Type)	2	18JUL05	19JUL05			⚠ Conduct ES&H Review - (Quad Type)			
LN0204_020	Dev Engr (43 instaces - 18 types) PED	107	18JUL05*	16DEC05			⚠ Dev Engr (43 instaces - 18 types) PED			
LN0204_080	COMP: Power Supply Design - (Quad Type)	0		19JUL05			◆ COMP: Power Supply Design - (Quad Type)			
LN0204_220	PROCUREMENT START - Misc Hardware	0	03OCT05				◆ PROCUREMENT START - Misc Hardware			
LN0204_266	Prep Bid Pak - Single Bay Racks (DC/I&C)	15	03OCT05	21OCT05			⚠ Prep Bid Pak - Single Bay Racks (DC/I&C)			
LN0204_318	Prep Bid Pak - Double Bay Racks	15	03OCT05	21OCT05			⚠ Prep Bid Pak - Double Bay Racks			
LN0204_382	Prep Bid Pak - Cable Tray Material- Tray and Div	15	03OCT05	21OCT05			⚠ Prep Bid Pak - Cable Tray Material- Tray and Div			
LN0204_410	Prep Bid Pak - Linac Cableplant Installation-all	15	03OCT05	21OCT05			⚠ Prep Bid Pak - Linac Cableplant Installation-all			
LN0204_210	Write Software to Integrate	60	03OCT05	11JAN06			⚠ Write Software to Integrate			
LN0204_222	Procure AC Breakers (108)	60	03OCT05	11JAN06			⚠ Procure AC Breakers (108)			
LN0204_224	Procure PS Hubble Plug (80)	60	03OCT05	11JAN06			⚠ Procure PS Hubble Plug (80)			
LN0204_228	Procure 3 Phase Dist Bus (27)	60	03OCT05	11JAN06			⚠ Procure 3 Phase Dist Bus (27)			
LN0204_232	Procure Circuit Breaker Panels (27)	60	03OCT05	11JAN06			⚠ Procure Circuit Breaker Panels (27)			
LN0204_236	Procure Neutral/Ground Pnl. (27)	60	03OCT05	11JAN06			⚠ Procure Neutral/Ground Pnl. (27)			

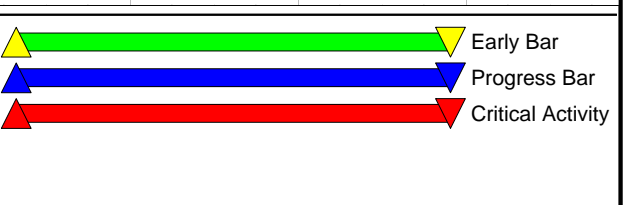
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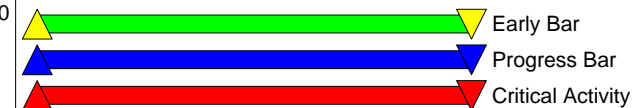
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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Gantt Chart					
					2004	2005	2006	2007	2008	2009
LN0204_240	Procure Blank Panels (27)	60	03OCT05	11JAN06						
LN0204_244	Procure AC Wire	60	03OCT05	11JAN06						
LN0204_248	Procure Breaker Lock-outs	60	03OCT05	11JAN06						
LN0204_252	Procure Rack Cooling Fans	60	03OCT05	11JAN06						
LN0204_256	Procure Rack Hardware (Single Rack)	60	03OCT05	11JAN06						
LN0204_260	Procure Rack Hardware (Double Rack)	60	03OCT05	11JAN06						
LN020401	30kw POWER SUPPLY (B11-14) SUMMARY	100	03OCT05	10MAR06						
LN02040104	Procure 30kw Pwr Supply (B11-14) - Hardware	100	03OCT05	10MAR06						
LN020405	10kw POWER SUPPLY (QM21) SUMMARY	100	03OCT05	10MAR06						
LN02040504	Procure 10kw Pwr Supply (QM21)	100	03OCT05	10MAR06						
LN020409	10kw POWER SUPPLY (QM22) SUMMARY	100	03OCT05	10MAR06						
LN02040904	Procure 10kw Pwr Supply (QM22)	100	03OCT05	10MAR06						
LN02043704	Procure 12Amp Pwr Supply-(MCOR_1)(7-12Amp module	100	03OCT05	10MAR06						
LN02043804	Procure 30Amp Pwr Supply-(MCOR_2)(7-30Amp module	100	03OCT05	10MAR06						
LN02044004	Procure 30Amp Pwr Supply-(MCOR_4)(7-30Amp module	100	03OCT05	10MAR06						
LN020437	MCOR_1 (12Amp) SUMMARY	102	03OCT05	14MAR06						
LN020438	MCOR_2 (30Amp) SUMMARY	102	03OCT05	14MAR06						
LN020440	MCOR_4 (30Amp) SUMMARY	102	03OCT05	14MAR06						
LN0204_384	RELEASE: RFP - Cable Tray Material- Tray and Div	3	24OCT05	26OCT05						
LN0204_268	RELEASE: RFP - Single Bay Racks (DC/I&C)	14	24OCT05	10NOV05						
LN0204_320	RELEASE: RFP - Double Bay Racks	14	24OCT05	10NOV05						
LN0204_412	RELEASE: RFP - Linac Cableplant Installation-all	14	24OCT05	10NOV05						
LN0204_386	Vendors Prep Proposals - Cable Tray Mtrl- Tray	10	27OCT05	09NOV05						
LN0204_388	RCV: Proposals - Cable Tray Material- Tray and D	0		09NOV05						
MSC_LN000	CRIT: Rel RFP Linac Cableplant Installation Proc	0		10NOV05						
LN0204_390	Evaluate Proposals - Cable Tray Material- Tray a	2	10NOV05	11NOV05						
LN0204_270	Vendors Prep Proposals - Single Bay Racks	20	11NOV05	12DEC05						
LN0204_322	Vendors Prep Proposals - Double Bay Racks	20	11NOV05	12DEC05						
LN0204_414	Vendors Prep Proposals - Cableplant Instl - all	30	11NOV05	10JAN06						
LN0204_272	RCV: Proposals - Single Bay Racks (DC/I&C)	0		12DEC05						
LN0204_324	RCV: Proposals - Double Bay Racks	0		12DEC05						
LN0204_274	Evaluate Proposals - Single Bay Racks (DC/I&C)	15	13DEC05	18JAN06						
LN0204_326	Evaluate Proposals - Double Bay Racks	15	13DEC05	18JAN06						
LN0204_021	Dev Engr (43 instaces - 18 types) CONST	350	03JAN06	05JUN07						
LN0204_025	Create System Drawings	385	03JAN06	25JUL07						
LN0204_416	RCV: Proposals - Linac Cableplant Installation	0		10JAN06						
LN0204_223	RCV: AC Breakers (108)	0		11JAN06						

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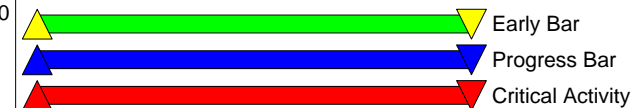


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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
LN0204_226	RCV: PS Hubble Plug (80)	0		11JAN06			◆ RCV: PS Hubble Plug (80)			
LN0204_230	RCV: 3 Phase Dist Bus (27)	0		11JAN06			◆ RCV: 3 Phase Dist Bus (27)			
LN0204_234	RCV: Circuit Breaker Panels (27)	0		11JAN06			◆ RCV: Circuit Breaker Panels (27)			
LN0204_238	RCV: Neutral/Ground Pnl. (27)	0		11JAN06			◆ RCV: Neutral/Ground Pnl. (27)			
LN0204_242	RCV: Blank Panels (27)	0		11JAN06			◆ RCV: Blank Panels (27)			
LN0204_246	RCV: AC Wire	0		11JAN06			◆ RCV: AC Wire			
LN0204_250	RCV: Breaker Lock-outs	0		11JAN06			◆ RCV: Breaker Lock-outs			
LN0204_254	RCV: Rack Cooling Fans	0		11JAN06			◆ RCV: Rack Cooling Fans			
LN0204_258	RCV: Rack Hardware (Single Rack)	0		11JAN06			◆ RCV: Rack Hardware (Single Rack)			
LN0204_262	RCV: Rack Hardware (Double Rack)	0		11JAN06			◆ RCV: Rack Hardware (Double Rack)			
LN0204_418	Evaluate Proposals - Linac Cableplant Instl Cntr	10	11JAN06	25JAN06			▲ Evaluate Proposals - Linac Cableplant Instl Cntr			
LN0204_212	Write Documentation	10	12JAN06	26JAN06			▲ Write Documentation			
LN0204_214	Perform Point to Point Checkout	60	27JAN06	21APR06			▲ Perform Point to Point Checkout			
LN0204_330	Vendor Fab/Assy - Double Bay Racks	100	08FEB06	29JUN06			▲ Vendor Fab/Assy - Double Bay Racks			
LN0204_278	Vendor Fab/Assy - Single Bay Racks	120	08FEB06	28JUL06			▲ Vendor Fab/Assy - Single Bay Racks			
LN02040133	AVAIL: 30kw Pwr Supply (B11-14) Ready For Integ	0		10MAR06			◆ AVAIL: 30kw Pwr Supply (B11-14) Ready For Integ			
LN02040533	AVAIL: 10kw Pwr Supply (QM21) Ready for Integ	0		10MAR06			◆ AVAIL: 10kw Pwr Supply (QM21) Ready for Integ			
LN02040933	AVAIL: 10kw Pwr Supply (QM22) Ready for Integ	0		10MAR06			◆ AVAIL: 10kw Pwr Supply (QM22) Ready for Integ			
LN02043738	Integrate Cables	2	13MAR06	14MAR06			▲ Integrate Cables			
LN02043838	Integrate Cables	2	13MAR06	14MAR06			▲ Integrate Cables			
LN02044038	Integrate Cables	2	13MAR06	14MAR06			▲ Integrate Cables			
LN02043741	AVAIL: MCOR_1 Pwr Supply Ready for Rack Integ	0		14MAR06			◆ AVAIL: MCOR_1 Pwr Supply Ready for Rack Integ			
LN02043841	AVAIL: MCOR_2 Pwr Supply Ready for Rack Integ	0		14MAR06			◆ AVAIL: MCOR_2 Pwr Supply Ready for Rack Integ			
LN02044041	AVAIL: MCOR_4 Pwr Supply Ready for Rack Integ	0		14MAR06			◆ AVAIL: MCOR_4 Pwr Supply Ready for Rack Integ			
LN0204_282	RCV: from Vendor - Single Bay Racks (DC/I&C)-S1	0		05APR06			◆ RCV: from Vendor - Single Bay Racks (DC/I&C)-S1			
LN0204_334	RCV: from Vendor - Double Bay Racks - Set 1	0		05APR06			◆ RCV: from Vendor - Double Bay Racks - Set 1			
LN0204_284	Integrate Rack Hardware & Internal AC Wiring-S1	60	06APR06	29JUN06			▲ Integrate Rack Hardware & Internal AC Wiring-S1			
LN0204_336	Integrate Rack Hardware & Internal AC Wiring-S1	60	06APR06	29JUN06			▲ Integrate Rack Hardware & Internal AC Wiring-S1			
LN0204_216	Integrate Hardware and Software	10	24APR06	05MAY06			▲ Integrate Hardware and Software			
LN0204_338	Integrate Rack-Mnted Pwr Supplies & Intra-Cables	60	04MAY06	28JUL06			▲ Integrate Rack-Mnted Pwr Supplies & Intra-Cables			
LN0204_218	AVAIL: Linac Controls Ready to Integrate	0		05MAY06			◆ AVAIL: Linac Controls Ready to Integrate			
LN0204_350	RCV: from Vendor - Double Bay Racks - Set 2	0		17MAY06			◆ RCV: from Vendor - Double Bay Racks - Set 2			
LN0204_352	Integrate Rack Hardware & Internal AC Wiring-S2	40	18MAY06	14JUL06			▲ Integrate Rack Hardware & Internal AC Wiring-S2			
LN0204_342	Integrate Rack/Crate-Mnted Controls & Intra-Cbls	60	31MAY06	23AUG06			▲ Integrate Rack/Crate-Mnted Controls & Intra-Cbls			
LN0204_294	RCV: from Vendor - Single Bay Racks (DC/I&C)-S2	0		01JUN06			◆ RCV: from Vendor - Single Bay Racks (DC/I&C)-S2			
LN0204_296	Integrate Rack Hardware & Internal AC Wiring-S2	60	02JUN06	25AUG06			▲ Integrate Rack Hardware & Internal AC Wiring-S2			
LN0204_340	Perform Pre-install Testing Power Supplies-Set 1	45	16JUN06	18AUG06			▲ Perform Pre-install Testing Power Supplies-Set 1			

**LCLS
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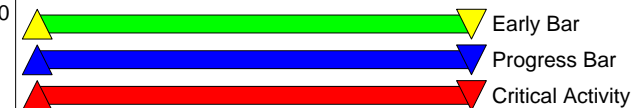


Start Date 01JUN01
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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
LN0204_286	Integrate Rack-Mnted Pwr Supplies & Intra-Cables	60	16JUN06	11SEP06					Integrate Rack-Mnted Pwr Supplies & Intra-Cables	
LN0204_366	RCV: from Vendor - Double Bay Racks - Set 3	0		29JUN06					RCV: from Vendor - Double Bay Racks - Set 3	
LN0204_288	Integrate Rack/Crate-Mnted Controls & Intra-Cbils	40	30JUN06	25AUG06					Integrate Rack/Crate-Mnted Controls & Intra-Cbils	
LN0204_368	Integrate Rack Hardware & Internal AC Wiring-S3	120	30JUN06	04JAN07					Integrate Rack Hardware & Internal AC Wiring-S3	
LN0204_344	Perform Pre-install Testing Controls - Set 1	30	18JUL06	28AUG06					Perform Pre-install Testing Controls - Set 1	
LN0204_306	RCV: from Vendor - Single Bay Racks (DC/I&C)-S3	0		28JUL06					RCV: from Vendor - Single Bay Racks (DC/I&C)-S3	
LN0204_308	Integrate Rack Hardware & Internal AC Wiring-S3	60	31JUL06	23OCT06					Integrate Rack Hardware & Internal AC Wiring-S3	
LN0204_422	INITIATE CONTRACT OPTION: Cableplant Instl - L01	0	01AUG06						INITIATE CONTRACT OPTION: Cableplant Instl - L01	
LN0204_424	INITIATE CONTRACT OPTION: Cableplant Instl - BC1	0	01AUG06						INITIATE CONTRACT OPTION: Cableplant Instl - BC1	
LN0204_346	AVAIL: Pre-loaded Dble Racks Ready to Instl-S1	0		28AUG06					AVAIL: Pre-loaded Dble Racks Ready to Instl-S1	
LN0204_300	Integrate Rack/Crate-Mnted Controls & Intra-Cbils	60	28AUG06	20NOV06					Integrate Rack/Crate-Mnted Controls & Intra-Cbils	
LN0204_290	AVAIL: Pre-loaded Sngle Racks Ready to Instl-S1	0		11SEP06					AVAIL: Pre-loaded Sngle Racks Ready to Instl-S1	
LN020402	2kw POWER SUPPLY (SEC-23) SUMMARY	100	03OCT06	12MAR07					2kw POWER SUPPLY (SEC-23) SUMMARY	
LN02040204	Procure 2kw Pwr Supply - (Sec 23)	100	03OCT06*	12MAR07					Procure 2kw Pwr Supply - (Sec 23)	
LN020403	2kw POWER SUPPLY (SEC-24) SUMMARY	100	03OCT06	12MAR07					2kw POWER SUPPLY (SEC-24) SUMMARY	
LN02040304	Procure 2kw Pwr Supply - (Sec 24)	100	03OCT06*	12MAR07					Procure 2kw Pwr Supply - (Sec 24)	
LN020404	10kw POWER SUPPLY (Q24701) SUMMARY	100	03OCT06	12MAR07					10kw POWER SUPPLY (Q24701) SUMMARY	
LN02040404	Procure 10kw Pwr Supply - (Q24701)	100	03OCT06*	12MAR07					Procure 10kw Pwr Supply - (Q24701)	
LN02040604	Procure 78kw Pwr Supply (B21-26) - Hardware	100	03OCT06*	12MAR07					Procure 78kw Pwr Supply (B21-26) - Hardware	
LN020408	10kw POWER SUPPLY (Q24901) SUMMARY	100	03OCT06	12MAR07					10kw POWER SUPPLY (Q24901) SUMMARY	
LN02040804	Procure 10kw Pwr Supply (Q24901)	100	03OCT06*	12MAR07					Procure 10kw Pwr Supply (Q24901)	
LN020410	2kw POWER SUPPLY (SEC-25) SUMMARY	100	03OCT06	12MAR07					2kw POWER SUPPLY (SEC-25) SUMMARY	
LN02041004	Procure 2kw Pwr Supply - (Sec 25)	100	03OCT06*	12MAR07					Procure 2kw Pwr Supply - (Sec 25)	
LN020411	2kw POWER SUPPLY (SEC-26) SUMMARY	100	03OCT06	12MAR07					2kw POWER SUPPLY (SEC-26) SUMMARY	
LN02041104	Procure 2kw Pwr Supply - (Sec 26)	100	03OCT06*	12MAR07					Procure 2kw Pwr Supply - (Sec 26)	
LN020412	2kw POWER SUPPLY (SEC-27) SUMMARY	100	03OCT06	12MAR07					2kw POWER SUPPLY (SEC-27) SUMMARY	
LN02041204	Procure 2kw Pwr Supply - (Sec 27)	100	03OCT06*	12MAR07					Procure 2kw Pwr Supply - (Sec 27)	
LN020413	2kw POWER SUPPLY (SEC-28) SUMMARY	100	03OCT06	12MAR07					2kw POWER SUPPLY (SEC-28) SUMMARY	
LN02041304	Procure 2kw Pwr Supply - (Sec 28)	100	03OCT06*	12MAR07					Procure 2kw Pwr Supply - (Sec 28)	
LN020414	2kw POWER SUPPLY (SEC-29) SUMMARY	100	03OCT06	12MAR07					2kw POWER SUPPLY (SEC-29) SUMMARY	
LN02041404	Procure 2kw Pwr Supply - (Sec 29)	100	03OCT06*	12MAR07					Procure 2kw Pwr Supply - (Sec 29)	
LN020415	78kw POWER SUPPLY (B31-34) SUMMARY	100	03OCT06	12MAR07					78kw POWER SUPPLY (B31-34) SUMMARY	
LN02041504	Procure 78kw Pwr Supply 9B31-34) - Hardware	100	03OCT06*	12MAR07					Procure 78kw Pwr Supply 9B31-34) - Hardware	
LN020416	QVM1 SUMMARY	100	03OCT06	12MAR07					QVM1 SUMMARY	
LN02041604	Procure QVM1 Pwr Supply 10kw	100	03OCT06*	12MAR07					Procure QVM1 Pwr Supply 10kw	
LN020417	QVM2 SUMMARY	100	03OCT06	12MAR07					QVM2 SUMMARY	
LN02041704	Procure QVM2 Pwr Supply 10kw	100	03OCT06*	12MAR07					Procure QVM2 Pwr Supply 10kw	

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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
LN020418	QVM3 SUMMARY	100	03OCT06	12MAR07					QVM3 SUMMARY	
LN02041804	Procure QVM3 Pwr Supply 10kw	100	03OCT06*	12MAR07					Procure QVM3 Pwr Supply 10kw	
LN020419	QVM4 SUMMARY	100	03OCT06	12MAR07					QVM4 SUMMARY	
LN02041904	Procure QVM4 Pwr Supply 10kw	100	03OCT06*	12MAR07					Procure QVM4 Pwr Supply 10kw	
LN020420	QVB1 SUMMARY	100	03OCT06	12MAR07					QVB1 SUMMARY	
LN02042004	Procure QVB1 Pwr Supply 10kw	100	03OCT06*	12MAR07					Procure QVB1 Pwr Supply 10kw	
LN020421	QDL1 SUMMARY	100	03OCT06	12MAR07					QDL1 SUMMARY	
LN02042104	Procure QDL1 Pwr Supply 10kw	100	03OCT06*	12MAR07					Procure QDL1 Pwr Supply 10kw	
LN020422	QTm1 SUMMARY	100	03OCT06	12MAR07					QTm1 SUMMARY	
LN02042204	Procure Power Supply - (QTm1) - 10kw	100	03OCT06*	12MAR07					Procure Power Supply - (QTm1) - 10kw	
LN020423	QTm2 SUMMARY	100	03OCT06	12MAR07					QTm2 SUMMARY	
LN02042304	Procure Power Supply - (QTm2) - 10kw	100	03OCT06*	12MAR07					Procure Power Supply - (QTm2) - 10kw	
LN020424	QE31 SUMMARY	100	03OCT06	12MAR07					QE31 SUMMARY	
LN02042404	Procure Power Supply - (QE31)	100	03OCT06*	12MAR07					Procure Power Supply - (QE31)	
LN020425	QEM1 SUMMARY	100	03OCT06	12MAR07					QEM1 SUMMARY	
LN02042504	Procure Power Supply - (QEM1)	100	03OCT06*	12MAR07					Procure Power Supply - (QEM1)	
LN020426	QEM2 SUMMARY	100	03OCT06	12MAR07					QEM2 SUMMARY	
LN02042604	Procure Power Supply - (QEM2)	100	03OCT06*	12MAR07					Procure Power Supply - (QEM2)	
LN020427	QEM3 SUMMARY	100	03OCT06	12MAR07					QEM3 SUMMARY	
LN02042704	Procure Power Supply - (QEM3)	100	03OCT06*	12MAR07					Procure Power Supply - (QEM3)	
LN02042804	Procure Power Supply - (QEM4) - 10kw	100	03OCT06*	12MAR07					Procure Power Supply - (QEM4) - 10kw	
LN020429	QUM1 SUMMARY	100	03OCT06	12MAR07					QUM1 SUMMARY	
LN02042904	Procure Power Supply - (QUM1) - 10kw	100	03OCT06*	12MAR07					Procure Power Supply - (QUM1) - 10kw	
LN020430	QUM2 SUMMARY	100	03OCT06	12MAR07					QUM2 SUMMARY	
LN02043004	Procure Power Supply - (QUM2) - 10kw	100	03OCT06*	12MAR07					Procure Power Supply - (QUM2) - 10kw	
LN020431	QUM3 SUMMARY	100	03OCT06	12MAR07					QUM3 SUMMARY	
LN02043104	Procure Power Supply - (QUM3) - 10kw	100	03OCT06*	12MAR07					Procure Power Supply - (QUM3) - 10kw	
LN020432	QUM4 SUMMARY	100	03OCT06	12MAR07					QUM4 SUMMARY	
LN02043204	Procure Power Supply - (QUM4) - 10kw	100	03OCT06*	12MAR07					Procure Power Supply - (QUM4) - 10kw	
LN02043250	QDMP POWER SUPPLY SUMMARY	100	03OCT06	12MAR07					QDMP POWER SUPPLY SUMMARY	
LN02043280	Procure Power Supply - (QDMP)	100	03OCT06*	12MAR07					Procure Power Supply - (QDMP)	
LN020434	BY1 POWER SUPPLY SUMMARY	100	03OCT06	12MAR07					BY1 POWER SUPPLY SUMMARY	
LN02043418	Procure Power Supply (BY1) - Hardware	100	03OCT06*	12MAR07					Procure Power Supply (BY1) - Hardware	
LN02043904	Procure 30Amp Pwr Supply-(MCOR_3)(7-30Amp module	100	03OCT06*	12MAR07					Procure 30Amp Pwr Supply-(MCOR_3)(7-30Amp module	
LN02044604	Procure Power Supply-(MCOR_LTU1)(5-12Amp modules	100	03OCT06*	12MAR07					Procure Power Supply-(MCOR_LTU1)(5-12Amp modules	
LN02044704	Procure Power Supply-(MCOR_LTU2)	100	03OCT06*	12MAR07					Procure Power Supply-(MCOR_LTU2)	
LN02044804	Procure Power Supply-(MCOR_LTU3)	100	03OCT06*	12MAR07					Procure Power Supply-(MCOR_LTU3)	



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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish							
					2004	2005	2006	2007	2008	2009	
LN02044904	Procure Power Supply-(MCOR_LTU4)	100	03OCT06	12MAR07					Procure Power Supply-(MCOR_LTU4)		
LN02045004	Procure Power Supply-(MCOR_LTU5)	100	03OCT06	12MAR07					Procure Power Supply-(MCOR_LTU5)		
LN02045104	Procure Power Supply-(MCOR_LTU6)	100	03OCT06	12MAR07					Procure Power Supply-(MCOR_LTU6)		
LN02045400	QUE1 POWER SUPPLY SUMMARY	100	03OCT06	12MAR07					QUE1 POWER SUPPLY SUMMARY		
LN02045405	Procure Power Supply - (QUE1) - 10kw	100	03OCT06*	12MAR07					Procure Power Supply - (QUE1) - 10kw		
LN02045500	QUE2 POWER SUPPLY SUMMARY	100	03OCT06	12MAR07					QUE2 POWER SUPPLY SUMMARY		
LN02045505	Procure Power Supply - (QUE2) - 10kw	100	03OCT06*	12MAR07					Procure Power Supply - (QUE2) - 10kw		
LN020480	78kw PWR SUPPLY (Dump Bend) SUMMARY	100	03OCT06	12MAR07					78kw PWR SUPPLY (Dump Bend) SUMMARY		
LN02048018	Procure 78kw Pwr Supply - (Dump Bend)	100	03OCT06*	12MAR07					Procure 78kw Pwr Supply - (Dump Bend)		
LN020428	QEM4 SUMMARY	101	03OCT06	13MAR07					QEM4 SUMMARY		
LN020439	MCOR_3 (30Amp) SUMMARY	102	03OCT06	14MAR07					MCOR_3 (30Amp) SUMMARY		
LN020446	MCOR_LTU1 SUMMARY	102	03OCT06	14MAR07					MCOR_LTU1 SUMMARY		
LN020447	MCOR_LTU2 SUMMARY	102	03OCT06	14MAR07					MCOR_LTU2 SUMMARY		
LN020448	MCOR_LTU3 SUMMARY	102	03OCT06	14MAR07					MCOR_LTU3 SUMMARY		
LN020450	MCOR_LTU5 SUMMARY	102	03OCT06	14MAR07					MCOR_LTU5 SUMMARY		
LN020451	MCOR_LTU6 SUMMARY	102	03OCT06	14MAR07					MCOR_LTU6 SUMMARY		
LN020449	MCOR_LTU4 SUMMARY	108	03OCT06	22MAR07					MCOR_LTU4 SUMMARY		
LN0204_398	Procure Cable Tray Fittings (DC&IC)	120	03OCT06*	09APR07					Procure Cable Tray Fittings (DC&IC)		
LN0204_400	Procure Trapeze Cable Tray Supports (DC&IC) 300	120	03OCT06*	09APR07					Procure Trapeze Cable Tray Supports (DC&IC)		
LN0204_402	Procure Cable Tray Grounding (DC&IC, \$1.8/ft)	120	03OCT06*	09APR07	Procure Cable Tray Grounding (DC&IC, \$1.8/ft)						
LN0204_404	Procure Gnd Jumpers (DC&IC)	120	03OCT06*	09APR07					Procure Gnd Jumpers (DC&IC)		
LN020406	B21-26 POWER SUPPLY SUMMARY	195	03OCT06	25JUL07					B21-26 POWER SUPPLY SUMMARY		
LN0204_358	Integrate Rack/Crate-Mnted Controls & Intra-Cbils	120	16OCT06	20APR07	Integrate Rack/Crate-Mnted Controls & Intra-Cbils						
LN0204_394	Vendor Fab - Cable Tray Material	60	23OCT06	01FEB07					Vendor Fab - Cable Tray Material		
LN0204_396	AVAIL: Cable Tray Material ready for Cableplant	0		01FEB07					AVAIL: Cable Tray Material ready for Cableplant		
LN02040233	AVAIL: 2kw Pwr Supply (SEC-23) Ready for Integ	0		12MAR07	AVAIL: 2kw Pwr Supply (SEC-23) Ready for Integ						
LN02040333	AVAIL: 2kw Pwr Supply (SEC-24) Ready for Integ	0		12MAR07	AVAIL: 2kw Pwr Supply (SEC-24) Ready for Integ						
LN02040433	AVAIL: 10kw Pwr Supply (Q24701) Ready for Integ	0		12MAR07	AVAIL: 10kw Pwr Supply (Q24701) Ready for Integ						
LN02040833	AVAIL: 10kw Pwr Supply (Q24901) Ready for Integ	0		12MAR07	AVAIL: 10kw Pwr Supply (Q24901) Ready for Integ						
LN02041033	AVAIL: 2kw Pwr Supply (SEC-25) Ready for Integ	0		12MAR07	AVAIL: 2kw Pwr Supply (SEC-25) Ready for Integ						
LN02041133	AVAIL: 2kw Pwr Supply (SEC-26) Ready for Integ	0		12MAR07	AVAIL: 2kw Pwr Supply (SEC-26) Ready for Integ						
LN02041233	AVAIL: 2kw Pwr Supply (SEC-27) Ready for Integ	0		12MAR07	AVAIL: 2kw Pwr Supply (SEC-27) Ready for Integ						
LN02041333	AVAIL: 2kw Pwr Supply (SEC-28) Ready for Integ	0		12MAR07	AVAIL: 2kw Pwr Supply (SEC-28) Ready for Integ						
LN02041433	AVAIL: 2kw Pwr Supply (SEC-29) Ready for Integ	0		12MAR07	AVAIL: 2kw Pwr Supply (SEC-29) Ready for Integ						
LN02041546	AVAIL: 78kw Pwr Supply (B31-34) Ready for Integ	0		12MAR07	AVAIL: 78kw Pwr Supply (B31-34) Ready for Integ						
LN02041633	AVAIL: QVM1 Pwr Supply Ready for Integ	0		12MAR07					AVAIL: QVM1 Pwr Supply Ready for Integ		
LN02041733	AVAIL: QVM2 Pwr Supply Ready for Integ	0		12MAR07					AVAIL: QVM2 Pwr Supply Ready for Integ		

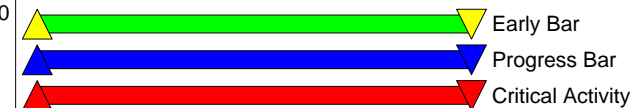
**LCLS
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Start Date 01JUN01
 Finish Date 31MAR09
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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
LN02041833	AVAIL: QVM3 Pwr Supply Ready for Integ	0		12MAR07				◆AVAIL: QVM3 Pwr Supply Ready for Integ		
LN02041933	AVAIL: QVM4 Pwr Supply Ready for Integ	0		12MAR07				◆AVAIL: QVM4 Pwr Supply Ready for Integ		
LN02042033	AVAIL: QVB1 Pwr Supply Ready for Integ	0		12MAR07				◆AVAIL: QVB1 Pwr Supply Ready for Integ		
LN02042133	AVAIL: QDL1 Pwr Supply Ready for Integ	0		12MAR07				◆AVAIL: QDL1 Pwr Supply Ready for Integ		
LN02042233	AVAIL: QTm1 Pwr Supply Ready for Integ	0		12MAR07				◆AVAIL: QTm1 Pwr Supply Ready for Integ		
LN02042333	AVAIL: QTm2 Pwr Supply Ready for Integ	0		12MAR07				◆AVAIL: QTm2 Pwr Supply Ready for Integ		
LN02042433	AVAIL: QE31 Pwr Supply Ready for Integ	0		12MAR07				◆AVAIL: QE31 Pwr Supply Ready for Integ		
LN02042533	AVAIL: QEM1 Pwr Supply Ready for Integ	0		12MAR07				◆AVAIL: QEM1 Pwr Supply Ready for Integ		
LN02042633	AVAIL: QEM2 Pwr Supply Ready for Integ	0		12MAR07				◆AVAIL: QEM2 Pwr Supply Ready for Integ		
LN02042733	AVAIL: QEM3 Pwr Supply Ready for Integ	0		12MAR07				◆AVAIL: QEM3 Pwr Supply Ready for Integ		
LN02042933	AVAIL: QUM1 Pwr Supply Ready for Integ	0		12MAR07				◆AVAIL: QUM1 Pwr Supply Ready for Integ		
LN02043033	AVAIL: QUM2 Pwr Supply Ready for Integ	0		12MAR07				◆AVAIL: QUM2 Pwr Supply Ready for Integ		
LN02043133	AVAIL: QUM3 Pwr Supply Ready for Integ	0		12MAR07				◆AVAIL: QUM3 Pwr Supply Ready for Integ		
LN02043233	AVAIL: QUM4 Pwr Supply Ready for Integ	0		12MAR07				◆AVAIL: QUM4 Pwr Supply Ready for Integ		
LN02043380	AVAIL: QDMP Pwr Supply Ready for Integ	0		12MAR07				◆AVAIL: QDMP Pwr Supply Ready for Integ		
LN02043446	AVAIL: BY1 Pwr Supply Ready for Instl	0		12MAR07				◆AVAIL: BY1 Pwr Supply Ready for Instl		
LN02045440	AVAIL: QDMP Pwr Supply Ready for Integ	0		12MAR07				◆AVAIL: QDMP Pwr Supply Ready for Integ		
LN02045540	AVAIL: QDMP Pwr Supply Ready for Integ	0		12MAR07				◆AVAIL: QDMP Pwr Supply Ready for Integ		
LN02048046	AVAIL: 78kw (Dmp Bnd) Pwr Supply Ready for Integ	0		12MAR07	AVAIL: 78kw (Dmp Bnd) Pwr Supply Ready for Integ◆					
LN02042832	Integrate Magnet Interlock	1	13MAR07	13MAR07				⚠Integrate Magnet Interlock		
LN02042833	AVAIL: QEM4 Pwr Supply Ready for Integ	0		13MAR07				◆AVAIL: QEM4 Pwr Supply Ready for Integ		
LN02043938	Integrate Cables	2	13MAR07	14MAR07				⚠Integrate Cables		
LN02044638	Integrate Cables	2	13MAR07	14MAR07				⚠Integrate Cables		
LN02044738	Integrate Cables	2	13MAR07	14MAR07				⚠Integrate Cables		
LN02044838	Integrate Cables	2	13MAR07	14MAR07				⚠Integrate Cables		
LN02045038	Integrate Cables	2	13MAR07	14MAR07				⚠Integrate Cables		
LN02045138	Integrate Cables	2	13MAR07	14MAR07				⚠Integrate Cables		
LN02044930	Assemble Pwr Supply, Transductor & Control	6	13MAR07	20MAR07				⚠Assemble Pwr Supply, Transductor & Control		
LN02043941	AVAIL: MCOR_3 Pwr Supply Ready for Rack Integ	0		14MAR07	AVAIL: MCOR_3 Pwr Supply Ready for Rack Integ◆					
LN02044641	AVAIL: MCOR_LTU1 Pwr Supply Ready for Integ	0		14MAR07	AVAIL: MCOR_LTU1 Pwr Supply Ready for Integ◆					
LN02044741	AVAIL: MCOR_LTU2 Pwr Supply Ready for Integ	0		14MAR07	AVAIL: MCOR_LTU2 Pwr Supply Ready for Integ◆					
LN02044841	AVAIL: MCOR_LTU3 Pwr Supply Ready for Integ	0		14MAR07	AVAIL: MCOR_LTU3 Pwr Supply Ready for Integ◆					
LN02045041	AVAIL: MCOR_LTU5 Pwr Supply Ready for Integ	0		14MAR07	AVAIL: MCOR_LTU5 Pwr Supply Ready for Integ◆					
LN02045141	AVAIL: MCOR_LTU6 Pwr Supply Ready for Integ	0		14MAR07	AVAIL: MCOR_LTU6 Pwr Supply Ready for Integ◆					
LN02044938	Integrate Cables	2	21MAR07	22MAR07				⚠Integrate Cables		
LN02044941	AVAIL: MCOR_LTU4 Pwr Supply Ready for Integ	0		22MAR07	AVAIL: MCOR_LTU4 Pwr Supply Ready for Integ◆					
LN0204_312	Integrate Rack/Crate-Mnted Controls & Intra-Cbls	60	22MAR07	14JUN07	Integrate Rack/Crate-Mnted Controls & Intra-Cbls▲▼					



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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
LN0204_370	Integrate Rack-Mnted Pwr Supplies & Intra-Cables	120	23MAR07	11SEP07	Integrate Rack-Mnted Pwr Supplies & Intra-Cables					
LN0204_372	Perform Pre-install Testing Power Supplies-Set 3	45	06APR07	08JUN07	Perform Pre-install Testing Power Supplies-Set					
LN0204_406	RCV: Misc Cable Tray Matrials Ready for Install	0		09APR07	RCV: Misc Cable Tray Matrials Ready for Insta					
LN02043501	Prep Bid Package - Pwr Supply - Dipole Type	5	10APR07*	16APR07	Prep Bid Package - Pwr Supply - Dipole Type					
LN020435	KICKER (BYBKIK) SUMMARY	116	10APR07	21SEP07	KICKER (BYBKIK) SUMMARY					
LN02043503	RELEASE: RFP - Pwr Supply - Dipole Type	0		16APR07	RELEASE: RFP - Pwr Supply - Dipole Type					
LN02043505	Vendors Prep Proposals - Pwr Spply - Dipole Type	5	17APR07	23APR07	Vendors Prep Proposals - Pwr Spply - Dipole Typ					
LN02043507	RCV: Vendor Proposals - Pwr Supply - Dipole Type	0		23APR07	RCV: Vendor Proposals - Pwr Supply - Dipole Typ					
LN0204_360	Perform Pre-install Testing Controls - Set 2	30	23APR07	04JUN07	Perform Pre-install Testing Controls - Set 2					
LN02043509	Evaluate Vendors Prep Proposals	5	24APR07	30APR07	Evaluate Vendors Prep Proposals					
LN02043512	Fab & Assy- Power Supply - (Dipole Type)	100	02MAY07	21SEP07	Fab & Assy- Power Supply - (Dipole Type)					
LN0204_374	Integrate Rack/Crate-Mnted Controls & Intra-Cbls	120	04MAY07	23OCT07	Integrate Rack/Crate-Mnted Controls & Intra-Cbl					
LN02040646	AVAIL: __kw Pwr Supply (B21-26) Ready for Instl	0		25JUL07	AVAIL: __kw Pwr Supply (B21-26) Ready for Ins					
LN0204_298	Integrate Rack-Mnted Pwr Supplies & Intra-Cables	60	26JUL07	18OCT07	Integrate Rack-Mnted Pwr Supplies & Intra-Cable					
LN0204_354	Integrate Rack-Mnted Pwr Supplies & Intra-Cables	100	26JUL07	02JAN08	Integrate Rack-Mnted Pwr Supplies & Intra-Cable					
LN0204_356	Perform Pre-install Testing Power Supplies-Set 2	45	09AUG07	11OCT07	Perform Pre-install Testing Power Supplies-Set					
LN0204_426	INITIATE CONTRACT OPTION: Cableplant Instl - L02	0	04SEP07		INITIATE CONTRACT OPTION: Cableplant Instl - L0					
LN0204_428	INITIATE CONTRACT OPTION: Cableplant Instl - BC2	0	04SEP07		INITIATE CONTRACT OPTION: Cableplant Instl - BC					
LN0204_430	INITIATE CONTRACT OPTION: Cableplant Instl - L03	0	04SEP07		INITIATE CONTRACT OPTION: Cableplant Instl - L0					
LN0204_432	INITIATE CONTRACT OPTION: Cableplant Instl - LTU	0	04SEP07		INITIATE CONTRACT OPTION: Cableplant Instl - LT					
LN02043533	AVAIL: BYBKIK Pwr Supply Ready for Instl	0		21SEP07	AVAIL: BYBKIK Pwr Supply Ready for Ins					
LN0204_310	Integrate Rack-Mnted Pwr Supplies & Intra-Cables	60	24SEP07	03JAN08	Integrate Rack-Mnted Pwr Supplies & Intra-Cable					
LN0204_434	INITIATE CONTRACT OPTION: Cableplant Instl - E-D	0	10OCT07		INITIATE CONTRACT OPTION: Cableplant Instl - E					
LN0204_362	AVAIL: Pre-loaded Dble Racks Ready to Instl-S2	0		11OCT07	AVAIL: Pre-loaded Dble Racks Ready to Instl-S					
LN0204_302	AVAIL: Pre-loaded Sngle Racks Ready to Instl-S2	0		18OCT07	AVAIL: Pre-loaded Sngle Racks Ready to Instl-S					
LN0204_376	Perform Pre-install Testing Controls - Set 3	30	24OCT07	06DEC07	Perform Pre-install Testing Controls - Set					
LN0204_378	AVAIL: Pre-loaded Dble Racks Ready to Instl-S3	0		06DEC07	AVAIL: Pre-loaded Dble Racks Ready to Instl-S					
LN0204_314	AVAIL: Pre-loaded Sngle Racks Ready to Instl-S3	0		03JAN08	AVAIL: Pre-loaded Sngle Racks Ready to Instl-S					
1.03.02.05 Controls - LLRF										
LN02050206	Write LLRF S/W Docmntatn (sec 24/30)	5	08AUG05	12AUG05	Write LLRF S/W Docmntatn (sec 24/30)					
LN02050045	Construction Funds Available - Begin Procurement	0	03OCT05		Construction Funds Available - Begin Procurement					
LN02050130	Procure Linac LLRF Hardware	60	03OCT05	11JAN06	Procure Linac LLRF Hardware					
LN02050260	Procure LLRF BL Mon Cntrls hardware	60	03OCT05	11JAN06	Procure LLRF BL Mon Cntrls hardware					
LN02050201	Build LLRF H/W and Write Docmntatn (sec 24/30)	21	29NOV05	11JAN06	Build LLRF H/W and Write Docmntatn (sec 24/30)					
LN02050195	RCV: Procured parts - Bm Phz Monitor Cntrls	0		11JAN06	RCV: Procured parts - Bm Phz Monitor Cntrls					
LN02050265	RCV: Procured parts	0		11JAN06	RCV: Procured parts					
LN02050207	Integrate and Test (sec 24/30)	46	12JAN06	20MAR06	Integrate and Test (sec 24/30)					

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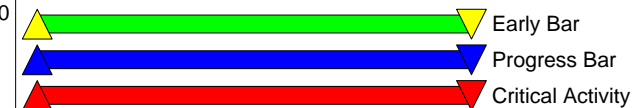
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Early Bar
Progress Bar
Critical Activity

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	2004	2005	2006	2007	2008	2009
					LN02050266	Integrate and Test (BLM sec 24/30)	46	12JAN06	20MAR06	
LN02050295	AVAIL: Bnch Length Monitor Cntrls Ready to Integ	0		20MAR06			◆ AVAIL: Bnch Length Monitor Cntrls Ready to Integ			
1.03.02.06 Controls - E-Beam Diagnostic										
LN02062118	Generate Detailed Procurement Plan	1	01MAR05*	01MAR05			▲▼ Generate Detailed Procurement Plan			
LN02062140	Write Software - Standard BPMs	5	01MAR05*	07MAR05			▲▼ Write Software - Standard BPMs			
LN020621	CONTROLS - BPM (Standard Linac) SUMMARY	329	01MAR05	29JUN06			▲▼ CONTROLS - BPM (Standard Linac) SUMMARY			
LN020622	CONTROLS - BPM (RF) SUMMARY	329	01MAR05	29JUN06			▲▼ CONTROLS - BPM (RF) SUMMARY			
LN020623	CONTROLS - BPM (LTU) SUMMARY	329	01MAR05	29JUN06			▲▼ CONTROLS - BPM (LTU) SUMMARY			
LN020624	CONTROLS - BPM (BC1) SUMMARY	329	01MAR05	29JUN06			▲▼ CONTROLS - BPM (BC1) SUMMARY			
LN02062120	Establish Subordinate Work Orders	1	02MAR05	02MAR05			▲▼ Establish Subordinate Work Orders			
LN02062142	Write Documentation- Standard BPMs	5	08MAR05	14MAR05			▲▼ Write Documentation- Standard BPMs			
LN02061200	Receive System Requirements	5	01JUL05*	08JUL05			▲▼ Receive System Requirements			
LN02061225	Design Collimator Controls	61	01JUL05*	27SEP05			▲▼ Design Collimator Controls			
LN020612	CONTROLS - MOVABLE COLLIMATORS SUMMARY	136	01JUL05	30JAN06			▲▼ CONTROLS - MOVABLE COLLIMATORS SUMMARY			
LN02061226	COMP: Controls Design - Movable Collimators	0		27SEP05			◆ COMP: Controls Design - Movable Collimators			
LN02060127	Construction Funds Available - Begin Procurement	0		30SEP05			◆ Construction Funds Available - Begin Procurement			
LN02060327	Construction Funds Available - Begin Procurement	0		30SEP05			◆ Construction Funds Available - Begin Procurement			
LN02060428	Construction Funds Available - Begin Procurement	0		30SEP05			◆ Construction Funds Available - Begin Procurement			
LN02060528	Construction Funds Available - Begin Procurement	0		30SEP05			◆ Construction Funds Available - Begin Procurement			
LN02060627	Construction Funds Available - Begin Procurement	0		30SEP05			◆ Construction Funds Available - Begin Procurement			
LN02060727	Construction Funds Available - Begin Procurement	0		30SEP05			◆ Construction Funds Available - Begin Procurement			
LN02060827	Construction Funds Available - Begin Procurement	0		30SEP05			◆ Construction Funds Available - Begin Procurement			
LN02060927	Construction Funds Available - Begin Procurement	0		30SEP05			◆ Construction Funds Available - Begin Procurement			
LN02061027	Construction Funds Available - Begin Procurement	0		30SEP05			◆ Construction Funds Available - Begin Procurement			
LN02061127	Construction Funds Available - Begin Procurement	0		30SEP05			◆ Construction Funds Available - Begin Procurement			
LN02061227	Construction Funds Available - Begin Procurement	0		30SEP05			◆ Construction Funds Available - Begin Procurement			
LN02061327	Construction Funds Available - Begin Procurement	0		30SEP05			◆ Construction Funds Available - Begin Procurement			
LN02062127	Construction Funds Available - Begin Procurement	0		30SEP05			◆ Construction Funds Available - Begin Procurement			
LN02061228	Procure Movable Collimator Controls Hdwr/Eq	0	03OCT05	30SEP05			▲▼ Procure Movable Collimator Controls Hdwr/Eq			
LN02060118	Generate Detailed Procurement Plan	1	03OCT05*	03OCT05			▲▼ Generate Detailed Procurement Plan			
LN02061300	Receive System Requirements	5	03OCT05	07OCT05			▲▼ Receive System Requirements			
LN02060734	Write Software - BLM Diagnostics	20	03OCT05	28OCT05			▲▼ Write Software - BLM Diagnostics			
LN02061233	Build Collimator H/W	21	03OCT05	31OCT05			▲▼ Build Collimator H/W			
LN02062229	Build RF BPM H/W	21	03OCT05	31OCT05			▲▼ Build RF BPM H/W			
LN02062327	Build H/W (4) LTU BPMs	22	03OCT05	01NOV05			▲▼ Build H/W (4) LTU BPMs			
LN02062439	Build H/W (4) BC1 BPMs	22	03OCT05	01NOV05			▲▼ Build H/W (4) BC1 BPMs			
LN020605	CONTROLS - PROFILE MONITORS (20) SUMMARY	83	03OCT05	14FEB06			▲▼ CONTROLS - PROFILE MONITORS (20) SUMMARY			

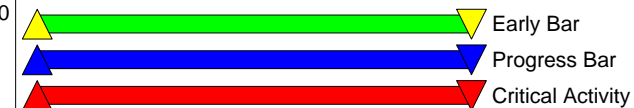
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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Gantt Chart						
					2004	2005	2006	2007	2008	2009	
LN020603	CONTROLS - TOROIDS (6) SUMMARY	109	03OCT05	23MAR06							
LN020613	CONTROLS - X-BAND ACCEL STRUCTURE	117	03OCT05	04APR06							
LN020607	CONTROLS - BUNCH LENGTH MONITORS SUMMARY	133	03OCT05	26APR06							
LN020608	CONTROLS - BEAM LOSS MONITORS (PLIC)	150	03OCT05	19MAY06							
LN020606	CONTROLS - E/O DIAGNOSTICS SUMMARY	154	03OCT05	25MAY06							
LN020604	CONTROLS - STOPPERS SUMMARY	169	03OCT05	16JUN06							
LN020611	CONTROLS - PROTECTION COLLIMATOR SUMMARY	252	03OCT05	13OCT06							
LN020609	CONTROLS - SINGLE BEAM DUMP SUMMARY	350	03OCT05	21MAR07							
LN020610	CONTROLS - E-BEAM DUMP SUMMARY	381	03OCT05	03MAY07							
LN02060120	Establish Subordinate Work Orders	1	04OCT05*	04OCT05							
LN02060126	COMP: Design - Release for Fab	0		04OCT05							
LN02060532	Procure Monitor Hardware (20 Units)	20	04OCT05	31OCT05							
LN02060568	Procure 50B1 Profile Monitors	20	04OCT05	31OCT05							
LN02062129	Procure BPMs and Cables (143)	20	04OCT05	31OCT05							
LN02062135	Procure BPMs and Cables (143)	20	04OCT05	31OCT05							
LN02062138	Procure 50B1 BPMs	20	04OCT05	31OCT05							
LN02060331	Procure Torroid Shielding, Preamps, Hardware (6)	45	04OCT05	07DEC05							
LN02061325	Design X Band Controls	61	10OCT05	20JAN06							
LN02060166	Procure Wire Scanner Hardware (5)	20	17OCT05	11NOV05							
LN02060736	Write Documentation - BLM Diagnostics	5	31OCT05	04NOV05							
LN02060556	Procure VME Cable - DAC (1)	20	01NOV05	30NOV05							
LN02061234	Write Software - Movable Collimator	20	01NOV05	30NOV05							
LN02062234	Write Software - RF BPMs	20	01NOV05	30NOV05							
LN02062139	Build LIU H/W	58	01NOV05	08FEB06							
LN02062340	Write Software - LTU BPMs	5	02NOV05	08NOV05							
LN02062440	Write Software - BC1 BPMs	5	02NOV05	08NOV05							
LN02062342	Write Documentation- LTU BPMs	5	09NOV05	15NOV05							
LN02062442	Write Documentation- BC1 BPMs	5	09NOV05	15NOV05							
LN02060176	Write Software - Wire Scanners	20	11NOV05	12DEC05							
LN02060170	Build Wire Scanner H/W (19)	38	14NOV05	24JAN06							
LN02062347	Integrate and Test LTU BPMs	8	16NOV05	29NOV05							
LN02062443	Integration and Test BC1 BPMs	8	16NOV05	29NOV05							
LN02062348	AVAIL: BPM Cntrls Eq Ready for Rack Integ	0		29NOV05							
LN02062448	AVAIL: BPM Cntrls Eq Ready for Rack Integ	0		29NOV05							
LN02061236	Write Documentation - Movable Collimator	5	01DEC05	07DEC05							
LN02062236	Write Documentation- RF BPMs	5	01DEC05	07DEC05							
LN02060558	Build Wire Profile Monitor H/W in Lab (4)	6	01DEC05	08DEC05							



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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
LN02061243	Integrate and Test	26	08DEC05	30JAN06			▲▼ Integrate and Test			
LN02060340	Build Hardware (Toroids)	41	08DEC05	21FEB06			▲▼ Build Hardware (Toroids)			
LN02060562	Write Software - Profile Monitors	5	09DEC05	15DEC05			▲▼ Write Software - Profile Monitors			
LN02060178	Write Documentation - Wire Scanners	5	13DEC05	03JAN06			▲▼ Write Documentation - Wire Scanners			
LN02060564	Write Documentation - Profile Monitors	5	16DEC05	06JAN06			▲▼ Write Documentation - Profile Monitors			
LN02060828	Procure BLM Controls Hdwr/Eq	20	16DEC05	30JAN06			▲▼ Procure BLM Controls Hdwr/Eq			
LN02060430	Procure Stopper Controls Hdwr/Eq	20	09JAN06	06FEB06			▲▼ Procure Stopper Controls Hdwr/Eq			
LN02060570	Integrate and Test Profile Monitors	26	09JAN06	14FEB06			▲▼ Integrate and Test Profile Monitors			
LN02060728	Procure BLM Controls Hdwr/Eq	20	13JAN06	10FEB06			▲▼ Procure BLM Controls Hdwr/Eq			
LN02061326	COMP: Controls Design - X Band Accel Structures	0		20JAN06			◆ COMP: Controls Design - X Band Accel Structures			
LN02061328	Procure X-Band Accel Struct Controls Hdwr/Eq	20	23JAN06	17FEB06			▲▼ Procure X-Band Accel Struct Controls Hdwr/Eq			
LN02061333	Build X-Band H/W	20	23JAN06	17FEB06			▲▼ Build X-Band H/W			
LN02061334	Write Software - X Band Accel Structure	20	23JAN06	17FEB06			▲▼ Write Software - X Band Accel Structure			
LN02060179	Integrate and Test Wire Scanners (19)	50	25JAN06	05APR06			▲▼ Integrate and Test Wire Scanners (19)			
LN02061244	AVAIL: Move Coll Cntrls Eq Ready for Rack Integ	0		30JAN06			◆ AVAIL: Move Coll Cntrls Eq Ready for Rack Integ			
LN02060833	Build Beam Loss Monitor	27	31JAN06	09MAR06			▲▼ Build Beam Loss Monitor			
LN02060432	Build Stopper Controls H/W	41	07FEB06	05APR06			▲▼ Build Stopper Controls H/W			
LN02062144	Integrate and Test LIU BPMs	28	09FEB06	21MAR06			▲▼ Integrate and Test LIU BPMs			
LN02060733	Build BLM Hardware	26	13FEB06	21MAR06			▲▼ Build BLM Hardware			
LN02060572	AVAIL: Prof Montr Cntrls Eq Ready for Rack Integ	0		14FEB06			◆ AVAIL: Prof Montr Cntrls Eq Ready for Rack Integ			
LN02060628	Procure E/O Electronics	20	14FEB06	14MAR06			▲▼ Procure E/O Electronics			
LN02061336	Write Documentation - X Band Accel Structure	5	21FEB06	27FEB06			▲▼ Write Documentation - X Band Accel Structure			
LN02060358	Write Software - Toroids	5	22FEB06	28FEB06			▲▼ Write Software - Toroids			
LN02061343	Integrate and Test	26	28FEB06	04APR06			▲▼ Integrate and Test			
LN02060360	Write Documentation - Toroids	5	01MAR06	07MAR06			▲▼ Write Documentation - Toroids			
LN02060361	Integrate and Test Toroids	12	08MAR06	23MAR06			▲▼ Integrate and Test Toroids			
LN02060834	Write Software - Bm Lss Mon Diagnostics	20	10MAR06	06APR06			▲▼ Write Software - Bm Lss Mon Diagnostics			
LN02060644	Write Software - E/O Diagnostics	20	15MAR06	11APR06			▲▼ Write Software - E/O Diagnostics			
LN02060643	Build H/W (E/O Diagnostics)	26	15MAR06	19APR06			▲▼ Build H/W (E/O Diagnostics)			
LN02062150	AVAIL: BPM Cntrls Eq Ready for Rack Integ	0		21MAR06			◆ AVAIL: BPM Cntrls Eq Ready for Rack Integ			
LN02060743	Integrate and Test BLM	26	22MAR06	26APR06			▲▼ Integrate and Test BLM			
LN02060366	AVAIL: Toroids Cntrls Eq Ready for Rack Integ	0		23MAR06			◆ AVAIL: Toroids Cntrls Eq Ready for Rack Integ			
LN02061344	AVAIL: X Bnd Stru Cntrls Eq Ready for Rack Integ	0		04APR06			◆ AVAIL: X Bnd Stru Cntrls Eq Ready for Rack Integ			
LN02060186	AVAIL: Controls Equip Ready for Integ into Racks	0		05APR06			◆ AVAIL: Controls Equip Ready for Integ into Racks			
LN02060438	Write Software - Stoppers	20	06APR06	03MAY06			▲▼ Write Software - Stoppers			
LN02060836	Write Documentation - Bm Lss Mon Diagnostics	5	07APR06	13APR06			▲▼ Write Documentation - Bm Lss Mon Diagnostics			
LN02061100	Receive System Requirements	5	10APR06	14APR06			▲▼ Receive System Requirements			



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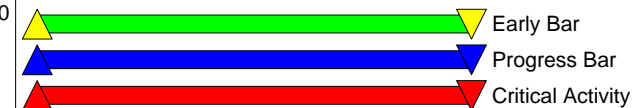
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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
LN02060646	Write Documentation - E/O Electronics	5	12APR06	18APR06			⚠ Write Documentation - E/O Electronics			
LN02060843	Integrate & Test	26	14APR06	19MAY06			⚠ Integrate & Test			
LN02061125	Design Moveable Protection Collimator	55	17APR06	03JUL06			⚠ Design Moveable Protection Collimator			
LN02060653	Integrate and Test E/O Electronics	26	20APR06	25MAY06			⚠ Integrate and Test E/O Electronics			
LN02060744	AVAIL: Bnch Lngth Cntrls Eq Ready for Rack Integ	0		26APR06			⚠ AVAIL: Bnch Lngth Cntrls Eq Ready for Rack Integ			
LN02060440	Write Documentation - Stoppers	5	04MAY06	10MAY06			⚠ Write Documentation - Stoppers			
LN02060446	Integrate and Test Stopper Controls	26	11MAY06	16JUN06			⚠ Integrate and Test Stopper Controls			
LN02060844	AVAIL: Bm Lss Mon Cntrls Eq Ready for Rack Integ	0		19MAY06			⚠ AVAIL: Bm Lss Mon Cntrls Eq Ready for Rack Integ			
LN02060654	AVAIL: E/O Diag Cntrls Eq Ready for Rack Integ	0		25MAY06			⚠ AVAIL: E/O Diag Cntrls Eq Ready for Rack Integ			
LN02060448	AVAIL: Stoppers Cntrls Eq Ready for Rack Integ	0		16JUN06			⚠ AVAIL: Stoppers Cntrls Eq Ready for Rack Integ			
LN02062237	Integrate and Test RF BPMs	6	22JUN06*	29JUN06			⚠ Integrate and Test RF BPMs			
LN02062244	AVAIL: BPM Cntrls Eq Ready for Rack Integ	0		29JUN06			⚠ AVAIL: BPM Cntrls Eq Ready for Rack Integ			
LN02061126	COMP: Controls Design - Protection Collimators	0		03JUL06			⚠ COMP: Controls Design - Protection Collimators			
LN02061129	Movable Collimator Hardware	20	05JUL06	01AUG06			⚠ Movable Collimator Hardware			
LN02061165	Build Collimator H/W	21	05JUL06	02AUG06			⚠ Build Collimator H/W			
LN02061166	Write Software - Prot Collimator	20	03AUG06	30AUG06			⚠ Write Software - Prot Collimator			
LN02061168	Write Documentation - Prot Collimator	5	31AUG06	07SEP06			⚠ Write Documentation - Prot Collimator			
LN02061175	Integrate and Test	26	08SEP06	13OCT06			⚠ Integrate and Test			
LN02060900	Receive System Requirements	5	03OCT06	09OCT06			⚠ Receive System Requirements			
LN02061000	Receive System Requirements	5	03OCT06	09OCT06			⚠ Receive System Requirements			
LN02060925	Design Single Beam Dump	45	10OCT06	13DEC06			⚠ Design Single Beam Dump			
LN02061025	Design E Beam Dump	61	10OCT06	22JAN07			⚠ Design E Beam Dump			
LN02061176	AVAIL: Prot Coll Cntrls Eq Ready for Rack Integ	0		13OCT06			⚠ AVAIL: Prot Coll Cntrls Eq Ready for Rack Integ			
LN02060926	COMP: Controls Design - Single Beam Dump	0		13DEC06			⚠ COMP: Controls Design - Single Beam Dump			
LN02060929	Single Beam Dump Hardware	20	14DEC06	26JAN07			⚠ Single Beam Dump Hardware			
LN02061026	COMP: Controls Design - E Beam Dump	0		22JAN07			⚠ COMP: Controls Design - E Beam Dump			
LN02061028	Procure E-Beam Dump Controls Hdwr/Eq	20	23JAN07	20FEB07			⚠ Procure E-Beam Dump Controls Hdwr/Eq			
LN02061033	Build E Beam Dump H/W	21	23JAN07	21FEB07			⚠ Build E Beam Dump H/W			
LN02060938	Write Software - Single Beam Dump	20	29JAN07	26FEB07			⚠ Write Software - Single Beam Dump			
LN02060937	Build Single Beam Dump H/W	21	29JAN07	27FEB07			⚠ Build Single Beam Dump H/W			
LN02061034	Write Software - E Beam Dump	20	22FEB07	21MAR07			⚠ Write Software - E Beam Dump			
LN02060940	Write Documentation - Single Beam Dump	5	27FEB07	05MAR07			⚠ Write Documentation - Single Beam Dump			
LN02060947	Integrate and Test Single Beam Dump	12	06MAR07	21MAR07			⚠ Integrate and Test Single Beam Dump			
LN02060948	AVAIL: Sngl Bm DmpCntrls Eq Ready for Rack Integ	0		21MAR07			⚠ AVAIL: Sngl Bm DmpCntrls Eq Ready for Rack Integ			
LN02061036	Write Documentation - E Beam Dump	5	22MAR07	28MAR07			⚠ Write Documentation - E Beam Dump			
LN02061043	Integrate and Test	26	29MAR07	03MAY07			⚠ Integrate and Test			
LN02061044	AVAIL: E Bm Dmp Cntrls Eq Ready for Rack Integ	0		03MAY07			⚠ AVAIL: E Bm Dmp Cntrls Eq Ready for Rack Integ			

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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
1.03.02.08 Controls - Timing										
LN02080025	Prep Bid Pak - Linac Timing Modules	5	20SEP05*	26SEP05			⚠️			
LN0208	LINAC TIMING SUMMARY	56	20SEP05	08DEC05			⚠️			
LN02080030	RELEASE: RFP - Linac Timing Modules	0		26SEP05			◆			
LN02080035	Vendors Prep Proposals - Timing Cntrls Equipment	5	27SEP05	03OCT05			⚠️			
LN02080020	Construction Funds Available - Begin Procurement	0	03OCT05				◆			
LN02080040	RCV: Vendor Proposals	0		03OCT05			◆			
LN02080045	Evaluate Vendor Proposals	5	04OCT05	10OCT05			⚠️			
LN02080060	Vendor Fab & Assy - Timing modules (SLC to VME)	40	12OCT05	08DEC05			⚠️			
LN02080065	RCV: Linac Timing Equip/Material Ready for Integ	0		08DEC05			◆			
1.03.02.09 Controls - Vacuum										
LN02090070	Construction Funds Available - Begin Procurement	0	03OCT05				◆			
LN02090000	Receive System Requirements	5	03OCT05	07OCT05			⚠️			
LN02090102	Vendors Prep Proposals - Vacuum Gauge Chassis	5	03OCT05	07OCT05			⚠️			
LN02090122	Vendors Prep Proposals - Vacuum Gauge Chassis	5	03OCT05	07OCT05			⚠️			
LN0209	VACUUM CONTROLS SUMMARY	156	03OCT05	30MAY06			⚠️			
LN02090104	RCV: Vendor Proposals - Vacuum Gauge Chassis (4)	0		07OCT05			◆			
LN02090124	RCV: Vendor Proposals - Vacuum Gauge Chassis (4)	0		07OCT05			◆			
LN02090061	Design - Vacuum Instrumentation	70	10OCT05	02FEB06			⚠️			
LN02090065	COMP: Controls Design - Linac Vacuum	0		02FEB06			◆			
LN02090078	Prep Bid Pak - Vac H/W	5	03FEB06	09FEB06			⚠️			
LN02090196	Procure Vacuum Instrumentation & Iterlocks H/W	20	03FEB06	03MAR06			⚠️			
LN02090080	RELEASE: RFP - Vacuum Valve Chassis (4)	0		09FEB06			◆			
LN02090082	Vendors Prep Proposals - Vacuum Valve Chassis	5	10FEB06	16FEB06			⚠️			
LN02090084	RCV: Vendor Proposals - Vacuum Valve Chassis	0		16FEB06			◆			
LN02090086	Evaluate Vendor Proposals - Vac H/W	5	17FEB06	24FEB06			⚠️			
LN02090090	Vendor Fab & Assy - Vacuum Valve Chassis (4)	20	28FEB06	27MAR06			⚠️			
LN02090092	RCV: from Vendor - Vacuum Valve Chassis (4)	0		27MAR06			◆			
LN02090112	RCV: from Vendor - Vacuum Gauge Chassis (4)	0		27MAR06			◆			
LN02090132	RCV: from Vendor - Vacuum Pump 4 Ch. Chassis (4)	0		27MAR06			◆			
LN02090200	RCV: Procured Equipment	0		27MAR06			◆			
LN02090205	Build Vacuum Control H/W	6	28MAR06	04APR06			⚠️			
LN02090215	Write Software - Vac Controls	5	05APR06	11APR06			⚠️			
LN02090220	Write Documentation - Vac Controls	5	12APR06	18APR06			⚠️			
LN02090226	Integrate & Test	29	19APR06	30MAY06			⚠️			
LN02090235	AVAIL: Vac Controls Equip Ready for Install	0		30MAY06			◆			

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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
1.03.02.10 Software & Controls Infrastructure										
LN02100500	Finalize Specification Requirements - Computer	1	11JUL05*	11JUL05			⚠️Finalize Specification Requirements - Computer			
LN02100400	Supervise Equipment Installation	30	11JUL05*	19AUG05			⚠️Supervise Equipment Installation			
LN021004	DATA COMMUNICATIONS SUMMARY	294	11JUL05	20SEP06			📊DATA COMMUNICATIONS SUMMARY			
LN021005	COMPUTERS & CRATES SUMMARY	354	11JUL05	15DEC06			📊COMPUTERS & CRATES SUMMARY			
LN02100504	Design VME Crates, Control & Support Modules	111	12JUL05	16DEC05			⚠️Design VME Crates, Control & Support Modules			
LN02100502	Provide Hardware Engineer & Systems Integ Sup	353	12JUL05	15DEC06			📊Provide Hardware Engineer & Systems Integ Sup			
LN02100405	Upgrade/Establish BDF	1	22AUG05	22AUG05			⚠️Upgrade/Establish BDF			
LN02100410	SEM Install Wall Board	10	23AUG05	06SEP05			⚠️SEM Install Wall Board			
LN02100415	SEM Install Two 20 A Circuits	20	07SEP05	04OCT05			⚠️SEM Install Two 20 A Circuits			
LN02100508	Construction Funds Available - Begin Procurement	0	03OCT05				💎Construction Funds Available - Begin Procurement			
LN02100420	Single Mode Fiber Installation	1	05OCT05	05OCT05			⚠️Single Mode Fiber Installation			
LN02100425	Procure Singlemode Fiber	50	06OCT05	16DEC05			📊Procure Singlemode Fiber			
LN02100506	COMP: Computers & Crates Design	0		16DEC05			💎COMP: Computers & Crates Design			
LN02100510	Prep Bid Pak - VME Crates/IOCs/Interface Chassis	5	03JAN06	09JAN06			⚠️Prep Bid Pak - VME Crates/IOCs/Interface Chassis			
LN02100530	Prep Bid Pak - VME Crates for BPMs	5	03JAN06	09JAN06			⚠️Prep Bid Pak - VME Crates for BPMs			
LN02100550	Prep Bid Pak -VME Crates/Cntrl/Supt Chassis	5	03JAN06	09JAN06			⚠️Prep Bid Pak -VME Crates/Cntrl/Supt Chassis			
LN02100430	Fiber Cabling Installation	20	03JAN06	31JAN06			⚠️Fiber Cabling Installation			
LN02100620	Procure Cableplant	60	03JAN06	29MAR06			📊Procure Cableplant			
LN02100630	Procure VME System I/O Distribution Cableplant	60	03JAN06	29MAR06			📊Procure VME System I/O Distribution Cableplant			
LN02100512	RELEASE: RFP - VME Crates/IOCs/Interface Chassis	0		09JAN06*			💎RELEASE: RFP - VME Crates/IOCs/Interface Chassis			
LN02100532	RELEASE: RFP - VME Crates for BPMs	0		09JAN06*			💎RELEASE: RFP - VME Crates for BPMs			
LN02100552	RELEASE: RFP -VME Crates/Cntrl/Supt Chassis	0		09JAN06*			💎RELEASE: RFP -VME Crates/Cntrl/Supt Chassis			
LN02100514	Vendors Prep Proposals - Cntrls Computers	5	10JAN06	17JAN06			⚠️Vendors Prep Proposals - Cntrls Computers			
LN02100534	Vendors Prep Proposals - VME Crates for BPMs	5	10JAN06	17JAN06			⚠️Vendors Prep Proposals - VME Crates for BPMs			
LN02100554	Vendors Prep Proposals -VME Crates/Cntrl/Supt Ch	5	10JAN06	17JAN06			⚠️Vendors Prep Proposals -VME Crates/Cntrl/Supt Ch			
LN02100516	RCV: Proposl - VME Crates/IOCs/Interface Chassis	0		17JAN06			💎RCV: Proposl - VME Crates/IOCs/Interface Chassis			
LN02100536	RCV: Proposals - VME Crates for BPMs	0		17JAN06			💎RCV: Proposals - VME Crates for BPMs			
LN02100556	RCV: Proposals -VME Crates/Cntrl/Supt Chassis	0		17JAN06			💎RCV: Proposals -VME Crates/Cntrl/Supt Chassis			
LN02100518	Evaluate Vendors Proposals	5	18JAN06	24JAN06			⚠️Evaluate Vendors Proposals			
LN02100538	Evaluate Vendors Proposals	5	18JAN06	24JAN06			⚠️Evaluate Vendors Proposals			
LN02100558	Evaluate Vendors Proposals	5	18JAN06	24JAN06			⚠️Evaluate Vendors Proposals			
LN02100522	Vendor Fab/Assy VME Crates/IOCs/Interface Chssis	60	26JAN06	20APR06			📊Vendor Fab/Assy VME Crates/IOCs/Interface Chssis			
LN02100542	Vendor Fab & Assy - VME Crates for BPMs	60	26JAN06	20APR06			📊Vendor Fab & Assy - VME Crates for BPMs			
LN02100562	Vendor Fab & Assy -VME Crates/Cntrl/Supt Chassis	60	26JAN06	20APR06			📊Vendor Fab & Assy -VME Crates/Cntrl/Supt Chassis			
LN02100435	Fiber Termination	60	01FEB06	26APR06			📊Fiber Termination			
LN02100625	RCV: Cableplant	0		29MAR06			💎RCV: Cableplant			

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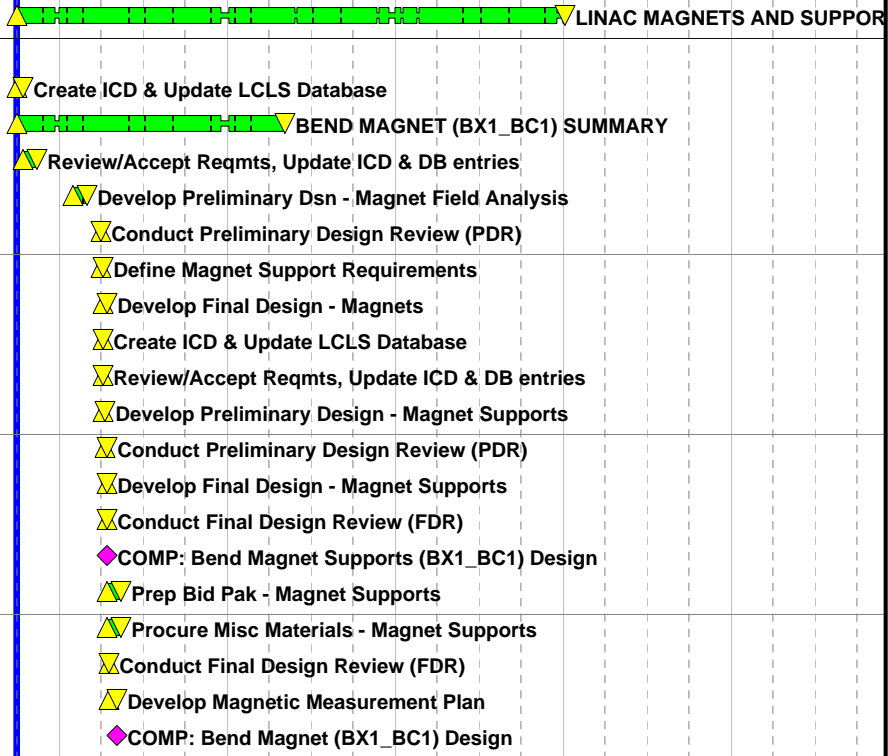
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▶ Early Bar
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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	2004	2005	2006	2007	2008	2009
					LN02100635	RCV: VME System Intra-Rack Dist I/O General Cab	0		29MAR06	
LN02100524	RCV: VME Crates/IOC's/Interface Chassis (3VME-7	0		20APR06			◆ RCV: VME Crates/IOC's/Interface Chassis (3VME-7			
LN02100544	RCV: from Vendors VME Crates for BPMs	0		20APR06			◆ RCV: from Vendors VME Crates for BPMs			
LN02100564	RCV: VME Crates, Control & Support Chassis	0		20APR06			◆ RCV: VME Crates, Control & Support Chassis			
LN02100640	Assemble and Integrate Equipment	30	21APR06	02JUN06			▲ Assemble and Integrate Equipment			
LN02100440	Desktop Cabling Installation	1	27APR06	27APR06			▲ Desktop Cabling Installation			
LN02100445	Cabling Installation in Ground & Sub Ground Loc	20	28APR06	25MAY06			▲ Cabling Installation in Ground & Sub Ground Loc			
LN02100450	Cable Termination	20	26MAY06	23JUN06			▲ Cable Termination			
LN02100645	Conduct Pre-Install Testing	30	05JUN06	17JUL06			▲ Conduct Pre-Install Testing			
LN02100455	Desktop Circuit Activation	1	26JUN06	26JUN06			▲ Desktop Circuit Activation			
LN02100460	Telcom to Provide Phone & Activate Circuits	20	27JUN06	25JUL06			▲ Telcom to Provide Phone & Activate Circuits			
LN02100650	AVAIL: Computers & Crates Ready	0		17JUL06			◆ AVAIL: Computers & Crates Ready			
LN02100465	Procure Cisco 3550-24 Hubs (6ea)	20	26JUL06	22AUG06			▲ Procure Cisco 3550-24 Hubs (6ea)			
LN02100470	Hub Installation & Data Circuit Activation	20	23AUG06	20SEP06			▲ Hub Installation & Data Circuit Activation			
LN02100475	AVAIL: Data Comm Circuits Active & Ready	0		20SEP06			◆ AVAIL: Data Comm Circuits Active & Ready			

1.03.03 Linac Magnets & Supports

LN03	LINAC MAGNETS AND SUPPORTS SUMMARY	784	01OCT04	04JAN08
1.03.03.01 Bend Magnet (BX1_BC1)				
LN03010005	Create ICD & Update LCLS Database	10	01OCT04	14OCT04
LN0301	BEND MAGNET (BX1_BC1) SUMMARY	384	01OCT04	05MAY06
LN03010010	Review/Accept Reqmts, Update ICD & DB entries	21	15OCT04	12NOV04
LN03010025	Develop Preliminary Dsn - Magnet Field Analysis	20	01FEB05*	01MAR05
LN03010030	Conduct Preliminary Design Review (PDR)	1	01APR05*	01APR05
LN03010245	Define Magnet Support Requirements	2	01APR05*	04APR05
LN03010040	Develop Final Design - Magnets	10	04APR05	15APR05
LN03010250	Create ICD & Update LCLS Database	1	05APR05	05APR05
LN03010255	Review/Accept Reqmts, Update ICD & DB entries	1	06APR05	06APR05
LN03010260	Develop Preliminary Design - Magnet Supports	2	07APR05	08APR05
LN03010270	Conduct Preliminary Design Review (PDR)	1	11APR05	11APR05
LN03010280	Develop Final Design - Magnet Supports	2	12APR05	13APR05
LN03010290	Conduct Final Design Review (FDR)	1	14APR05	14APR05
LN03010300	COMP: Bend Magnet Supports (BX1_BC1) Design	0		14APR05
LN03010305	Prep Bid Pak - Magnet Supports	20	15APR05	12MAY05
LN03010360	Procure Misc Materials - Magnet Supports	20	15APR05	12MAY05
LN03010050	Conduct Final Design Review (FDR)	2	18APR05	19APR05
LN03010060	Develop Magnetic Measurement Plan	10	20APR05	03MAY05
LN03010065	COMP: Bend Magnet (BX1_BC1) Design	0		03MAY05



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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish							
					2004	2005	2006	2007	2008	2009	
LN03010130	Procure Misc Materials - Magnets	0	04MAY05	03MAY05		⚠ Procure Misc Materials - Magnets					
LN03010135	Disassemble Magnet	0	04MAY05	03MAY05		⚠ Disassemble Magnet					
LN03010145	Refurbish Magnet Coils	0	04MAY05	03MAY05		⚠ Refurbish Magnet Coils					
LN03010150	Assemble Magnets	0	04MAY05	03MAY05		⚠ Assemble Magnets					
LN03010160	Prep for and Paint Magnets (as required)	0	04MAY05	03MAY05		⚠ Prep for and Paint Magnets (as required)					
LN03010165	Perform Magnet Fiducialization (as required)	0	04MAY05	03MAY05		⚠ Perform Magnet Fiducialization (as required)					
LN03010170	Perform QC & Inspection - Magnets	0	04MAY05	03MAY05		⚠ Perform QC & Inspection - Magnets					
LN03010175	Perform Magnetic Measurement (as required)	0	04MAY05	03MAY05		⚠ Perform Magnetic Measurement (as required)					
LN03010070	Prep Bid Pak - Magnets	2	04MAY05	05MAY05		⚠ Prep Bid Pak - Magnets					
LN03010080	RELEASE: RFP - BX1_BC1 Bend Magnet	0		05MAY05		◆ RELEASE: RFP - BX1_BC1 Bend Magnet					
LN03010085	Vendors Prep Proposals - Magnets	40	06MAY05	01JUL05		⚠ Vendors Prep Proposals - Magnets					
LN03010315	RELEASE: RFP - Magnet Supports	0		12MAY05		◆ RELEASE: RFP - Magnet Supports					
LN03010365	Fabricate Magnet Supports	1	13MAY05	13MAY05		⚠ Fabricate Magnet Supports					
LN03010320	Vendors Prep Proposals - Magnet Supts	10	13MAY05	26MAY05		⚠ Vendors Prep Proposals - Magnet Supts					
LN03010370	Prep for, Clean & Plate Magnet Supts	0	16MAY05	13MAY05		⚠ Prep for, Clean & Plate Magnet Supts					
LN03010375	Prep for and Paint Magnet Supports (as required)	0	16MAY05	13MAY05		⚠ Prep for and Paint Magnet Supports (as required)					
LN03010380	Perform QC & Inspection on Magnets Supts	0	16MAY05	13MAY05		⚠ Perform QC & Inspection on Magnets Supts					
LN03010385	Assemble Magnet Supports	20	16MAY05	13JUN05		⚠ Assemble Magnet Supports					
LN03010325	RCV: Proposals from Vendors - Supts	0		26MAY05		◆ RCV: Proposals from Vendors - Supts					
LN03010330	Evaluate Vendor Proposals - Supports	1	27MAY05	27MAY05		⚠ Evaluate Vendor Proposals - Supports					
LN03010340	Vendor Fab 1st Lot - Supts	30	01JUN05	13JUL05		⚠ Vendor Fab 1st Lot - Supts					
LN03010390	Hand-off to Pre-Instl Qual Testing	0		13JUN05		◆ Hand-off to Pre-Instl Qual Testing					
LN03010395	Perform Pre-Installation Qualification - Support	1	14JUN05	14JUN05		⚠ Perform Pre-Installation Qualification - Support					
LN03010090	RCV: Proposals from Vendors - Magnet	0		01JUL05		◆ RCV: Proposals from Vendors - Magnet					
LN03010095	Evaluate Vendor Proposals - Magnets	2	05JUL05	06JUL05		⚠ Evaluate Vendor Proposals - Magnets					
LN03010105	Vendor Fab 1st Lot - Magnets	120	08JUL05	11JAN06		⚠ Vendor Fab 1st Lot - Magnets					
LN03010345	RCV: 1st Lot Magnet Supports from Vendor	0		13JUL05		◆ RCV: 1st Lot Magnet Supports from Vendor					
LN03010355	RCV: Remaining Magnet Supts from Vendor	0		13JUL05		◆ RCV: Remaining Magnet Supts from Vendor					
LN03010400	AVAIL: BX1_BC1 Magnet Supts Ready for Instl	0		13JUL05		◆ AVAIL: BX1_BC1 Magnet Supts Ready for Instl					
LN03010350	Vendor Fab Remaining Lot - Supts	0	14JUL05	13JUL05		⚠ Vendor Fab Remaining Lot - Supts					
LN03010230	Hand-off to Pre-Instl Qual Testing	0		30SEP05		◆ Hand-off to Pre-Instl Qual Testing					
LN03010180	Procure Misc Materials - Magnets	0	03OCT05	30SEP05		⚠ Procure Misc Materials - Magnets					
LN03010185	Fab Tooling	0	03OCT05	30SEP05		⚠ Fab Tooling					
LN03010190	Fab Magnet Core	0	03OCT05	30SEP05		⚠ Fab Magnet Core					
LN03010195	Fab Magnet Coils	0	03OCT05	30SEP05		⚠ Fab Magnet Coils					
LN03010205	Prep for and Paint Magnets (as required)	0	03OCT05	30SEP05		⚠ Prep for and Paint Magnets (as required)					
LN03010210	Assemble Magnets	0	03OCT05	30SEP05		⚠ Assemble Magnets					

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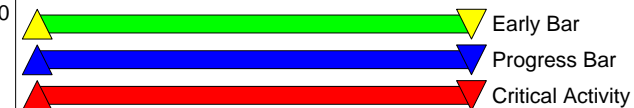
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▶ Early Bar
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▶ Critical Activity

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
LN03010215	Perform Magnet Fiducialization (as required)	0	03OCT05	30SEP05			⚠ Perform Magnet Fiducialization (as required)			
LN03010220	Perform QC & Inspection - Magnets	0	03OCT05	30SEP05			⚠ Perform QC & Inspection - Magnets			
LN03010225	Perform Magnetic Measurement (as required)	0	03OCT05	30SEP05			⚠ Perform Magnetic Measurement (as required)			
LN03010235	Perform Magnet Pre-Instlation Qual	2	03OCT05	04OCT05			⚠ Perform Magnet Pre-Instlation Qual			
LN03010110	RCV: 1st Lot Magnets from Vendor	0		11JAN06			◆ RCV: 1st Lot Magnets from Vendor			
LN03010115	Vendor Fab Remaining Lot - Magnets	80	12JAN06	05MAY06			▲ Vendor Fab Remaining Lot - Magnets			
LN03010120	RCV: Remaining Magnets from Vendor	0		05MAY06			◆ RCV: Remaining Magnets from Vendor			
LN03010240	AVAIL: BX1_BC1 Magnets Ready for Instl	0		05MAY06			◆ AVAIL: BX1_BC1 Magnets Ready for Instl			
1.03.03.02 Bend Magnet (BX3_LTU)										
LN03020000	Define Magnet Requirements	5	27OCT05	02NOV05			⚠ Define Magnet Requirements			
LN0302	Bend Magnet (BX3_LTU) SUMMARY	384	27OCT05	04JUN07			▲ Bend Magnet (BX3_LTU) SUMMARY			
LN03020600	Receive & Review Safety Cover Requirements	0	03NOV05	09NOV05			⚠ Receive & Review Safety Cover Requirements			
LN03020005	Create ICD & Update LCLS Database	10	03NOV05	16NOV05			⚠ Create ICD & Update LCLS Database			
LN03020605	Develop Magnet Safety Cover Design	40	10NOV05	24JAN06			▲ Develop Magnet Safety Cover Design			
LN03020010	Review/Accept Reqmts, Update ICD & DB entries	2	17NOV05	18NOV05			⚠ Review/Accept Reqmts, Update ICD & DB entries			
LN03020015	Develop Preliminary Design - Magnet	5	21NOV05	29NOV05			⚠ Develop Preliminary Design - Magnet			
LN03020025	Develop Preliminary Dsn - Magnet Field Analysis	10	30NOV05	13DEC05			⚠ Develop Preliminary Dsn - Magnet Field Analysis			
LN03020030	Conduct Preliminary Design Review (PDR)	1	14DEC05	14DEC05			⚠ Conduct Preliminary Design Review (PDR)			
LN03020040	Develop Final Design - Magnets	2	15DEC05	16DEC05			⚠ Develop Final Design - Magnets			
LN03020050	Conduct Final Design Review (FDR)	2	03JAN06	04JAN06			⚠ Conduct Final Design Review (FDR)			
LN03020060	Develop Magnetic Measurement Plan	1	05JAN06	05JAN06			⚠ Develop Magnetic Measurement Plan			
LN03020065	COMP: Bend Magnet (BX3_LTU) Design	0		05JAN06			◆ COMP: Bend Magnet (BX3_LTU) Design			
LN03020080	RELEASE: RFP - BX3_LTU_() Bend Magnet	0		05JAN06			◆ RELEASE: RFP - BX3_LTU_() Bend Magnet			
LN03020090	RCV: Proposals from Vendors - Magnet	0		05JAN06			◆ RCV: Proposals from Vendors - Magnet			
LN03020110	RCV: 1st Lot Magnets from Vendor	0		05JAN06			◆ RCV: 1st Lot Magnets from Vendor			
LN03020120	RCV: Remaining Magnets from Vendor	0		05JAN06			◆ RCV: Remaining Magnets from Vendor			
LN03020125	Hand-off to Pre-Instl Qual Testing	0		05JAN06			◆ Hand-off to Pre-Instl Qual Testing			
LN03020230	Hand-off to Pre-Instl Qual Testing	0		05JAN06			◆ Hand-off to Pre-Instl Qual Testing			
LN03020070	Prep Bid Pak - Magnets	0	06JAN06	05JAN06			⚠ Prep Bid Pak - Magnets			
LN03020085	Vendors Prep Proposals - Magnets	0	06JAN06	05JAN06			⚠ Vendors Prep Proposals - Magnets			
LN03020095	Evaluate Vendor Proposals - Magnets	0	06JAN06	05JAN06			⚠ Evaluate Vendor Proposals - Magnets			
LN03020105	Vendor Fab 1st Lot - Magnets	0	06JAN06	05JAN06			⚠ Vendor Fab 1st Lot - Magnets			
LN03020115	Vendor Fab Remaining Lot - Magnets	0	06JAN06	05JAN06			⚠ Vendor Fab Remaining Lot - Magnets			
LN03020180	Procure Misc Materials - Magnets	0	06JAN06	05JAN06			⚠ Procure Misc Materials - Magnets			
LN03020185	Fab Tooling	0	06JAN06	05JAN06			⚠ Fab Tooling			
LN03020190	Fab Magnet Core	0	06JAN06	05JAN06			⚠ Fab Magnet Core			
LN03020195	Fab Magnet Coils	0	06JAN06	05JAN06			⚠ Fab Magnet Coils			



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					2004	2005	2006	2007	2008	2009
LN03020205	Prep for and Paint Magnets (as required)	0	06JAN06	05JAN06			⚠	Prep for and Paint Magnets (as required)		
LN03020210	Assemble Magnets	0	06JAN06	05JAN06			⚠	Assemble Magnets		
LN03020215	Perform Magnet Fiducialization (as required)	0	06JAN06	05JAN06			⚠	Perform Magnet Fiducialization (as required)		
LN03020220	Perform QC & Inspection - Magnets	0	06JAN06	05JAN06			⚠	Perform QC & Inspection - Magnets		
LN03020225	Perform Magnetic Measurement (as required)	0	06JAN06	05JAN06			⚠	Perform Magnetic Measurement (as required)		
LN03020610	COMP: Magnet Safety Design	0		24JAN06			◆	COMP: Magnet Safety Design		
LN03020620	RCV: Magnet Safety Cover Material	0		02OCT06			◆	RCV: Magnet Safety Cover Material		
LN03020630	REQD: Reusable Safety Covers for Refurbishment	0		02OCT06			◆	REQD: Reusable Safety Covers for Refurbishment		
LN03020615	Procure Magnet Safety Cover Material	0	03OCT06	02OCT06			⚠	Procure Magnet Safety Cover Material		
LN03020625	Fab and Assemble New Magnet Safety Covers (0ea)	0	03OCT06	02OCT06			⚠	Fab and Assemble New Magnet Safety Covers (0ea)		
LN03020245	Define Magnet Support Requirements	2	03OCT06	04OCT06			⚠	Define Magnet Support Requirements		
LN03020130	Procure Misc Materials - Magnets	20	03OCT06	30OCT06			⚠	Procure Misc Materials - Magnets		
LN03020635	Refurbish Reusable Safety Covers (5ea)	120	03OCT06	09APR07			⚠	Refurbish Reusable Safety Covers (5ea)		
LN03020250	Create ICD & Update LCLS Database	1	05OCT06	05OCT06			⚠	Create ICD & Update LCLS Database		
LN03020255	Review/Accept Reqmts, Update ICD & DB entries	1	06OCT06	06OCT06			⚠	Review/Accept Reqmts, Update ICD & DB entries		
LN03020260	Develop Preliminary Design - Magnet Supports	6	09OCT06	16OCT06			⚠	Develop Preliminary Design - Magnet Supports		
LN03020270	Conduct Preliminary Design Review (PDR)	2	17OCT06	18OCT06			⚠	Conduct Preliminary Design Review (PDR)		
LN03020280	Develop Final Design - Magnet Supports	4	19OCT06	24OCT06			⚠	Develop Final Design - Magnet Supports		
LN03020290	Conduct Final Design Review (FDR)	2	25OCT06	26OCT06			⚠	Conduct Final Design Review (FDR)		
LN03020300	COMP: Bend Magnet Supports (BX3_LTU) Design	0		26OCT06			◆	COMP: Bend Magnet Supports (BX3_LTU) Design		
LN03020305	Prep Bid Pak - Magnet Supports	1	27OCT06	27OCT06			⚠	Prep Bid Pak - Magnet Supports		
LN03020315	RELEASE: RFP - Magnet Supports	0		27OCT06			◆	RELEASE: RFP - Magnet Supports		
LN03020360	Procure Misc Materials - Magnet Supports	20	27OCT06	27NOV06			⚠	Procure Misc Materials - Magnet Supports		
LN03020320	Vendors Prep Proposals - Magnet Supts	20	30OCT06	28NOV06			⚠	Vendors Prep Proposals - Magnet Supts		
LN03020135	Disassemble Magnet	25	31OCT06	06DEC06			⚠	Disassemble Magnet		
LN03020325	RCV: Proposals from Vendors - Supts	0		28NOV06			◆	RCV: Proposals from Vendors - Supts		
LN03020365	Fabricate Magnet Supports	6	28NOV06	05DEC06			⚠	Fabricate Magnet Supports		
LN03020330	Evaluate Vendor Proposals - Supports	1	29NOV06	29NOV06			⚠	Evaluate Vendor Proposals - Supports		
LN03020340	Vendor Fab 1st Lot - Supts	20	01DEC06	12JAN07			⚠	Vendor Fab 1st Lot - Supts		
LN03020370	Prep for, Clean & Plate Magnet Supts	0	06DEC06	05DEC06			⚠	Prep for, Clean & Plate Magnet Supts		
LN03020375	Prep for and Paint Magnet Supports (as required)	0	06DEC06	05DEC06			⚠	Prep for and Paint Magnet Supports (as required)		
LN03020380	Perform QC & Inspection on Magnets Supts	6	06DEC06	13DEC06			⚠	Perform QC & Inspection on Magnets Supts		
LN03020145	Refurbish Magnet Coils	25	07DEC06	26JAN07			⚠	Refurbish Magnet Coils		
LN03020385	Assemble Magnet Supports	24	14DEC06	01FEB07			⚠	Assemble Magnet Supports		
LN03020345	RCV: 1st Lot Magnet Supports from Vendor	0		12JAN07			◆	RCV: 1st Lot Magnet Supports from Vendor		
LN03020355	RCV: Remaining Magnet Supts from Vendor	0		12JAN07			◆	RCV: Remaining Magnet Supts from Vendor		
LN03020350	Vendor Fab Remaining Lot - Supts	0	16JAN07	12JAN07			⚠	Vendor Fab Remaining Lot - Supts		



**LCLS
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Start Date 01JUN01
 Finish Date 31MAR09
 Data Date 01OCT04
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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
LN03020150	Assemble Magnets	42	29JAN07	28MAR07				▲▼ Assemble Magnets		
LN03020390	Hand-off to Pre-Instl Qual Testing	0		01FEB07				◆ Hand-off to Pre-Instl Qual Testing		
LN03020395	Perform Pre-Installation Qualification - Support	2	02FEB07	05FEB07				▲▼ Perform Pre-Installation Qualification - Support		
LN03020160	Prep for and Paint Magnets (as required)	25	29MAR07	02MAY07				▲▼ Prep for and Paint Magnets (as required)		
LN03020640	AVAIL: Magnet Safety Covers Ready for Instl	0		09APR07				◆ AVAIL: Magnet Safety Covers Ready for Instl		
LN03020165	Perform Magnet Fiducialization (as required)	0	03MAY07	02MAY07				▲▼ Perform Magnet Fiducialization (as required)		
LN03020170	Perform QC & Inspection - Magnets	0	03MAY07	02MAY07				▲▼ Perform QC & Inspection - Magnets		
LN03020175	Perform Magnetic Measurement (as required)	20	03MAY07	31MAY07				▲▼ Perform Magnetic Measurement (as required)		
LN03020235	Perform Magnet Pre-Instlation Qual	2	01JUN07	04JUN07				▲▼ Perform Magnet Pre-Instlation Qual		
LN03020240	AVAIL: BX3_LTU Magnets Ready for Instl	0		04JUN07				◆ AVAIL: BX3_LTU Magnets Ready for Instl		
LN03020400	AVAIL: BX3_LTU Magnet Supts Ready for Instl	0		04JUN07				◆ AVAIL: BX3_LTU Magnet Supts Ready for Instl		
1.03.03.03 Bend Magnet (BX2_BC2)										
LN03030005	Create ICD & Update LCLS Database	10	01OCT04	14OCT04				▲▼ Create ICD & Update LCLS Database		
LN03030010	Review/Accept Reqmts, Update ICD & DB entries	21	01OCT04	29OCT04				▲▼ Review/Accept Reqmts, Update ICD & DB entries		
LN03030025	Develop Preliminary Dsn - Magnet Field Analysis	94*	01OCT04	01MAR05				▲▼ Develop Preliminary Dsn - Magnet Field Analysis		
LN0303	BEND MAGNET (BX2_BC2) SUMMARY	512	01OCT04	06NOV06				▲▼ BEND MAGNET (BX2_BC2) SUMMARY		
LN03030030	Conduct Preliminary Design Review (PDR)	1	02MAY05*	02MAY05				▲▼ Conduct Preliminary Design Review (PDR)		
LN03030245	Define Magnet Support Requirements	2	02MAY05*	03MAY05				▲▼ Define Magnet Support Requirements		
LN03030040	Develop Final Design - Magnets	10	03MAY05	16MAY05				▲▼ Develop Final Design - Magnets		
LN03030250	Create ICD & Update LCLS Database	1	04MAY05	04MAY05				▲▼ Create ICD & Update LCLS Database		
LN03030255	Review/Accept Reqmts, Update ICD & DB entries	21	05MAY05	03JUN05				▲▼ Review/Accept Reqmts, Update ICD & DB entries		
LN03030050	Conduct Final Design Review (FDR)	2	17MAY05	18MAY05				▲▼ Conduct Final Design Review (FDR)		
LN03030060	Develop Magnetic Measurement Plan	10	19MAY05	02JUN05				▲▼ Develop Magnetic Measurement Plan		
LN03030065	COMP: Bend Magnet (BX2_BC2) Design	0		02JUN05				◆ COMP: Bend Magnet (BX2_BC2) Design		
LN03030130	Procure Misc Materials - Magnets	0	03JUN05	02JUN05				▲▼ Procure Misc Materials - Magnets		
LN03030180	Procure Misc Materials - Magnets	0	03JUN05	02JUN05				▲▼ Procure Misc Materials - Magnets		
LN03030185	Fab Tooling	0	03JUN05	02JUN05				▲▼ Fab Tooling		
LN03030190	Fab Magnet Core	0	03JUN05	02JUN05				▲▼ Fab Magnet Core		
LN03030195	Fab Magnet Coils	0	03JUN05	02JUN05				▲▼ Fab Magnet Coils		
LN03030205	Prep for and Paint Magnets (as required)	0	03JUN05	02JUN05				▲▼ Prep for and Paint Magnets (as required)		
LN03030210	Assemble Magnets	0	03JUN05	02JUN05				▲▼ Assemble Magnets		
LN03030215	Perform Magnet Fiducialization (as required)	0	03JUN05	02JUN05				▲▼ Perform Magnet Fiducialization (as required)		
LN03030220	Perform QC & Inspection - Magnets	0	03JUN05	02JUN05				▲▼ Perform QC & Inspection - Magnets		
LN03030225	Perform Magnetic Measurement (as required)	0	03JUN05	02JUN05				▲▼ Perform Magnetic Measurement (as required)		
LN03030135	Disassemble Magnet	1	03JUN05	03JUN05				▲▼ Disassemble Magnet		
LN03030070	Prep Bid Pak - Magnets	2	03JUN05	06JUN05				▲▼ Prep Bid Pak - Magnets		
LN03030080	RELEASE: RFP - BX2_BC2 Bend Magnet	0		06JUN05				◆ RELEASE: RFP - BX2_BC2 Bend Magnet		

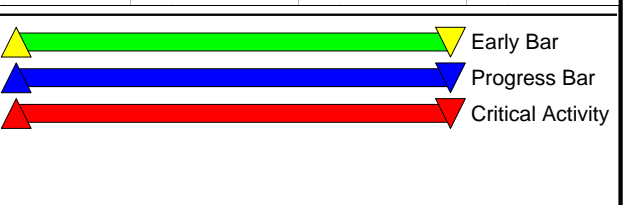
Start Date 01JUN01
Finish Date 31MAR09
Data Date 01OCT04
Run Date 29APR05 13:41

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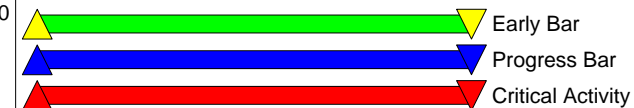
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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish							
					2004	2005	2006	2007	2008	2009	
LN03030145	Refurbish Magnet Coils	1	06JUN05	06JUN05		⚠ Refurbish Magnet Coils					
LN03030260	Develop Preliminary Design - Magnet Supports	1	06JUN05	06JUN05		⚠ Develop Preliminary Design - Magnet Supports					
LN03030150	Assemble Magnets	0	07JUN05	06JUN05		⚠ Assemble Magnets					
LN03030160	Prep for and Paint Magnets (as required)	0	07JUN05	06JUN05		⚠ Prep for and Paint Magnets (as required)					
LN03030165	Perform Magnet Fiducialization (as required)	0	07JUN05	06JUN05		⚠ Perform Magnet Fiducialization (as required)					
LN03030170	Perform QC & Inspection - Magnets	0	07JUN05	06JUN05		⚠ Perform QC & Inspection - Magnets					
LN03030175	Perform Magnetic Measurement (as required)	0	07JUN05	06JUN05		⚠ Perform Magnetic Measurement (as required)					
LN03030270	Conduct Preliminary Design Review (PDR)	1	07JUN05	07JUN05		⚠ Conduct Preliminary Design Review (PDR)					
LN03030085	Vendors Prep Proposals - Magnets	60	07JUN05	30AUG05		⚠ Vendors Prep Proposals - Magnets					
LN03030280	Develop Final Design - Magnet Supports	15	08JUN05	28JUN05		⚠ Develop Final Design - Magnet Supports					
LN03030290	Conduct Final Design Review (FDR)	1	29JUN05	29JUN05		⚠ Conduct Final Design Review (FDR)					
LN03030300	COMP: Bend Magnet Supports (BX2_BC2) Design	0		29JUN05		◆ COMP: Bend Magnet Supports (BX2_BC2) Design					
LN03030090	RCV: Proposals from Vendors - Magnet	0		30AUG05		◆ RCV: Proposals from Vendors - Magnet					
LN03030095	Evaluate Vendor Proposals - Magnets	2	31AUG05	01SEP05		⚠ Evaluate Vendor Proposals - Magnets					
LN03030105	Vendor Fab 1st Lot - Magnets	120	06SEP05	13MAR06		⚠ Vendor Fab 1st Lot - Magnets					
LN03030110	RCV: 1st Lot Magnets from Vendor	0		13MAR06		◆ RCV: 1st Lot Magnets from Vendor					
LN03030120	RCV: Remaining Magnets from Vendor	0		13MAR06		◆ RCV: Remaining Magnets from Vendor					
LN03030115	Vendor Fab Remaining Lot - Magnets	0	14MAR06	13MAR06		⚠ Vendor Fab Remaining Lot - Magnets					
LN03030235	Perform Magnet Pre-Instalation Qual	2	14MAR06	15MAR06		⚠ Perform Magnet Pre-Instalation Qual					
LN03030240	AVAIL: BX2_BC2 Magnets Ready for Instl	0		15MAR06		◆ AVAIL: BX2_BC2 Magnets Ready for Instl					
LN03030360	Procure Misc Materials - Magnet Supports	20	10APR06	05MAY06		⚠ Procure Misc Materials - Magnet Supports					
LN03030365	Fabricate Magnet Supports	0	08MAY06	05MAY06		⚠ Fabricate Magnet Supports					
LN03030370	Prep for, Clean & Plate Magnet Supts	0	08MAY06	05MAY06		⚠ Prep for, Clean & Plate Magnet Supts					
LN03030375	Prep for and Paint Magnet Supports (as required)	0	08MAY06	05MAY06		⚠ Prep for and Paint Magnet Supports (as required)					
LN03030380	Perform QC & Inspection on Magnets Supts	0	08MAY06	05MAY06		⚠ Perform QC & Inspection on Magnets Supts					
LN03030385	Assemble Magnet Supports	30	08MAY06	19JUN06		⚠ Assemble Magnet Supports					
LN03030390	Hand-off to Pre-Instl Qual Testing	0		19JUN06		◆ Hand-off to Pre-Instl Qual Testing					
LN03030305	Prep Bid Pak - Magnet Supports	1	03OCT06	03OCT06		⚠ Prep Bid Pak - Magnet Supports					
LN03030315	RELEASE: RFP - Magnet Supports	0		03OCT06		◆ RELEASE: RFP - Magnet Supports					
LN03030320	Vendors Prep Proposals - Magnet Supts	1	04OCT06	04OCT06		⚠ Vendors Prep Proposals - Magnet Supts					
LN03030325	RCV: Proposals from Vendors - Supts	0		04OCT06		◆ RCV: Proposals from Vendors - Supts					
LN03030330	Evaluate Vendor Proposals - Supports	1	05OCT06	05OCT06		⚠ Evaluate Vendor Proposals - Supports					
LN03030340	Vendor Fab 1st Lot - Supts	20	09OCT06	03NOV06		⚠ Vendor Fab 1st Lot - Supts					
LN03030345	RCV: 1st Lot Magnet Supports from Vendor	0		03NOV06		◆ RCV: 1st Lot Magnet Supports from Vendor					
LN03030355	RCV: Remaining Magnet Supts from Vendor	0		03NOV06		◆ RCV: Remaining Magnet Supts from Vendor					
LN03030350	Vendor Fab Remaining Lot - Supts	0	06NOV06	03NOV06		⚠ Vendor Fab Remaining Lot - Supts					
LN03030395	Perform Pre-Installation Qualification - Support	1	06NOV06	06NOV06		⚠ Perform Pre-Installation Qualification - Support					

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Start Date 01JUN01
 Finish Date 31MAR09
 Data Date 01OCT04
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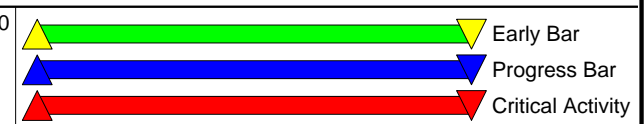
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
LN03030400	AVAIL: BX2_BC2 Magnet Supts Ready for Instl	0		06NOV06				◆AVAIL: BX2_BC2 Magnet Supts Ready for Instl		
1.03.03.04 Bend Magnet (BY_LTU)										
LN03040000	Define Magnet Requirements	25	03OCT05	04NOV05				△▽ Define Magnet Requirements		
LN0304	BEND MAGNET (BY_LTU) SUMMARY	366	03OCT05	12APR07				△▽ BEND MAGNET (BY_LTU) SUMMARY		
LN03040600	Receive & Review Safety Cover Requirements	0	07NOV05	04NOV05				△ Receive & Review Safety Cover Requirements		
LN03040245	Define Magnet Support Requirements	2	07NOV05	08NOV05				△ Define Magnet Support Requirements		
LN03040005	Create ICD & Update LCLS Database	10	07NOV05	18NOV05				△ Create ICD & Update LCLS Database		
LN03040605	Develop Magnet Safety Cover Design	40	07NOV05	19JAN06				△▽ Develop Magnet Safety Cover Design		
LN03040250	Create ICD & Update LCLS Database	1	09NOV05	09NOV05				△ Create ICD & Update LCLS Database		
LN03040255	Review/Accept Reqmts, Update ICD & DB entries	1	10NOV05	10NOV05				△ Review/Accept Reqmts, Update ICD & DB entries		
LN03040260	Develop Preliminary Design - Magnet Supports	6	11NOV05	18NOV05				△ Develop Preliminary Design - Magnet Supports		
LN03040010	Review/Accept Reqmts, Update ICD & DB entries	2	21NOV05	22NOV05				△ Review/Accept Reqmts, Update ICD & DB entries		
LN03040270	Conduct Preliminary Design Review (PDR)	2	21NOV05	22NOV05				△ Conduct Preliminary Design Review (PDR)		
LN03040280	Develop Final Design - Magnet Supports	4	23NOV05	30NOV05				△ Develop Final Design - Magnet Supports		
LN03040015	Develop Preliminary Design - Magnet	10	23NOV05	08DEC05				△ Develop Preliminary Design - Magnet		
LN03040290	Conduct Final Design Review (FDR)	2	01DEC05	02DEC05				△ Conduct Final Design Review (FDR)		
LN03040300	COMP: Bend Magnet Supports (BY_LTU) Design	0		02DEC05				◆ COMP: Bend Magnet Supports (BY_LTU) Design		
LN03040360	Procure Misc Materials - Magnet Supports	20	05DEC05	17JAN06				△▽ Procure Misc Materials - Magnet Supports		
LN03040025	Develop Preliminary Dsn - Magnet Field Analysis	15	09DEC05	13JAN06				△▽ Develop Preliminary Dsn - Magnet Field Analysis		
LN03040030	Conduct Preliminary Design Review (PDR)	1	17JAN06	17JAN06				△ Conduct Preliminary Design Review (PDR)		
LN03040365	Fabricate Magnet Supports	6	18JAN06	25JAN06				△ Fabricate Magnet Supports		
LN03040040	Develop Final Design - Magnets	10	18JAN06	31JAN06				△ Develop Final Design - Magnets		
LN03040610	COMP: Magnet Safety Design	0		19JAN06				◆ COMP: Magnet Safety Design		
LN03040615	Procure Magnet Safety Cover (2ea)	40	20JAN06	17MAR06				△▽ Procure Magnet Safety Cover (2ea)		
LN03040370	Prep for, Clean & Plate Magnet Supts	0	26JAN06	25JAN06				△ Prep for, Clean & Plate Magnet Supts		
LN03040375	Prep for and Paint Magnet Supports (as required)	0	26JAN06	25JAN06				△ Prep for and Paint Magnet Supports (as required)		
LN03040050	Conduct Final Design Review (FDR)	2	01FEB06	02FEB06				△ Conduct Final Design Review (FDR)		
LN03040060	Develop Magnetic Measurement Plan	10	03FEB06	16FEB06				△ Develop Magnetic Measurement Plan		
LN03040065	COMP: Bend Magnet (BY_LTU) Design	0		16FEB06				◆ COMP: Bend Magnet (BY_LTU) Design		
LN03040130	Procure Misc Materials - Magnets	0	17FEB06	16FEB06				△ Procure Misc Materials - Magnets		
LN03040180	Procure Misc Materials - Magnets	0	17FEB06	16FEB06				△ Procure Misc Materials - Magnets		
LN03040185	Fab Tooling	0	17FEB06	16FEB06				△ Fab Tooling		
LN03040190	Fab Magnet Core	0	17FEB06	16FEB06				△ Fab Magnet Core		
LN03040195	Fab Magnet Coils	0	17FEB06	16FEB06				△ Fab Magnet Coils		
LN03040205	Prep for and Paint Magnets (as required)	0	17FEB06	16FEB06				△ Prep for and Paint Magnets (as required)		
LN03040210	Assemble Magnets	0	17FEB06	16FEB06				△ Assemble Magnets		
LN03040215	Perform Magnet Fiducialization (as required)	0	17FEB06	16FEB06				△ Perform Magnet Fiducialization (as required)		

Start Date 01JUN01
Finish Date 31MAR09
Data Date 01OCT04
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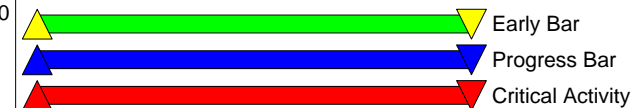
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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
LN03040220	Perform QC & Inspection - Magnets	0	17FEB06	16FEB06			⚠ Perform QC & Inspection - Magnets			
LN03040225	Perform Magnetic Measurement (as required)	0	17FEB06	16FEB06			⚠ Perform Magnetic Measurement (as required)			
LN03040135	Disassemble Magnet	1	17FEB06	17FEB06			⚠ Disassemble Magnet			
LN03040070	Prep Bid Pak - Magnets	2	17FEB06	21FEB06			⚠ Prep Bid Pak - Magnets			
LN03040080	RELEASE: RFP - BY_LTU Bend Magnet	0		21FEB06			◆ RELEASE: RFP - BY_LTU Bend Magnet			
LN03040145	Refurbish Magnet Coils	1	21FEB06	21FEB06			⚠ Refurbish Magnet Coils			
LN03040150	Assemble Magnets	0	22FEB06	21FEB06			⚠ Assemble Magnets			
LN03040160	Prep for and Paint Magnets (as required)	0	22FEB06	21FEB06			⚠ Prep for and Paint Magnets (as required)			
LN03040165	Perform Magnet Fiducialization (as required)	0	22FEB06	21FEB06			⚠ Perform Magnet Fiducialization (as required)			
LN03040170	Perform QC & Inspection - Magnets	0	22FEB06	21FEB06			⚠ Perform QC & Inspection - Magnets			
LN03040175	Perform Magnetic Measurement (as required)	0	22FEB06	21FEB06			⚠ Perform Magnetic Measurement (as required)			
LN03040085	Vendors Prep Proposals - Magnets	1	22FEB06	22FEB06			⚠ Vendors Prep Proposals - Magnets			
LN03040090	RCV: Proposals from Vendors - Magnet	0		22FEB06			◆ RCV: Proposals from Vendors - Magnet			
LN03040095	Evaluate Vendor Proposals - Magnets	1	23FEB06	23FEB06			⚠ Evaluate Vendor Proposals - Magnets			
LN03040620	RCV: Magnet Safety Cover Material	0		17MAR06			◆ RCV: Magnet Safety Cover Material			
LN03040630	REQD: Reusable Safety Covers for Refurbishment	0		17MAR06			◆ REQD: Reusable Safety Covers for Refurbishment			
LN03040640	AVAIL: Magnet Safety Covers Ready for Instl	0		17MAR06			◆ AVAIL: Magnet Safety Covers Ready for Instl			
LN03040625	Fab and Assemble New Magnet Safety Covers (0ea)	0	20MAR06	17MAR06			⚠ Fab and Assemble New Magnet Safety Covers (0ea)			
LN03040635	Refurbish Reusable Safety Covers (0ea)	0	20MAR06	17MAR06			⚠ Refurbish Reusable Safety Covers (0ea)			
LN03040305	Prep Bid Pak - Magnet Supports	1	03OCT06	03OCT06			⚠ Prep Bid Pak - Magnet Supports			
LN03040315	RELEASE: RFP - Magnet Supports	0		03OCT06			◆ RELEASE: RFP - Magnet Supports			
LN03040320	Vendors Prep Proposals - Magnet Supts	1	04OCT06	04OCT06			⚠ Vendors Prep Proposals - Magnet Supts			
LN03040325	RCV: Proposals from Vendors - Supts	0		04OCT06			◆ RCV: Proposals from Vendors - Supts			
LN03040105	Vendor Fab 1st Lot - Magnets	120	04OCT06	10APR07			⚠ Vendor Fab 1st Lot - Magnets			
LN03040330	Evaluate Vendor Proposals - Supports	1	05OCT06	05OCT06			⚠ Evaluate Vendor Proposals - Supports			
LN03040340	Vendor Fab 1st Lot - Supts	20	09OCT06	03NOV06			⚠ Vendor Fab 1st Lot - Supts			
LN03040345	RCV: 1st Lot Magnet Supports from Vendor	0		03NOV06			◆ RCV: 1st Lot Magnet Supports from Vendor			
LN03040355	RCV: Remaining Magnet Supts from Vendor	0		03NOV06			◆ RCV: Remaining Magnet Supts from Vendor			
LN03040350	Vendor Fab Remaining Lot - Supts	0	06NOV06	03NOV06			⚠ Vendor Fab Remaining Lot - Supts			
LN03040380	Perform QC & Inspection on Magnets Supts	6	06NOV06	13NOV06			⚠ Perform QC & Inspection on Magnets Supts			
LN03040385	Assemble Magnet Supports	15	14NOV06	06DEC06			⚠ Assemble Magnet Supports			
LN03040390	Hand-off to Pre-Instl Qual Testing	0		06DEC06			◆ Hand-off to Pre-Instl Qual Testing			
LN03040395	Perform Pre-Installation Qualification - Support	2	07DEC06	08DEC06			⚠ Perform Pre-Installation Qualification - Support			
LN03040400	AVAIL: BY_LTU Magnet Supts Ready for Instl	0		08DEC06			◆ AVAIL: BY_LTU Magnet Supts Ready for Instl			
LN03040110	RCV: 1st Lot Magnets from Vendor	0		10APR07			◆ RCV: 1st Lot Magnets from Vendor			
LN03040120	RCV: Remaining Magnets from Vendor	0		10APR07			◆ RCV: Remaining Magnets from Vendor			
LN03040230	Hand-off to Pre-Instl Qual Testing	0		10APR07			◆ Hand-off to Pre-Instl Qual Testing			

**LCLS
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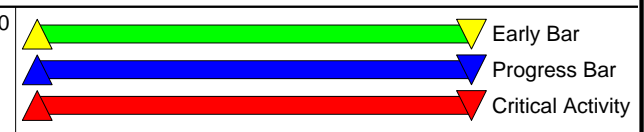
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
LN03040115	Vendor Fab Remaining Lot - Magnets	0	11APR07	10APR07				⚠ Vendor Fab Remaining Lot - Magnets		
LN03040235	Perform Magnet Pre-Instlation Qual	2	11APR07	12APR07				⚠ Perform Magnet Pre-Instlation Qual		
LN03040240	AVAIL: BY_LTU Magnets Ready for Instl	0		12APR07				◆ AVAIL: BY_LTU Magnets Ready for Instl		
1.03.03.05 Quad Magnet (Quad_LTU)										
LN03050000	Define Magnet Requirements	25	17FEB06	24MAR06				⚠ Define Magnet Requirements		
LN0305	QUAD MAGNET (Quad_LTU) SUMMARY	409	17FEB06	12OCT07				⚠ QUAD MAGNET (Quad_LTU) SUMM		
LN03050600	Receive & Review Safety Cover Requirements	0	27MAR06	24MAR06				⚠ Receive & Review Safety Cover Requirements		
LN03050245	Define Magnet Support Requirements	2	27MAR06	28MAR06				⚠ Define Magnet Support Requirements		
LN03050005	Create ICD & Update LCLS Database	10	27MAR06	07APR06				⚠ Create ICD & Update LCLS Database		
LN03050605	Develop Magnet Safety Cover Design	40	27MAR06	19MAY06				⚠ Develop Magnet Safety Cover Design		
LN03050250	Create ICD & Update LCLS Database	2	29MAR06	30MAR06				⚠ Create ICD & Update LCLS Database		
LN03050255	Review/Accept Reqmts, Update ICD & DB entries	2	31MAR06	03APR06				⚠ Review/Accept Reqmts, Update ICD & DB entries		
LN03050260	Develop Preliminary Design - Magnet Supports	6	04APR06	11APR06				⚠ Develop Preliminary Design - Magnet Supports		
LN03050010	Review/Accept Reqmts, Update ICD & DB entries	2	10APR06	11APR06				⚠ Review/Accept Reqmts, Update ICD & DB entries		
LN03050015	Develop Preliminary Design - Magnet	2	12APR06	13APR06				⚠ Develop Preliminary Design - Magnet		
LN03050270	Conduct Preliminary Design Review (PDR)	2	12APR06	13APR06				⚠ Conduct Preliminary Design Review (PDR)		
LN03050025	Develop Preliminary Dsn - Magnet Field Analysis	2	14APR06	17APR06				⚠ Develop Preliminary Dsn - Magnet Field Analysis		
LN03050280	Develop Final Design - Magnet Supports	4	14APR06	19APR06				⚠ Develop Final Design - Magnet Supports		
LN03050030	Conduct Preliminary Design Review (PDR)	1	18APR06	18APR06				⚠ Conduct Preliminary Design Review (PDR)		
LN03050040	Develop Final Design - Magnets	10	19APR06	02MAY06				⚠ Develop Final Design - Magnets		
LN03050290	Conduct Final Design Review (FDR)	2	20APR06	21APR06				⚠ Conduct Final Design Review (FDR)		
LN03050300	COMP: Quad Magnet Supports (Quad_LTU) Design	0		21APR06				◆ COMP: Quad Magnet Supports (Quad_LTU) Design		
LN03050050	Conduct Final Design Review (FDR)	2	03MAY06	04MAY06				⚠ Conduct Final Design Review (FDR)		
LN03050060	Develop Magnetic Measurement Plan	2	05MAY06	08MAY06				⚠ Develop Magnetic Measurement Plan		
LN03050065	COMP: Quad Magnet (Quad_LTU) Design	0		08MAY06				◆ COMP: Quad Magnet (Quad_LTU) Design		
LN03050130	Procure Misc Materials - Magnets	0	09MAY06	08MAY06				⚠ Procure Misc Materials - Magnets		
LN03050135	Disassemble Magnet	31	09MAY06	21JUN06				⚠ Disassemble Magnet		
LN03050610	COMP: Magnet Safety Design	0		19MAY06				◆ COMP: Magnet Safety Design		
LN03050615	Prep Bid Pak - Magnet Safety Covers	5	22MAY06	26MAY06				⚠ Prep Bid Pak - Magnet Safety Covers		
LN03050620	RELEASE: RFP - Magnet Safety Covers	0		26MAY06				◆ RELEASE: RFP - Magnet Safety Covers		
LN03050625	Vendors Prep Proposals - Magnet Safety Covers	10	30MAY06	12JUN06				⚠ Vendors Prep Proposals - Magnet Safety Covers		
LN03050630	RCV: Vendor Proposals - Magnet Safety Covers	0		12JUN06				◆ RCV: Vendor Proposals - Magnet Safety Covers		
LN03050635	Evaluate Vendor Proposals	5	13JUN06	19JUN06				⚠ Evaluate Vendor Proposals		
LN03050145	Refurbish Magnet Coils	25	22JUN06	27JUL06				⚠ Refurbish Magnet Coils		
LN03050150	Assemble Magnets	50	28JUL06	06OCT06				⚠ Assemble Magnets		
LN03050180	Procure Misc Materials - Magnets	0	03OCT06	02OCT06				⚠ Procure Misc Materials - Magnets		
LN03050185	Fab Tooling	0	03OCT06	02OCT06				⚠ Fab Tooling		

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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
LN03050190	Fab Magnet Core	0	03OCT06	02OCT06				⚠ Fab Magnet Core		
LN03050195	Fab Magnet Coils	0	03OCT06	02OCT06				⚠ Fab Magnet Coils		
LN03050200	Prep for, Clean & Plate Magnet	0	03OCT06	02OCT06				⚠ Prep for, Clean & Plate Magnet		
LN03050205	Prep for and Paint Magnets (as required)	0	03OCT06	02OCT06				⚠ Prep for and Paint Magnets (as required)		
LN03050210	Assemble Magnets	0	03OCT06	02OCT06				⚠ Assemble Magnets		
LN03050215	Perform Magnet Fiducialization (as required)	0	03OCT06	02OCT06				⚠ Perform Magnet Fiducialization (as required)		
LN03050220	Perform QC & Inspection - Magnets	0	03OCT06	02OCT06				⚠ Perform QC & Inspection - Magnets		
LN03050225	Perform Magnetic Measurement (as required)	0	03OCT06	02OCT06				⚠ Perform Magnetic Measurement (as required)		
LN03050070	Prep Bid Pak - Magnets	1	03OCT06	03OCT06				⚠ Prep Bid Pak - Magnets		
LN03050080	RELEASE: RFP - Quad_LTU Magnet	0		03OCT06				◆ RELEASE: RFP - Quad_LTU Magnet		
LN03050305	Prep Bid Pak - Magnet Supports	2	03OCT06	04OCT06				⚠ Prep Bid Pak - Magnet Supports		
LN03050360	Procure Misc Materials - Magnet Supports	20	03OCT06	30OCT06				⚠ Procure Misc Materials - Magnet Supports		
LN03050085	Vendors Prep Proposals - Magnets	1	04OCT06	04OCT06				⚠ Vendors Prep Proposals - Magnets		
LN03050090	RCV: Proposals from Vendors - Magnet	0		04OCT06				◆ RCV: Proposals from Vendors - Magnet		
LN03050315	RELEASE: RFP - Magnet Supports	0		04OCT06				◆ RELEASE: RFP - Magnet Supports		
LN03050705	Vendor Fab & Assy - Magnet Safety Cover (15ea)	100	04OCT06	13MAR07	Vendor Fab & Assy - Magnet Safety Cover (15ea) ⚠					
LN03050095	Evaluate Vendor Proposals - Magnets	1	05OCT06	05OCT06				⚠ Evaluate Vendor Proposals - Magnets		
LN03050320	Vendors Prep Proposals - Magnet Supts	1	05OCT06	05OCT06				⚠ Vendors Prep Proposals - Magnet Supts		
LN03050325	RCV: Proposals from Vendors - Supts	0		05OCT06				◆ RCV: Proposals from Vendors - Supts		
LN03050330	Evaluate Vendor Proposals - Supports	1	06OCT06	06OCT06				⚠ Evaluate Vendor Proposals - Supports		
LN03050160	Prep for and Paint Magnets (as required)	12	09OCT06	24OCT06				⚠ Prep for and Paint Magnets (as required)		
LN03050105	Vendor Fab 1st Lot - Magnets	120	09OCT06	13APR07				⚠ Vendor Fab 1st Lot - Magnets		
LN03050340	Vendor Fab 1st Lot - Supts	20	10OCT06	06NOV06				⚠ Vendor Fab 1st Lot - Supts		
LN03050165	Perform Magnet Fiducialization (as required)	0	25OCT06	24OCT06				⚠ Perform Magnet Fiducialization (as required)		
LN03050170	Perform QC & Inspection - Magnets	0	25OCT06	24OCT06				⚠ Perform QC & Inspection - Magnets		
LN03050175	Perform Magnetic Measurement (as required)	37	25OCT06	02JAN07				⚠ Perform Magnetic Measurement (as required)		
LN03050365	Fabricate Magnet Supports	30	31OCT06	13DEC06				⚠ Fabricate Magnet Supports		
LN03050345	RCV: 1st Lot Magnet Supports from Vendor	0		06NOV06				◆ RCV: 1st Lot Magnet Supports from Vendor		
LN03050355	RCV: Remaining Magnet Supts from Vendor	0		06NOV06				◆ RCV: Remaining Magnet Supts from Vendor		
LN03050350	Vendor Fab Remaining Lot - Supts	0	07NOV06	06NOV06				⚠ Vendor Fab Remaining Lot - Supts		
LN03050370	Prep for, Clean & Plate Magnet Supts	0	14DEC06	13DEC06				⚠ Prep for, Clean & Plate Magnet Supts		
LN03050375	Prep for and Paint Magnet Supports (as required)	0	14DEC06	13DEC06				⚠ Prep for and Paint Magnet Supports (as required)		
LN03050380	Perform QC & Inspection on Magnets Supts	30	14DEC06	09FEB07				⚠ Perform QC & Inspection on Magnets Supts		
LN03050230	Hand-off to Pre-Instl Qual Testing	0		02JAN07				◆ Hand-off to Pre-Instl Qual Testing		
LN03050385	Assemble Magnet Supports	62	12FEB07	09MAY07				⚠ Assemble Magnet Supports		
LN03050710	RCV: Magnet Safety Cover Material	0		13MAR07				◆ RCV: Magnet Safety Cover Material		
LN03050720	REQD: Reusable Safety Covers for Refurbishment	0		13MAR07	REQD: Reusable Safety Covers for Refurbishment ◆					

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					2004	2005	2006	2007	2008	2009
LN03050715	Fab and Assemble New Magnet Safety Covers (0ea)	0	14MAR07	13MAR07	Fab and Assemble New Magnet Safety Covers (0ea)					
LN03050725	Refurbish Reusable Safety Covers (25ea)	150	14MAR07	12OCT07	Refurbish Reusable Safety Covers (25ea)					
LN03050110	RCV: 1st Lot Magnets from Vendor	0		13APR07	◆RCV: 1st Lot Magnets from Vendor					
LN03050120	RCV: Remaining Magnets from Vendor	0		13APR07	◆RCV: Remaining Magnets from Vendor					
LN03050125	Hand-off to Pre-Instl Qual Testing	0		13APR07	◆Hand-off to Pre-Instl Qual Testing					
LN03050115	Vendor Fab Remaining Lot - Magnets	0	16APR07	13APR07	⚠Vendor Fab Remaining Lot - Magnets					
LN03050235	Perform Magnet Pre-Installation Qual	2	16APR07	17APR07	⚠Perform Magnet Pre-Installation Qual					
LN03050240	AVAIL: Quad_LTU Magnets Ready for Instl	0		17APR07	◆AVAIL: Quad_LTU Magnets Ready for Instl					
LN03050390	Hand-off to Pre-Instl Qual Testing	0		09MAY07	◆Hand-off to Pre-Instl Qual Testing					
LN03050395	Perform Pre-Installation Qualification - Support	6	10MAY07	17MAY07	⚠Perform Pre-Installation Qualification - Support					
LN03050400	AVAIL: Quad_LTU Magnet Supts Ready for Instl	0		17MAY07	◆AVAIL: Quad_LTU Magnet Supts Ready for Instl					
LN03050730	AVAIL: Magnet Safety Covers Ready for Instl	0		12OCT07	◆AVAIL: Magnet Safety Covers Ready for Instl					
1.03.03.07 Quad Magnet (QE)										
LN03070000	Define Magnet Requirements	5	15APR05*	21APR05	⚠Define Magnet Requirements					
LN0307	QUAD MAGNET (QE_) SUMMARY	268	15APR05	19MAY06	⚠QUAD MAGNET (QE_) SUMMARY					
LN03070005	Create ICD & Update LCLS Database	10	22APR05	05MAY05	⚠Create ICD & Update LCLS Database					
LN03070010	Review/Accept Reqmts, Update ICD & DB entries	2	06MAY05	09MAY05	⚠Review/Accept Reqmts, Update ICD & DB entries					
LN03070015	Develop Preliminary Design - Magnet	1	10MAY05	10MAY05	⚠Develop Preliminary Design - Magnet					
LN03070025	Develop Preliminary Dsn - Magnet Field Analysis	1	11MAY05	11MAY05	⚠Develop Preliminary Dsn - Magnet Field Analysis					
LN03070030	Conduct Preliminary Design Review (PDR)	1	12MAY05	12MAY05	⚠Conduct Preliminary Design Review (PDR)					
LN03070040	Develop Final Design - Magnets	1	13MAY05	13MAY05	⚠Develop Final Design - Magnets					
LN03070050	Conduct Final Design Review (FDR)	2	16MAY05	17MAY05	⚠Conduct Final Design Review (FDR)					
LN03070060	Develop Magnetic Measurement Plan	15	18MAY05	08JUN05	⚠Develop Magnetic Measurement Plan					
LN03070065	COMP: Quad Magnet (QE_ Quad) Design	0		08JUN05	◆COMP: Quad Magnet (QE_ Quad) Design					
LN03070070	Prep Bid Pak - Magnets	40	09JUN05	04AUG05	⚠Prep Bid Pak - Magnets					
LN03070080	RELEASE: RFP - QE_ Quad Magnet	0		04AUG05	◆RELEASE: RFP - QE_ Quad Magnet					
LN03070085	Vendors Prep Proposals - Magnets	1	05AUG05	05AUG05	⚠Vendors Prep Proposals - Magnets					
LN03070090	RCV: Proposals from Vendors - Magnet	0		05AUG05	◆RCV: Proposals from Vendors - Magnet					
LN03070095	Evaluate Vendor Proposals - Magnets	0	08AUG05	05AUG05	⚠Evaluate Vendor Proposals - Magnets					
LN03070130	Procure Misc Materials - Magnets	0	03OCT05	30SEP05	⚠Procure Misc Materials - Magnets					
LN03070135	Disassemble Magnet	0	03OCT05	30SEP05	⚠Disassemble Magnet					
LN03070145	Refurbish Magnet Coils	0	03OCT05	30SEP05	⚠Refurbish Magnet Coils					
LN03070150	Assemble Magnets	0	03OCT05	30SEP05	⚠Assemble Magnets					
LN03070160	Prep for and Paint Magnets (as required)	0	03OCT05	30SEP05	⚠Prep for and Paint Magnets (as required)					
LN03070165	Perform Magnet Fiducialization (as required)	0	03OCT05	30SEP05	⚠Perform Magnet Fiducialization (as required)					
LN03070170	Perform QC & Inspection - Magnets	0	03OCT05	30SEP05	⚠Perform QC & Inspection - Magnets					
LN03070175	Perform Magnetic Measurement (as required)	0	03OCT05	30SEP05	⚠Perform Magnetic Measurement (as required)					

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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish							
					2004	2005	2006	2007	2008	2009	
LN03070110	RCV: 1st Lot Magnets from Vendor	0		03OCT05			◆RCV: 1st Lot Magnets from Vendor				
LN03070120	RCV: Remaining Magnets from Vendor	0		03OCT05			◆RCV: Remaining Magnets from Vendor				
LN03070125	Hand-off to Pre-Instl Qual Testing	0		03OCT05			◆Hand-off to Pre-Instl Qual Testing				
LN03070180	Procure Misc Materials - Magnets	30	03OCT05	11NOV05			▲▼Procure Misc Materials - Magnets				
LN03070105	Vendor Fab 1st Lot - Magnets	0	04OCT05	03OCT05			⚠Vendor Fab 1st Lot - Magnets				
LN03070115	Vendor Fab Remaining Lot - Magnets	0	04OCT05	03OCT05			⚠Vendor Fab Remaining Lot - Magnets				
LN03070190	Fab Magnet Core	20	14NOV05	13DEC05			▲▼Fab Magnet Core				
LN03070185	Fab Tooling	25	14NOV05	04JAN06			▲▼Fab Tooling				
LN03070195	Fab Magnet Coils	60	14NOV05	24FEB06			▲▼Fab Magnet Coils				
LN03070205	Prep for and Paint Magnets (as required)	10	27FEB06	10MAR06			⚠Prep for and Paint Magnets (as required)				
LN03070210	Assemble Magnets	20	13MAR06	07APR06			⚠Assemble Magnets				
LN03070245	Define Magnet Support Requirements	2	10APR06	11APR06			⚠Define Magnet Support Requirements				
LN03070215	Perform Magnet Fiducialization (as required)	10	10APR06	21APR06			⚠Perform Magnet Fiducialization (as required)				
LN03070250	Create ICD & Update LCLS Database	0	12APR06	11APR06			⚠Create ICD & Update LCLS Database				
LN03070255	Review/Accept Reqmts, Update ICD & DB entries	1	12APR06	12APR06			⚠Review/Accept Reqmts, Update ICD & DB entries				
LN03070260	Develop Preliminary Design - Magnet Supports	1	13APR06	13APR06			⚠Develop Preliminary Design - Magnet Supports				
LN03070270	Conduct Preliminary Design Review (PDR)	1	14APR06	14APR06			⚠Conduct Preliminary Design Review (PDR)				
LN03070280	Develop Final Design - Magnet Supports	1	17APR06	17APR06			⚠Develop Final Design - Magnet Supports				
LN03070290	Conduct Final Design Review (FDR)	1	18APR06	18APR06			⚠Conduct Final Design Review (FDR)				
LN03070300	COMP: Quad Magnet Supports (QE_ Quad) Design	0		18APR06			◆COMP: Quad Magnet Supports (QE_ Quad) Design				
LN03070390	Hand-off to Pre-Instl Qual Testing	0		18APR06			◆Hand-off to Pre-Instl Qual Testing				
LN03070360	Procure Misc Materials - Magnet Supports	0	19APR06	18APR06			⚠Procure Misc Materials - Magnet Supports				
LN03070365	Fabricate Magnet Supports	0	19APR06	18APR06			⚠Fabricate Magnet Supports				
LN03070370	Prep for, Clean & Plate Magnet Supts	0	19APR06	18APR06			⚠Prep for, Clean & Plate Magnet Supts				
LN03070375	Prep for and Paint Magnet Supports (as required)	0	19APR06	18APR06			⚠Prep for and Paint Magnet Supports (as required)				
LN03070380	Perform QC & Inspection on Magnets Supts	0	19APR06	18APR06			⚠Perform QC & Inspection on Magnets Supts				
LN03070385	Assemble Magnet Supports	0	19APR06	18APR06			⚠Assemble Magnet Supports				
LN03070305	Prep Bid Pak - Magnet Supports	1	19APR06	19APR06			⚠Prep Bid Pak - Magnet Supports				
LN03070315	RELEASE: RFP - Magnet Supports	0		19APR06			◆RELEASE: RFP - Magnet Supports				
LN03070320	Vendors Prep Proposals - Magnet Supts	1	20APR06	20APR06			⚠Vendors Prep Proposals - Magnet Supts				
LN03070325	RCV: Proposals from Vendors - Supts	0		20APR06			◆RCV: Proposals from Vendors - Supts				
LN03070330	Evaluate Vendor Proposals - Supports	0	21APR06	20APR06			⚠Evaluate Vendor Proposals - Supports				
LN03070345	RCV: 1st Lot Magnet Supports from Vendor	0		21APR06			◆RCV: 1st Lot Magnet Supports from Vendor				
LN03070355	RCV: Remaining Magnet Supts from Vendor	0		21APR06			◆RCV: Remaining Magnet Supts from Vendor				
LN03070400	AVAIL: QE_ Quad Magnet Supts Ready for BC1 Instl	0		21APR06			◆AVAIL: QE_ Quad Magnet Supts Ready for BC1 Instl				
LN03070402	AVAIL: QE_ Quad Magnet Supts Ready for BC2 Instl	0		21APR06			◆AVAIL: QE_ Quad Magnet Supts Ready for BC2 Instl				
LN03070340	Vendor Fab 1st Lot - Supts	0	24APR06	21APR06			⚠Vendor Fab 1st Lot - Supts				



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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
LN03070350	Vendor Fab Remaining Lot - Supts	0	24APR06	21APR06			⚠ Vendor Fab Remaining Lot - Supts			
LN03070395	Perform Pre-Installation Qualification - Support	0	24APR06	21APR06			⚠ Perform Pre-Installation Qualification - Support			
LN03070220	Perform QC & Inspection - Magnets	10	24APR06	05MAY06			⚠ Perform QC & Inspection - Magnets			
LN03070225	Perform Magnetic Measurement (as required)	10	08MAY06	19MAY06			⚠ Perform Magnetic Measurement (as required)			
LN03070230	Hand-off to Pre-Instl Qual Testing	0		19MAY06			◆ Hand-off to Pre-Instl Qual Testing			
LN03070240	AVAIL: QE_ Quad Magnet Ready for BC1 Instl	0		19MAY06			◆ AVAIL: QE_ Quad Magnet Ready for BC1 Instl			
LN03070242	AVAIL: QE_ Quad Magnet Ready for BC2 Instl	0		19MAY06			◆ AVAIL: QE_ Quad Magnet Ready for BC2 Instl			
LN03070235	Perform Magnet Pre-Instlation Qual	0	22MAY06	19MAY06			⚠ Perform Magnet Pre-Instlation Qual			
1.03.03.08 Corrector Magnet (Type 4)										
LN03080000	Define Magnet Requirements	5	09JUN05	15JUN05			⚠ Define Magnet Requirements			
LN0308	CORRECTOR BEND MAGNET (Linac Type 4)	201	09JUN05	10APR06			⚠ CORRECTOR BEND MAGNET (Linac Type 4) SUMMARY			
LN03080600	Receive & Review Safety Cover Requirements	0	16JUN05	15JUN05			⚠ Receive & Review Safety Cover Requirements			
LN03080005	Create ICD & Update LCLS Database	10	16JUN05	29JUN05			⚠ Create ICD & Update LCLS Database			
LN03080605	Develop Magnet Safety Cover Design	20	16JUN05	14JUL05			⚠ Develop Magnet Safety Cover Design			
LN03080010	Review/Accept Reqmts, Update ICD & DB entries	2	30JUN05	01JUL05			⚠ Review/Accept Reqmts, Update ICD & DB entries			
LN03080015	Develop Preliminary Design - Magnet	1	05JUL05	05JUL05			⚠ Develop Preliminary Design - Magnet			
LN03080025	Develop Preliminary Dsn - Magnet Field Analysis	1	06JUL05	06JUL05			⚠ Develop Preliminary Dsn - Magnet Field Analysis			
LN03080030	Conduct Preliminary Design Review (PDR)	1	07JUL05	07JUL05			⚠ Conduct Preliminary Design Review (PDR)			
LN03080040	Develop Final Design - Magnets	1	08JUL05	08JUL05			⚠ Develop Final Design - Magnets			
LN03080050	Conduct Final Design Review (FDR)	2	11JUL05	12JUL05			⚠ Conduct Final Design Review (FDR)			
LN03080060	Develop Magnetic Measurement Plan	2	13JUL05	14JUL05			⚠ Develop Magnetic Measurement Plan			
LN03080065	COMP: Corrector Bend Magnet (Type 4) Design	0		14JUL05			◆ COMP: Corrector Bend Magnet (Type 4) Design			
LN03080610	COMP: Magnet Safety Design	0		14JUL05			◆ COMP: Magnet Safety Design			
LN03080245	Define Magnet Support Requirements	2	15JUL05	18JUL05			⚠ Define Magnet Support Requirements			
LN03080070	Prep Bid Pak - Magnets	20	15JUL05	11AUG05			⚠ Prep Bid Pak - Magnets			
LN03080250	Create ICD & Update LCLS Database	0	19JUL05	18JUL05			⚠ Create ICD & Update LCLS Database			
LN03080255	Review/Accept Reqmts, Update ICD & DB entries	1	19JUL05	19JUL05			⚠ Review/Accept Reqmts, Update ICD & DB entries			
LN03080260	Develop Preliminary Design - Magnet Supports	1	20JUL05	20JUL05			⚠ Develop Preliminary Design - Magnet Supports			
LN03080270	Conduct Preliminary Design Review (PDR)	1	21JUL05	21JUL05			⚠ Conduct Preliminary Design Review (PDR)			
LN03080280	Develop Final Design - Magnet Supports	1	22JUL05	22JUL05			⚠ Develop Final Design - Magnet Supports			
LN03080290	Conduct Final Design Review (FDR)	1	25JUL05	25JUL05			⚠ Conduct Final Design Review (FDR)			
LN03080300	COMP: Corrector Bend Magnet Supt (Type 4) Design	0		25JUL05			◆ COMP: Corrector Bend Magnet Supt (Type 4) Design			
LN03080305	Prep Bid Pak - Magnet Supports	1	26JUL05	26JUL05			⚠ Prep Bid Pak - Magnet Supports			
LN03080315	RELEASE: RFP - Magnet Supports	0		26JUL05			◆ RELEASE: RFP - Magnet Supports			
LN03080320	Vendors Prep Proposals - Magnet Supts	1	27JUL05	27JUL05			⚠ Vendors Prep Proposals - Magnet Supts			
LN03080325	RCV: Proposals from Vendors - Supts	0		27JUL05			◆ RCV: Proposals from Vendors - Supts			
LN03080330	Evaluate Vendor Proposals - Supports	0	28JUL05	27JUL05			⚠ Evaluate Vendor Proposals - Supports			

Start Date 01JUN01
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**LCLS
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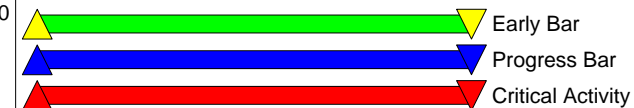
Linac



Activity ID	Activity Description	Orig Dur	Early Start	Early Finish							
					2004	2005	2006	2007	2008	2009	
LN03080080	RELEASE: RFP - Linac Type 4 Corrector Bend Magne	0		11AUG05							◆RELEASE: RFP - Linac Type 4 Corrector Bend Magne
LN03080085	Vendors Prep Proposals - Magnets	1	12AUG05	12AUG05							⚠Vendors Prep Proposals - Magnets
LN03080090	RCV: Proposals from Vendors - Magnet	0		12AUG05							◆RCV: Proposals from Vendors - Magnet
LN03080095	Evaluate Vendor Proposals - Magnets	2	15AUG05	16AUG05							⚠Evaluate Vendor Proposals - Magnets
LN03080390	Hand-off to Pre-Instl Qual Testing	0		30SEP05							◆Hand-off to Pre-Instl Qual Testing
LN03080180	Procure Misc Materials - Magnets	0	03OCT05	30SEP05							⚠Procure Misc Materials - Magnets
LN03080185	Fab Tooling	0	03OCT05	30SEP05							⚠Fab Tooling
LN03080360	Procure Misc Materials - Magnet Supports	0	03OCT05	30SEP05							⚠Procure Misc Materials - Magnet Supports
LN03080365	Fabricate Magnet Supports	0	03OCT05	30SEP05							⚠Fabricate Magnet Supports
LN03080370	Prep for, Clean & Plate Magnet Supts	0	03OCT05	30SEP05							⚠Prep for, Clean & Plate Magnet Supts
LN03080375	Prep for and Paint Magnet Supports (as required)	0	03OCT05	30SEP05							⚠Prep for and Paint Magnet Supports (as required)
LN03080380	Perform QC & Inspection on Magnets Supts	0	03OCT05	30SEP05							⚠Perform QC & Inspection on Magnets Supts
LN03080385	Assemble Magnet Supports	0	03OCT05	30SEP05							⚠Assemble Magnet Supports
LN03080190	Fab Magnet Core	1	03OCT05	03OCT05							⚠Fab Magnet Core
LN03080345	RCV: 1st Lot Magnet Supports from Vendor	0		03OCT05							◆RCV: 1st Lot Magnet Supports from Vendor
LN03080355	RCV: Remaining Magnet Supts from Vendor	0		03OCT05							◆RCV: Remaining Magnet Supts from Vendor
LN03080400	AVAIL: Corr Bend Mag Supts Ready for L01 Instl	0		03OCT05							◆AVAIL: Corr Bend Mag Supts Ready for L01 Instl
LN03080401	AVAIL: Corr Bend Mag Supts Ready for BC1 Instl	0		03OCT05							◆AVAIL: Corr Bend Mag Supts Ready for BC1 Instl
LN03080402	AVAIL: Corr Bend Mag Supts Ready for L03 Instl	0		03OCT05							◆AVAIL: Corr Bend Mag Supts Ready for L03 Instl
LN03080130	Procure Misc Materials - Magnets	20	03OCT05	28OCT05							⚠Procure Misc Materials - Magnets
LN03080615	Procure Magnet Safety Cover (42ea)	84	03OCT05	15FEB06							⚠Procure Magnet Safety Cover (42ea)
LN03080195	Fab Magnet Coils	0	04OCT05	03OCT05							⚠Fab Magnet Coils
LN03080205	Prep for and Paint Magnets (as required)	0	04OCT05	03OCT05							⚠Prep for and Paint Magnets (as required)
LN03080210	Assemble Magnets	0	04OCT05	03OCT05							⚠Assemble Magnets
LN03080215	Perform Magnet Fiducialization (as required)	0	04OCT05	03OCT05							⚠Perform Magnet Fiducialization (as required)
LN03080220	Perform QC & Inspection - Magnets	0	04OCT05	03OCT05							⚠Perform QC & Inspection - Magnets
LN03080225	Perform Magnetic Measurement (as required)	0	04OCT05	03OCT05							⚠Perform Magnetic Measurement (as required)
LN03080340	Vendor Fab 1st Lot - Supts	0	04OCT05	03OCT05							⚠Vendor Fab 1st Lot - Supts
LN03080350	Vendor Fab Remaining Lot - Supts	0	04OCT05	03OCT05							⚠Vendor Fab Remaining Lot - Supts
LN03080395	Perform Pre-Installation Qualification - Support	0	04OCT05	03OCT05							⚠Perform Pre-Installation Qualification - Support
LN03080105	Vendor Fab 1st Lot - Magnets	120	04OCT05	10APR06							⚠Vendor Fab 1st Lot - Magnets
LN03080135	Disassemble Magnet	1	31OCT05	31OCT05							⚠Disassemble Magnet
LN03080145	Refurbish Magnet Coils	7	01NOV05	09NOV05							⚠Refurbish Magnet Coils
LN03080150	Assemble Magnets	5	10NOV05	16NOV05							⚠Assemble Magnets
LN03080230	Hand-off to Pre-Instl Qual Testing	0		16NOV05							◆Hand-off to Pre-Instl Qual Testing
LN03080160	Prep for and Paint Magnets (as required)	0	17NOV05	16NOV05							⚠Prep for and Paint Magnets (as required)
LN03080165	Perform Magnet Fiducialization (as required)	0	17NOV05	16NOV05							⚠Perform Magnet Fiducialization (as required)

**LCLS
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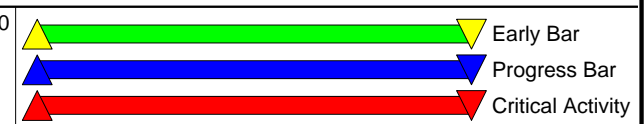
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish							
					2004	2005	2006	2007	2008	2009	
LN03080170	Perform QC & Inspection - Magnets	0	17NOV05	16NOV05			⚠ Perform QC & Inspection - Magnets				
LN03080175	Perform Magnetic Measurement (as required)	0	17NOV05	16NOV05			⚠ Perform Magnetic Measurement (as required)				
LN03080620	RCV: Magnet Safety Cover (42ea)	0		15FEB06			◆ RCV: Magnet Safety Cover (42ea)				
LN03080630	REQD: Reusable Safety Covers for Refurbishment	0		15FEB06			◆ REQD: Reusable Safety Covers for Refurbishment				
LN03080640	AVAIL: Magnet Safety Covers Ready for Instl	0		15FEB06			◆ AVAIL: Magnet Safety Covers Ready for Instl				
LN03080625	Fab and Assemble New Magnet Safety Covers (0ea)	0	16FEB06	15FEB06			⚠ Fab and Assemble New Magnet Safety Covers (0ea)				
LN03080635	Refurbish Reusable Safety Covers (0ea)	0	16FEB06	15FEB06			⚠ Refurbish Reusable Safety Covers (0ea)				
LN03080110	RCV: 1st Lot Magnets from Vendor	0		10APR06			◆ RCV: 1st Lot Magnets from Vendor				
LN03080120	RCV: Remaining Magnets from Vendor	0		10APR06			◆ RCV: Remaining Magnets from Vendor				
LN03080125	Hand-off to Pre-Instl Qual Testing	0		10APR06			◆ Hand-off to Pre-Instl Qual Testing				
LN03080240	AVAIL: Type 4 Corr Bend Mag Ready for L01 Instl	0		10APR06			◆ AVAIL: Type 4 Corr Bend Mag Ready for L01 Instl				
LN03080241	AVAIL: Type 4 Corr Bend Mag Ready for BC1 Instl	0		10APR06			◆ AVAIL: Type 4 Corr Bend Mag Ready for BC1 Instl				
LN03080242	AVAIL: Type 4 Corr Bend Mag Ready for L03 Instl	0		10APR06			◆ AVAIL: Type 4 Corr Bend Mag Ready for L03 Instl				
LN03080115	Vendor Fab Remaining Lot - Magnets	0	11APR06	10APR06			⚠ Vendor Fab Remaining Lot - Magnets				
LN03080235	Perform Magnet Pre-Instlation Qual	0	11APR06	10APR06			⚠ Perform Magnet Pre-Instlation Qual				
1.03.03.09 Bend Magnet (BYD_LTU)											
LN03090000	Define Magnet Requirements	25	03OCT06	06NOV06			⚠ Define Magnet Requirements				
LN0309	BEND MAGNET (BYD_LTU) SUMMARY	213	03OCT06	20AUG07			⚠ BEND MAGNET (BYD_LTU) SUMMARY				
LN03090600	Receive & Review Safety Cover Requirements	0	07NOV06	06NOV06			⚠ Receive & Review Safety Cover Requirements				
LN03090245	Define Magnet Support Requirements	3	07NOV06	09NOV06			⚠ Define Magnet Support Requirements				
LN03090005	Create ICD & Update LCLS Database	10	07NOV06	20NOV06			⚠ Create ICD & Update LCLS Database				
LN03090605	Develop Magnet Safety Cover Design	40	07NOV06	19JAN07			⚠ Develop Magnet Safety Cover Design				
LN03090250	Create ICD & Update LCLS Database	1	10NOV06	10NOV06			⚠ Create ICD & Update LCLS Database				
LN03090255	Review/Accept Reqmts, Update ICD & DB entries	1	13NOV06	13NOV06			⚠ Review/Accept Reqmts, Update ICD & DB entries				
LN03090260	Develop Preliminary Design - Magnet Supports	9	14NOV06	28NOV06			⚠ Develop Preliminary Design - Magnet Supports				
LN03090010	Review/Accept Reqmts, Update ICD & DB entries	2	21NOV06	22NOV06			⚠ Review/Accept Reqmts, Update ICD & DB entries				
LN03090015	Develop Preliminary Design - Magnet	10	27NOV06	08DEC06			⚠ Develop Preliminary Design - Magnet				
LN03090270	Conduct Preliminary Design Review (PDR)	3	29NOV06	01DEC06			⚠ Conduct Preliminary Design Review (PDR)				
LN03090280	Develop Final Design - Magnet Supports	6	04DEC06	11DEC06			⚠ Develop Final Design - Magnet Supports				
LN03090025	Develop Preliminary Dsn - Magnet Field Analysis	15	11DEC06	16JAN07			⚠ Develop Preliminary Dsn - Magnet Field Analysis				
LN03090290	Conduct Final Design Review (FDR)	3	12DEC06	14DEC06			⚠ Conduct Final Design Review (FDR)				
LN03090300	COMP: Bend Magnet Support (BYD_LTU) Design	0		14DEC06			◆ COMP: Bend Magnet Support (BYD_LTU) Design				
LN03090305	Prep Bid Pak - Magnet Supports	1	15DEC06	15DEC06			⚠ Prep Bid Pak - Magnet Supports				
LN03090315	RELEASE: RFP - Magnet Supports	0		15DEC06			◆ RELEASE: RFP - Magnet Supports				
LN03090360	Procure Misc Materials - Magnet Supports	20	15DEC06	29JAN07			⚠ Procure Misc Materials - Magnet Supports				
LN03090320	Vendors Prep Proposals - Magnet Supts	1	02JAN07	02JAN07			⚠ Vendors Prep Proposals - Magnet Supts				
LN03090325	RCV: Proposals from Vendors - Supts	0		02JAN07			◆ RCV: Proposals from Vendors - Supts				

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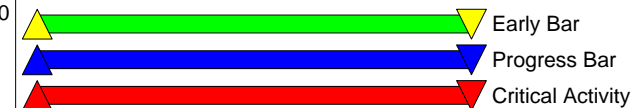
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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
LN03090330	Evaluate Vendor Proposals - Supports	2	03JAN07	04JAN07				⚠ Evaluate Vendor Proposals - Supports		
LN03090340	Vendor Fab 1st Lot - Supts	20	08JAN07	05FEB07				⚠ Vendor Fab 1st Lot - Supts		
LN03090030	Conduct Preliminary Design Review (PDR)	1	17JAN07	17JAN07				⚠ Conduct Preliminary Design Review (PDR)		
LN03090040	Develop Final Design - Magnets	10	18JAN07	31JAN07				⚠ Develop Final Design - Magnets		
LN03090610	COMP: Magnet Safety Design	0		19JAN07				◆ COMP: Magnet Safety Design		
LN03090615	Procure Magnet Safety Cover Material	30	22JAN07	05MAR07				⚠ Procure Magnet Safety Cover Material		
LN03090365	Fabricate Magnet Supports	9	30JAN07	09FEB07				⚠ Fabricate Magnet Supports		
LN03090050	Conduct Final Design Review (FDR)	2	01FEB07	02FEB07				⚠ Conduct Final Design Review (FDR)		
LN03090345	RCV: 1st Lot Magnet Supports from Vendor	0		05FEB07				◆ RCV: 1st Lot Magnet Supports from Vendor		
LN03090355	RCV: Remaining Magnet Supts from Vendor	0		05FEB07				◆ RCV: Remaining Magnet Supts from Vendor		
LN03090060	Develop Magnetic Measurement Plan	10	05FEB07	16FEB07				⚠ Develop Magnetic Measurement Plan		
LN03090350	Vendor Fab Remaining Lot - Supts	0	06FEB07	05FEB07				⚠ Vendor Fab Remaining Lot - Supts		
LN03090370	Prep for, Clean & Plate Magnet Supts	0	12FEB07	09FEB07				⚠ Prep for, Clean & Plate Magnet Supts		
LN03090375	Prep for and Paint Magnet Supports (as required)	0	12FEB07	09FEB07	Prep for and Paint Magnet Supports (as required)			⚠		
LN03090380	Perform QC & Inspection on Magnets Supts	9	12FEB07	23FEB07				⚠ Perform QC & Inspection on Magnets Supts		
LN03090065	COMP: Quad Magnet (BYD_LTU) Design	0		16FEB07				◆ COMP: Quad Magnet (BYD_LTU) Design		
LN03090130	Procure Misc Materials - Magnets	0	20FEB07	16FEB07				⚠ Procure Misc Materials - Magnets		
LN03090180	Procure Misc Materials - Magnets	0	20FEB07	16FEB07				⚠ Procure Misc Materials - Magnets		
LN03090185	Fab Tooling	0	20FEB07	16FEB07				⚠ Fab Tooling		
LN03090190	Fab Magnet Core	0	20FEB07	16FEB07				⚠ Fab Magnet Core		
LN03090195	Fab Magnet Coils	0	20FEB07	16FEB07				⚠ Fab Magnet Coils		
LN03090205	Prep for and Paint Magnets (as required)	0	20FEB07	16FEB07				⚠ Prep for and Paint Magnets (as required)		
LN03090210	Assemble Magnets	0	20FEB07	16FEB07				⚠ Assemble Magnets		
LN03090215	Perform Magnet Fiducialization (as required)	0	20FEB07	16FEB07				⚠ Perform Magnet Fiducialization (as required)		
LN03090220	Perform QC & Inspection - Magnets	0	20FEB07	16FEB07				⚠ Perform QC & Inspection - Magnets		
LN03090225	Perform Magnetic Measurement (as required)	0	20FEB07	16FEB07				⚠ Perform Magnetic Measurement (as required)		
LN03090070	Prep Bid Pak - Magnets	1	20FEB07	20FEB07				⚠ Prep Bid Pak - Magnets		
LN03090080	RELEASE: RFP -BYD_LTU Bend Magnet	0		20FEB07				◆ RELEASE: RFP -BYD_LTU Bend Magnet		
LN03090135	Disassemble Magnet	1	20FEB07	20FEB07				⚠ Disassemble Magnet		
LN03090085	Vendors Prep Proposals - Magnets	1	21FEB07	21FEB07				⚠ Vendors Prep Proposals - Magnets		
LN03090090	RCV: Proposals from Vendors - Magnet	0		21FEB07				◆ RCV: Proposals from Vendors - Magnet		
LN03090145	Refurbish Magnet Coils	1	21FEB07	21FEB07				⚠ Refurbish Magnet Coils		
LN03090230	Hand-off to Pre-Instl Qual Testing	0		21FEB07				◆ Hand-off to Pre-Instl Qual Testing		
LN03090150	Assemble Magnets	0	22FEB07	21FEB07				⚠ Assemble Magnets		
LN03090160	Prep for and Paint Magnets (as required)	0	22FEB07	21FEB07				⚠ Prep for and Paint Magnets (as required)		
LN03090165	Perform Magnet Fiducialization (as required)	0	22FEB07	21FEB07				⚠ Perform Magnet Fiducialization (as required)		
LN03090170	Perform QC & Inspection - Magnets	0	22FEB07	21FEB07				⚠ Perform QC & Inspection - Magnets		

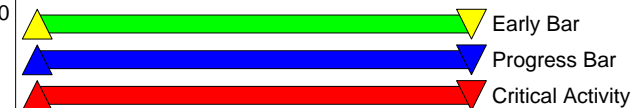
**LCLS
INTEGRATED SCHEDULE**

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 Finish Date 31MAR09
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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
LN03090175	Perform Magnetic Measurement (as required)	0	22FEB07	21FEB07				⚠ Perform Magnetic Measurement (as required)		
LN03090095	Evaluate Vendor Proposals - Magnets	2	22FEB07	23FEB07				⚠ Evaluate Vendor Proposals - Magnets		
LN03090385	Assemble Magnet Supports	22	26FEB07	27MAR07				⚠ Assemble Magnet Supports		
LN03090105	Vendor Fab 1st Lot - Magnets	120	27FEB07	15AUG07				⚠ Vendor Fab 1st Lot - Magnets		
LN03090620	RCV: Magnet Safety Cover Material	0		05MAR07				◆ RCV: Magnet Safety Cover Material		
LN03090630	REQD: Reusable Safety Covers for Refurbishment	0		05MAR07				◆ REQD: Reusable Safety Covers for Refurbishment		
LN03090640	AVAIL: Magnet Safety Covers Ready for Instl	0		05MAR07				◆ AVAIL: Magnet Safety Covers Ready for Instl		
LN03090625	Fab and Assemble New Magnet Safety Covers (0ea)	0	06MAR07	05MAR07				⚠ Fab and Assemble New Magnet Safety Covers (0ea)		
LN03090635	Refurbish Reusable Safety Covers (0ea)	0	06MAR07	05MAR07				⚠ Refurbish Reusable Safety Covers (0ea)		
LN03090390	Hand-off to Pre-Instl Qual Testing	0		27MAR07				◆ Hand-off to Pre-Instl Qual Testing		
LN03090395	Perform Pre-Installation Qualification - Support	3	28MAR07	30MAR07				⚠ Perform Pre-Installation Qualification - Support		
LN03090400	AVAIL: BYD_LTU Magnet Supts Ready for Instl	0		30MAR07				◆ AVAIL: BYD_LTU Magnet Supts Ready for Instl		
LN03090110	RCV: 1st Lot Magnets from Vendor	0		15AUG07				◆ RCV: 1st Lot Magnets from Vendor		
LN03090120	RCV: Remaining Magnets from Vendor	0		15AUG07				◆ RCV: Remaining Magnets from Vendor		
LN03090125	Hand-off to Pre-Instl Qual Testing	0		15AUG07				◆ Hand-off to Pre-Instl Qual Testing		
LN03090115	Vendor Fab Remaining Lot - Magnets	0	16AUG07	15AUG07				⚠ Vendor Fab Remaining Lot - Magnets		
LN03090235	Perform Magnet Pre-Instlation Qual	3	16AUG07	20AUG07				⚠ Perform Magnet Pre-Instlation Qual		
LN03090240	AVAIL: BYD_LTU Bend Magnet Ready for Instl	0		20AUG07				◆ AVAIL: BYD_LTU Bend Magnet Ready for Instl		
1.03.03.10 Quad Magnet (QA)										
LN03100000	Define Magnet Requirements	5	01JUN05*	07JUN05				⚠ Define Magnet Requirements		
LN0310	QUAD MAGNET (QA_) SUMMARY	132	01JUN05	07DEC05				⚠ QUAD MAGNET (QA_) SUMMARY		
LN03100245	Define Magnet Support Requirements	2	08JUN05	09JUN05				⚠ Define Magnet Support Requirements		
LN03100005	Create ICD & Update LCLS Database	10	08JUN05	21JUN05				⚠ Create ICD & Update LCLS Database		
LN03100250	Create ICD & Update LCLS Database	1	10JUN05	10JUN05				⚠ Create ICD & Update LCLS Database		
LN03100255	Review/Accept Reqmts, Update ICD & DB entries	1	13JUN05	13JUN05				⚠ Review/Accept Reqmts, Update ICD & DB entries		
LN03100260	Develop Preliminary Design - Magnet Supports	2	14JUN05	15JUN05				⚠ Develop Preliminary Design - Magnet Supports		
LN03100270	Conduct Preliminary Design Review (PDR)	1	16JUN05	16JUN05				⚠ Conduct Preliminary Design Review (PDR)		
LN03100280	Develop Final Design - Magnet Supports	2	17JUN05	20JUN05				⚠ Develop Final Design - Magnet Supports		
LN03100290	Conduct Final Design Review (FDR)	1	21JUN05	21JUN05				⚠ Conduct Final Design Review (FDR)		
LN03100300	COMP: Quad Magnet Supports (QA_Quad) Design	0		21JUN05				◆ COMP: Quad Magnet Supports (QA_Quad) Design		
LN03100305	Prep Bid Pak - Magnet Supports	1	22JUN05	22JUN05				⚠ Prep Bid Pak - Magnet Supports		
LN03100315	RELEASE: RFP - Magnet Supports	0		22JUN05				◆ RELEASE: RFP - Magnet Supports		
LN03100010	Review/Accept Reqmts, Update ICD & DB entries	2	22JUN05	23JUN05				⚠ Review/Accept Reqmts, Update ICD & DB entries		
LN03100320	Vendors Prep Proposals - Magnet Supts	1	23JUN05	23JUN05				⚠ Vendors Prep Proposals - Magnet Supts		
LN03100325	RCV: Proposals from Vendors - Supts	0		23JUN05				◆ RCV: Proposals from Vendors - Supts		
LN03100330	Evaluate Vendor Proposals - Supports	1	24JUN05	24JUN05				⚠ Evaluate Vendor Proposals - Supports		
LN03100015	Develop Preliminary Design - Magnet	10	24JUN05	08JUL05				⚠ Develop Preliminary Design - Magnet		



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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish							
					2004	2005	2006	2007	2008	2009	
LN03100025	Develop Preliminary Dsn - Magnet Field Analysis	1	11JUL05	11JUL05				⚠ Develop Preliminary Dsn - Magnet Field Analysis			
LN03100030	Conduct Preliminary Design Review (PDR)	0	12JUL05	11JUL05				⚠ Conduct Preliminary Design Review (PDR)			
LN03100040	Develop Final Design - Magnets	10	12JUL05	25JUL05				⚠ Develop Final Design - Magnets			
LN03100050	Conduct Final Design Review (FDR)	2	26JUL05	27JUL05				⚠ Conduct Final Design Review (FDR)			
LN03100060	Develop Magnetic Measurement Plan	2	28JUL05	29JUL05				⚠ Develop Magnetic Measurement Plan			
LN03100065	COMP: Quad Magnet (QA_Quad) Design	0		29JUL05				◆ COMP: Quad Magnet (QA_Quad) Design			
LN03100070	Prep Bid Pak - Magnets	20	01AUG05	26AUG05				⚠ Prep Bid Pak - Magnets			
LN03100080	RELEASE: RFP - QA_Quad Magnet	0		26AUG05				◆ RELEASE: RFP - QA_Quad Magnet			
LN03100085	Vendors Prep Proposals - Magnets	1	29AUG05	29AUG05				⚠ Vendors Prep Proposals - Magnets			
LN03100090	RCV: Proposals from Vendors - Magnet	0		29AUG05				◆ RCV: Proposals from Vendors - Magnet			
LN03100095	Evaluate Vendor Proposals - Magnets	0	30AUG05	29AUG05				⚠ Evaluate Vendor Proposals - Magnets			
LN03100180	Procure Misc Materials - Magnets	0	03OCT05	30SEP05				⚠ Procure Misc Materials - Magnets			
LN03100185	Fab Tooling	0	03OCT05	30SEP05				⚠ Fab Tooling			
LN03100190	Fab Magnet Core	0	03OCT05	30SEP05				⚠ Fab Magnet Core			
LN03100195	Fab Magnet Coils	0	03OCT05	30SEP05				⚠ Fab Magnet Coils			
LN03100205	Prep for and Paint Magnets (as required)	0	03OCT05	30SEP05				⚠ Prep for and Paint Magnets (as required)			
LN03100210	Assemble Magnets	0	03OCT05	30SEP05				⚠ Assemble Magnets			
LN03100215	Perform Magnet Fiducialization (as required)	0	03OCT05	30SEP05				⚠ Perform Magnet Fiducialization (as required)			
LN03100220	Perform QC & Inspection - Magnets	0	03OCT05	30SEP05				⚠ Perform QC & Inspection - Magnets			
LN03100225	Perform Magnetic Measurement (as required)	0	03OCT05	30SEP05				⚠ Perform Magnetic Measurement (as required)			
LN03100110	RCV: 1st Lot Magnets from Vendor	0		03OCT05				◆ RCV: 1st Lot Magnets from Vendor			
LN03100120	RCV: Remaining Magnets from Vendor	0		03OCT05				◆ RCV: Remaining Magnets from Vendor			
LN03100125	Hand-off to Pre-Instl Qual Testing	0		03OCT05				◆ Hand-off to Pre-Instl Qual Testing			
LN03100130	Procure Misc Materials - Magnets	20	03OCT05	28OCT05				⚠ Procure Misc Materials - Magnets			
LN03100360	Procure Misc Materials - Magnet Supports	20	03OCT05	28OCT05				⚠ Procure Misc Materials - Magnet Supports			
LN03100105	Vendor Fab 1st Lot - Magnets	0	04OCT05	03OCT05				⚠ Vendor Fab 1st Lot - Magnets			
LN03100115	Vendor Fab Remaining Lot - Magnets	0	04OCT05	03OCT05				⚠ Vendor Fab Remaining Lot - Magnets			
LN03100340	Vendor Fab 1st Lot - Supts	40	04OCT05	30NOV05				⚠ Vendor Fab 1st Lot - Supts			
LN03100365	Fabricate Magnet Supports	0	31OCT05	28OCT05				⚠ Fabricate Magnet Supports			
LN03100370	Prep for, Clean & Plate Magnet Supts	0	31OCT05	28OCT05				⚠ Prep for, Clean & Plate Magnet Supts			
LN03100375	Prep for and Paint Magnet Supports (as required)	0	31OCT05	28OCT05				⚠ Prep for and Paint Magnet Supports (as required)			
LN03100380	Perform QC & Inspection on Magnets Supts	0	31OCT05	28OCT05				⚠ Perform QC & Inspection on Magnets Supts			
LN03100135	Disassemble Magnet	1	31OCT05	31OCT05				⚠ Disassemble Magnet			
LN03100385	Assemble Magnet Supports	10	31OCT05	11NOV05				⚠ Assemble Magnet Supports			
LN03100145	Refurbish Magnet Coils	1	01NOV05	01NOV05				⚠ Refurbish Magnet Coils			
LN03100150	Assemble Magnets	2	02NOV05	03NOV05				⚠ Assemble Magnets			
LN03100160	Prep for and Paint Magnets (as required)	0	04NOV05	03NOV05				⚠ Prep for and Paint Magnets (as required)			



**LCLS
INTEGRATED SCHEDULE**

Linac

Start Date 01JUN01
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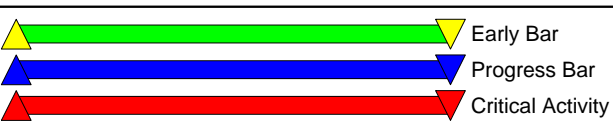
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
LN03100165	Perform Magnet Fiducialization (as required)	0	04NOV05	03NOV05				⚠ Perform Magnet Fiducialization (as required)		
LN03100170	Perform QC & Inspection - Magnets	0	04NOV05	03NOV05				⚠ Perform QC & Inspection - Magnets		
LN03100175	Perform Magnetic Measurement (as required)	20	04NOV05	05DEC05				⚠ Perform Magnetic Measurement (as required)		
LN03100390	Hand-off to Pre-Instl Qual Testing	0		11NOV05				◆ Hand-off to Pre-Instl Qual Testing		
LN03100345	RCV: 1st Lot Magnet Supports from Vendor	0		30NOV05				◆ RCV: 1st Lot Magnet Supports from Vendor		
LN03100355	RCV: Remaining Magnet Supts from Vendor	0		30NOV05				◆ RCV: Remaining Magnet Supts from Vendor		
LN03100350	Vendor Fab Remaining Lot - Supts	0	01DEC05	30NOV05				⚠ Vendor Fab Remaining Lot - Supts		
LN03100395	Perform Pre-Installation Qualification - Support	1	01DEC05	01DEC05				⚠ Perform Pre-Installation Qualification - Support		
LN03100400	AVAIL: QA_ Quad Magnet Supts Ready for BC1 Instl	0		01DEC05				◆ AVAIL: QA_ Quad Magnet Supts Ready for BC1 Instl		
LN03100401	AVAIL: QA_ Quad Magnet Supts Ready for BC2 Instl	0		01DEC05				◆ AVAIL: QA_ Quad Magnet Supts Ready for BC2 Instl		
LN03100230	Hand-off to Pre-Instl Qual Testing	0		05DEC05				◆ Hand-off to Pre-Instl Qual Testing		
LN03100235	Perform Magnet Pre-Instl Qual	2	06DEC05	07DEC05				⚠ Perform Magnet Pre-Instl Qual		
LN03100240	AVAIL: QA_ Quad Magnets Ready for BC1 Instl	0		07DEC05				◆ AVAIL: QA_ Quad Magnets Ready for BC1 Instl		
LN03100241	AVAIL: QA_ Quad Magnets Ready for BC2 Instl	0		07DEC05				◆ AVAIL: QA_ Quad Magnets Ready for BC2 Instl		
1.03.03.11 Bend Magnet (BYPM_LTU)										
LN03110000	Define Magnet Requirements	25	03OCT05	04NOV05				⚠ Define Magnet Requirements		
LN0311	BEND MAGNET (BYPM_LTU) SUMMARY	476	03OCT05	18SEP07				⚠ BEND MAGNET (BYPM_LTU) SUMMARY		
LN03110005	Create ICD & Update LCLS Database	10	07NOV05	18NOV05				⚠ Create ICD & Update LCLS Database		
LN03110010	Review/Accept Reqmts, Update ICD & DB entries	2	21NOV05	22NOV05				⚠ Review/Accept Reqmts, Update ICD & DB entries		
LN03110015	Develop Preliminary Design - Magnet	10	23NOV05	08DEC05				⚠ Develop Preliminary Design - Magnet		
LN03110025	Develop Preliminary Dsn - Magnet Field Analysis	15	09DEC05	13JAN06				⚠ Develop Preliminary Dsn - Magnet Field Analysis		
LN03110030	Conduct Preliminary Design Review (PDR)	1	17JAN06	17JAN06				⚠ Conduct Preliminary Design Review (PDR)		
LN03110040	Develop Final Design - Magnets	10	18JAN06	31JAN06				⚠ Develop Final Design - Magnets		
LN03110050	Conduct Final Design Review (FDR)	2	01FEB06	02FEB06				⚠ Conduct Final Design Review (FDR)		
LN03110060	Develop Magnetic Measurement Plan	10	03FEB06	16FEB06				⚠ Develop Magnetic Measurement Plan		
LN03110065	COMP: Bend Magnet (BYMP_LTU) Design	0		16FEB06				◆ COMP: Bend Magnet (BYMP_LTU) Design		
LN03110080	RELEASE: RFP - BYMP_LTU Bend Magnet	0		02OCT06				◆ RELEASE: RFP - BYMP_LTU Bend Magnet		
LN03110070	Prep Bid Pak - Magnets	0	03OCT06	02OCT06				⚠ Prep Bid Pak - Magnets		
LN03110130	Procure Misc Materials - Magnets	0	03OCT06	02OCT06				⚠ Procure Misc Materials - Magnets		
LN03110600	Receive & Review Safety Cover Requirements	0	03OCT06	02OCT06				⚠ Receive & Review Safety Cover Requirements		
LN03110085	Vendors Prep Proposals - Magnets	1	03OCT06	03OCT06				⚠ Vendors Prep Proposals - Magnets		
LN03110090	RCV: Proposals from Vendors - Magnet	0		03OCT06				◆ RCV: Proposals from Vendors - Magnet		
LN03110135	Disassemble Magnet	1	03OCT06	03OCT06				⚠ Disassemble Magnet		
LN03110245	Define Magnet Support Requirements	2	03OCT06	04OCT06				⚠ Define Magnet Support Requirements		
LN03110170	Prep Bid Pak - Misc Materials - Magnets	5	03OCT06	09OCT06				⚠ Prep Bid Pak - Misc Materials - Magnets		
LN03110605	Develop Magnet Safety Cover Design	40	03OCT06	29NOV06				⚠ Develop Magnet Safety Cover Design		
LN03110095	Evaluate Vendor Proposals - Magnets	0	04OCT06	03OCT06				⚠ Evaluate Vendor Proposals - Magnets		

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**LCLS
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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish							
					2004	2005	2006	2007	2008	2009	
LN03110110	RCV: 1st Lot Magnets from Vendor	0		04OCT06							◆RCV: 1st Lot Magnets from Vendor
LN03110120	RCV: Remaining Magnets from Vendor	0		04OCT06							◆RCV: Remaining Magnets from Vendor
LN03110125	Hand-off to Pre-Instl Qual Testing	0		04OCT06							◆Hand-off to Pre-Instl Qual Testing
LN03110145	Refurbish Magnet Coils	1	04OCT06	04OCT06							⚠Refurbish Magnet Coils
LN03110105	Vendor Fab 1st Lot - Magnets	0	05OCT06	04OCT06							⚠Vendor Fab 1st Lot - Magnets
LN03110115	Vendor Fab Remaining Lot - Magnets	0	05OCT06	04OCT06							⚠Vendor Fab Remaining Lot - Magnets
LN03110150	Assemble Magnets	0	05OCT06	04OCT06							⚠Assemble Magnets
LN03110152	Prep for and Paint Magnets (as required)	0	05OCT06	04OCT06							⚠Prep for and Paint Magnets (as required)
LN03110154	Perform Magnet Fiducialization (as required)	0	05OCT06	04OCT06							⚠Perform Magnet Fiducialization (as required)
LN03110156	Perform QC & Inspection - Magnets	0	05OCT06	04OCT06							⚠Perform QC & Inspection - Magnets
LN03110158	Perform Magnetic Measurement (as required)	0	05OCT06	04OCT06							⚠Perform Magnetic Measurement (as required)
LN03110250	Create ICD & Update LCLS Database	1	05OCT06	05OCT06							⚠Create ICD & Update LCLS Database
LN03110255	Review/Accept Reqmts, Update ICD & DB entries	1	06OCT06	06OCT06							⚠Review/Accept Reqmts, Update ICD & DB entries
LN03110172	RELEASE: RFP - Misc Materials - Magnets	0		09OCT06							◆RELEASE: RFP - Misc Materials - Magnets
LN03110260	Develop Preliminary Design - Magnet Supports	6	09OCT06	16OCT06							⚠Develop Preliminary Design - Magnet Supports
LN03110174	Vendors Prep Proposals - Misc Mtrls - Magnets	5	10OCT06	16OCT06							⚠Vendors Prep Proposals - Misc Mtrls - Magnets
LN03110176	RCV: Vendor Proposals - Misc Materials - Magnets	0		16OCT06							◆RCV: Vendor Proposals - Misc Materials - Magnets
LN03110270	Conduct Preliminary Design Review (PDR)	2	17OCT06	18OCT06							⚠Conduct Preliminary Design Review (PDR)
LN03110178	Evaluate Vendor Proposals - Misc Mtrls - Magnets	5	17OCT06	23OCT06							⚠Evaluate Vendor Proposals - Misc Mtrls - Magnets
LN03110280	Develop Final Design - Magnet Supports	4	19OCT06	24OCT06							⚠Develop Final Design - Magnet Supports
LN03110290	Conduct Final Design Review (FDR)	2	25OCT06	26OCT06							⚠Conduct Final Design Review (FDR)
LN03110182	Vendor Fab & Assy - Misc Materials - Magnets	20	25OCT06	21NOV06							⚠Vendor Fab & Assy - Misc Materials - Magnets
LN03110300	COMP: Bend Magnet Supports (BYMP_LTU) Design	0		26OCT06							◆COMP: Bend Magnet Supports (BYMP_LTU) Design
LN03110305	Prep Bid Pak - Magnet Supports	1	27OCT06	27OCT06							⚠Prep Bid Pak - Magnet Supports
LN03110315	RELEASE: RFP - Magnet Supports	0		27OCT06							◆RELEASE: RFP - Magnet Supports
LN03110360	Procure Misc Materials - Magnet Supports	20	27OCT06	27NOV06							⚠Procure Misc Materials - Magnet Supports
LN03110320	Vendors Prep Proposals - Magnet Supts	1	30OCT06	30OCT06							⚠Vendors Prep Proposals - Magnet Supts
LN03110325	RCV: Proposals from Vendors - Supts	0		30OCT06							◆RCV: Proposals from Vendors - Supts
LN03110330	Evaluate Vendor Proposals - Supports	1	31OCT06	31OCT06							⚠Evaluate Vendor Proposals - Supports
LN03110340	Vendor Fab 1st Lot - Supts	20	02NOV06	01DEC06							⚠Vendor Fab 1st Lot - Supts
LN03110184	RCV: from Vendor - Misc Materials - Magnets	0		21NOV06							◆RCV: from Vendor - Misc Materials - Magnets
LN03110190	Fab Tooling	20	22NOV06	05JAN07							⚠Fab Tooling
LN03110365	Fabricate Magnet Supports	6	28NOV06	05DEC06							⚠Fabricate Magnet Supports
LN03110610	COMP: Magnet Safety Design	0		29NOV06							◆COMP: Magnet Safety Design
LN03110615	Procure Magnet Safety Cover Material	60	30NOV06	12MAR07							⚠Procure Magnet Safety Cover Material
LN03110345	RCV: 1st Lot Magnet Supports from Vendor	0		01DEC06							◆RCV: 1st Lot Magnet Supports from Vendor
LN03110355	RCV: Remaining Magnet Supts from Vendor	0		01DEC06							◆RCV: Remaining Magnet Supts from Vendor



**LCLS
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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
LN03110350	Vendor Fab Remaining Lot - Supts	0	04DEC06	01DEC06				⚠ Vendor Fab Remaining Lot - Supts		
LN03110370	Prep for, Clean & Plate Magnet Supts	0	06DEC06	05DEC06				⚠ Prep for, Clean & Plate Magnet Supts		
LN03110375	Prep for and Paint Magnet Supports (as required)	0	06DEC06	05DEC06				⚠ Prep for and Paint Magnet Supports (as required)		
LN03110380	Perform QC & Inspection on Magnets Supts	6	06DEC06	13DEC06				⚠ Perform QC & Inspection on Magnets Supts		
LN03110385	Assemble Magnet Supports	15	14DEC06	19JAN07				⚠ Assemble Magnet Supports		
LN03110192	Fab Magnet Core	80	08JAN07	01MAY07				⚠ Fab Magnet Core		
LN03110390	Hand-off to Pre-Instl Qual Testing	0		19JAN07				◆ Hand-off to Pre-Instl Qual Testing		
LN03110395	Perform Pre-Installation Qualification - Support	2	22JAN07	23JAN07				⚠ Perform Pre-Installation Qualification - Support		
LN03110400	AVAIL: BYMP_LTU Magnet Supts Ready for Instl	0		23JAN07				◆ AVAIL: BYMP_LTU Magnet Supts Ready for Instl		
LN03110620	RCV: Magnet Safety Cover (3ea)	0		12MAR07				◆ RCV: Magnet Safety Cover (3ea)		
LN03110630	REQD: Reusable Safety Covers for Refurbishment	0		12MAR07				◆ REQD: Reusable Safety Covers for Refurbishment		
LN03110640	AVAIL: Magnet Safety Covers Ready for Instl	0		12MAR07				◆ AVAIL: Magnet Safety Covers Ready for Instl		
LN03110625	Fab and Assemble New Magnet Safety Covers (0ea)	0	13MAR07	12MAR07				⚠ Fab and Assemble New Magnet Safety Covers (0ea)		
LN03110635	Refurbish Reusable Safety Covers (0ea)	0	13MAR07	12MAR07				⚠ Refurbish Reusable Safety Covers (0ea)		
LN03110194	Fab Magnet Coils	0	02MAY07	01MAY07				⚠ Fab Magnet Coils		
LN03110205	Prep for and Paint Magnets (as required)	20	02MAY07	30MAY07				⚠ Prep for and Paint Magnets (as required)		
LN03110210	Assemble Magnets	25	31MAY07	05JUL07				⚠ Assemble Magnets		
LN03110215	Perform Magnet Fiducialization (as required)	10	06JUL07	19JUL07				⚠ Perform Magnet Fiducialization (as required)		
LN03110220	Perform QC & Inspection - Magnets	20	20JUL07	16AUG07				⚠ Perform QC & Inspection - Magnets		
LN03110225	Perform Magnetic Measurement (as required)	20	17AUG07	14SEP07				⚠ Perform Magnetic Measurement (as required)		
LN03110230	Hand-off to Pre-Instl Qual Testing	0		14SEP07				◆ Hand-off to Pre-Instl Qual Testing		
LN03110235	Perform Magnet Pre-Instl Qual	2	17SEP07	18SEP07				⚠ Perform Magnet Pre-Instl Qual		
LN03110240	AVAIL: BYMP_LTU Magnets Ready for Instl	0		18SEP07				◆ AVAIL: BYMP_LTU Magnets Ready for Instl		
1.03.03.12 Bend Magnet (BYKIK_LTU)										
LN03120000	Define Magnet Requirements	25	03OCT06	06NOV06				⚠ Define Magnet Requirements		
LN0312	BEND MAGNET (BYKIK_LTU) SUMMARY	297	03OCT06	04JAN08				⚠ BEND MAGNET (BYKIK_LTU) SUMMARY		
LN03120600	Receive & Review Safety Cover Requirements	0	07NOV06	06NOV06				⚠ Receive & Review Safety Cover Requirements		
LN03120245	Define Magnet Support Requirements	2	07NOV06	08NOV06				⚠ Define Magnet Support Requirements		
LN03120005	Create ICD & Update LCLS Database	10	07NOV06	20NOV06				⚠ Create ICD & Update LCLS Database		
LN03120605	Develop Magnet Safety Cover Design	40	07NOV06	19JAN07				⚠ Develop Magnet Safety Cover Design		
LN03120250	Create ICD & Update LCLS Database	1	09NOV06	09NOV06				⚠ Create ICD & Update LCLS Database		
LN03120255	Review/Accept Reqmts, Update ICD & DB entries	1	10NOV06	10NOV06				⚠ Review/Accept Reqmts, Update ICD & DB entries		
LN03120260	Develop Preliminary Design - Magnet Supports	6	13NOV06	20NOV06				⚠ Develop Preliminary Design - Magnet Supports		
LN03120010	Review/Accept Reqmts, Update ICD & DB entries	2	21NOV06	22NOV06				⚠ Review/Accept Reqmts, Update ICD & DB entries		
LN03120270	Conduct Preliminary Design Review (PDR)	2	21NOV06	22NOV06				⚠ Conduct Preliminary Design Review (PDR)		
LN03120280	Develop Final Design - Magnet Supports	4	27NOV06	30NOV06				⚠ Develop Final Design - Magnet Supports		
LN03120015	Develop Preliminary Design - Magnet	10	27NOV06	08DEC06				⚠ Develop Preliminary Design - Magnet		

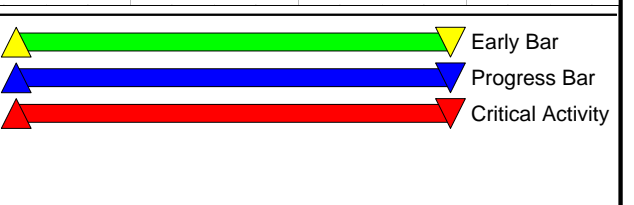
Start Date 01JUN01
Finish Date 31MAR09
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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish							
					2004	2005	2006	2007	2008	2009	
LN03120290	Conduct Final Design Review (FDR)	2	01DEC06	04DEC06							⚠ Conduct Final Design Review (FDR)
LN03120300	COMP: Bend Magnet Supports (BYKIK_LTU) Design	0		04DEC06							⬠ COMP: Bend Magnet Supports (BYKIK_LTU) Design
LN03120305	Prep Bid Pak - Magnet Supports	1	05DEC06	05DEC06							⚠ Prep Bid Pak - Magnet Supports
LN03120315	RELEASE: RFP - Magnet Supports	0		05DEC06							⬠ RELEASE: RFP - Magnet Supports
LN03120360	Procure Misc Materials - Magnet Supports	20	05DEC06	17JAN07							⚠ Procure Misc Materials - Magnet Supports
LN03120320	Vendors Prep Proposals - Magnet Supts	1	06DEC06	06DEC06							⚠ Vendors Prep Proposals - Magnet Supts
LN03120325	RCV: Proposals from Vendors - Supts	0		06DEC06							⬠ RCV: Proposals from Vendors - Supts
LN03120330	Evaluate Vendor Proposals - Supports	1	07DEC06	07DEC06							⚠ Evaluate Vendor Proposals - Supports
LN03120025	Develop Preliminary Dsn - Magnet Field Analysis	15	11DEC06	16JAN07							⚠ Develop Preliminary Dsn - Magnet Field Analysis
LN03120340	Vendor Fab 1st Lot - Supts	20	11DEC06	23JAN07							⚠ Vendor Fab 1st Lot - Supts
LN03120030	Conduct Preliminary Design Review (PDR)	1	17JAN07	17JAN07							⚠ Conduct Preliminary Design Review (PDR)
LN03120365	Fabricate Magnet Supports	6	18JAN07	25JAN07							⚠ Fabricate Magnet Supports
LN03120040	Develop Final Design - Magnets	10	18JAN07	31JAN07							⚠ Develop Final Design - Magnets
LN03120610	COMP: Magnet Safety Design	0		19JAN07							⬠ COMP: Magnet Safety Design
LN03120615	Procure Magnet Safety Cover (1ea)	20	22JAN07	16FEB07							⚠ Procure Magnet Safety Cover (1ea)
LN03120345	RCV: 1st Lot Magnet Supports from Vendor	0		23JAN07							⬠ RCV: 1st Lot Magnet Supports from Vendor
LN03120355	RCV: Remaining Magnet Supts from Vendor	0		23JAN07							⬠ RCV: Remaining Magnet Supts from Vendor
LN03120350	Vendor Fab Remaining Lot - Supts	0	24JAN07	23JAN07							⚠ Vendor Fab Remaining Lot - Supts
LN03120370	Prep for, Clean & Plate Magnet Supts	0	26JAN07	25JAN07							⚠ Prep for, Clean & Plate Magnet Supts
LN03120375	Prep for and Paint Magnet Supports (as required)	0	26JAN07	25JAN07							⚠ Prep for and Paint Magnet Supports (as required)
LN03120380	Perform QC & Inspection on Magnets Supts	6	26JAN07	02FEB07							⚠ Perform QC & Inspection on Magnets Supts
LN03120050	Conduct Final Design Review (FDR)	2	01FEB07	02FEB07							⚠ Conduct Final Design Review (FDR)
LN03120060	Develop Magnetic Measurement Plan	10	05FEB07	16FEB07							⚠ Develop Magnetic Measurement Plan
LN03120385	Assemble Magnet Supports	15	05FEB07	26FEB07							⚠ Assemble Magnet Supports
LN03120065	COMP: Bend Magnet (BYKIK_LTU) Design	0		16FEB07							⬠ COMP: Bend Magnet (BYKIK_LTU) Design
LN03120080	RELEASE: RFP - BYKIK_LTU Bend Magnet	0		16FEB07							⬠ RELEASE: RFP - BYKIK_LTU Bend Magnet
LN03120620	RCV: Magnet Safety Cover Material	0		16FEB07							⬠ RCV: Magnet Safety Cover Material
LN03120630	REQD: Reusable Safety Covers for Refurbishment	0		16FEB07							⬠ REQD: Reusable Safety Covers for Refurbishment
LN03120640	AVAIL: Magnet Safety Covers Ready for Instl	0		16FEB07							⬠ AVAIL: Magnet Safety Covers Ready for Instl
LN03120070	Prep Bid Pak - Magnets	0	20FEB07	16FEB07							⚠ Prep Bid Pak - Magnets
LN03120130	Procure Misc Materials - Magnets	0	20FEB07	16FEB07							⚠ Procure Misc Materials - Magnets
LN03120625	Fab and Assemble New Magnet Safety Covers (0ea)	0	20FEB07	16FEB07							⚠ Fab and Assemble New Magnet Safety Covers (0ea)
LN03120635	Refurbish Reusable Safety Covers (0ea)	0	20FEB07	16FEB07							⚠ Refurbish Reusable Safety Covers (0ea)
LN03120085	Vendors Prep Proposals - Magnets	1	20FEB07	20FEB07							⚠ Vendors Prep Proposals - Magnets
LN03120090	RCV: Proposals from Vendors - Magnet	0		20FEB07							⬠ RCV: Proposals from Vendors - Magnet
LN03120135	Disassemble Magnet	1	20FEB07	20FEB07							⚠ Disassemble Magnet
LN03120180	Procure Misc Materials - Magnets	20	20FEB07	19MAR07							⚠ Procure Misc Materials - Magnets



**LCLS
INTEGRATED SCHEDULE**

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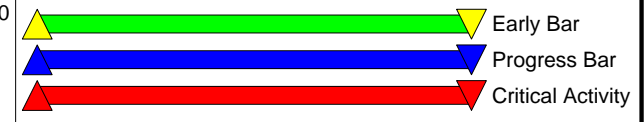
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
LN03120095	Evaluate Vendor Proposals - Magnets	0	21FEB07	20FEB07				⚠ Evaluate Vendor Proposals - Magnets		
LN03120110	RCV: 1st Lot Magnets from Vendor	0		21FEB07				◆ RCV: 1st Lot Magnets from Vendor		
LN03120120	RCV: Remaining Magnets from Vendor	0		21FEB07				◆ RCV: Remaining Magnets from Vendor		
LN03120125	Hand-off to Pre-Instl Qual Testing	0		21FEB07				◆ Hand-off to Pre-Instl Qual Testing		
LN03120145	Refurbish Magnet Coils	1	21FEB07	21FEB07				⚠ Refurbish Magnet Coils		
LN03120105	Vendor Fab 1st Lot - Magnets	0	22FEB07	21FEB07				⚠ Vendor Fab 1st Lot - Magnets		
LN03120115	Vendor Fab Remaining Lot - Magnets	0	22FEB07	21FEB07				⚠ Vendor Fab Remaining Lot - Magnets		
LN03120150	Assemble Magnets	0	22FEB07	21FEB07				⚠ Assemble Magnets		
LN03120160	Prep for and Paint Magnets (as required)	0	22FEB07	21FEB07				⚠ Prep for and Paint Magnets (as required)		
LN03120165	Perform Magnet Fiducialization (as required)	0	22FEB07	21FEB07				⚠ Perform Magnet Fiducialization (as required)		
LN03120170	Perform QC & Inspection - Magnets	0	22FEB07	21FEB07				⚠ Perform QC & Inspection - Magnets		
LN03120175	Perform Magnetic Measurement (as required)	0	22FEB07	21FEB07				⚠ Perform Magnetic Measurement (as required)		
LN03120390	Hand-off to Pre-Instl Qual Testing	0		26FEB07				◆ Hand-off to Pre-Instl Qual Testing		
LN03120395	Perform Pre-Installation Qualification - Support	2	27FEB07	28FEB07				⚠ Perform Pre-Installation Qualification - Support		
LN03120400	AVAIL: BYKIK_LTU Magnet Supts Ready for Instl	0		28FEB07				◆ AVAIL: BYKIK_LTU Magnet Supts Ready for Instl		
LN03120185	Fab Tooling	30	20MAR07	30APR07				⚠ Fab Tooling		
LN03120190	Fab Magnet Core	40	01MAY07	26JUN07				⚠ Fab Magnet Core		
LN03120195	Fab Magnet Coils	60	27JUN07	20SEP07				⚠ Fab Magnet Coils		
LN03120205	Prep for and Paint Magnets (as required)	5	21SEP07	27SEP07				⚠ Prep for and Paint Magnets (as required)		
LN03120210	Assemble Magnets	5	28SEP07	04OCT07				⚠ Assemble Magnets		
LN03120215	Perform Magnet Fiducialization (as required)	10	05OCT07	18OCT07				⚠ Perform Magnet Fiducialization (as required)		
LN03120220	Perform QC & Inspection - Magnets	20	19OCT07	15NOV07				⚠ Perform QC & Inspection - Magnets		
LN03120225	Perform Magnetic Measurement (as required)	20	16NOV07	02JAN08				⚠ Perform Magnetic Measurement (as required)		
LN03120230	Hand-off to Pre-Instl Qual Testing	0		02JAN08				◆ Hand-off to Pre-Instl Qual Testing		
LN03120235	Perform Magnet Pre-Instl Qual	2	03JAN08	04JAN08				⚠ Perform Magnet Pre-Instl Qual		
LN03120240	AVAIL: BYKIK_LTU Magnet Ready for Instl	0		04JAN08				◆ AVAIL: BYKIK_LTU Magnet Ready for Instl		
1.03.03.13 Bend Magnet (BYW_LTU)										
LN03130000	RCV: Magnet Requirements from System Integ	0	16DEC04					◆ RCV: Magnet Requirements from System Integ		
LN0313	BEND MAGNET (BYW_LTU) SUMMARY	515	16DEC04	09FEB07				⚠ BEND MAGNET (BYW_LTU) SUMMARY		
LN03130245	Define Magnet Support Requirements	2	03OCT05	04OCT05				⚠ Define Magnet Support Requirements		
LN03130250	Create ICD & Update LCLS Database	1	05OCT05	05OCT05				⚠ Create ICD & Update LCLS Database		
LN03130255	Review/Accept Reqmts, Update ICD & DB entries	1	06OCT05	06OCT05				⚠ Review/Accept Reqmts, Update ICD & DB entries		
LN03130260	Develop Preliminary Design - Magnet Supports	6	07OCT05	14OCT05				⚠ Develop Preliminary Design - Magnet Supports		
LN03130270	Conduct Preliminary Design Review (PDR)	2	17OCT05	18OCT05				⚠ Conduct Preliminary Design Review (PDR)		
LN03130280	Develop Final Design - Magnet Supports	4	19OCT05	24OCT05				⚠ Develop Final Design - Magnet Supports		
LN03130290	Conduct Final Design Review (FDR)	2	25OCT05	26OCT05				⚠ Conduct Final Design Review (FDR)		
LN03130300	COMP: Bend Magnet Supports (BYW_LTU) Design	0		26OCT05				◆ COMP: Bend Magnet Supports (BYW_LTU) Design		

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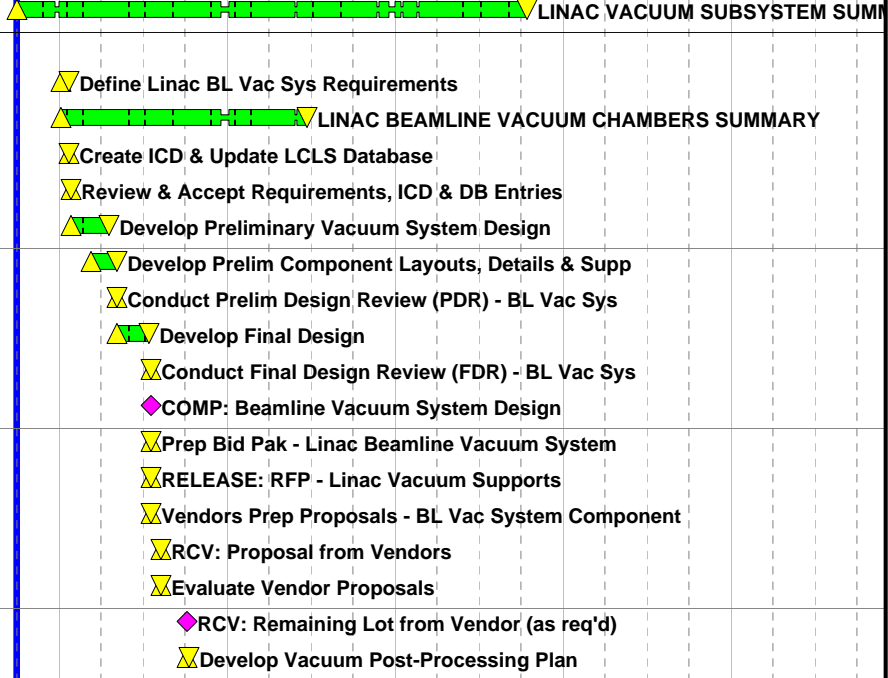
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	2004	2005	2006	2007	2008	2009
LN03130010	REQD: Existing SLAC Magents Available for LCLS	0		21JUN06			◆REQD: Existing SLAC Magents Available for LCLS			
LN03130240	AVAIL: BYW_LTU Magnet Ready for Instl	0		21JUN06			◆AVAIL: BYW_LTU Magnet Ready for Instl			
LN03130600	Receive & Review Safety Cover Requirements	0	03OCT06	02OCT06			⚠Receive & Review Safety Cover Requirements			
LN03130340	Procure Magnet Supports	20	03OCT06	30OCT06			⚠Procure Magnet Supports			
LN03130360	Procure Misc Materials - Magnet Supports	20	03OCT06	30OCT06			⚠Procure Misc Materials - Magnet Supports			
LN03130605	Develop Magnet Safety Cover Design	40	03OCT06	29NOV06			⚠Develop Magnet Safety Cover Design			
LN03130345	RCV: Magnet Supports from Vendor	0		30OCT06			◆RCV: Magnet Supports from Vendor			
LN03130365	Fabricate Magnet Supports	6	31OCT06	07NOV06			⚠Fabricate Magnet Supports			
LN03130380	Perform QC & Inspection on Magnets Supts	6	08NOV06	15NOV06			⚠Perform QC & Inspection on Magnets Supts			
LN03130385	Assemble Magnet Supports	15	16NOV06	08DEC06			⚠Assemble Magnet Supports			
LN03130610	COMP: Magnet Safety Design	0		29NOV06			◆COMP: Magnet Safety Design			
LN03130615	Procure Magnet Safety Cover (4ea)	40	30NOV06	09FEB07			⚠Procure Magnet Safety Cover (4ea)			
LN03130390	Hand-off to Pre-Instl Qual Testing	0		08DEC06			◆Hand-off to Pre-Instl Qual Testing			
LN03130395	Perform Pre-Installation Qualification - Support	2	11DEC06	12DEC06			⚠Perform Pre-Installation Qualification - Support			
LN03130400	AVAIL: BYW_LTU Magnet Supts Ready for Instl	0		12DEC06			◆AVAIL: BYW_LTU Magnet Supts Ready for Instl			
LN03130620	RCV: Magnet Safety Cover Material	0		09FEB07			◆RCV: Magnet Safety Cover Material			
LN03130640	AVAIL: Magnet Safety Covers Ready for Instl	0		09FEB07			◆AVAIL: Magnet Safety Covers Ready for Instl			

1.03.04 Linac Vacuum Subsystem

LN04	LINAC VACUUM SUBSYSTEM SUMMARY	739	01OCT04	15OCT07
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1.03.04.02 Linac Beamline Vacuum System

LN04020000	Define Linac BL Vac Sys Requirements	10	05JAN05	19JAN05
LN0402	LINAC BEAMLINE VACUUM CHAMBERS SUMMARY	360	05JAN05	21JUN06
LN04020005	Create ICD & Update LCLS Database	2	20JAN05	21JAN05
LN04020010	Review & Accept Requirements, ICD & DB Entries	1	24JAN05	24JAN05
LN04020015	Develop Preliminary Vacuum System Design	60	25JAN05	19APR05
LN04020020	Develop Prelim Component Layouts, Details & Supp	40	09MAR05	03MAY05
LN04020025	Conduct Prelim Design Review (PDR) - BL Vac Sys	1	04MAY05	04MAY05
LN04020030	Develop Final Design	50	05MAY05	15JUL05
LN04020035	Conduct Final Design Review (FDR) - BL Vac Sys	1	18JUL05	18JUL05
LN04020040	COMP: Beamline Vacuum System Design	0		18JUL05
LN04020240	Prep Bid Pak - Linac Beamline Vacuum System	0	19JUL05	18JUL05
LN04020245	RELEASE: RFP - Linac Vacuum Supports	0	19JUL05	18JUL05
LN04020250	Vendors Prep Proposals - BL Vac System Component	0	19JUL05	08AUG05
LN04020255	RCV: Proposal from Vendors	0	09AUG05	08AUG05
LN04020260	Evaluate Vendor Proposals	0	09AUG05	22AUG05
LN04020285	RCV: Remaining Lot from Vendor (as req'd)	0		03OCT05
LN04020045	Develop Vacuum Post-Processing Plan	5	03OCT05	07OCT05



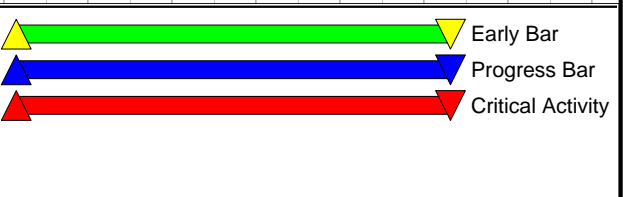
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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
LN04020150	Prep Bid Pak - BL Vacuum Bellows Module	15	03OCT05	21OCT05			▲▼ Prep Bid Pak - BL Vacuum Bellows Module			
LN04020100	Procure Vacuum Chamber Materials	20	03OCT05	28OCT05			▲▼ Procure Vacuum Chamber Materials			
LN04020200	Procure Bellows Modules	20	03OCT05	28OCT05			▲▼ Procure Bellows Modules			
LN04020205	Procure Bellows Material	20	03OCT05	28OCT05			▲▼ Procure Bellows Material			
LN04020290	Procure Misc Materials - Vacuum Supports	20	03OCT05	28OCT05			▲▼ Procure Misc Materials - Vacuum Supports			
LN04020270	Fabricate 1st Lot	0	04OCT05	03OCT05			▲▼ Fabricate 1st Lot			
LN04020275	RCV: 1st Lot Vac Equipment from Vendor	0	04OCT05	03OCT05			▲▼ RCV: 1st Lot Vac Equipment from Vendor			
LN04020280	Fabricate Remaining Lot (as required)	0	04OCT05	03OCT05			▲▼ Fabricate Remaining Lot (as required)			
LN04020050	Prep Bid Pak - Linac Beamline Vacuum System	10	10OCT05	21OCT05			▲▼ Prep Bid Pak - Linac Beamline Vacuum System			
LN04020065	RCV: Proposal from Vendors	0		21OCT05			◆ RCV: Proposal from Vendors			
LN04020055	RELEASE: RFP - BL Vacuum Chambers	0	24OCT05	21OCT05			▲▼ RELEASE: RFP - BL Vacuum Chambers			
LN04020060	Vendors Prep Proposals - BL Vac System Component	0	24OCT05	21OCT05			▲▼ Vendors Prep Proposals - BL Vac System Component			
LN04020155	RELEASE: RFP - BL Vacuum Bellows Module	0	24OCT05	21OCT05			▲▼ RELEASE: RFP - BL Vacuum Bellows Module			
LN04020160	Vendors Prep Proposals - BL Vac System Component	0	24OCT05	21OCT05			▲▼ Vendors Prep Proposals - BL Vac System Component			
LN04020165	RCV: Proposal from Vendors	0	24OCT05	21OCT05			▲▼ RCV: Proposal from Vendors			
LN04020070	Evaluate Vendor Proposals	10	24OCT05	04NOV05			▲▼ Evaluate Vendor Proposals			
LN04020170	Evaluate Vendor Proposals	10	24OCT05	04NOV05			▲▼ Evaluate Vendor Proposals			
LN04020105	Fab Vacuum Chamber	40	31OCT05	11JAN06			▲▼ Fab Vacuum Chamber			
LN04020295	Fab Vacuum Support	100	31OCT05	07APR06			▲▼ Fab Vacuum Support			
LN04020085	RCV: 1st Lot Vac Equipment from Vendor	0		07NOV05			◆ RCV: 1st Lot Vac Equipment from Vendor			
LN04020095	RCV: Remaining Lot from Vendor (as req'd)	0		07NOV05			◆ RCV: Remaining Lot from Vendor (as req'd)			
LN04020080	Fabricate 1st Lot	0	08NOV05	07NOV05			▲▼ Fabricate 1st Lot			
LN04020090	Fabricate Remaining Lot (as required)	0	08NOV05	07NOV05			▲▼ Fabricate Remaining Lot (as required)			
LN04020300	Assemble Beamline Vacuum Supports	100	30NOV05	05MAY06			▲▼ Assemble Beamline Vacuum Supports			
LN04020195	RCV: Remaining Lot from Vendor (as req'd)	0		12JAN06			◆ RCV: Remaining Lot from Vendor (as req'd)			
LN04020110	Vacuum Chamber QA	10	12JAN06	26JAN06			▲▼ Vacuum Chamber QA			
LN04020180	Fabricate 1st Lot	0	13JAN06	12JAN06			▲▼ Fabricate 1st Lot			
LN04020185	RCV: 1st Lot Vac Equipment from Vendor	0	13JAN06	12JAN06			▲▼ RCV: 1st Lot Vac Equipment from Vendor			
LN04020190	Fabricate Remaining Lot (as required)	0	13JAN06	12JAN06			▲▼ Fabricate Remaining Lot (as required)			
LN04020210	Bellows Fabrication	20	13JAN06	10FEB06			▲▼ Bellows Fabrication			
LN04020115	Prep for, Clean & Plate Vacuum Equipment	20	27JAN06	24FEB06			▲▼ Prep for, Clean & Plate Vacuum Equipment			
LN04020215	Bellows QA	4	13FEB06	16FEB06			▲▼ Bellows QA			
LN04020220	Bellows Cleaning/Plating	8	17FEB06	01MAR06			▲▼ Bellows Cleaning/Plating			
LN04020120	Vacuum Chamber Welding	40	27FEB06	21APR06			▲▼ Vacuum Chamber Welding			
LN04020225	Bellows Welding	8	02MAR06	13MAR06			▲▼ Bellows Welding			
LN04020230	Bellows Vacuum Processing	15	14MAR06	03APR06			▲▼ Bellows Vacuum Processing			
LN04020235	AVAIL: Vacuum Bellows Module Ready for L01 Instl	0		03APR06			◆ AVAIL: Vacuum Bellows Module Ready for L01 Instl			

**LCLS
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Linac



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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish							
					2004	2005	2006	2007	2008	2009	
LN04020125	Process Vacuum Chamber	30	24APR06	05JUN06			▲▼ Process Vacuum Chamber				
LN04020305	AVAIL: BL Vac Chamber Supts Ready for L01 Instl	0		05MAY06			◆ AVAIL: BL Vac Chamber Supts Ready for L01 Instl				
LN04020130	Perform QC and Inspection	6	06JUN06	13JUN06			▲▼ Perform QC and Inspection				
LN04020135	Prep for & Deliver to "Pre-Install Qual Test"	1	14JUN06	14JUN06			▲▼ Prep for & Deliver to "Pre-Install Qual Test"				
LN04020140	Perform Pre-Installation Qual Test	5	15JUN06	21JUN06			▲▼ Perform Pre-Installation Qual Test				
LN04020145	AVAIL: Beamline Vac Chambers Ready for L01 Instl	0		21JUN06			◆ AVAIL: Beamline Vac Chambers Ready for L01 Instl				
1.03.04.03 BC1 Vacuum System											
LN04030025	Develop Final Design	50	01OCT04	13DEC04			▲▼ Develop Final Design				
LN0403	LINAC BC1 VACUUM CHAMBERS SUMMARY	334	01OCT04	24FEB06			▲▼ LINAC BC1 VACUUM CHAMBERS SUMMARY				
LN04030030	Conduct Final Design Review (FDR) - BC1 Vac Sys	1	14DEC04	14DEC04			▲▼ Conduct Final Design Review (FDR) - BC1 Vac Sys				
LN04030035	COMP: BC1 Vacuum Chambers Design	0		14DEC04			◆ COMP: BC1 Vacuum Chambers Design				
LN04030040	Develop Vacuum Post-Processing Plan	5	15DEC04	04JAN05			▲▼ Develop Vacuum Post-Processing Plan				
LN04030045	Prep Bid Pak - BC1 Vacuum Chambers	64*	01FEB05*	02MAY05			▲▼ Prep Bid Pak - BC1 Vacuum Chambers				
LN04030050	RELEASE: RFP - BC1 Vacuum Chambers	0	03MAY05	02MAY05			▲▼ RELEASE: RFP - BC1 Vacuum Chambers				
LN04030055	Vendors Prep Proposals - BC1 Vac System	10	03MAY05	16MAY05			▲▼ Vendors Prep Proposals - BC1 Vac System				
LN04030060	RCV: Proposal from Vendors	0	17MAY05	16MAY05			▲▼ RCV: Proposal from Vendors				
LN04030065	Evaluate Vendor Proposals	10	17MAY05	31MAY05			▲▼ Evaluate Vendor Proposals				
LN04030075	Vendor Fab & Assy - Vacuum Chamber Materials	20	02JUN05	29JUN05			▲▼ Vendor Fab & Assy - Vacuum Chamber Materials				
LN04030080	RCV: from Vendor - Vacuum Chamber Materials	0		29JUN05			◆ RCV: from Vendor - Vacuum Chamber Materials				
LN04030100	Fab Vacuum Chamber	100	30JUN05	18NOV05			▲▼ Fab Vacuum Chamber				
LN04030105	Vacuum Chamber QA	8	21NOV05	02DEC05			▲▼ Vacuum Chamber QA				
LN04030110	Prep for, Clean & Plate Vacuum Equipment	11	05DEC05	03JAN06			▲▼ Prep for, Clean & Plate Vacuum Equipment				
LN04030115	Vacuum Chamber Welding	17	04JAN06	27JAN06			▲▼ Vacuum Chamber Welding				
LN04030120	Process Vacuum Chamber	7	30JAN06	07FEB06			▲▼ Process Vacuum Chamber				
LN04030125	Perform QC and Inspection	6	08FEB06	15FEB06			▲▼ Perform QC and Inspection				
LN04030130	Prep for & Deliver to "Pre-Install Qual Test"	1	16FEB06	16FEB06			▲▼ Prep for & Deliver to "Pre-Install Qual Test"				
LN04030135	Perform Pre-Installation Qual Test	5	17FEB06	24FEB06			▲▼ Perform Pre-Installation Qual Test				
LN04030140	AVAIL: BC1 Vac Chambers Ready for Install	0		24FEB06			◆ AVAIL: BC1 Vac Chambers Ready for Install				
1.03.04.04 BC2 Vacuum System											
LN04040000	Define BC2 Vac Sys Requirements	10	05MAY05	18MAY05			▲▼ Define BC2 Vac Sys Requirements				
LN0404	LINAC BC2 VACUUM CHAMBERS SUMMARY	401	05MAY05	03JAN07			▲▼ LINAC BC2 VACUUM CHAMBERS SUMMARY				
LN04040005	Create ICD & Update LCLS Database	2	19MAY05	20MAY05			▲▼ Create ICD & Update LCLS Database				
LN04040010	Review & Accept Requirements, ICD & DB Entries	1	23MAY05	23MAY05			▲▼ Review & Accept Requirements, ICD & DB Entries				
LN04040015	Develop Preliminary Vacuum System Design	40	24MAY05	20JUL05			▲▼ Develop Preliminary Vacuum System Design				
LN04040020	Conduct Prelim Design Review (PDR) - BC2 Vac Sys	5	21JUL05	27JUL05			▲▼ Conduct Prelim Design Review (PDR) - BC2 Vac Sys				
LN04040025	Develop Final Design -BC2 Vac	50	28JUL05	06OCT05			▲▼ Develop Final Design -BC2 Vac				
LN04040030	Conduct Final Design Review (FDR) - BC2 Vac Sys	5	07OCT05	13OCT05			▲▼ Conduct Final Design Review (FDR) - BC2 Vac Sys				

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▲▼ Early Bar
▲ Progress Bar
▲ Critical Activity

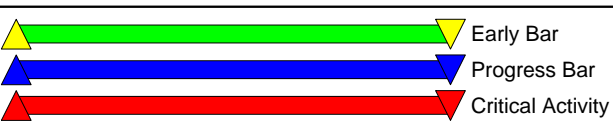
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					2004	2005	2006	2007	2008	2009	
LN04040035	COMP: BC2 Vacuum Chambers Design	0		13OCT05			◆ COMP: BC2 Vacuum Chambers Design				
LN04040040	Develop Vacuum Post-Processing Plan	5	14OCT05	20OCT05			⚠ Develop Vacuum Post-Processing Plan				
LN04040045	Prep Bid Pak - BC2 Vac Chamber Mtrl	10	21NOV05	06DEC05			⚠ Prep Bid Pak - BC2 Vac Chamber Mtrl				
LN04040050	RELEASE: RFP - BC2 Vac Chambers Mtrl	0	07DEC05	06DEC05			⚠ RELEASE: RFP - BC2 Vac Chambers Mtrl				
LN04040055	Vendors Prep Proposals - BC2 Vac System	10	07DEC05	04JAN06			⚠ Vendors Prep Proposals - BC2 Vac System				
LN04040060	RCV: Proposal from Vendors	0	05JAN06	04JAN06			⚠ RCV: Proposal from Vendors				
LN04040065	Evaluate Vendor Proposals	10	05JAN06	19JAN06			⚠ Evaluate Vendor Proposals				
LN04040075	Procure Vacuum Chamber Materials	20	23JAN06	17FEB06			⚠ Procure Vacuum Chamber Materials				
LN04040076	Procure Bellows Module	20	23JAN06	17FEB06			⚠ Procure Bellows Module				
LN04040077	Procure CF Copper Gasket	20	23JAN06	17FEB06			⚠ Procure CF Copper Gasket				
LN04040078	Procure CF Bolt Set	20	23JAN06	17FEB06			⚠ Procure CF Bolt Set				
LN04040080	RCV: from Vendor - Vacuum Chamber Materials	0		17FEB06			◆ RCV: from Vendor - Vacuum Chamber Materials				
LN04040100	Fab Vacuum Chamber	133	21FEB06	28AUG06			⚠ Fab Vacuum Chamber				
LN04040105	Vacuum Chamber QA	8	02OCT06	11OCT06			⚠ Vacuum Chamber QA				
LN04040110	Prep for, Clean & Plate Vacuum Equipment	11	12OCT06	26OCT06			⚠ Prep for, Clean & Plate Vacuum Equipment				
LN04040115	Vacuum Chamber Welding	17	27OCT06	20NOV06			⚠ Vacuum Chamber Welding				
LN04040120	Process Vacuum Chamber	7	21NOV06	01DEC06			⚠ Process Vacuum Chamber				
LN04040125	Perform QC and Inspection	6	04DEC06	11DEC06			⚠ Perform QC and Inspection				
LN04040130	Prep for & Deliver to "Pre-Install Qual Test"	1	12DEC06	12DEC06			⚠ Prep for & Deliver to "Pre-Install Qual Test"				
LN04040135	Perform Pre-Installation Qual Test	5	13DEC06	03JAN07			⚠ Perform Pre-Installation Qual Test				
LN04040140	AVAIL: BC2 Vac Chambers Ready for Install	0		03JAN07			◆ AVAIL: BC2 Vac Chambers Ready for Install				
1.03.04.05 Linac to Undulator (LTU) Vacuum System											
LN04050000	Define LTU Vac Sys Requirements	10	03OCT05	14OCT05			⚠ Define LTU Vac Sys Requirements				
LN0405	LINAC to UND (LTU) VAC CHAMBERS SUMMARY	483	03OCT05	27SEP07			⚠ LINAC to UND (LTU) VAC CHAMBERS				
LN04050003	Create ICD & Update LCLS Database	2	17OCT05	18OCT05			⚠ Create ICD & Update LCLS Database				
LN04050005	Review & Accept Requirements, ICD & DB Entries	2	19OCT05	20OCT05			⚠ Review & Accept Requirements, ICD & DB Entries				
LN04050015	Develop Preliminary Vac Sys Supports Design	40	21OCT05	03JAN06			⚠ Develop Preliminary Vac Sys Supports Design				
LN04050010	Develop Preliminary Vacuum System Design	100	21OCT05	30MAR06			⚠ Develop Preliminary Vacuum System Design				
LN04050020	Conduct Prelim Design Review (PDR) - LTU Vac Sys	4	31MAR06	05APR06			⚠ Conduct Prelim Design Review (PDR) - LTU Vac Sys				
LN04050025	Develop Final Design	50	06APR06	15JUN06			⚠ Develop Final Design				
LN04050030	Conduct Final Design Review (FDR) - LTU Vac Sys	4	16JUN06	21JUN06			⚠ Conduct Final Design Review (FDR) - LTU Vac Sys				
LN04050035	COMP: LTU Vacuum Chambers Design	0		21JUN06			◆ COMP: LTU Vacuum Chambers Design				
LN04050040	Develop Vacuum Post-Processing Plan	20	22JUN06	20JUL06			⚠ Develop Vacuum Post-Processing Plan				
LN04050155	RELEASE: RFP - LTU Vacuum Supports	0		02OCT06			◆ RELEASE: RFP - LTU Vacuum Supports				
LN04050165	RCV: Proposals from Vendors -	0		02OCT06			◆ RCV: Proposals from Vendors -				
LN04050185	RCV: 1st Lot Vac Equipment from Vendor	0		02OCT06			◆ RCV: 1st Lot Vac Equipment from Vendor				
LN04050195	RCV: Remaining Lot from Vendor (as req'd)	0		02OCT06			◆ RCV: Remaining Lot from Vendor (as req'd)				

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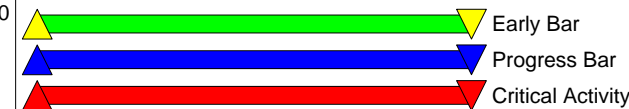
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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
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LN04050150	Prep Bid Pak - Vacuum Supports	0	03OCT06	02OCT06				⚠	Prep Bid Pak - Vacuum Supports	
LN04050160	Vendors Prep Proposals - LTU Vac System	0	03OCT06	02OCT06				⚠	Vendors Prep Proposals - LTU Vac System	
LN04050170	Evaluate Vendor Proposals	0	03OCT06	02OCT06				⚠	Evaluate Vendor Proposals	
LN04050180	Fabricate 1st Lot	0	03OCT06	02OCT06				⚠	Fabricate 1st Lot	
LN04050190	Fabricate Remaining Lot (as required)	0	03OCT06	02OCT06				⚠	Fabricate Remaining Lot (as required)	
LN04050045	Prep Bid Pak - Vacuum Equipment	5	03OCT06	09OCT06				⚠	Prep Bid Pak - Vacuum Equipment	
LN04050205	Procure Misc Materials - Vacuum Supports	20	03OCT06	30OCT06				⚠	Procure Misc Materials - Vacuum Supports	
LN04050206	Procure Materials for Vacuum Supports	20	03OCT06	30OCT06				⚠	Procure Materials for Vacuum Supports	
LN04050050	RELEASE: RFP - Vacuum Equipment	0		09OCT06				◆	RELEASE: RFP - Vacuum Equipment	
LN04050055	Vendors Prep Proposals - Vacuum Equipment	10	10OCT06	23OCT06				⚠	Vendors Prep Proposals - Vacuum Equipment	
LN04050060	RCV: Proposals from Vendors - Vacuum Equipment	0		23OCT06				◆	RCV: Proposals from Vendors - Vacuum Equipment	
LN04050065	Evaluate Vendor Proposals	2	24OCT06	25OCT06				⚠	Evaluate Vendor Proposals	
LN04050100	Procure Vacuum Chamber Material	1	27OCT06	27OCT06				⚠	Procure Vacuum Chamber Material	
LN04050207	Procure Bellows	100	27OCT06	05APR07				⚠	Procure Bellows	
LN04050208	Procure CF Flanges	100	27OCT06	05APR07				⚠	Procure CF Flanges	
LN04050209	Procure CF Crosses	100	27OCT06	05APR07				⚠	Procure CF Crosses	
LN04050211	Procure Vat Valve	100	27OCT06	05APR07				⚠	Procure Vat Valve	
LN04050212	Procure Pump Out Valve	100	27OCT06	05APR07				⚠	Procure Pump Out Valve	
LN04050213	Procure Cold Cathode Gauge	100	27OCT06	05APR07				⚠	Procure Cold Cathode Gauge	
LN04050214	Procure Pirani Gauge	100	27OCT06	05APR07				⚠	Procure Pirani Gauge	
LN04050216	Procure Gauge Pig Tail	100	27OCT06	05APR07				⚠	Procure Gauge Pig Tail	
LN04050217	Procure Ion Pump	100	27OCT06	05APR07				⚠	Procure Ion Pump	
LN04050218	Procure Ion Pump Pig Tail	100	27OCT06	05APR07				⚠	Procure Ion Pump Pig Tail	
LN04050219	Procure Copper Gasket	100	27OCT06	05APR07				⚠	Procure Copper Gasket	
LN04050221	Procure CF Bolt Set	100	27OCT06	05APR07				⚠	Procure CF Bolt Set	
LN04050210	Fab Vacuum Support	80	31OCT06	12MAR07				⚠	Fab Vacuum Support	
LN04050105	Fab Vacuum Chamber	80	28NOV06	05APR07				⚠	Fab Vacuum Chamber	
LN04050215	Assemble LTU Vacuum Supports	80	12JAN07	07MAY07				⚠	Assemble LTU Vacuum Supports	
LN04050110	Vacuum Chamber QA Fabrication	0	09MAR07	08MAR07				⚠	Vacuum Chamber QA Fabrication	
LN04050080	RCV: from Vendor - Vacuum Equipment	0		05APR07				◆	RCV: from Vendor - Vacuum Equipment	
LN04050115	Prep for, Clean & Plate Vacuum Equipment	60	06APR07	29JUN07				⚠	Prep for, Clean & Plate Vacuum Equipment	
LN04050120	Vacuum Chamber Welding	70	04MAY07	13AUG07				⚠	Vacuum Chamber Welding	
LN04050220	AVAIL: LTU Vac Chamber Supports Ready for Instl	0		07MAY07				◆	AVAIL: LTU Vac Chamber Supports Ready for Instl	
LN04050125	Process Vacuum Chamber	70	04JUN07	11SEP07				⚠	Process Vacuum Chamber	
LN04050130	Perform QC and Inspection	6	12SEP07	19SEP07				⚠	Perform QC and Inspection	
LN04050135	Prep for & Deliver to "Pre-Install Qual Test"	1	20SEP07	20SEP07				⚠	Prep for & Deliver to "Pre-Install Qual Test"	
LN04050140	Perform Pre-Installation Qual Test	5	21SEP07	27SEP07				⚠	Perform Pre-Installation Qual Test	

**LCLS
INTEGRATED SCHEDULE**

Linac



Start Date 01JUN01
 Finish Date 31MAR09
 Data Date 01OCT04
 Run Date 29APR05 13:41

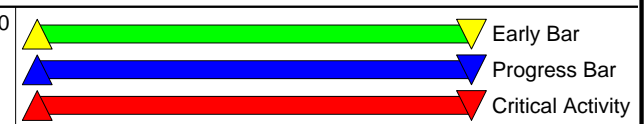
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
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LN04050145	AVAIL: LTU Vac Chambers Ready for Install	0		27SEP07		AVAIL: LTU Vac Chambers Ready for Insta				
1.03.04.06 Dumpline Vacuum System										
LN04060000	Define Dumpline Vac Sys Requirements	10	14OCT05	27OCT05						
LN0406	LINAC DUMPLINE VACUUM CHAMBERS SUMMARY	486	14OCT05	15OCT07						
LN04060003	Create ICD & Update LCLS Database	2	28OCT05	31OCT05						
LN04060007	Review & Accept Requirements, ICD & DB Entries	1	01NOV05	01NOV05						
LN04060013	Define Requirements LTU Vac Sys Supports	10	02NOV05	15NOV05						
LN04060010	Develop Preliminary Vacuum System Design	50	02NOV05	30JAN06						
LN04060017	Develop Prelim Design LTU Vacuum Sys Supports	50	16NOV05	13FEB06						
LN04060020	Conduct Prelim Design Review (PDR) - D/L Vac Sys	2	31JAN06	01FEB06						
LN04060025	Develop Final Design	50	02FEB06	13APR06						
LN04060030	Conduct Final Design Review (FDR) - D/L Vac Sys	2	14APR06	17APR06						
LN04060035	COMP: Dumpline Vacuum System Design	0		02OCT06						
LN04060040	Develop Vacuum Post-Processing Plan	10	03OCT06	16OCT06						
LN04060150	Prep Bid Pak - Vacuum Supports	15	03OCT06	23OCT06						
LN04060095	Procure Bellows Modules	60	03OCT06	11JAN07						
LN04060096	Procure CF Flanges	60	03OCT06	11JAN07						
LN04060097	Procure CF Crosses	60	03OCT06	11JAN07						
LN04060098	Procure VAT Valve	60	03OCT06	11JAN07						
LN04060099	Procure Pump Out Valve	60	03OCT06	11JAN07						
LN04060101	Procure Cold Cathode Gauge	60	03OCT06	11JAN07						
LN04060102	Procure Pirani Gauge	60	03OCT06	11JAN07						
LN04060103	Procure Gauge Pig Tail	60	03OCT06	11JAN07						
LN04060104	Procure Ion Pump	60	03OCT06	11JAN07						
LN04060106	Procure Ion Pump Pig Tail	60	03OCT06	11JAN07						
LN04060107	Procure CF Copper Gasket	60	03OCT06	11JAN07						
LN04060108	Procure CF Bolt Set	60	03OCT06	11JAN07						
LN04060109	Procure 304 Tubing	60	03OCT06	11JAN07						
LN04060045	Prep Bid Pak - Dumpline Vacuum System	15	17OCT06	06NOV06						
LN04060155	RELEASE: RFP - Dumpline Vacuum Supports	0		23OCT06						
LN04060160	Vendors Prep Proposals - Dumpline Vac System	20	24OCT06	20NOV06						
LN04060050	RELEASE: RFP - Dumpline Vacuum Chambers	0		06NOV06						
LN04060055	Vendors Prep Proposals - Dumpline Vac System	15	07NOV06	29NOV06						
LN04060165	RCV: Proposals from Vendors -Dumpline Vac System	0		20NOV06						
LN04060170	Evaluate Vendor Proposals - UHV Components	15	21NOV06	13DEC06						
LN04060060	RCV: Proposals from Vendors -	0		29NOV06						
LN04060065	Evaluate Vendor Proposals	15	30NOV06	04JAN07						

Start Date 01JUN01
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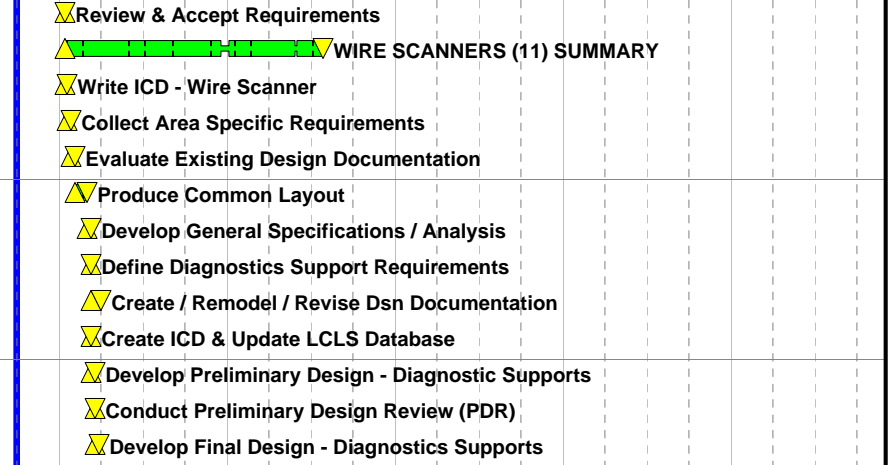
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					2004	2005	2006	2007	2008	2009	
LN04060180	Fabricate 1st Lot	40	15DEC06	27FEB07					Fabricate 1st Lot		
LN04060075	Fabricate 1st Lot	40	08JAN07	06MAR07					Fabricate 1st Lot		
LN04060105	Fab Vacuum Chamber	60	12JAN07	09APR07					Fab Vacuum Chamber		
LN04060110	Vacuum Chamber QA Fabrication	60	12FEB07	07MAY07					Vacuum Chamber QA Fabrication		
LN04060185	RCV: 1st Lot Vac Equipment from Vendor	0		27FEB07					RCV: 1st Lot Vac Equipment from Vendor		
LN04060195	RCV: Remaining Lot from Vendor (as req'd)	0		27FEB07					RCV: Remaining Lot from Vendor (as req'd)		
LN04060190	Fabricate Remaining Lot (as required)	0	28FEB07	27FEB07					Fabricate Remaining Lot (as required)		
LN04060200	Procure Misc Materials - Vacuum Supports	20	28FEB07	27MAR07					Procure Misc Materials - Vacuum Supports		
LN04060080	RCV: 1st Lot Vac Equipment from Vendor	0		06MAR07					RCV: 1st Lot Vac Equipment from Vendor		
LN04060090	RCV: Remaining Lot from Vendor (as req'd)	0		06MAR07					RCV: Remaining Lot from Vendor (as req'd)		
LN04060085	Fabricate Remaining Lot (as required)	0	07MAR07	06MAR07					Fabricate Remaining Lot (as required)		
LN04060115	Clean & Plate Vacuum Equipment	80	13MAR07	03JUL07					Clean & Plate Vacuum Equipment		
LN04060205	Fab Vacuum Support	80	28MAR07	19JUL07					Fab Vacuum Support		
LN04060210	Assemble DL Vacuum Supports	80	25APR07	16AUG07					Assemble DL Vacuum Supports		
LN04060120	Vacuum Chamber Welding	60	06JUN07	29AUG07					Vacuum Chamber Welding		
LN04060125	Process Vacuum Chamber	60	05JUL07	27SEP07					Process Vacuum Chamber		
LN04060215	AVAIL: DL Vac Chamber Supports Ready for Instl	0		16AUG07					AVAIL: DL Vac Chamber Supports Ready for Instl		
LN04060130	Perform QC and Inspection	6	28SEP07	05OCT07					Perform QC and Inspection		
LN04060135	Prep for & Deliver to "Pre-Install Qual Test"	1	08OCT07	08OCT07					Prep for & Deliver to "Pre-Install Qual Test"		
LN04060140	Perform Pre-Installation Qual Test	5	09OCT07	15OCT07					Perform Pre-Installation Qual Test		
LN04060145	AVAIL: DL Vac Chambers Ready for Install	0		15OCT07					AVAIL: DL Vac Chambers Ready for Install		

1.03.05 Linac Electron Diagnostics Summary

LN05	LINAC ELECTRON DIAGNOSTICS SUMMARY	694	01OCT04	10AUG07
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1.03.05.01 Wire Scanners (11) Summary

LN05010005	Review & Accept Requirements	1	11JAN05	11JAN05
LN0501	WIRE SCANNERS (11) SUMMARY	382	11JAN05	28JUL06
LN05010010	Write ICD - Wire Scanner	4	12JAN05	18JAN05
LN05010015	Collect Area Specific Requirements	4	19JAN05	24JAN05
LN05010020	Evaluate Existing Design Documentation	6	25JAN05	01FEB05
LN05010025	Produce Common Layout	20	02FEB05	02MAR05
LN05010030	Develop General Specifications / Analysis	4	03MAR05	08MAR05
LN05010230	Define Diagnostics Support Requirements	1	09MAR05	09MAR05
LN05010035	Create / Remodel / Revise Dsn Documentation	15	09MAR05	29MAR05
LN05010235	Create ICD & Update LCLS Database	1	10MAR05	10MAR05
LN05010240	Develop Preliminary Design - Diagnostic Supports	5	11MAR05	17MAR05
LN05010250	Conduct Preliminary Design Review (PDR)	1	18MAR05	18MAR05
LN05010260	Develop Final Design - Diagnostics Supports	5	21MAR05	25MAR05



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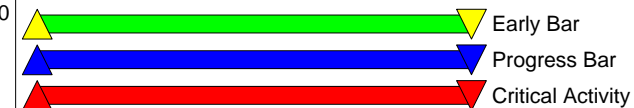
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Start Date	01JUN01
Finish Date	31MAR09
Data Date	01OCT04
Run Date	29APR05 13:41

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
LN05010270	Conduct Final Design Review (FDR)	1	28MAR05	28MAR05		⚠ Conduct Final Design Review (FDR)				
LN05010280	COMP: Wire Scanner Supports Design	0		28MAR05		◆ COMP: Wire Scanner Supports Design				
LN05010285	Prep Bid Pak - Diagnostics Supports	1	29MAR05	29MAR05		⚠ Prep Bid Pak - Diagnostics Supports				
LN05010295	RELEASE: RFP - Diagnostics Supports	0		29MAR05		◆ RELEASE: RFP - Diagnostics Supports				
LN05010040	Make Simplified Models	2	30MAR05	31MAR05		⚠ Make Simplified Models				
LN05010300	Vendors Prep Proposals - Supports	20	30MAR05	26APR05		⚠ Vendors Prep Proposals - Supports				
LN05010045	Release Final Model To Server	1	01APR05	01APR05		⚠ Release Final Model To Server				
LN05010050	Update Component Data Base	2	04APR05	05APR05		⚠ Update Component Data Base				
LN05010055	Write Component Traveler	50	06APR05	15JUN05		▲ Write Component Traveler				
LN05010305	RCV: Proposals from Vendors - Supports	0		26APR05		◆ RCV: Proposals from Vendors - Supports				
LN05010310	Evaluate Vendor Proposals - Supports	2	27APR05	28APR05		⚠ Evaluate Vendor Proposals - Supports				
LN05010060	Prepare for PDR - Wire Scanners	3	16JUN05	20JUN05		⚠ Prepare for PDR - Wire Scanners				
LN05010065	Conduct Wire Scanners PDR	1	21JUN05	21JUN05		⚠ Conduct Wire Scanners PDR				
LN05010070	Generate Detailed Procurement Plan	1	22JUN05	22JUN05		⚠ Generate Detailed Procurement Plan				
LN05010075	Establish Subordinate Work Orders	1	23JUN05	23JUN05		⚠ Establish Subordinate Work Orders				
LN05010080	Prepare for FDR - Wire Scanners	3	24JUN05	28JUN05		⚠ Prepare for FDR - Wire Scanners				
LN05010085	Conduct Wire Scanners FDR	1	29JUN05	29JUN05		⚠ Conduct Wire Scanners FDR				
LN05010090	COMP: Wire Scanner Design	0		29JUN05		◆ COMP: Wire Scanner Design				
LN05010100	Prep Bid Pak - Wire Scanner	1	03OCT05	03OCT05		⚠ Prep Bid Pak - Wire Scanner				
LN05010110	RELEASE: RFP - Wire Scanners	0		03OCT05		◆ RELEASE: RFP - Wire Scanners				
LN05010340	Procure Misc Materials - Diagnostics Supports	40	03OCT05	29NOV05		▲ Procure Misc Materials - Diagnostics Supports				
LN05010155	Procure Misc Materials - Wire Scanners	120	03OCT05	07APR06		▲ Procure Misc Materials - Wire Scanners				
LN05010115	Vendors Prep Proposals - Wire Scanners	20	04OCT05	31OCT05		▲ Vendors Prep Proposals - Wire Scanners				
LN05010320	Vendor Fab 1st Lot - Supports	80	04OCT05	10FEB06		▲ Vendor Fab 1st Lot - Supports				
LN05010120	RCV: Proposals from Vendors	0		31OCT05		◆ RCV: Proposals from Vendors				
LN05010125	Evaluate Vendor Proposals	5	01NOV05	07NOV05		⚠ Evaluate Vendor Proposals				
LN05010135	Vendor Fab 1st Lot	80	09NOV05	21MAR06		▲ Vendor Fab 1st Lot				
LN05010345	Fabricate Diagnostics Supports (as required)	0	30NOV05	29NOV05		⚠ Fabricate Diagnostics Supports (as required)				
LN05010350	Prep for, Clean & Plate Supports	0	30NOV05	29NOV05		⚠ Prep for, Clean & Plate Supports				
LN05010355	Prep for and Paint Diag Supports (as required)	0	30NOV05	29NOV05		⚠ Prep for and Paint Diag Supports (as required)				
LN05010160	Component Fab & Assembly - Wire Scanners	80	12JAN06	05MAY06		▲ Component Fab & Assembly - Wire Scanners				
LN05010325	RCV: 1st Lot Diagnostics Supports from Vendor	0		10FEB06		◆ RCV: 1st Lot Diagnostics Supports from Vendor				
LN05010330	Vendor Fab Remaining Lot - Supports	80	13FEB06	06JUN06		▲ Vendor Fab Remaining Lot - Supports				
LN05010140	RCV: 1st Lot Diagnostics Equip from Vendor	0		21MAR06		◆ RCV: 1st Lot Diagnostics Equip from Vendor				
LN05010145	Vendor Fab Remaining Lot	80	22MAR06	13JUL06		▲ Vendor Fab Remaining Lot				
LN05010335	RCV: Remaining Supports from Vendor	0		06JUN06		◆ RCV: Remaining Supports from Vendor				
LN05010360	Perform QC & Inspection - Diagnostic Supports	4	07JUN06	12JUN06		⚠ Perform QC & Inspection - Diagnostic Supports				

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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
LN05010365	Assemble Supports	5	13JUN06	19JUN06			⚠ Assemble Supports			
LN05010375	Perform Pre-Installation Qualification - Support	2	20JUN06	21JUN06			⚠ Perform Pre-Installation Qualification - Support			
LN05010380	AVAIL: Supports Ready for Instl	0		21JUN06			◆ AVAIL: Supports Ready for Instl			
LN05010150	RCV: Remaining from Vendor	0		13JUL06			◆ RCV: Remaining from Vendor			
LN05010175	Perform QC / Metrology	4	14JUL06	19JUL06			⚠ Perform QC / Metrology			
LN05010180	Perform Functional Testing - Wire Scanners	2	20JUL06	21JUL06			⚠ Perform Functional Testing - Wire Scanners			
LN05010185	Collect Component Performance Data	5	24JUL06	28JUL06			⚠ Collect Component Performance Data			
LN05010190	Load Component Data Base	5	24JUL06	28JUL06			⚠ Load Component Data Base			
LN05010195	Post Process & Test	5	24JUL06	28JUL06			⚠ Post Process & Test			
LN05010200	AVAIL: Wire Scanners Ready for L01 Install	0		28JUL06			◆ AVAIL: Wire Scanners Ready for L01 Install			
LN05010205	AVAIL: Wire Scanners Ready for BC1 Install	0		28JUL06			◆ AVAIL: Wire Scanners Ready for BC1 Install			
LN05010210	AVAIL: Wire Scanners Ready for L02 Install	0		28JUL06			◆ AVAIL: Wire Scanners Ready for L02 Install			
LN05010215	AVAIL: Wire Scanners Ready for BC2 Install	0		28JUL06			◆ AVAIL: Wire Scanners Ready for BC2 Install			
LN05010220	AVAIL: Wire Scanners Ready for L03 Install	0		28JUL06			◆ AVAIL: Wire Scanners Ready for L03 Install			
LN05010225	AVAIL: Wire Scanners Ready for LTU Install	0		28JUL06			◆ AVAIL: Wire Scanners Ready for LTU Install			
1.03.05.02 Beam Position Monitors										
LN05020428	Prepare for PDR - BPMs	10	01OCT04	14OCT04			⚠ Prepare for PDR - BPMs			
LN05020416	Develop General Specifications / Analysis	12	01OCT04	18OCT04			⚠ Develop General Specifications / Analysis			
LN05020418	Create / Remodel / Revise Dsn Documentation	12	01OCT04	18OCT04			⚠ Create / Remodel / Revise Dsn Documentation			
LN05020420	Make Simplified Models	12	01OCT04	18OCT04			⚠ Make Simplified Models			
LN05020404	Write ICD - Beam Position Monitor	14	01OCT04	20OCT04			⚠ Write ICD - Beam Position Monitor			
LN050204	BPM - LARGE APERTURE (2) SUMMARY	420	01OCT04	27JUN06			⚠ BPM - LARGE APERTURE (2) SUMMARY			
LN05020432	Conduct BPMs PDR	5	15OCT04	21OCT04			⚠ Conduct BPMs PDR			
LN05020422	Release Final Model To Server	10	19OCT04	01NOV04			⚠ Release Final Model To Server			
LN05020424	Update Component Data Base	10	19OCT04	01NOV04			⚠ Update Component Data Base			
LN05020436	Generate Detailed Procurement Plan	10	22OCT04	04NOV04			⚠ Generate Detailed Procurement Plan			
LN05020426	Write Component Traveler	10	02NOV04	15NOV04			⚠ Write Component Traveler			
LN05020438	Establish Subordinate Work Orders	1	05NOV04	05NOV04			⚠ Establish Subordinate Work Orders			
LN05020440	Prepare for FDR - BPMs	1	08NOV04	08NOV04			⚠ Prepare for FDR - BPMs			
LN05020444	Conduct BPMs FDR	1	16NOV04	16NOV04			⚠ Conduct BPMs FDR			
LN05020100	Receive BPM Requirements	5	02MAY05*	06MAY05			⚠ Receive BPM Requirements			
LN050201	BPM - STANDARD LINAC (4) SUMMARY	276	02MAY05	16JUN06			⚠ BPM - STANDARD LINAC (4) SUMMARY			
LN05020448	COMP: BPM Design - BC1	0		06MAY05			◆ COMP: BPM Design - BC1			
LN05020102	Review & Accept Requirements	5	09MAY05	13MAY05			⚠ Review & Accept Requirements			
LN05020104	Write ICD - Beam Path Monitor	5	16MAY05	20MAY05			⚠ Write ICD - Beam Path Monitor			
LN05020106	Collect Area Specific Requirements	5	23MAY05	27MAY05			⚠ Collect Area Specific Requirements			
LN05020108	Evaluate Existing Design Documentation	5	31MAY05	06JUN05			⚠ Evaluate Existing Design Documentation			

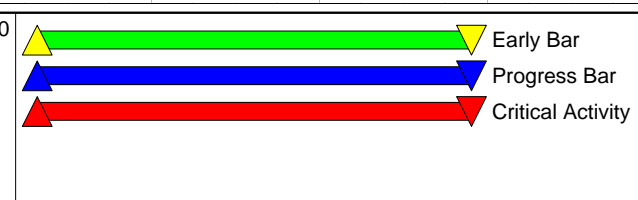
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Finish Date 31MAR09
Data Date 01OCT04
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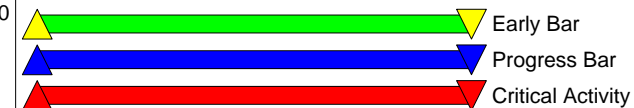
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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish							
					2004	2005	2006	2007	2008	2009	
LN05020110	Produce Common Layout	5	07JUN05	13JUN05		⚠ Produce Common Layout					
LN05020112	Develop General Specifications / Analysis	3	14JUN05	16JUN05		⚠ Develop General Specifications / Analysis					
LN05020114	Create / Remodel / Revise Dsn Documentation	30	17JUN05	29JUL05		⚠ Create / Remodel / Revise Dsn Documentation					
LN05020116	Make Simplified Models	3	01AUG05	03AUG05		⚠ Make Simplified Models					
LN05020118	Release Final Model To Server	5	04AUG05	10AUG05		⚠ Release Final Model To Server					
LN05020120	Update Component Data Base	2	11AUG05	12AUG05		⚠ Update Component Data Base					
LN05020122	Write Component Traveler	5	15AUG05	19AUG05		⚠ Write Component Traveler					
LN05020124	Prepare for PDR - BPMs	3	22AUG05	24AUG05		⚠ Prepare for PDR - BPMs					
LN05020126	Conduct Prelim Design Review (PDR) - BPMs	1	25AUG05	25AUG05		⚠ Conduct Prelim Design Review (PDR) - BPMs					
LN05020128	Generate Detailed Procurement Plan	1	26AUG05	26AUG05		⚠ Generate Detailed Procurement Plan					
LN05020130	Establish Subordinate Work Orders	1	29AUG05	29AUG05		⚠ Establish Subordinate Work Orders					
LN05020132	Prepare for FDR - BPMs	3	30AUG05	01SEP05		⚠ Prepare for FDR - BPMs					
LN05020134	Conduct Final Design Review (FDR) - BPMs	1	02SEP05	02SEP05		⚠ Conduct Final Design Review (FDR) - BPMs					
LN05020136	COMP: BPM Design - Standard	0		02SEP05		◆ COMP: BPM Design - Standard					
LN05020138	RCV: Component Fabrication Approval	0		02SEP05		◆ RCV: Component Fabrication Approval					
LN05020200	Receive RF BPM Requirements	5	03OCT05	07OCT05		⚠ Receive RF BPM Requirements					
LN05020452	Procure Component Material - BPMs	40	03OCT05	29NOV05		⚠ Procure Component Material - BPMs					
LN05020140	Procure Component Material - BPMs	100	03OCT05	10MAR06		⚠ Procure Component Material - BPMs					
LN050202	BPM - RF (10) SUMMARY	251	03OCT05	12OCT06		⚠ BPM - RF (10) SUMMARY					
LN05020202	Review & Accept Requirements	5	10OCT05	14OCT05		⚠ Review & Accept Requirements					
LN05020204	Write ICD - Beam Path Monitor	5	17OCT05	21OCT05		⚠ Write ICD - Beam Path Monitor					
LN05020206	Collect Area Specific Requirements	5	24OCT05	28OCT05		⚠ Collect Area Specific Requirements					
LN05020208	Evaluate Existing Design Documentation	5	31OCT05	04NOV05		⚠ Evaluate Existing Design Documentation					
LN05020210	Produce Common Layout	5	07NOV05	11NOV05		⚠ Produce Common Layout					
LN05020212	Develop General Specifications / Analysis	3	14NOV05	16NOV05		⚠ Develop General Specifications / Analysis					
LN05020214	Create / Remodel / Revise Dsn Documentation	31	17NOV05	18JAN06		⚠ Create / Remodel / Revise Dsn Documentation					
LN05020142	Component Fab & Assembly - BPMs	120	30NOV05	05JUN06		⚠ Component Fab & Assembly - BPMs					
LN05020454	Component Fab & Assembly - BPMs	120	30NOV05	05JUN06		⚠ Component Fab & Assembly - BPMs					
LN05020216	Make Simplified Models	3	19JAN06	23JAN06		⚠ Make Simplified Models					
LN05020218	Release Final Model To Server	5	24JAN06	30JAN06		⚠ Release Final Model To Server					
LN05020220	Update Component Data Base	2	31JAN06	01FEB06		⚠ Update Component Data Base					
LN05020222	Write Component Traveler	5	02FEB06	08FEB06		⚠ Write Component Traveler					
LN05020224	Prepare for PDR - RF BPMs	3	09FEB06	13FEB06		⚠ Prepare for PDR - RF BPMs					
LN05020226	Conduct RF BPMs PDR	1	14FEB06	14FEB06		⚠ Conduct RF BPMs PDR					
LN05020228	Generate Detailed Procurement Plan	1	15FEB06	15FEB06		⚠ Generate Detailed Procurement Plan					
LN05020230	Establish Subordinate Work Orders	1	16FEB06	16FEB06		⚠ Establish Subordinate Work Orders					
LN05020232	Prepare for FDR - RF BPMs	3	17FEB06	22FEB06		⚠ Prepare for FDR - RF BPMs					



**LCLS
INTEGRATED SCHEDULE**

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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
LN05020234	Conduct RF BPMs FDR	1	23FEB06	23FEB06			⚠ Conduct RF BPMs FDR			
LN05020236	COMP: BPM Design - RF	0		23FEB06			◆ COMP: BPM Design - RF			
LN05020258	Define Diagnostics Support Requirements	4	24FEB06	01MAR06			⚠ Define Diagnostics Support Requirements			
LN05020260	Create ICD & Update LCLS Database	4	02MAR06	07MAR06			⚠ Create ICD & Update LCLS Database			
LN05020262	Develop Preliminary Design - Diagnostic Supports	10	08MAR06	21MAR06			⚠ Develop Preliminary Design - Diagnostic Supports			
LN05020264	Conduct Preliminary Design Review (PDR)	2	22MAR06	23MAR06			⚠ Conduct Preliminary Design Review (PDR)			
LN05020266	Develop Final Design - Diagnostics Supports	10	24MAR06	06APR06			⚠ Develop Final Design - Diagnostics Supports			
LN05020268	Conduct Final Design Review (FDR)	2	07APR06	10APR06			⚠ Conduct Final Design Review (FDR)			
LN05020270	COMP: BPM Support Design - RF	0		10APR06			◆ COMP: BPM Support Design - RF			
LN05020240	Procure Component Material - RF BPMs	60	10APR06	03JUL06			⚠ Procure Component Material - RF BPMs			
LN05020272	Prep Bid Pak - Diagnostics Supports	1	11APR06	11APR06			⚠ Prep Bid Pak - Diagnostics Supports			
LN05020274	RELEASE: RFP - Diagnostics Supports	0		11APR06			◆ RELEASE: RFP - Diagnostics Supports			
LN05020288	Procure Misc Materials - Diagnostics Supports	20	11APR06	08MAY06			⚠ Procure Misc Materials - Diagnostics Supports			
LN05020276	Vendors Prep Proposals - Supports	20	12APR06	09MAY06			⚠ Vendors Prep Proposals - Supports			
LN05020290	Fabricate Diagnostics Supports (as required)	0	09MAY06	08MAY06			⚠ Fabricate Diagnostics Supports (as required)			
LN05020292	Prep for, Clean & Plate Supports	0	09MAY06	08MAY06			⚠ Prep for, Clean & Plate Supports			
LN05020294	Prep for and Paint Diag Supports (as required)	0	09MAY06	08MAY06			⚠ Prep for and Paint Diag Supports (as required)			
LN05020278	RCV: Proposals from Vendors - Supports	0		09MAY06			◆ RCV: Proposals from Vendors - Supports			
LN05020280	Evaluate Vendor Proposals - Supports	4	10MAY06	15MAY06			⚠ Evaluate Vendor Proposals - Supports			
LN05020284	Vendor Fab 1st Lot - Supports	20	17MAY06	14JUN06			⚠ Vendor Fab 1st Lot - Supports			
LN05020144	Perform QC / Metrology	2	06JUN06	07JUN06			⚠ Perform QC / Metrology			
LN05020462	Perform QC / Metrology	4	06JUN06	09JUN06			⚠ Perform QC / Metrology			
LN05020242	Component Fab & Assembly - RF BPMs	80	06JUN06	27SEP06			⚠ Component Fab & Assembly - RF BPMs			
LN05020146	Perform Functional Testing - BPMs	2	08JUN06	09JUN06			⚠ Perform Functional Testing - BPMs			
LN05020464	Perform Functional Testing - BPMs	4	12JUN06	15JUN06			⚠ Perform Functional Testing - BPMs			
LN05020150	Collect Component Performance Data	5	12JUN06	16JUN06			⚠ Collect Component Performance Data			
LN05020152	Load Component Data Base	5	12JUN06	16JUN06			⚠ Load Component Data Base			
LN05020154	Post Process & Test	5	12JUN06	16JUN06			⚠ Post Process & Test			
LN05020286	RCV: 1st Lot Diagnostics Supports from Vendor	0		14JUN06			◆ RCV: 1st Lot Diagnostics Supports from Vendor			
LN05020296	Perform QC & Inspection - Diagnostic Supports	2	15JUN06	16JUN06			⚠ Perform QC & Inspection - Diagnostic Supports			
LN05020156	AVAIL: BPMs Ready for BC1 Install	0		16JUN06			◆ AVAIL: BPMs Ready for BC1 Install			
LN05020158	AVAIL: BPMs Ready for L01 Install	0		16JUN06			◆ AVAIL: BPMs Ready for L01 Install			
LN05020466	Collect Component Performance Data	2	16JUN06	19JUN06			⚠ Collect Component Performance Data			
LN05020297	Assemble Supports	4	19JUN06	22JUN06			⚠ Assemble Supports			
LN05020468	Load Component Data Base	2	20JUN06	21JUN06			⚠ Load Component Data Base			
LN05020470	Post Process & Test	4	22JUN06	27JUN06			⚠ Post Process & Test			
LN05020298	Perform Pre-Installation Qualification - Support	1	23JUN06	23JUN06			⚠ Perform Pre-Installation Qualification - Support			

**LCLS
INTEGRATED SCHEDULE**

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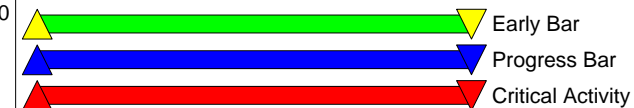


Start Date 01JUN01
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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
LN05020299	AVAIL: Supports Ready for L03, LTU Instl	0		23JUN06				◆ AVAIL: Supports Ready for L03, LTU Instl		
LN05020472	AVAIL: High Resolution BC1 BPM Ready for Install	0		27JUN06				◆ AVAIL: High Resolution BC1 BPM Ready for Install		
LN05020244	Perform QC / Metrology	4	28SEP06	03OCT06				⚠ Perform QC / Metrology		
LN05020300	Receive BPM Requirements	1	03OCT06	03OCT06				⚠ Receive BPM Requirements		
LN050203	BPM - FFTB (9) SUMMARY	151	03OCT06	22MAY07				▲■■■■▼ BPM - FFTB (9) SUMMARY		
LN05020246	Perform Functional Testing - RF BPMs	2	04OCT06	05OCT06				⚠ Perform Functional Testing - RF BPMs		
LN05020302	Review & Accept Requirements	2	04OCT06	05OCT06				⚠ Review & Accept Requirements		
LN05020304	Write ICD - Beam Path Monitor	2	06OCT06	09OCT06				⚠ Write ICD - Beam Path Monitor		
LN05020248	Collect Component Performance Data	5	06OCT06	12OCT06				⚠ Collect Component Performance Data		
LN05020250	Load Component Data Base	5	06OCT06	12OCT06				⚠ Load Component Data Base		
LN05020252	Post Process & Test	5	06OCT06	12OCT06				⚠ Post Process & Test		
LN05020306	Collect Area Specific Requirements	2	10OCT06	11OCT06				⚠ Collect Area Specific Requirements		
LN05020254	AVAIL: RF BPMs Ready for L03 Install	0		12OCT06				◆ AVAIL: RF BPMs Ready for L03 Install		
LN05020256	AVAIL: RF BPMs Ready for LTU Install	0		12OCT06				◆ AVAIL: RF BPMs Ready for LTU Install		
LN05020308	Evaluate Existing Design Documentation	4	12OCT06	17OCT06				⚠ Evaluate Existing Design Documentation		
LN05020310	Produce Common Layout	3	18OCT06	20OCT06				⚠ Produce Common Layout		
LN05020312	Develop General Specifications / Analysis	2	23OCT06	24OCT06				⚠ Develop General Specifications / Analysis		
LN05020314	Create / Remodel / Revise Dsn Documentation	20	25OCT06	21NOV06				⚠ Create / Remodel / Revise Dsn Documentation		
LN05020316	Make Simplified Models	2	22NOV06	27NOV06				⚠ Make Simplified Models		
LN05020318	Release Final Model To Server	1	28NOV06	28NOV06				⚠ Release Final Model To Server		
LN05020320	Update Component Data Base	1	29NOV06	29NOV06				⚠ Update Component Data Base		
LN05020322	Write Component Traveler	4	30NOV06	05DEC06				⚠ Write Component Traveler		
LN05020324	Prepare for PDR - BPMs	1	06DEC06	06DEC06				⚠ Prepare for PDR - BPMs		
LN05020326	Conduct Prelim Design Review (PDR) - FFTB BPMs	1	07DEC06	07DEC06				⚠ Conduct Prelim Design Review (PDR) - FFTB BPMs		
LN05020328	Generate Detailed Procurement Plan	1	08DEC06	08DEC06				⚠ Generate Detailed Procurement Plan		
LN05020330	Establish Subordinate Work Orders	1	11DEC06	11DEC06				⚠ Establish Subordinate Work Orders		
LN05020332	Prepare for FDR - BPMs	3	12DEC06	14DEC06				⚠ Prepare for FDR - BPMs		
LN05020334	Conduct Final Design Review (FDR) - FFTB BPMs	1	15DEC06	15DEC06				⚠ Conduct Final Design Review (FDR) - FFTB BPMs		
LN05020336	COMP: BPM Design - FFTB	0		15DEC06				◆ COMP: BPM Design - FFTB		
LN05020340	Procure Component Material - BPMs	40	02JAN07	28FEB07				▲■■■■▼ Procure Component Material - BPMs		
LN05020342	Component Fab & Assembly - BPMs	40	01MAR07	25APR07				▲■■■■▼ Component Fab & Assembly - BPMs		
LN05020344	Perform QC / Metrology	5	26APR07	02MAY07				⚠ Perform QC / Metrology		
LN05020346	Perform Functional Testing - BPMs	4	03MAY07	08MAY07				⚠ Perform Functional Testing - BPMs		
LN05020348	Collect Component Performance Data	2	09MAY07	10MAY07				⚠ Collect Component Performance Data		
LN05020350	Load Component Data Base	2	09MAY07	10MAY07				⚠ Load Component Data Base		
LN05020352	Post Process & Test	10	09MAY07	22MAY07				⚠ Post Process & Test		
LN05020354	AVAIL: FFTB BPMs Ready for Install	0		22MAY07				◆ AVAIL: FFTB BPMs Ready for Install		

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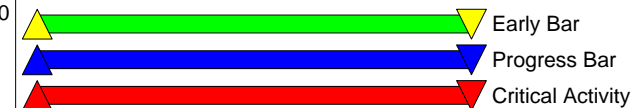


Start Date 01JUN01
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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
1.03.05.03 Toroid Beam Current Monitor (10) Summary										
LN05030000	Receive Toroid Requirements	5	01APR05*	07APR05						
LN0503	TOROID BEAM CURRENT MONITOR (10) SUMMARY	215	01APR05	21FEB06						
LN05030005	Review & Accept Requirements	5	08APR05	14APR05						
LN05030010	Write ICD - Toroid	5	15APR05	21APR05						
LN05030015	Collect Area Specific Requirements	15	22APR05	12MAY05						
LN05030020	Evaluate Existing Design Documentation	5	13MAY05	19MAY05						
LN05030025	Produce Common Layout	5	20MAY05	26MAY05						
LN05030030	Develop General Specifications / Analysis	3	27MAY05	01JUN05						
LN05030035	Create / Remodel / Revise Dsn Documentation	30	02JUN05	14JUL05						
LN05030040	Make Simplified Models	3	15JUL05	19JUL05						
LN05030145	Define Diagnostics Support Requirements	4	15JUL05	20JUL05						
LN05030045	Release Final Model To Server	10	20JUL05	02AUG05						
LN05030150	Create ICD & Update LCLS Database	4	21JUL05	26JUL05						
LN05030155	Develop Preliminary Design - Diagnostic Supports	10	27JUL05	09AUG05						
LN05030050	Update Component Data Base	2	03AUG05	04AUG05						
LN05030055	Write Component Traveler	30	05AUG05	16SEP05						
LN05030165	Conduct Preliminary Design Review (PDR)	2	10AUG05	11AUG05						
LN05030175	Develop Final Design - Diagnostics Supports	10	12AUG05	25AUG05						
LN05030185	Conduct Final Design Review (FDR)	2	26AUG05	29AUG05						
LN05030195	COMP: Toroid Supports Design	0		29AUG05						
LN05030200	Prep Bid Pak - Diagnostics Supports	1	30AUG05	30AUG05						
LN05030210	RELEASE: RFP - Diagnostics Supports	0		30AUG05						
LN05030215	Vendors Prep Proposals - Supports	20	31AUG05	28SEP05						
LN05030060	Prepare for PDR - Toroids	3	19SEP05	21SEP05						
LN05030065	Conduct Toroids PDR	1	22SEP05	22SEP05						
LN05030070	Generate Detailed Procurement Plan	1	23SEP05	23SEP05						
LN05030075	Establish Subordinate Work Orders	1	26SEP05	26SEP05						
LN05030080	Prepare for FDR - Toroids	3	27SEP05	29SEP05						
LN05030220	RCV: Proposals from Vendors - Supports	0		28SEP05						
LN05030225	Evaluate Vendor Proposals - Supports	4	29SEP05	04OCT05						
LN05030085	Conduct Toroids FDR	1	30SEP05	30SEP05						
LN05030090	COMP: Toroid Design	0		30SEP05						
LN05030255	Procure Misc Materials - Diagnostics Supports	20	03OCT05	28OCT05						
LN05030100	Procure Component Material - Toroids	60	03OCT05	11JAN06						
LN05030105	Component Fab & Assembly - Toroids	80	03OCT05	09FEB06						
LN05030235	Vendor Fab 1st Lot - Supports	20	06OCT05	02NOV05						

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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
LN05030260	Fabricate Diagnostics Supports (as required)	0	31OCT05	28OCT05				⚠ Fabricate Diagnostics Supports (as required)		
LN05030265	Prep for, Clean & Plate Supports	0	31OCT05	28OCT05				⚠ Prep for, Clean & Plate Supports		
LN05030270	Prep for and Paint Diag Supports (as required)	0	31OCT05	28OCT05				⚠ Prep for and Paint Diag Supports (as required)		
LN05030240	RCV: 1st Lot Diagnostics Supports from Vendor	0		02NOV05				◆ RCV: 1st Lot Diagnostics Supports from Vendor		
LN05030250	RCV: Remaining Supports from Vendor	0		02NOV05				◆ RCV: Remaining Supports from Vendor		
LN05030245	Vendor Fab Remaining Lot - Supports	0	03NOV05	02NOV05				⚠ Vendor Fab Remaining Lot - Supports		
LN05030275	Perform QC & Inspection - Diagnostic Supports	2	03NOV05	04NOV05				⚠ Perform QC & Inspection - Diagnostic Supports		
LN05030280	Assemble Supports	10	07NOV05	18NOV05				⚠ Assemble Supports		
LN05030290	Perform Pre-Installation Qualification - Support	4	21NOV05	28NOV05				⚠ Perform Pre-Installation Qualification - Support		
LN05030295	AVAIL: Supports Ready for BC1, BC2, LTU Instl	0		28NOV05				◆ AVAIL: Supports Ready for BC1, BC2, LTU Instl		
LN05030110	Perform QC / Metrology	0	10FEB06	09FEB06				⚠ Perform QC / Metrology		
LN05030115	Perform Functional Testing - Toroids	2	10FEB06	13FEB06				⚠ Perform Functional Testing - Toroids		
LN05030120	Collect Component Performance Data	5	14FEB06	21FEB06				⚠ Collect Component Performance Data		
LN05030125	Load Component Data Base	5	14FEB06	21FEB06				⚠ Load Component Data Base		
LN05030130	Post Process & Test	5	14FEB06	21FEB06				⚠ Post Process & Test		
LN05030141	AVAIL: Toroids Ready for BC1 Install	0		21FEB06				◆ AVAIL: Toroids Ready for BC1 Install		
LN05030142	AVAIL: Toroids Ready for BC2 Install	0		21FEB06				◆ AVAIL: Toroids Ready for BC2 Install		
LN05030143	AVAIL: Toroids Ready for LTU Install	0		21FEB06				◆ AVAIL: Toroids Ready for LTU Install		
1.03.05.04 Beam Stoppers (4) Summary										
LN05040000	Receive Stopper Requirements	1	03OCT05	03OCT05				⚠ Receive Stopper Requirements		
LN0504	BEAM STOPPERS (4) SUMMARY	203	03OCT05	04AUG06				⚠ BEAM STOPPERS (4) SUMMARY		
LN05040005	Review & Accept Requirements	2	04OCT05	05OCT05				⚠ Review & Accept Requirements		
LN05040010	Write ICD - Stopper	2	06OCT05	07OCT05				⚠ Write ICD - Stopper		
LN05040015	Collect Area Specific Requirements	4	10OCT05	13OCT05				⚠ Collect Area Specific Requirements		
LN05040020	Evaluate Existing Design Documentation	8	14OCT05	25OCT05				⚠ Evaluate Existing Design Documentation		
LN05040025	Produce Common Layout	10	26OCT05	08NOV05				⚠ Produce Common Layout		
LN05040030	Develop General Specifications / Analysis	2	09NOV05	10NOV05				⚠ Develop General Specifications / Analysis		
LN05040140	Define Diagnostics Support Requirements	4	11NOV05	16NOV05				⚠ Define Diagnostics Support Requirements		
LN05040035	Create / Remodel / Revise Dsn Documentation	20	11NOV05	12DEC05				⚠ Create / Remodel / Revise Dsn Documentation		
LN05040145	Create ICD & Update LCLS Database	4	17NOV05	22NOV05				⚠ Create ICD & Update LCLS Database		
LN05040150	Develop Preliminary Design - Diagnostic Supports	10	23NOV05	08DEC05				⚠ Develop Preliminary Design - Diagnostic Supports		
LN05040160	Conduct Preliminary Design Review (PDR)	2	09DEC05	12DEC05				⚠ Conduct Preliminary Design Review (PDR)		
LN05040040	Make Simplified Models	2	13DEC05	14DEC05				⚠ Make Simplified Models		
LN05040170	Develop Final Design - Diagnostics Supports	10	13DEC05	10JAN06				⚠ Develop Final Design - Diagnostics Supports		
LN05040045	Release Final Model To Server	1	15DEC05	15DEC05				⚠ Release Final Model To Server		
LN05040050	Update Component Data Base	1	16DEC05	16DEC05				⚠ Update Component Data Base		
LN05040055	Write Component Traveler	2	03JAN06	04JAN06				⚠ Write Component Traveler		

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					2004	2005	2006	2007	2008	2009
LN05040060	Prepare for PDR - Stoppers	1	05JAN06	05JAN06			⚠ Prepare for PDR - Stoppers			
LN05040070	Generate Detailed Procurement Plan	1	06JAN06	06JAN06			⚠ Generate Detailed Procurement Plan			
LN05040075	Establish Subordinate Work Orders	1	09JAN06	09JAN06			⚠ Establish Subordinate Work Orders			
LN05040080	Prepare for FDR - Stoppers	3	10JAN06	12JAN06			⚠ Prepare for FDR - Stoppers			
LN05040180	Conduct Final Design Review (FDR)	2	11JAN06	12JAN06			⚠ Conduct Final Design Review (FDR)			
LN05040190	COMP: Stopper Supports Design	0		12JAN06			◆ COMP: Stopper Supports Design			
LN05040085	Conduct Stoppers FDR	1	13JAN06	13JAN06			⚠ Conduct Stoppers FDR			
LN05040090	COMP: Stopper Design	0		13JAN06			◆ COMP: Stopper Design			
LN05040195	Prep Bid Pak - Diagnostics Supports	1	13JAN06	13JAN06			⚠ Prep Bid Pak - Diagnostics Supports			
LN05040205	RELEASE: RFP - Diagnostics Supports	0		13JAN06			◆ RELEASE: RFP - Diagnostics Supports			
LN05040250	Procure Misc Materials - Diagnostics Supports	20	13JAN06	10FEB06			⚠ Procure Misc Materials - Diagnostics Supports			
LN05040210	Vendors Prep Proposals - Supports	20	17JAN06	13FEB06			⚠ Vendors Prep Proposals - Supports			
LN05040100	Procure Component Material - Stoppers	100	17JAN06	07JUN06			⚠ Procure Component Material - Stoppers			
LN05040255	Fabricate Diagnostics Supports (as required)	0	13FEB06	10FEB06			⚠ Fabricate Diagnostics Supports (as required)			
LN05040260	Prep for, Clean & Plate Supports	0	13FEB06	10FEB06			⚠ Prep for, Clean & Plate Supports			
LN05040265	Prep for and Paint Diag Supports (as required)	0	13FEB06	10FEB06			⚠ Prep for and Paint Diag Supports (as required)			
LN05040215	RCV: Proposals from Vendors - Supports	0		13FEB06			◆ RCV: Proposals from Vendors - Supports			
LN05040220	Evaluate Vendor Proposals - Supports	4	14FEB06	17FEB06			⚠ Evaluate Vendor Proposals - Supports			
LN05040105	Component Fab & Assembly - Stoppers	100	14FEB06	06JUL06			⚠ Component Fab & Assembly - Stoppers			
LN05040230	Vendor Fab 1st Lot - Supports	20	22FEB06	21MAR06			⚠ Vendor Fab 1st Lot - Supports			
LN05040235	RCV: 1st Lot Diagnostics Supports from Vendor	0		21MAR06			◆ RCV: 1st Lot Diagnostics Supports from Vendor			
LN05040245	RCV: Remaining Supports from Vendor	0		21MAR06			◆ RCV: Remaining Supports from Vendor			
LN05040240	Vendor Fab Remaining Lot - Supports	0	22MAR06	21MAR06			⚠ Vendor Fab Remaining Lot - Supports			
LN05040270	Perform QC & Inspection - Diagnostic Supports	2	22MAR06	23MAR06			⚠ Perform QC & Inspection - Diagnostic Supports			
LN05040275	Assemble Supports	10	24MAR06	06APR06			⚠ Assemble Supports			
LN05040285	Perform Pre-Installation Qualification - Support	4	07APR06	12APR06			⚠ Perform Pre-Installation Qualification - Support			
LN05040290	AVAIL: Supports Ready for Instl	0		12APR06			◆ AVAIL: Supports Ready for Instl			
LN05040110	Perform QC / Metrology	4	07JUL06	12JUL06			⚠ Perform QC / Metrology			
LN05040115	Perform Functional Testing - Stoppers	2	13JUL06	14JUL06			⚠ Perform Functional Testing - Stoppers			
LN05040120	Collect Component Performance Data	5	17JUL06	21JUL06			⚠ Collect Component Performance Data			
LN05040125	Load Component Data Base	5	24JUL06	28JUL06			⚠ Load Component Data Base			
LN05040130	Post Process & Test	5	31JUL06	04AUG06			⚠ Post Process & Test			
LN05040135	AVAIL: Stoppers Ready for BC1 Install	0		04AUG06			◆ AVAIL: Stoppers Ready for BC1 Install			
LN05040136	AVAIL: Stoppers Ready for BC2 Install	0		04AUG06			◆ AVAIL: Stoppers Ready for BC2 Install			
LN05040137	AVAIL: Stoppers Ready for LTU Install	0		04AUG06			◆ AVAIL: Stoppers Ready for LTU Install			
1.03.05.05 Profile Monitors (7 OTR-3 PHOSPHOR SCREEN-1 YAG)										
LN05050010	Write ICD - Profile Monitor	12	01OCT04	18OCT04			⚠ Write ICD - Profile Monitor			

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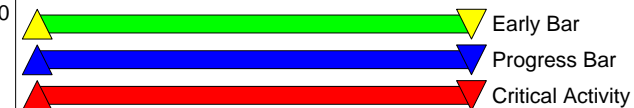
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▶ Early Bar
▶ Progress Bar
▶ Critical Activity

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish							
					2004	2005	2006	2007	2008	2009	
LN05050030	Develop General Specifications / Analysis	12	01OCT04	18OCT04		▲▼ Develop General Specifications / Analysis					
LN0505	PROFILE MONITORS (7 OTR/3 PHOS/1 YAG)	345	01OCT04	13MAR06		▲▼ PROFILE MONITORS (7 OTR/3 PHOS/1 YAG) SUMMARY					
LN05050035	Create / Remodel / Revise Dsn Documentation	31	19OCT04	02DEC04		▲▼ Create / Remodel / Revise Dsn Documentation					
LN05050040	Design Phosphor Screen Option	10	03DEC04	16DEC04		▲▼ Design Phosphor Screen Option					
LN05050050	Design OTR Screen Options	10	17DEC04	13JAN05		▲▼ Design OTR Screen Options					
LN05050060	Make Simplified Models	3	14JAN05	19JAN05		▲▼ Make Simplified Models					
LN05050065	Release Final Model To Server	16	20JAN05	10FEB05		▲▼ Release Final Model To Server					
LN05050070	Update Component Data Base	2	11FEB05	14FEB05		▲▼ Update Component Data Base					
LN05050075	Write Component Traveler	50	15FEB05	26APR05		▲▼ Write Component Traveler					
LN05050080	Prepare for PDR - Profile Monitors	3	27APR05	29APR05		▲▼ Prepare for PDR - Profile Monitors					
LN05050085	Conduct Profile Monitors PDR	1	02MAY05	02MAY05		▲▼ Conduct Profile Monitors PDR					
LN05050090	Generate Detailed Procurement Plan	1	03MAY05	03MAY05		▲▼ Generate Detailed Procurement Plan					
LN05050095	Establish Subordinate Work Orders	1	04MAY05	04MAY05		▲▼ Establish Subordinate Work Orders					
LN05050100	Prepare for FDR - Profile Monitors	3	05MAY05	09MAY05		▲▼ Prepare for FDR - Profile Monitors					
LN05050105	Conduct Profile Monitors FDR	1	10MAY05	10MAY05		▲▼ Conduct Profile Monitors FDR					
LN05050110	COMP: Profile Monitor Design	0		10MAY05		◆ COMP: Profile Monitor Design					
LN05050115	Prep Bid Pak - Profile Monitor	2	11MAY05	12MAY05		▲▼ Prep Bid Pak - Profile Monitor					
LN05050245	Define Diagnostics Support Requirements	2	11MAY05	12MAY05		▲▼ Define Diagnostics Support Requirements					
LN05050125	RELEASE: RFP - Profile Monitors	0		12MAY05		◆ RELEASE: RFP - Profile Monitors					
LN05050250	Create ICD & Update LCLS Database	2	13MAY05	16MAY05		▲▼ Create ICD & Update LCLS Database					
LN05050130	Vendors Prep Proposals - Profile Monitors	20	13MAY05	10JUN05		▲▼ Vendors Prep Proposals - Profile Monitors					
LN05050255	Develop Preliminary Design - Diagnostic Supports	10	17MAY05	31MAY05		▲▼ Develop Preliminary Design - Diagnostic Supports					
LN05050265	Conduct Preliminary Design Review (PDR)	1	01JUN05	01JUN05		▲▼ Conduct Preliminary Design Review (PDR)					
LN05050275	Develop Final Design - Diagnostics Supports	12	02JUN05	17JUN05		▲▼ Develop Final Design - Diagnostics Supports					
LN05050135	RCV: Proposals from Vendors	0		10JUN05		◆ RCV: Proposals from Vendors					
LN05050140	Evaluate Vendor Proposals	4	13JUN05	16JUN05		▲▼ Evaluate Vendor Proposals					
LN05050285	Conduct Final Design Review (FDR)	1	20JUN05	20JUN05		▲▼ Conduct Final Design Review (FDR)					
LN05050295	COMP: Support Design - Profile Monitor	0		20JUN05		◆ COMP: Support Design - Profile Monitor					
LN05050300	Prep Bid Pak - Diagnostics Supports	1	21JUN05	21JUN05		▲▼ Prep Bid Pak - Diagnostics Supports					
LN05050310	RELEASE: RFP - Diagnostics Supports	0		21JUN05		◆ RELEASE: RFP - Diagnostics Supports					
LN05050315	Vendors Prep Proposals - Supports	20	22JUN05	20JUL05		▲▼ Vendors Prep Proposals - Supports					
LN05050320	RCV: Proposals from Vendors - Supports	0		20JUL05		◆ RCV: Proposals from Vendors - Supports					
LN05050325	Evaluate Vendor Proposals - Supports	4	21JUL05	26JUL05		▲▼ Evaluate Vendor Proposals - Supports					
LN05050355	Procure Misc Materials - Diagnostics Supports	20	03OCT05	28OCT05		▲▼ Procure Misc Materials - Diagnostics Supports					
LN05050175	Procure Component Material - Profile Monitors	40	03OCT05	29NOV05		▲▼ Procure Component Material - Profile Monitors					
LN05050170	Procure 50B1 Profile Monitor	20	04OCT05	31OCT05		▲▼ Procure 50B1 Profile Monitor					
LN05050335	Vendor Fab 1st Lot - Supports	20	04OCT05	31OCT05		▲▼ Vendor Fab 1st Lot - Supports					



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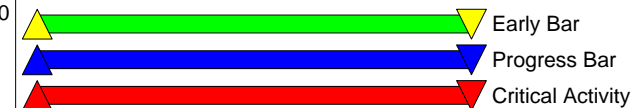
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Start Date 01JUN01
 Finish Date 31MAR09
 Data Date 01OCT04
 Run Date 29APR05 13:41

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish							
					2004	2005	2006	2007	2008	2009	
LN05050150	Vendor Fab 1st Lot	30	04OCT05	14NOV05			▲▼ Vendor Fab 1st Lot				
LN05050180	Component Fab & Assembly - Profile Monitors	40	17OCT05	13DEC05			▲▼ Component Fab & Assembly - Profile Monitors				
LN05050360	Fabricate Diagnostics Supports (as required)	0	31OCT05	28OCT05			▲ Fabricate Diagnostics Supports (as required)				
LN05050365	Prep for, Clean & Plate Supports	0	31OCT05	28OCT05			▲ Prep for, Clean & Plate Supports				
LN05050370	Prep for and Paint Diag Supports (as required)	0	31OCT05	28OCT05			▲ Prep for and Paint Diag Supports (as required)				
LN05050340	RCV: 1st Lot Diagnostics Supports from Vendor	0		31OCT05			◆ RCV: 1st Lot Diagnostics Supports from Vendor				
LN05050350	RCV: Remaining Supports from Vendor	0		31OCT05			◆ RCV: Remaining Supports from Vendor				
LN05050375	Perform QC & Inspection - Diagnostic Supports	2	31OCT05	01NOV05			▲ Perform QC & Inspection - Diagnostic Supports				
LN05050345	Vendor Fab Remaining Lot - Supports	0	01NOV05	31OCT05			▲ Vendor Fab Remaining Lot - Supports				
LN05050380	Assemble Supports	15	02NOV05	22NOV05			▲ Assemble Supports				
LN05050155	RCV: 1st Lot Diagnostics Equip from Vendor	0		14NOV05			◆ RCV: 1st Lot Diagnostics Equip from Vendor				
LN05050160	Vendor Fab Remaining Lot	30	15NOV05	12JAN06			▲▼ Vendor Fab Remaining Lot				
LN05050390	Perform Pre-Installation Qualification - Support	4	23NOV05	30NOV05			▲ Perform Pre-Installation Qualification - Support				
LN05050395	AVAIL: Supts Ready for BC1, BC2, L03, LTU Instl	0		30NOV05			◆ AVAIL: Supts Ready for BC1, BC2, L03, LTU Instl				
LN05050165	RCV: Remaining from Vendor	0		12JAN06			◆ RCV: Remaining from Vendor				
LN05050200	Perform QC / Metrology	10	13JAN06	27JAN06			▲ Perform QC / Metrology				
LN05050205	Perform Functional Testing - Profile Monitors	20	30JAN06	27FEB06			▲ Perform Functional Testing - Profile Monitors				
LN05050210	Collect Component Performance Data	2	28FEB06	01MAR06			▲ Collect Component Performance Data				
LN05050215	Load Component Data Base	4	28FEB06	03MAR06			▲ Load Component Data Base				
LN05050220	Post Process & Test	10	28FEB06	13MAR06			▲ Post Process & Test				
LN05050225	AVAIL: Profile Monitors Ready for BC1 Install	0		13MAR06			◆ AVAIL: Profile Monitors Ready for BC1 Install				
LN05050230	AVAIL: Profile Monitors Ready for BC2 Install	0		13MAR06			◆ AVAIL: Profile Monitors Ready for BC2 Install				
LN05050235	AVAIL: Profile Monitors Ready for L03 Install	0		13MAR06			◆ AVAIL: Profile Monitors Ready for L03 Install				
LN05050240	AVAIL: Profile Monitors Ready for LTU Install	0		13MAR06			◆ AVAIL: Profile Monitors Ready for LTU Install				
1.03.05.06 E/O Bunch Length Monitors (1) Summary											
LN05060010	Write ICD - E/O Monitor	20	01OCT04	28OCT04			▲ Write ICD - E/O Monitor				
LN050601	Remodel / REvise Dsn Documentation	40	01OCT04	29NOV04			▲ Remodel / REvise Dsn Documentation				
LN0506	E/O BUNCH LENGTH MONITORS (1) SUMMARY	597	01OCT04	26MAR07			▲ E/O BUNCH LENGTH MONITORS (1) SUMMARY				
LN05060120	Prep Bid Pak - Misc Equip/Comp - E/O Mon	2	30NOV04	01DEC04			▲ Prep Bid Pak - Misc Equip/Comp - E/O Mon				
LN05060125	RELEASE: RFP - Misc Equip/Comp - E/O Mon	0		01DEC04			◆ RELEASE: RFP - Misc Equip/Comp - E/O Mon				
LN05060130	Vendors Prep Proposals - Misc Eq/Comp - E/O Mon	20	02DEC04	12JAN05			▲ Vendors Prep Proposals - Misc Eq/Comp - E/O Mon				
LN05060135	RCV: Proposals from Vendors	0		12JAN05			◆ RCV: Proposals from Vendors				
LN05060140	Evaluate Vendor Proposals	4	13JAN05	19JAN05			▲ Evaluate Vendor Proposals				
LN05060170	Vendor Fab & Assy - Misc Equip/Comp - E/O Mon	100	04OCT05	13MAR06			▲▼ Vendor Fab & Assy - Misc Equip/Comp - E/O Mon				
LN05060175	RCV: from Vendor Misc Equip/Comp - E/O Monitors	0		13MAR06			◆ RCV: from Vendor Misc Equip/Comp - E/O Monitors				
LN05060180	Component Fab & Assembly - E/O Monitors	80	14MAR06	05JUL06			▲▼ Component Fab & Assembly - E/O Monitors				
LN05060185	E/O Laser Optics Assembly and Test	30	06JUL06	16AUG06			▲▼ E/O Laser Optics Assembly and Test				

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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
LN05060190	E/O Laser Optics Assembly	20	02OCT06	27OCT06				▲ E/O Laser Optics Assembly		
LN05060095	Prep Bid Pak - Profile Monitor	2	03OCT06	04OCT06				▲ Prep Bid Pak - Profile Monitor		
LN05060100	RELEASE: RFP Profile Monitor	0		04OCT06				◆ RELEASE: RFP Profile Monitor		
LN05060102	Vendors Prep Proposals - E/O Bnch Lngth Monitors	20	05OCT06	01NOV06				▲ Vendors Prep Proposals - E/O Bnch Lngth Monitors		
LN05060195	E/O Laser Optics Fabrication	10	30OCT06	10NOV06				▲ E/O Laser Optics Fabrication		
LN05060104	RCV: Proposals from Vendors	0		01NOV06				◆ RCV: Proposals from Vendors		
LN05060106	Evaluate Vendor Proposals	4	02NOV06	07NOV06				▲ Evaluate Vendor Proposals		
LN05060110	Vendor Fab 1st Lot	30	09NOV06	08JAN07				▲ Vendor Fab 1st Lot		
LN05060112	RCV: 1st Lot from Vendor	0		08JAN07				◆ RCV: 1st Lot from Vendor		
LN05060114	Vendor Fab Remaining Lot	30	09JAN07	21FEB07				▲ Vendor Fab Remaining Lot		
LN05060116	RCV: Remaining Lot from Vendor	0		21FEB07				◆ RCV: Remaining Lot from Vendor		
LN05060200	Perform QC / Metrology	4	22FEB07	27FEB07				▲ Perform QC / Metrology		
LN05060205	Perform Functional Testing - E/O Monitors	2	28FEB07	01MAR07				▲ Perform Functional Testing - E/O Monitors		
LN05060210	Collect Component Performance Data	5	02MAR07	08MAR07				▲ Collect Component Performance Data		
LN05060215	Load Component Data Base	5	09MAR07	15MAR07				▲ Load Component Data Base		
LN05060220	Post Process & Test	5	16MAR07	22MAR07				▲ Post Process & Test		
LN05060225	Prepare for Post-Test FDR - E/O Monitor	1	23MAR07	23MAR07				▲ Prepare for Post-Test FDR - E/O Monitor		
LN05060230	Conduct Post-Test E/O Monitor FDR	1	26MAR07	26MAR07				▲ Conduct Post-Test E/O Monitor FDR		
LN05060245	AVAIL: E/O Monitors Ready for LTU Install	0		26MAR07				◆ AVAIL: E/O Monitors Ready for LTU Install		
1.03.05.07 CSR/OTR/CTR Bunch Length Monitors (5) Summary										
LN05070000	Receive Bunch Length Monitor Requirements	1	16DEC04	16DEC04				▲ Receive Bunch Length Monitor Requirements		
LN0507	CSR/OTR/CTR BUNCH LENGTH MONITORS (5)	264	16DEC04	30JAN06				▲ CSR/OTR/CTR BUNCH LENGTH MONITORS (5) SUMMARY		
LN05070005	Review & Accept Requirements	1	17DEC04	17DEC04				▲ Review & Accept Requirements		
LN05070010	Write ICD - Bunch Length Monitor	2	03JAN05	04JAN05				▲ Write ICD - Bunch Length Monitor		
LN05070015	Collect Area Specific Requirements	2	05JAN05	06JAN05				▲ Collect Area Specific Requirements		
LN05070020	Evaluate Existing Design Documentation	4	07JAN05	12JAN05				▲ Evaluate Existing Design Documentation		
LN05070025	Produce Common Layout	4	13JAN05	19JAN05				▲ Produce Common Layout		
LN05070030	Develop General Specifications / Analysis	4	20JAN05	25JAN05				▲ Develop General Specifications / Analysis		
LN05070035	Create / Remodel / Revise Dsn Documentation	30	26JAN05	09MAR05				▲ Create / Remodel / Revise Dsn Documentation		
LN05070040	Make Simplified Models	4	10MAR05	15MAR05				▲ Make Simplified Models		
LN05070045	Release Final Model To Server	1	16MAR05	16MAR05				▲ Release Final Model To Server		
LN05070050	Update Component Data Base	1	17MAR05	17MAR05				▲ Update Component Data Base		
LN05070055	Write Component Traveler	2	18MAR05	21MAR05				▲ Write Component Traveler		
LN05070060	Prepare for PDR - Bunch Length Monitors	1	22MAR05	22MAR05				▲ Prepare for PDR - Bunch Length Monitors		
LN05070065	Conduct B/L Monitors PDR	1	23MAR05	23MAR05				▲ Conduct B/L Monitors PDR		
LN05070070	Generate Detailed Procurement Plan	1	24MAR05	24MAR05				▲ Generate Detailed Procurement Plan		
LN05070075	Establish Subordinate Work Orders	1	25MAR05	25MAR05				▲ Establish Subordinate Work Orders		



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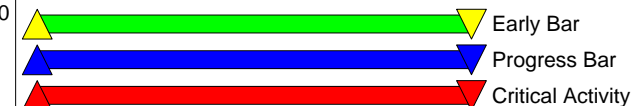
Start Date 01JUN01
Finish Date 31MAR09
Data Date 01OCT04
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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
LN05070080	Prepare for FDR - Bunch Length Monitors	1	28MAR05	28MAR05		⚠ Prepare for FDR - Bunch Length Monitors				
LN05070085	Conduct B/L Monitors FDR	1	29MAR05	29MAR05		⚠ Conduct B/L Monitors FDR				
LN05070090	COMP: Bunch Length Monitor Design	0		29MAR05		◆ COMP: Bunch Length Monitor Design				
LN05070140	Define Diagnostics Support Requirements	1	30MAR05	30MAR05		⚠ Define Diagnostics Support Requirements				
LN05070145	Create ICD & Update LCLS Database	1	31MAR05	31MAR05		⚠ Create ICD & Update LCLS Database				
LN05070150	Develop Preliminary Design - Diagnostic Supports	4	01APR05	06APR05		⚠ Develop Preliminary Design - Diagnostic Supports				
LN05070160	Conduct Preliminary Design Review (PDR)	1	07APR05	07APR05		⚠ Conduct Preliminary Design Review (PDR)				
LN05070170	Develop Final Design - Diagnostics Supports	4	08APR05	13APR05		⚠ Develop Final Design - Diagnostics Supports				
LN05070180	Conduct Final Design Review (FDR)	1	14APR05	14APR05		⚠ Conduct Final Design Review (FDR)				
LN05070190	COMP: Bunch Length Monitor Supports Design	0		14APR05		◆ COMP: Bunch Length Monitor Supports Design				
LN05070195	Prep Bid Pak - Diagnostics Supports	1	15APR05	15APR05		⚠ Prep Bid Pak - Diagnostics Supports				
LN05070205	RELEASE: RFP - Diagnostics Supports	0		15APR05		◆ RELEASE: RFP - Diagnostics Supports				
LN05070210	Vendors Prep Proposals - Supports	20	18APR05	13MAY05		⚠ Vendors Prep Proposals - Supports				
LN05070215	RCV: Proposals from Vendors - Supports	0		13MAY05		◆ RCV: Proposals from Vendors - Supports				
LN05070220	Evaluate Vendor Proposals - Supports	2	16MAY05	17MAY05		⚠ Evaluate Vendor Proposals - Supports				
LN05070250	Procure Misc Materials - Diagnostics Supports	5	03OCT05	07OCT05		⚠ Procure Misc Materials - Diagnostics Supports				
LN05070100	Procure Component Material - Bunch Length Mon	20	03OCT05	28OCT05		⚠ Procure Component Material - Bunch Length Mon				
LN05070230	Vendor Fab 1st Lot - Supports	20	04OCT05	31OCT05		⚠ Vendor Fab 1st Lot - Supports				
LN05070255	Fabricate Diagnostics Supports (as required)	0	10OCT05	07OCT05		⚠ Fabricate Diagnostics Supports (as required)				
LN05070260	Prep for, Clean & Plate Supports	0	10OCT05	07OCT05		⚠ Prep for, Clean & Plate Supports				
LN05070265	Prep for and Paint Diag Supports (as required)	0	10OCT05	07OCT05		⚠ Prep for and Paint Diag Supports (as required)				
LN05070245	RCV: Remaining Supports from Vendor	0		31OCT05		◆ RCV: Remaining Supports from Vendor				
LN05070105	Component Fab & Assembly - Bunch Length Monit	20	31OCT05	29NOV05		⚠ Component Fab & Assembly - Bunch Length Monit				
LN05070270	Perform QC & Inspection - Diagnostic Supports	2	01NOV05	02NOV05		⚠ Perform QC & Inspection - Diagnostic Supports				
LN05070275	Assemble Supports	10	03NOV05	16NOV05		⚠ Assemble Supports				
LN05070285	Perform Pre-Installation Qualification - Support	2	17NOV05	18NOV05		⚠ Perform Pre-Installation Qualification - Support				
LN05070290	AVAIL: Supports Ready for BC1, BC2, LTU Instl	0		18NOV05		◆ AVAIL: Supports Ready for BC1, BC2, LTU Instl				
LN05070110	Perform QC / Metrology	20	30NOV05	11JAN06		⚠ Perform QC / Metrology				
LN05070115	Perform Functional Testing - Bunch Length Mon	2	12JAN06	13JAN06		⚠ Perform Functional Testing - Bunch Length Mon				
LN05070120	Collect Component Performance Data	2	17JAN06	18JAN06		⚠ Collect Component Performance Data				
LN05070125	Load Component Data Base	2	17JAN06	18JAN06		⚠ Load Component Data Base				
LN05070130	Post Process & Test	10	17JAN06	30JAN06		⚠ Post Process & Test				
LN05070135	AVAIL: Bnch Length Monitors Ready for BC1 Instl	0		30JAN06		◆ AVAIL: Bnch Length Monitors Ready for BC1 Instl				
LN05070136	AVAIL: Bnch Length Monitors Ready for BC2 Instl	0		30JAN06		◆ AVAIL: Bnch Length Monitors Ready for BC2 Instl				
LN05070137	AVAIL: Bnch Length Monitors Ready for LTU Instl	0		30JAN06		◆ AVAIL: Bnch Length Monitors Ready for LTU Instl				
1.03.05.08 Beam Loss Monitors										
LN05080200	Receive Beam Loss Monitor Requirements	1	03OCT05	03OCT05		⚠ Receive Beam Loss Monitor Requirements				

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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish							
					2004	2005	2006	2007	2008	2009	
LN050802	PLIC BEAM LOSS MONITORS (2) SUMMARY	366	03OCT05	12APR07							PLIC BEAM LOSS MONITORS (2) SUMMARY
LN05080100	Receive Beam Loss Monitor Requirements	1	14JUN06	14JUN06							Receive Beam Loss Monitor Requirements
LN050801	PIC BEAM LOSS MONITOR (10) SUMMARY	177	14JUN06	12MAR07							PIC BEAM LOSS MONITOR (10) SUMMARY
LN05080102	Review & Accept Requirements	1	15JUN06	15JUN06							Review & Accept Requirements
LN05080104	Write ICD - Beam Loss Monitor	2	16JUN06	19JUN06							Write ICD - Beam Loss Monitor
LN05080106	Collect Area Specific Requirements	2	20JUN06	21JUN06							Collect Area Specific Requirements
LN05080108	Evaluate Existing Design Documentation	8	22JUN06	03JUL06							Evaluate Existing Design Documentation
LN05080110	Produce Common Layout	8	05JUL06	14JUL06							Produce Common Layout
LN05080112	Develop General Specifications / Analysis	4	17JUL06	20JUL06							Develop General Specifications / Analysis
LN05080114	Revise Design Documentation	10	21JUL06	03AUG06							Revise Design Documentation
LN05080116	Make Simplified Models	1	04AUG06	04AUG06							Make Simplified Models
LN05080118	Release Final Model To Server	1	07AUG06	07AUG06							Release Final Model To Server
LN05080120	Update Component Data Base	2	08AUG06	09AUG06							Update Component Data Base
LN05080122	Write Component Traveler	2	10AUG06	11AUG06							Write Component Traveler
LN05080124	Prepare for PDR - Beam Loss Monitors	1	14AUG06	14AUG06							Prepare for PDR - Beam Loss Monitors
LN05080126	Conduct Beam Loss Monitors PDR	1	15AUG06	15AUG06							Conduct Beam Loss Monitors PDR
LN05080128	Generate Detailed Procurement Plan	1	16AUG06	16AUG06							Generate Detailed Procurement Plan
LN05080130	Establish Subordinate Work Orders	1	17AUG06	17AUG06							Establish Subordinate Work Orders
LN05080132	Prepare for FDR - Beam Loss Monitors	1	18AUG06	18AUG06							Prepare for FDR - Beam Loss Monitors
LN05080134	Conduct Beam Loss Monitors FDR	1	21AUG06	21AUG06							Conduct Beam Loss Monitors FDR
LN05080136	COMP: Beam Loss Monitor (PIC) Design	0		21AUG06							COMP: Beam Loss Monitor (PIC) Design
LN05080202	Review & Accept Requirements	1	03OCT06	03OCT06							Review & Accept Requirements
LN05080158	Define Diagnostics Support Requirements	4	03OCT06	06OCT06							Define Diagnostics Support Requirements
LN05080140	Procure Component Material - Beam Loss Monitors	60	03OCT06	11JAN07							Procure Component Material - Beam Loss Monitors
LN05080204	Write ICD - Beam Loss Monitor	2	04OCT06	05OCT06							Write ICD - Beam Loss Monitor
LN05080206	Collect Area Specific Requirements	4	06OCT06	11OCT06							Collect Area Specific Requirements
LN05080160	Create ICD & Update LCLS Database	4	09OCT06	12OCT06							Create ICD & Update LCLS Database
LN05080208	Evaluate Existing Design Documentation	3	12OCT06	16OCT06							Evaluate Existing Design Documentation
LN05080162	Develop Preliminary Design - Diagnostic Supports	10	13OCT06	26OCT06							Develop Preliminary Design - Diagnostic Supports
LN05080210	Produce Common Layout	5	17OCT06	23OCT06							Produce Common Layout
LN05080212	Develop General Specifications / Analysis	2	24OCT06	25OCT06							Develop General Specifications / Analysis
LN05080214	Revise Design Documentation	5	26OCT06	01NOV06							Revise Design Documentation
LN05080164	Conduct Preliminary Design Review (PDR)	1	27OCT06	27OCT06							Conduct Preliminary Design Review (PDR)
LN05080166	Develop Final Design - Diagnostics Supports	10	30OCT06	10NOV06							Develop Final Design - Diagnostics Supports
LN05080142	Component Fab & Assembly - Beam Loss Monitors	60	31OCT06	09FEB07							Component Fab & Assembly - Beam Loss Monitors
LN05080216	Make Simplified Models	2	02NOV06	03NOV06							Make Simplified Models
LN05080218	Release Final Model To Server	1	06NOV06	06NOV06							Release Final Model To Server

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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish							
					2004	2005	2006	2007	2008	2009	
LN05080220	Update Component Data Base	2	07NOV06	08NOV06				Update Component Data Base			
LN05080222	Write Component Traveler	2	09NOV06	10NOV06				Write Component Traveler			
LN05080168	Conduct Final Design Review (FDR)	1	13NOV06	13NOV06				Conduct Final Design Review (FDR)			
LN05080170	COMP: Beam Loss Monitor Supports Design	0		13NOV06				COMP: Beam Loss Monitor Supports Design			
LN05080224	Prepare for PDR - Beam Loss Monitors	1	13NOV06	13NOV06				Prepare for PDR - Beam Loss Monitors			
LN05080172	Prep Bid Pak - Diagnostics Supports	1	14NOV06	14NOV06				Prep Bid Pak - Diagnostics Supports			
LN05080174	RELEASE: RFP - Diagnostics Supports	0		14NOV06				RELEASE: RFP - Diagnostics Supports			
LN05080226	Conduct Beam Loss Monitors PDR	1	14NOV06	14NOV06				Conduct Beam Loss Monitors PDR			
LN05080188	Procure Misc Materials - Diagnostics Supports	15	14NOV06	06DEC06				Procure Misc Materials - Diagnostics Supports			
LN05080228	Generate Detailed Procurement Plan	1	15NOV06	15NOV06				Generate Detailed Procurement Plan			
LN05080176	Vendors Prep Proposals - Supports	15	15NOV06	07DEC06				Vendors Prep Proposals - Supports			
LN05080230	Establish Subordinate Work Orders	1	16NOV06	16NOV06				Establish Subordinate Work Orders			
LN05080232	Prepare for FDR - Beam Loss Monitors	1	17NOV06	17NOV06				Prepare for FDR - Beam Loss Monitors			
LN05080234	Conduct Beam Loss Monitors FDR	1	20NOV06	20NOV06				Conduct Beam Loss Monitors FDR			
LN05080236	COMP: Beam Loss Monitor (PLIC) Design	0		20NOV06				COMP: Beam Loss Monitor (PLIC) Design			
LN05080256	Define Diagnostics Support Requirements	4	21NOV06	28NOV06				Define Diagnostics Support Requirements			
LN05080240	Procure Component Material - Beam Loss Monitors	20	21NOV06	04JAN07	Procure Component Material - Beam Loss Monitors						
LN05080258	Create ICD & Update LCLS Database	4	29NOV06	04DEC06				Create ICD & Update LCLS Database			
LN05080260	Develop Preliminary Design - Diagnostic Supports	4	05DEC06	08DEC06				Develop Preliminary Design - Diagnostic Supports			
LN05080190	Fabricate Diagnostics Supports (as required)	0	07DEC06	06DEC06				Fabricate Diagnostics Supports (as required)			
LN05080192	Prep for, Clean & Plate Supports	0	07DEC06	06DEC06				Prep for, Clean & Plate Supports			
LN05080194	Prep for and Paint Diag Supports (as required)	0	07DEC06	06DEC06				Prep for and Paint Diag Supports (as required)			
LN05080178	RCV: Proposals from Vendors - Supports	0		07DEC06				RCV: Proposals from Vendors - Supports			
LN05080196	Perform QC & Inspection - Diagnostic Supports	2	07DEC06	08DEC06				Perform QC & Inspection - Diagnostic Supports			
LN05080180	Evaluate Vendor Proposals - Supports	2	08DEC06	11DEC06				Evaluate Vendor Proposals - Supports			
LN05080262	Conduct Preliminary Design Review (PDR)	1	11DEC06	11DEC06				Conduct Preliminary Design Review (PDR)			
LN05080264	Develop Final Design - Diagnostics Supports	3	12DEC06	14DEC06				Develop Final Design - Diagnostics Supports			
LN05080184	Vendor Fab 1st Lot - Supports	20	13DEC06	25JAN07				Vendor Fab 1st Lot - Supports			
LN05080266	Conduct Final Design Review (FDR)	1	15DEC06	15DEC06				Conduct Final Design Review (FDR)			
LN05080268	COMP: Support Design - Beam Loss Monitor	0		15DEC06				COMP: Support Design - Beam Loss Monitor			
LN05080270	Prep Bid Pak - Diagnostics Supports	1	02JAN07	02JAN07				Prep Bid Pak - Diagnostics Supports			
LN05080272	RELEASE: RFP - Diagnostics Supports	0		02JAN07				RELEASE: RFP - Diagnostics Supports			
LN05080286	Procure Misc Materials - Diagnostics Supports	20	02JAN07	30JAN07				Procure Misc Materials - Diagnostics Supports			
LN05080274	Vendors Prep Proposals - Supports	20	03JAN07	31JAN07				Vendors Prep Proposals - Supports			
LN05080242	Component Fab & Assembly - Beam Loss Monitors	40	05JAN07	05MAR07	Component Fab & Assembly - Beam Loss Monitors						
LN05080186	RCV: 1st Lot Diagnostics Supports from Vendor	0		25JAN07				RCV: 1st Lot Diagnostics Supports from Vendor			
LN05080197	Assemble Supports	10	26JAN07	08FEB07				Assemble Supports			

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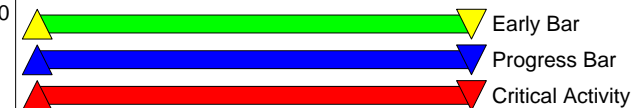


Start Date 01JUN01
 Finish Date 31MAR09
 Data Date 01OCT04
 Run Date 29APR05 13:41

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
LN05080288	Fabricate Diagnostics Supports (as required)	0	31JAN07	30JAN07				⚠ Fabricate Diagnostics Supports (as required)		
LN05080290	Prep for, Clean & Plate Supports	0	31JAN07	30JAN07				⚠ Prep for, Clean & Plate Supports		
LN05080276	RCV: Proposals from Vendors - Supports	0		31JAN07				◆ RCV: Proposals from Vendors - Supports		
LN05080292	Prep for and Paint Diag Supports (as required)	0	31JAN07	01FEB07				⚠ Prep for and Paint Diag Supports (as required)		
LN05080278	Evaluate Vendor Proposals - Supports	2	01FEB07	02FEB07				⚠ Evaluate Vendor Proposals - Supports		
LN05080282	Vendor Fab 1st Lot - Supports	20	06FEB07	06MAR07				⚠ Vendor Fab 1st Lot - Supports		
LN05080198	Perform Pre-Installation Qualification - Support	2	09FEB07	12FEB07				⚠ Perform Pre-Installation Qualification - Support		
LN05080199	AVAIL: Supports Ready for L03, LTU Instl	0		12FEB07				◆ AVAIL: Supports Ready for L03, LTU Instl		
LN05080144	Perform QC / Metrology	5	12FEB07	16FEB07				⚠ Perform QC / Metrology		
LN05080146	Perform Functional Testing - Beam Loss Monito	10	20FEB07	05MAR07				⚠ Perform Functional Testing - Beam Loss Monito		
LN05080284	RCV: 1st Lot Diagnostics Supports from Vendor	0		06MAR07				◆ RCV: 1st Lot Diagnostics Supports from Vendor		
LN05080148	Collect Component Performance Data	5	06MAR07	12MAR07				⚠ Collect Component Performance Data		
LN05080150	Load Component Data Base	5	06MAR07	12MAR07				⚠ Load Component Data Base		
LN05080152	Post Process & Test	5	06MAR07	12MAR07				⚠ Post Process & Test		
LN05080244	Perform QC / Metrology	10	06MAR07	19MAR07				⚠ Perform QC / Metrology		
LN05080294	Perform QC & Inspection - Diagnostic Supports	2	07MAR07	08MAR07				⚠ Perform QC & Inspection - Diagnostic Supports		
LN05080296	Assemble Supports	10	09MAR07	22MAR07				⚠ Assemble Supports		
LN05080154	AVAIL: Bm Loss Monitor (PIC) Ready for L03 Instl	0		12MAR07				◆ AVAIL: Bm Loss Monitor (PIC) Ready for L03 Instl		
LN05080156	AVAIL: Bm Loss Monitor (PIC) Ready for LTU Instl	0		12MAR07				◆ AVAIL: Bm Loss Monitor (PIC) Ready for LTU Instl		
LN05080246	Perform Functional Testing - Beam Loss Monito	4	20MAR07	23MAR07				⚠ Perform Functional Testing - Beam Loss Monito		
LN05080298	Perform Pre-Installation Qualification - Support	4	23MAR07	28MAR07				⚠ Perform Pre-Installation Qualification - Support		
LN05080248	Collect Component Performance Data	2	26MAR07	27MAR07				⚠ Collect Component Performance Data		
LN05080299	AVAIL: Supports Ready for LTU Instl	0		28MAR07				◆ AVAIL: Supports Ready for LTU Instl		
LN05080250	Load Component Data Base	2	28MAR07	29MAR07				⚠ Load Component Data Base		
LN05080252	Post Process & Test	10	30MAR07	12APR07				⚠ Post Process & Test		
LN05080254	AVAIL: Bm Loss Monitor(PLIC) Ready for LTU Instl	0		12APR07				◆ AVAIL: Bm Loss Monitor(PLIC) Ready for LTU Instl		
1.03.05.09 Single Beam Dump (1) Summary										
LN05090000	Receive Single Beam Dump Requirements	1	03OCT06	03OCT06				⚠ Receive Single Beam Dump Requirements		
LN0509	SINGLE BEAM DUMP (1) SUMMARY	117	03OCT06	04APR07				⚠ SINGLE BEAM DUMP (1) SUMMARY		
LN05090005	Review & Accept Requirements	1	04OCT06	04OCT06				⚠ Review & Accept Requirements		
LN05090010	Write ICD - Single Beam Dump	2	05OCT06	06OCT06				⚠ Write ICD - Single Beam Dump		
LN05090015	Collect Area Specific Requirements	4	09OCT06	12OCT06				⚠ Collect Area Specific Requirements		
LN05090020	Evaluate Existing Design Documentation	3	13OCT06	17OCT06				⚠ Evaluate Existing Design Documentation		
LN05090025	Produce Common Layout	10	18OCT06	31OCT06				⚠ Produce Common Layout		
LN05090140	Define Diagnostics Support Requirements	1	01NOV06	01NOV06				⚠ Define Diagnostics Support Requirements		
LN05090030	Develop General Specifications / Analysis	10	01NOV06	14NOV06				⚠ Develop General Specifications / Analysis		
LN05090145	Create ICD & Update LCLS Database	1	02NOV06	02NOV06				⚠ Create ICD & Update LCLS Database		

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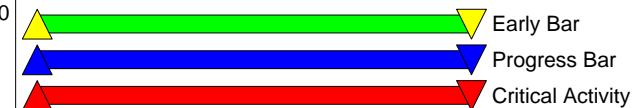


Start Date: 01JUN01
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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish							
					2004	2005	2006	2007	2008	2009	
LN05090150	Develop Preliminary Design - Diagnostic Supports	4	03NOV06	08NOV06				⚠	Develop Preliminary Design - Diagnostic Supports		
LN05090160	Conduct Preliminary Design Review (PDR)	1	09NOV06	09NOV06				⚠	Conduct Preliminary Design Review (PDR)		
LN05090170	Develop Final Design - Diagnostics Supports	5	10NOV06	16NOV06				⚠	Develop Final Design - Diagnostics Supports		
LN05090035	Create / Remodel / Revise Dsn Documentation	10	15NOV06	30NOV06				⚠	Create / Remodel / Revise Dsn Documentation		
LN05090180	Conduct Final Design Review (FDR)	1	17NOV06	17NOV06				⚠	Conduct Final Design Review (FDR)		
LN05090190	COMP: Single Beam Dump Supports Design	0		17NOV06				◆	COMP: Single Beam Dump Supports Design		
LN05090195	Prep Bid Pak - Diagnostics Supports	1	20NOV06	20NOV06				⚠	Prep Bid Pak - Diagnostics Supports		
LN05090205	RELEASE: RFP - Diagnostics Supports	0		20NOV06				◆	RELEASE: RFP - Diagnostics Supports		
LN05090250	Procure Misc Materials - Diagnostics Supports	20	20NOV06	03JAN07				⚠	Procure Misc Materials - Diagnostics Supports		
LN05090210	Vendors Prep Proposals - Supports	20	21NOV06	04JAN07				⚠	Vendors Prep Proposals - Supports		
LN05090040	Make Simplified Models	10	01DEC06	14DEC06				⚠	Make Simplified Models		
LN05090045	Release Final Model To Server	1	15DEC06	15DEC06				⚠	Release Final Model To Server		
LN05090050	Update Component Data Base	1	02JAN07	02JAN07				⚠	Update Component Data Base		
LN05090055	Write Component Traveler	2	03JAN07	04JAN07				⚠	Write Component Traveler		
LN05090255	Fabricate Diagnostics Supports (as required)	0	04JAN07	03JAN07				⚠	Fabricate Diagnostics Supports (as required)		
LN05090260	Prep for, Clean & Plate Supports	0	04JAN07	03JAN07				⚠	Prep for, Clean & Plate Supports		
LN05090265	Prep for and Paint Diag Supports (as required)	0	04JAN07	03JAN07				⚠	Prep for and Paint Diag Supports (as required)		
LN05090215	RCV: Proposals from Vendors - Supports	0		04JAN07				◆	RCV: Proposals from Vendors - Supports		
LN05090060	Prepare for PDR - Single Beam Dump	1	05JAN07	05JAN07				⚠	Prepare for PDR - Single Beam Dump		
LN05090220	Evaluate Vendor Proposals - Supports	2	05JAN07	08JAN07				⚠	Evaluate Vendor Proposals - Supports		
LN05090065	Conduct Single Beam Dump PDR	1	08JAN07	08JAN07				⚠	Conduct Single Beam Dump PDR		
LN05090070	Generate Detailed Procurement Plan	1	09JAN07	09JAN07				⚠	Generate Detailed Procurement Plan		
LN05090075	Establish Subordinate Work Orders	1	10JAN07	10JAN07				⚠	Establish Subordinate Work Orders		
LN05090080	Prepare for FDR - Single Beam Dump	1	11JAN07	11JAN07				⚠	Prepare for FDR - Single Beam Dump		
LN05090085	Conduct Single Beam Dump FDR	1	12JAN07	12JAN07				⚠	Conduct Single Beam Dump FDR		
LN05090090	COMP: Single Beam Dump Design	0		12JAN07				◆	COMP: Single Beam Dump Design		
LN05090100	Procure Component Material - Single Beam Dump	20	16JAN07	12FEB07				⚠	Procure Component Material - Single Beam Dump		
LN05090105	Component Fab & Assembly - Single Beam Dump	10	13FEB07	27FEB07				⚠	Component Fab & Assembly - Single Beam Dump		
LN05090230	Vendor Fab 1st Lot - Supports	20	13FEB07	13MAR07				⚠	Vendor Fab 1st Lot - Supports		
LN05090110	Perform QC / Metrology	2	28FEB07	01MAR07				⚠	Perform QC / Metrology		
LN05090115	Perform Functional Testing - Single Beam Dump	2	02MAR07	05MAR07				⚠	Perform Functional Testing - Single Beam Dump		
LN05090120	Collect Component Performance Data	2	06MAR07	07MAR07				⚠	Collect Component Performance Data		
LN05090125	Load Component Data Base	2	08MAR07	09MAR07				⚠	Load Component Data Base		
LN05090130	Post Process & Test	10	12MAR07	23MAR07				⚠	Post Process & Test		
LN05090235	RCV: 1st Lot Diagnostics Supports from Vendor	0		13MAR07				◆	RCV: 1st Lot Diagnostics Supports from Vendor		
LN05090270	Perform QC & Inspection - Diagnostic Supports	2	14MAR07	15MAR07				⚠	Perform QC & Inspection - Diagnostic Supports		
LN05090275	Assemble Supports	10	16MAR07	29MAR07				⚠	Assemble Supports		

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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
LN05090135	AVAIL: Single Beam Dump Ready for LTU Install	0		23MAR07	AVAIL: Single Beam Dump Ready for LTU Install					
LN05090285	Perform Pre-Installation Qualification - Support	4	30MAR07	04APR07	Perform Pre-Installation Qualification - Support					
LN05090290	AVAIL: Supports Ready for LTU Install	0		04APR07	AVAIL: Supports Ready for LTU Install					
1.03.05.10 Electron Beam Dump (1) Summary										
LN05100000	Receive Electron Beam Dump Requirements	1	03OCT06	03OCT06	Receive Electron Beam Dump Requirements					
LN0510	ELECTRON BEAM DUMP (1) SUMMARY	200	03OCT06	01AUG07	ELECTRON BEAM DUMP (1) SUMMARY					
LN05100005	Review & Accept Requirements	1	04OCT06	04OCT06	Review & Accept Requirements					
LN05100010	Write ICD - Electron Beam Dump	2	05OCT06	06OCT06	Write ICD - Electron Beam Dump					
LN05100015	Collect Area Specific Requirements	4	09OCT06	12OCT06	Collect Area Specific Requirements					
LN05100020	Evaluate Existing Design Documentation	8	13OCT06	24OCT06	Evaluate Existing Design Documentation					
LN05100025	Produce Common Layout	5	25OCT06	31OCT06	Produce Common Layout					
LN05100030	Develop General Specifications / Analysis	5	01NOV06	07NOV06	Develop General Specifications / Analysis					
LN05100035	Create / Remodel / Revise Dsn Documentation	20	08NOV06	07DEC06	Create / Remodel / Revise Dsn Documentation					
LN05100040	Make Simplified Models	1	08DEC06	08DEC06	Make Simplified Models					
LN05100045	Release Final Model To Server	1	11DEC06	11DEC06	Release Final Model To Server					
LN05100050	Update Component Data Base	2	12DEC06	13DEC06	Update Component Data Base					
LN05100055	Write Component Traveler	2	14DEC06	15DEC06	Write Component Traveler					
LN05100060	Prepare for PDR - Electron Beam Dump	1	02JAN07	02JAN07	Prepare for PDR - Electron Beam Dump					
LN05100065	Conduct Electron Beam Dump PDR	1	03JAN07	03JAN07	Conduct Electron Beam Dump PDR					
LN05100070	Generate Detailed Procurement Plan	1	04JAN07	04JAN07	Generate Detailed Procurement Plan					
LN05100075	Establish Subordinate Work Orders	1	05JAN07	05JAN07	Establish Subordinate Work Orders					
LN05100080	Prepare for FDR - Electron Beam Dump	1	08JAN07	08JAN07	Prepare for FDR - Electron Beam Dump					
LN05100085	Conduct Electron Beam Dump FDR	1	09JAN07	09JAN07	Conduct Electron Beam Dump FDR					
LN05100090	COMP: Electron Beam Dump Design	0		09JAN07	COMP: Electron Beam Dump Design					
LN05100140	Define Diagnostics Support Requirements	1	10JAN07	10JAN07	Define Diagnostics Support Requirements					
LN05100100	Procure Component Material - Electron Beam Dump	60	10JAN07	05APR07	Procure Component Material - Electron Beam Dump					
LN05100145	Create ICD & Update LCLS Database	1	11JAN07	11JAN07	Create ICD & Update LCLS Database					
LN05100150	Develop Preliminary Design - Diagnostic Supports	4	12JAN07	18JAN07	Develop Preliminary Design - Diagnostic Supports					
LN05100160	Conduct Preliminary Design Review (PDR)	1	19JAN07	19JAN07	Conduct Preliminary Design Review (PDR)					
LN05100170	Develop Final Design - Diagnostics Supports	5	22JAN07	26JAN07	Develop Final Design - Diagnostics Supports					
LN05100180	Conduct Final Design Review (FDR)	1	29JAN07	29JAN07	Conduct Final Design Review (FDR)					
LN05100190	COMP: Electron Beam Dump Supports Design	0		29JAN07	COMP: Electron Beam Dump Supports Design					
LN05100195	Prep Bid Pak - Diagnostics Supports	1	30JAN07	30JAN07	Prep Bid Pak - Diagnostics Supports					
LN05100205	RELEASE: RFP - Diagnostics Supports	0		30JAN07	RELEASE: RFP - Diagnostics Supports					
LN05100250	Procure Misc Materials - Diagnostics Supports	20	30JAN07	27FEB07	Procure Misc Materials - Diagnostics Supports					
LN05100210	Vendors Prep Proposals - Supports	20	31JAN07	28FEB07	Vendors Prep Proposals - Supports					
LN05100255	Fabricate Diagnostics Supports (as required)	0	28FEB07	27FEB07	Fabricate Diagnostics Supports (as required)					

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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
LN05100260	Prep for, Clean & Plate Supports	0	28FEB07	27FEB07				⚠️ Prep for, Clean & Plate Supports		
LN05100265	Prep for and Paint Diag Supports (as required)	0	28FEB07	27FEB07				⚠️ Prep for and Paint Diag Supports (as required)		
LN05100215	RCV: Proposals from Vendors - Supports	0		28FEB07				💠 RCV: Proposals from Vendors - Supports		
LN05100220	Evaluate Vendor Proposals - Supports	2	01MAR07	02MAR07				⚠️ Evaluate Vendor Proposals - Supports		
LN05100230	Vendor Fab 1st Lot - Supports	20	06MAR07	02APR07				⚠️ Vendor Fab 1st Lot - Supports		
LN05100235	RCV: 1st Lot Diagnostics Supports from Vendor	0		02APR07				💠 RCV: 1st Lot Diagnostics Supports from Vendor		
LN05100270	Perform QC & Inspection - Diagnostic Supports	2	03APR07	04APR07				⚠️ Perform QC & Inspection - Diagnostic Support		
LN05100275	Assemble Supports	10	05APR07	18APR07				⚠️ Assemble Supports		
LN05100105	Component Fab & Assembly - Electron Beam Dump	60	06APR07	29JUN07				⚠️ Component Fab & Assembly - Electron Beam Dump		
LN05100285	Perform Pre-Installation Qualification - Support	4	19APR07	24APR07				⚠️ Perform Pre-Installation Qualification - Support		
LN05100290	AVAIL: Supports Ready for Installation	0		24APR07				💠 AVAIL: Supports Ready for Installation		
LN05100110	Perform QC / Metrology	4	02JUL07	06JUL07				⚠️ Perform QC / Metrology		
LN05100115	Perform Functional Testing - Electron Beam Du	4	09JUL07	12JUL07				⚠️ Perform Functional Testing - Electron Beam Du		
LN05100120	Collect Component Performance Data	2	13JUL07	16JUL07				⚠️ Collect Component Performance Data		
LN05100125	Load Component Data Base	2	17JUL07	18JUL07				⚠️ Load Component Data Base		
LN05100130	Post Process & Test	10	19JUL07	01AUG07				⚠️ Post Process & Test		
LN05100135	AVAIL: Electron Beam Dump Ready for LTU Instl	0		01AUG07				💠 AVAIL: Electron Beam Dump Ready for LTU Ins		
1.03.05.11 Protection Collimators (5) Summary										
LN05110000	Receive Protection Collimator Requirements	1	03OCT05	03OCT05				⚠️ Receive Protection Collimator Requirements		
LN0511	PROTECTION COLLIMATORS (5) SUMMARY	142	03OCT05	09MAY06				⚠️ PROTECTION COLLIMATORS (5) SUMMARY		
LN05110005	Review & Accept Requirements	1	04OCT05	04OCT05				⚠️ Review & Accept Requirements		
LN05110010	Write ICD - Protection Collimator	2	05OCT05	06OCT05				⚠️ Write ICD - Protection Collimator		
LN05110015	Collect Area Specific Requirements	2	07OCT05	10OCT05				⚠️ Collect Area Specific Requirements		
LN05110020	Evaluate Existing Design Documentation	4	11OCT05	14OCT05				⚠️ Evaluate Existing Design Documentation		
LN05110025	Produce Common Layout	5	17OCT05	21OCT05				⚠️ Produce Common Layout		
LN05110030	Develop General Specifications / Analysis	2	24OCT05	25OCT05				⚠️ Develop General Specifications / Analysis		
LN05110035	Create / Remodel / Revise Dsn Documentation	20	26OCT05	22NOV05				⚠️ Create / Remodel / Revise Dsn Documentation		
LN05110040	Make Simplified Models	4	23NOV05	30NOV05				⚠️ Make Simplified Models		
LN05110045	Release Final Model To Server	4	01DEC05	06DEC05				⚠️ Release Final Model To Server		
LN05110050	Update Component Data Base	1	07DEC05	07DEC05				⚠️ Update Component Data Base		
LN05110055	Write Component Traveler	4	08DEC05	13DEC05				⚠️ Write Component Traveler		
LN05110060	Prepare for PDR - Protection Collimators	1	14DEC05	14DEC05				⚠️ Prepare for PDR - Protection Collimators		
LN05110065	Conduct Protection Collimator PDR	1	15DEC05	15DEC05				⚠️ Conduct Protection Collimator PDR		
LN05110070	Generate Detailed Procurement Plan	1	16DEC05	16DEC05				⚠️ Generate Detailed Procurement Plan		
LN05110075	Establish Subordinate Work Orders	1	03JAN06	03JAN06				⚠️ Establish Subordinate Work Orders		
LN05110080	Prepare for FDR - Protection Collimators	3	04JAN06	06JAN06				⚠️ Prepare for FDR - Protection Collimators		
LN05110085	Conduct Protection Collimator FDR	1	09JAN06	09JAN06				⚠️ Conduct Protection Collimator FDR		

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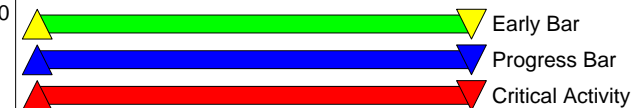
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▶ Progress Bar
▶ Critical Activity

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish							
					2004	2005	2006	2007	2008	2009	
LN05110095	COMP: Protection Collimator Design	0		09JAN06			◆COMP: Protection Collimator Design				
LN05110100	Prep Bid Pak - Protection Collimator	2	10JAN06	11JAN06			⚠Prep Bid Pak - Protection Collimator				
LN05110235	Define Diagnostics Support Requirements	2	10JAN06	11JAN06			⚠Define Diagnostics Support Requirements				
LN05110160	Procure Component Material - Protection Collimat	20	10JAN06	07FEB06			⚠Procure Component Material - Protection Collimat				
LN05110110	RELEASE: RFP - Protection Collimators	0		11JAN06			◆RELEASE: RFP - Protection Collimators				
LN05110240	Create ICD & Update LCLS Database	2	12JAN06	13JAN06			⚠Create ICD & Update LCLS Database				
LN05110115	Vendors Prep Proposals - Protection Collimator	20	12JAN06	09FEB06			⚠Vendors Prep Proposals - Protection Collimator				
LN05110245	Develop Preliminary Design - Diagnostic Supports	10	17JAN06	30JAN06			⚠Develop Preliminary Design - Diagnostic Supports				
LN05110255	Conduct Preliminary Design Review (PDR)	1	31JAN06	31JAN06			⚠Conduct Preliminary Design Review (PDR)				
LN05110265	Develop Final Design - Diagnostics Supports	10	01FEB06	14FEB06			⚠Develop Final Design - Diagnostics Supports				
LN05110120	RCV: Proposals from Vendors	0		09FEB06			◆RCV: Proposals from Vendors				
LN05110125	Evaluate Vendor Proposals	4	10FEB06	15FEB06			⚠Evaluate Vendor Proposals				
LN05110275	Conduct Final Design Review (FDR)	1	15FEB06	15FEB06			⚠Conduct Final Design Review (FDR)				
LN05110285	COMP: Protection Collimator Supports Design	0		15FEB06			◆COMP: Protection Collimator Supports Design				
LN05110290	Prep Bid Pak - Diagnostics Supports	1	16FEB06	16FEB06			⚠Prep Bid Pak - Diagnostics Supports				
LN05110300	RELEASE: RFP - Diagnostics Supports	0		16FEB06			◆RELEASE: RFP - Diagnostics Supports				
LN05110345	Procure Misc Materials - Diagnostics Supports	20	16FEB06	16MAR06			⚠Procure Misc Materials - Diagnostics Supports				
LN05110135	Vendor Fab 1st Lot	20	17FEB06	17MAR06			⚠Vendor Fab 1st Lot				
LN05110305	Vendors Prep Proposals - Supports	20	17FEB06	17MAR06			⚠Vendors Prep Proposals - Supports				
LN05110350	Fabricate Diagnostics Supports (as required)	0	17MAR06	16MAR06			⚠Fabricate Diagnostics Supports (as required)				
LN05110355	Prep for, Clean & Plate Supports	0	17MAR06	16MAR06			⚠Prep for, Clean & Plate Supports				
LN05110360	Prep for and Paint Diag Supports (as required)	0	17MAR06	16MAR06			⚠Prep for and Paint Diag Supports (as required)				
LN05110140	RCV: 1st Lot Diagnostics Equip from Vendor	0		17MAR06			◆RCV: 1st Lot Diagnostics Equip from Vendor				
LN05110310	RCV: Proposals from Vendors - Supports	0		17MAR06			◆RCV: Proposals from Vendors - Supports				
LN05110315	Evaluate Vendor Proposals - Supports	4	20MAR06	23MAR06			⚠Evaluate Vendor Proposals - Supports				
LN05110165	Component Fab & Assembly - Protection Collimat	20	20MAR06	14APR06			⚠Component Fab & Assembly - Protection Collimat				
LN05110325	Vendor Fab 1st Lot - Supports	20	27MAR06	21APR06			⚠Vendor Fab 1st Lot - Supports				
LN05110185	Perform QC / Metrology	5	17APR06	21APR06			⚠Perform QC / Metrology				
LN05110330	RCV: 1st Lot Diagnostics Supports from Vendor	0		21APR06			◆RCV: 1st Lot Diagnostics Supports from Vendor				
LN05110190	Perform Functional Testing - Protection Colli	2	24APR06	25APR06			⚠Perform Functional Testing - Protection Colli				
LN05110365	Perform QC & Inspection - Diagnostic Supports	2	24APR06	25APR06			⚠Perform QC & Inspection - Diagnostic Supports				
LN05110195	Collect Component Performance Data	2	26APR06	27APR06			⚠Collect Component Performance Data				
LN05110200	Load Component Data Base	2	26APR06	27APR06			⚠Load Component Data Base				
LN05110370	Assemble Supports	6	26APR06	03MAY06			⚠Assemble Supports				
LN05110205	Post Process & Test	10	26APR06	09MAY06			⚠Post Process & Test				
LN05110380	Perform Pre-Installation Qualification - Support	1	04MAY06	04MAY06			⚠Perform Pre-Installation Qualification - Support				
LN05110385	AVAIL: Supports Ready for BC1, BC2, LTU Instl	0		04MAY06			◆AVAIL: Supports Ready for BC1, BC2, LTU Instl				

**LCLS
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Start Date 01JUN01
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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish											
					2004	2005	2006	2007	2008	2009					
LN05110215	AVAIL: Protection Collimator Ready for BC1 Instl	0		09MAY06						◆AVAIL: Protection Collimator Ready for BC1 Instl					
LN05110220	AVAIL: Protection Collimator Ready for BC2 Instl	0		09MAY06						◆AVAIL: Protection Collimator Ready for BC2 Instl					
LN05110230	AVAIL: Protection Collimator Ready for LTU Instl	0		09MAY06						◆AVAIL: Protection Collimator Ready for LTU Instl					
1.03.05.12 Movable Collimators (7x,3y) Summary															
LN05120025	Produce Common Layout	7	01OCT04	11OCT04											
LN05120010	Write ICD - Movable Collimator	20	01OCT04	28OCT04											
LN05120035	Create / Remodel / Revise Dsn Documentation	120	01OCT04	06APR05											
LN0512	MOVABLE COLLIMATORS (7x, 3y) SUMMARY	602	01OCT04	02APR07											
LN05120030	Develop General Specifications / Analysis	12	12OCT04	27OCT04											
LN05120040	Make Simplified Models	4	07APR05	12APR05											
LN05120045	Release Final Model To Server	2	13APR05	14APR05											
LN05120050	Update Component Data Base	2	15APR05	18APR05											
LN05120055	Write Component Traveler	6	19APR05	26APR05											
LN05120060	Prepare for PDR - Movable Collimators	1	27APR05	27APR05											
LN05120065	Conduct Prelim Dsn Review - Movable Collimator	1	28APR05	28APR05											
LN05120070	Generate Detailed Procurement Plan	1	29APR05	29APR05											
LN05120075	Establish Subordinate Work Orders	1	02MAY05	02MAY05											
LN05120080	Prepare for FDR - Movable Collimators	1	03MAY05	03MAY05											
LN05120085	Conduct Final Dsn Review - Movable Collimator	1	04MAY05	04MAY05											
LN05120090	COMP: Movable Collimator Design	0		04MAY05											
LN05120095	Prep Bid Pak - Movable Collimator	2	05MAY05	06MAY05											
LN05120210	Define Diagnostics Support Requirements	2	05MAY05	06MAY05											
LN05120105	RELEASE: RFP - Movable Collimators	0		06MAY05											
LN05120215	Create ICD & Update LCLS Database	2	09MAY05	10MAY05											
LN05120110	Vendors Prep Proposals - Movable Collimator	20	09MAY05	06JUN05											
LN05120220	Develop Preliminary Design - Diagnostic Supports	5	11MAY05	17MAY05											
LN05120230	Conduct Preliminary Design Review (PDR)	1	18MAY05	18MAY05											
LN05120240	Develop Final Design - Diagnostics Supports	10	19MAY05	02JUN05											
LN05120250	Conduct Final Design Review (FDR)	1	03JUN05	03JUN05											
LN05120260	COMP: Movable Collimator Supports Design	0		03JUN05											
LN05120115	RCV: Proposals from Vendors	0		06JUN05											
LN05120265	Prep Bid Pak - Diagnostics Supports	2	06JUN05	07JUN05											
LN05120275	RELEASE: RFP - Diagnostics Supports	0		07JUN05											
LN05120120	Evaluate Vendor Proposals	4	07JUN05	10JUN05											
LN05120280	Vendors Prep Proposals - Supports	20	08JUN05	06JUL05											
LN05120285	RCV: Proposals from Vendors - Supports	0		06JUL05											
LN05120290	Evaluate Vendor Proposals - Supports	4	07JUL05	12JUL05											

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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish							
					2004	2005	2006	2007	2008	2009	
LN05120320	Procure Misc Materials - Diagnostics Supports	20	10APR06	05MAY06				▲ Procure Misc Materials - Diagnostics Supports			
LN05120155	Procure Component Material - Movable Collimator	60	10APR06	03JUL06				▲▲ Procure Component Material - Movable Collimator			
LN05120325	Fabricate Diagnostics Supports (as required)	0	08MAY06	05MAY06				▲ Fabricate Diagnostics Supports (as required)			
LN05120330	Prep for, Clean & Plate Supports	0	08MAY06	05MAY06				▲ Prep for, Clean & Plate Supports			
LN05120335	Prep for and Paint Diag Supports (as required)	0	08MAY06	05MAY06				▲ Prep for and Paint Diag Supports (as required)			
LN05120130	Vendor Fab 1st Lot	20	04OCT06	31OCT06				▲ Vendor Fab 1st Lot			
LN05120300	Vendor Fab 1st Lot - Supports	20	04OCT06	31OCT06				▲ Vendor Fab 1st Lot - Supports			
LN05120135	RCV: 1st Lot Diagnostics Equip from Vendor	0		31OCT06				◆ RCV: 1st Lot Diagnostics Equip from Vendor			
LN05120305	RCV: 1st Lot Diagnostics Supports from Vendor	0		31OCT06				◆ RCV: 1st Lot Diagnostics Supports from Vendor			
LN05120340	Perform QC & Inspection - Diagnostic Supports	2	01NOV06	02NOV06				▲ Perform QC & Inspection - Diagnostic Supports			
LN05120160	Component Fab & Assembly - Movable Collimator	60	01NOV06	12FEB07	Component Fab & Assembly - Movable Collimator						
LN05120345	Assemble Supports	10	03NOV06	16NOV06				▲ Assemble Supports			
LN05120355	Perform Pre-Installation Qualification - Support	4	17NOV06	22NOV06				▲ Perform Pre-Installation Qualification - Support			
LN05120360	AVAIL: Supports Ready for LTU Instl	0		22NOV06				◆ AVAIL: Supports Ready for LTU Instl			
LN05120180	Perform QC / Metrology	10	13FEB07	27FEB07				▲ Perform QC / Metrology			
LN05120185	Perform Functional Testing - Movable Collimat	10	28FEB07	13MAR07				▲ Perform Functional Testing - Movable Collimat			
LN05120190	Collect Component Performance Data	2	14MAR07	15MAR07				▲ Collect Component Performance Data			
LN05120193	Load Component Data Base	2	16MAR07	19MAR07				▲ Load Component Data Base			
LN05120196	Post Process & Test	10	20MAR07	02APR07				▲ Post Process & Test			
LN05120200	AVAIL: Movable Collimators Ready for LTU Instl	0		02APR07	AVAIL: Movable Collimators Ready for LTU Instl						
1.03.05.13 Safety Electron Dump (1) Summary											
LN05130000	Receive Single Beam Dump Requirements	1	10JAN07	10JAN07				▲ Receive Single Beam Dump Requirements			
LN0513	SAFETY ELECTRON DUMP (1) SUMMARY	149	10JAN07	10AUG07	SAFETY ELECTRON DUMP (1) SUMMARY						
LN05130005	Review & Accept Requirements	2	11JAN07	12JAN07				▲ Review & Accept Requirements			
LN05130010	Write ICD - Single Beam Dump	2	16JAN07	17JAN07				▲ Write ICD - Single Beam Dump			
LN05130015	Collect Area Specific Requirements	4	18JAN07	23JAN07				▲ Collect Area Specific Requirements			
LN05130025	Evaluate Existing Design Documentation	4	24JAN07	29JAN07				▲ Evaluate Existing Design Documentation			
LN05130035	Produce Common Layout	4	30JAN07	02FEB07				▲ Produce Common Layout			
LN05130040	Develop General Specifications / Analysis	4	05FEB07	08FEB07				▲ Develop General Specifications / Analysis			
LN05130045	Create / Remodel / Revise Dsn Documentation	10	09FEB07	23FEB07				▲ Create / Remodel / Revise Dsn Documentation			
LN05130050	Make Simplified Models	2	26FEB07	27FEB07				▲ Make Simplified Models			
LN05130055	Release Final Model To Server	2	28FEB07	01MAR07				▲ Release Final Model To Server			
LN05130060	Update Component Data Base	2	02MAR07	05MAR07				▲ Update Component Data Base			
LN05130065	Write Component Traveler	2	06MAR07	07MAR07				▲ Write Component Traveler			
LN05130070	Prepare for PDR - Single Beam Dump	1	08MAR07	08MAR07				▲ Prepare for PDR - Single Beam Dump			
LN05130080	Conduct Single Beam Dump PDR	1	09MAR07	09MAR07				▲ Conduct Single Beam Dump PDR			
LN05130090	Generate Detailed Procurement Plan	1	12MAR07	12MAR07				▲ Generate Detailed Procurement Plan			

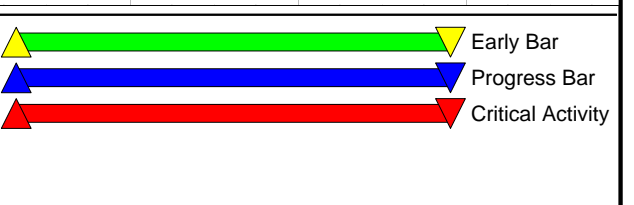
Start Date 01JUN01
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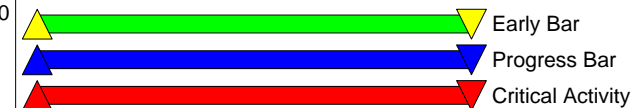
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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
LN05130095	Establish Subordinate Work Orders	1	13MAR07	13MAR07				⚠ Establish Subordinate Work Orders		
LN05130100	Prepare for FDR - Single Beam Dump	1	14MAR07	14MAR07				⚠ Prepare for FDR - Single Beam Dump		
LN05130110	Conduct Single Beam Dump FDR	1	15MAR07	15MAR07				⚠ Conduct Single Beam Dump FDR		
LN05130120	COMP: Single Beam Dump Design	0		15MAR07				◆ COMP: Single Beam Dump Design		
LN05130125	RCV: Component Fabrication Approval	0		15MAR07				◆ RCV: Component Fabrication Approval		
LN05130130	Prep Bid Pak - Safety Dump	1	16MAR07	16MAR07				⚠ Prep Bid Pak - Safety Dump		
LN05130140	RELEASE: RFP - Safety Dump	0		16MAR07				◆ RELEASE: RFP - Safety Dump		
LN05130240	Define Diagnostics Support Requirements	2	16MAR07	19MAR07				⚠ Define Diagnostics Support Requirements		
LN05130185	Procure Component Material - Single Beam Dump	40	16MAR07	10MAY07	Procure Component Material - Single Beam Dump					
LN05130145	Vendors Prep Proposals - Safety Dump	20	19MAR07	13APR07				⚠ Vendors Prep Proposals - Safety Dump		
LN05130245	Create ICD & Update LCLS Database	2	20MAR07	21MAR07				⚠ Create ICD & Update LCLS Database		
LN05130250	Develop Preliminary Design - Diagnostic Supports	5	22MAR07	28MAR07	Develop Preliminary Design - Diagnostic Supports					
LN05130260	Conduct Preliminary Design Review (PDR)	1	29MAR07	29MAR07				⚠ Conduct Preliminary Design Review (PDR)		
LN05130270	Develop Final Design - Diagnostics Supports	10	30MAR07	12APR07				⚠ Develop Final Design - Diagnostics Supports		
LN05130150	RCV: Proposals from Vendors	0		13APR07				◆ RCV: Proposals from Vendors		
LN05130280	Conduct Final Design Review (FDR)	1	13APR07	13APR07				⚠ Conduct Final Design Review (FDR)		
LN05130290	COMP: Single Beam Dump Supports Design	0		13APR07				◆ COMP: Single Beam Dump Supports Design		
LN05130295	Prep Bid Pak - Diagnostics Supports	2	16APR07	17APR07				⚠ Prep Bid Pak - Diagnostics Supports		
LN05130155	Evaluate Vendor Proposals	4	16APR07	19APR07				⚠ Evaluate Vendor Proposals		
LN05130350	Procure Misc Materials - Diagnostics Supports	20	16APR07	11MAY07	Procure Misc Materials - Diagnostics Supports					
LN05130305	RELEASE: RFP - Diagnostics Supports	0		17APR07				◆ RELEASE: RFP - Diagnostics Supports		
LN05130310	Vendors Prep Proposals - Supports	20	18APR07	15MAY07				⚠ Vendors Prep Proposals - Supports		
LN05130165	Vendor Fab 1st Lot	20	23APR07	18MAY07				⚠ Vendor Fab 1st Lot		
LN05130355	Fabricate Diagnostics Supports (as required)	0	14MAY07	11MAY07	Fabricate Diagnostics Supports (as required)					
LN05130360	Prep for, Clean & Plate Supports	0	14MAY07	11MAY07				⚠ Prep for, Clean & Plate Supports		
LN05130365	Prep for and Paint Diag Supports (as required)	0	14MAY07	11MAY07	Prep for and Paint Diag Supports (as required)					
LN05130315	RCV: Proposals from Vendors - Supports	0		15MAY07				◆ RCV: Proposals from Vendors - Supports		
LN05130320	Evaluate Vendor Proposals - Supports	4	16MAY07	21MAY07				⚠ Evaluate Vendor Proposals - Supports		
LN05130170	RCV: 1st Lot Diagnostics Equip from Vendor	0		18MAY07	RCV: 1st Lot Diagnostics Equip from Vendor					
LN05130190	Component Fab & Assembly - Single Beam Dump	40	21MAY07	17JUL07	Component Fab & Assembly - Single Beam Dump					
LN05130330	Vendor Fab 1st Lot - Supports	20	23MAY07	20JUN07				⚠ Vendor Fab 1st Lot - Supports		
LN05130335	RCV: 1st Lot Diagnostics Supports from Vendor	0		20JUN07	RCV: 1st Lot Diagnostics Supports from Vendor					
LN05130370	Perform QC & Inspection - Diagnostic Supports	2	21JUN07	22JUN07	Perform QC & Inspection - Diagnostic Supports					
LN05130375	Assemble Supports	10	25JUN07	09JUL07				⚠ Assemble Supports		
LN05130385	Perform Pre-Installation Qualification - Support	4	10JUL07	13JUL07	Perform Pre-Installation Qualification - Support					
LN05130390	AVAIL: Supports Ready for LTU Instl	0		13JUL07				◆ AVAIL: Supports Ready for LTU Instl		
LN05130210	Perform QC / Metrology	4	18JUL07	23JUL07				⚠ Perform QC / Metrology		

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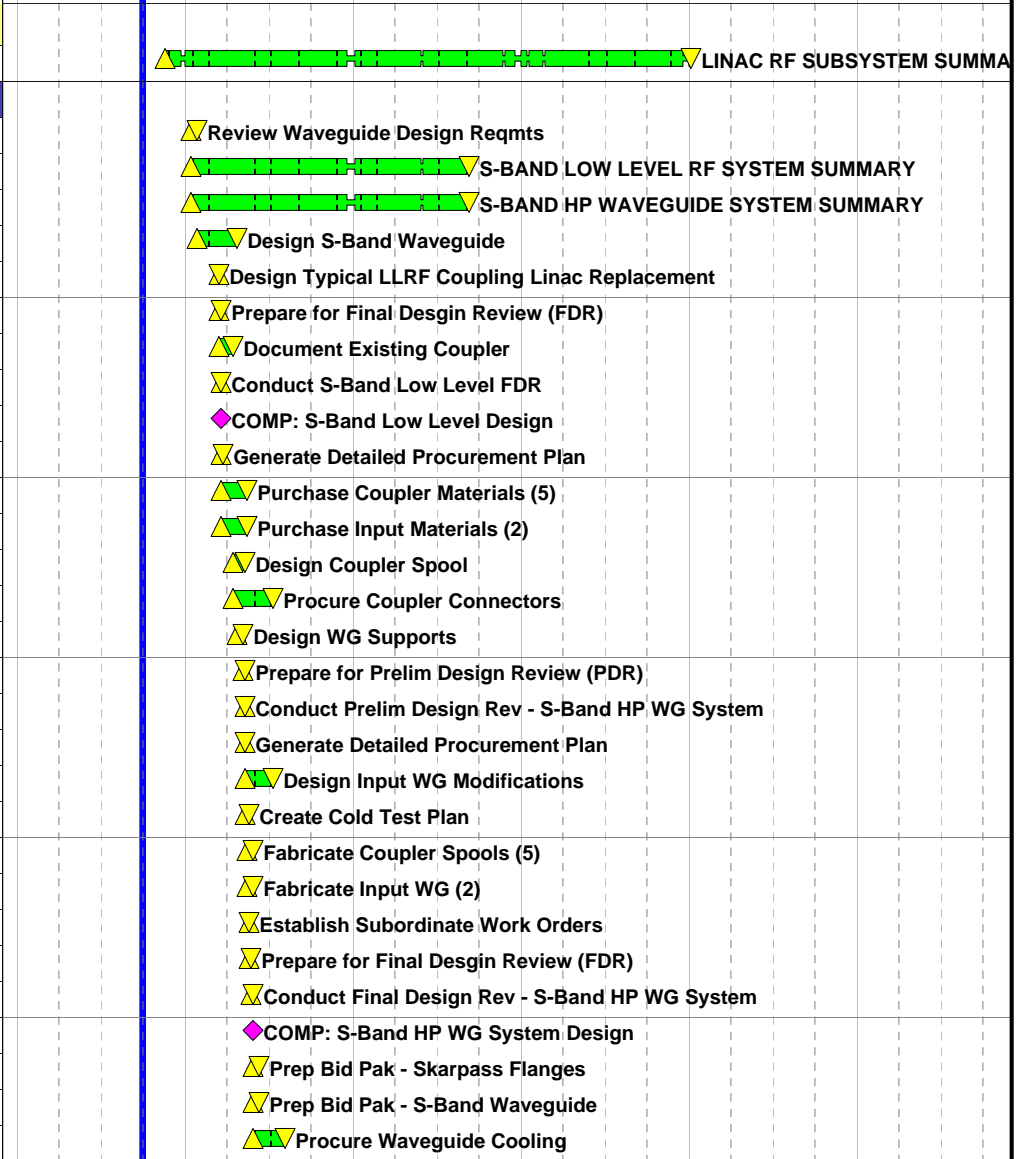
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
LN05130215	Perform Functional Testing - Single Beam Dump	0	24JUL07	23JUL07		Perform Functional Testing - Single Beam Dump				
LN05130220	Collect Component Performance Data	2	24JUL07	25JUL07		Collect Component Performance Data				
LN05130225	Load Component Data Base	2	26JUL07	27JUL07		Load Component Data Base				
LN05130230	Post Process & Test	10	30JUL07	10AUG07		Post Process & Test				
LN05130235	AVAIL: Single Beam Dump Ready for LTU Install	0		10AUG07		AVAIL: Single Beam Dump Ready for LTU Install				

1.03.06 Linac RF Subsystem

LN06	LINAC RF SUBSYSTEM SUMMARY	750	16NOV04	02JAN08		LINAC RF SUBSYSTEM SUMMARY					
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1.03.06.02 S-Band High Power System

LN06020000	Review Waveguide Design Reqmts	10	11JAN05	25JAN05		Review Waveguide Design Reqmts					
LN0601	S-BAND LOW LEVEL RF SYSTEM SUMMARY	411	11JAN05	08SEP06		S-BAND LOW LEVEL RF SYSTEM SUMMARY					
LN0602	S-BAND HP WAVEGUIDE SYSTEM SUMMARY	411	11JAN05	08SEP06		S-BAND HP WAVEGUIDE SYSTEM SUMMARY					
LN06020005	Design S-Band Waveguide	60	26JAN05	20APR05		Design S-Band Waveguide					
LN06010000	Design Typical LLRF Coupling Linac Replacement	1	15MAR05*	15MAR05		Design Typical LLRF Coupling Linac Replacement					
LN06010005	Prepare for Final Design Review (FDR)	1	16MAR05	16MAR05		Prepare for Final Design Review (FDR)					
LN06010040	Document Existing Coupler	20	16MAR05	12APR05		Document Existing Coupler					
LN06010010	Conduct S-Band Low Level FDR	1	17MAR05	17MAR05		Conduct S-Band Low Level FDR					
LN06010015	COMP: S-Band Low Level Design	0		17MAR05		COMP: S-Band Low Level Design					
LN06010020	Generate Detailed Procurement Plan	3	18MAR05	22MAR05		Generate Detailed Procurement Plan					
LN06010045	Purchase Coupler Materials (5)	40	18MAR05	12MAY05		Purchase Coupler Materials (5)					
LN06010075	Purchase Input Materials (2)	40	18MAR05	12MAY05		Purchase Input Materials (2)					
LN06010050	Design Coupler Spool	20	13APR05	10MAY05		Design Coupler Spool					
LN06010025	Procure Coupler Connectors	60	13APR05	07JUL05		Procure Coupler Connectors					
LN06020010	Design WG Supports	10	21APR05	04MAY05		Design WG Supports					
LN06020025	Prepare for Prelim Design Review (PDR)	3	05MAY05	09MAY05		Prepare for Prelim Design Review (PDR)					
LN06020030	Conduct Prelim Design Rev - S-Band HP WG System	1	10MAY05	10MAY05		Conduct Prelim Design Rev - S-Band HP WG System					
LN06020035	Generate Detailed Procurement Plan	1	11MAY05	11MAY05		Generate Detailed Procurement Plan					
LN06010060	Design Input WG Modifications	40	11MAY05	07JUL05		Design Input WG Modifications					
LN06020040	Create Cold Test Plan	5	12MAY05	18MAY05		Create Cold Test Plan					
LN06010055	Fabricate Coupler Spools (5)	10	13MAY05	26MAY05		Fabricate Coupler Spools (5)					
LN06010085	Fabricate Input WG (2)	10	13MAY05	26MAY05		Fabricate Input WG (2)					
LN06020045	Establish Subordinate Work Orders	1	19MAY05	19MAY05		Establish Subordinate Work Orders					
LN06020050	Prepare for Final Design Review (FDR)	3	20MAY05	24MAY05		Prepare for Final Design Review (FDR)					
LN06020055	Conduct Final Design Rev - S-Band HP WG System	1	25MAY05	25MAY05		Conduct Final Design Rev - S-Band HP WG System					
LN06020060	COMP: S-Band HP WG System Design	0		25MAY05		COMP: S-Band HP WG System Design					
LN06020065	Prep Bid Pak - Skarpass Flanges	10	26MAY05	09JUN05		Prep Bid Pak - Skarpass Flanges					
LN06020188	Prep Bid Pak - S-Band Waveguide	10	26MAY05	09JUN05		Prep Bid Pak - S-Band Waveguide					
LN06020115	Procure Waveguide Cooling	50	26MAY05	05AUG05		Procure Waveguide Cooling					



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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish							
					2004	2005	2006	2007	2008	2009	
LN06010065	Assemble Coupler Spools (5)	10	27MAY05	10JUN05		▲ Assemble Coupler Spools (5)					
LN06010095	Assemble Input WG (2)	10	27MAY05	10JUN05		▲ Assemble Input WG (2)					
LN06020062	RELEASE: RFP - Skarpass Flanges	0		09JUN05		◆ RELEASE: RFP - Skarpass Flanges					
LN06020064	Vendors Prep Proposals - S-Band HP Sys Component	10	10JUN05	23JUN05		▲ Vendors Prep Proposals - S-Band HP Sys Component					
LN06020090	RELEASE: RFP - S-Band Waveguide	14	10JUN05	29JUN05		▲ RELEASE: RFP - S-Band Waveguide					
LN06020066	RCV: Proposals from Vendors	0		23JUN05		◆ RCV: Proposals from Vendors					
LN06020068	Evaluate Vendor Proposals	10	24JUN05	08JUL05		▲ Evaluate Vendor Proposals					
LN06020092	Vendors Prep Proposals - S-Band Waveguide	10	30JUN05	14JUL05		▲ Vendors Prep Proposals - S-Band Waveguide					
LN06010030	Cold Test & Fab - S-Band Low Level Equipment	10	08JUL05	21JUL05		▲ Cold Test & Fab - S-Band Low Level Equipment					
LN06020094	RCV: Proposals from Vendors	0		14JUL05		◆ RCV: Proposals from Vendors					
LN06020096	Evaluate Vendor Proposals	10	15JUL05	28JUL05		▲ Evaluate Vendor Proposals					
LN06010035	AVAIL: S-Band Low Level Equipment Ready for Inst	0		21JUL05		◆ AVAIL: S-Band Low Level Equipment Ready for Inst					
LN06020120	RCV: Waveguide Cooling	0		05AUG05		◆ RCV: Waveguide Cooling					
LN06020100	Vendor Fab & Assy - S-Band Waveguide	70	18AUG05	28NOV05		▲ Vendor Fab & Assy - S-Band Waveguide					
LN06020125	Procure Assembly Hardware	20	03OCT05	28OCT05		▲ Procure Assembly Hardware					
LN06020072	Vendor Fab - Skarpass Flanges	60	04OCT05	12JAN06		▲ Vendor Fab - Skarpass Flanges					
LN06020130	RCV: Assembly Hardware	0		28OCT05		◆ RCV: Assembly Hardware					
LN06020105	RCV: from Vendor S-Band Waveguide	0		28NOV05		◆ RCV: from Vendor S-Band Waveguide					
LN06020174	RCV: Skarpass Flanges from Vendor	0		12JAN06		◆ RCV: Skarpass Flanges from Vendor					
LN06020135	Fab & Cold Test - Cold Test Hardware	45	13JAN06	20MAR06		▲ Fab & Cold Test - Cold Test Hardware					
LN06020140	Fab & Cold Test - Waveguide Straights	50	21FEB06	01MAY06		▲ Fab & Cold Test - Waveguide Straights					
LN06020145	Fab & Cold Test - Waveguide Components	50	04APR06	13JUN06		▲ Fab & Cold Test - Waveguide Components					
LN06020150	Fab & Test - Waveguide Supports	25	14JUN06	19JUL06		▲ Fab & Test - Waveguide Supports					
LN06020155	Collect Component Performance Data	5	20JUL06	26JUL06		▲ Collect Component Performance Data					
LN06020160	Load Component Data Base	5	20JUL06	26JUL06		▲ Load Component Data Base					
LN06020165	Receive System / Sub Assemblies	1	27JUL06	27JUL06		▲ Receive System / Sub Assemblies					
LN06020170	Post Process Waveguide	30	28JUL06	08SEP06		▲ Post Process Waveguide					
LN06020185	AVAIL: S-Band High Pwr Equip L01 Ready for Instl	0		08SEP06		◆ AVAIL: S-Band High Pwr Equip L01 Ready for Instl					
LN06020190	AVAIL: S-Band High Pwr Equip BC1 Ready for Instl	0		08SEP06		◆ AVAIL: S-Band High Pwr Equip BC1 Ready for Instl					
LN06020195	AVAIL: S-Band High Pwr Equip L02 Ready for Instl	0		08SEP06		◆ AVAIL: S-Band High Pwr Equip L02 Ready for Instl					
LN06020200	AVAIL: S-Band High Pwr Equip BC2 Ready for Instl	0		08SEP06		◆ AVAIL: S-Band High Pwr Equip BC2 Ready for Instl					
LN06020205	AVAIL: S-Band High Pwr Equip L03 Ready for Instl	0		08SEP06		◆ AVAIL: S-Band High Pwr Equip L03 Ready for Instl					
1.03.06.03 S-Band Structures											
LN06030000	RCV: 9.5ft Structures & Strongbacks	0	16MAY05*			◆ RCV: 9.5ft Structures & Strongbacks					
LN06030005	RF Evaluation of 9.5ft Structures & Strongbacks	10	16MAY05	27MAY05		▲ RF Evaluation of 9.5ft Structures & Strongbacks					
LN0603	S-BAND STRUCTURES SUMMARY	86	16MAY05	15SEP05		▲ S-BAND STRUCTURES SUMMARY					
LN06030010	Design Strongback Girder Supports	10	31MAY05	13JUN05		▲ Design Strongback Girder Supports					

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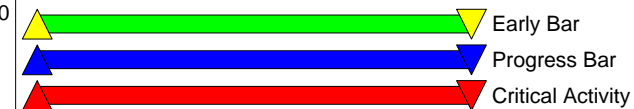
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▲ Early Bar
▲ Progress Bar
▲ Critical Activity

▲ Early Bar
▲ Progress Bar
▲ Critical Activity

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	2004	2005	2006	2007	2008	2009
LN06030020	Design TV Section Supports	5	14JUN05	20JUN05		⚠ Design TV Section Supports				
LN06030025	Prepare for Prelim Design Review (PDR)	3	21JUN05	23JUN05		⚠ Prepare for Prelim Design Review (PDR)				
LN06030030	Conduct Prelim Design Review (PDR) - S Bnd Struc	1	24JUN05	24JUN05		⚠ Conduct Prelim Design Review (PDR) - S Bnd Struc				
LN06030035	Generate Detailed Procurement Plan	1	27JUN05	27JUN05		⚠ Generate Detailed Procurement Plan				
LN06030040	Create Cold Test Plan	5	28JUN05	05JUL05		⚠ Create Cold Test Plan				
LN06030045	Establish Subordinate Work Orders	1	06JUL05	06JUL05		⚠ Establish Subordinate Work Orders				
LN06030050	Prepare for Final Desgin Review (FDR)	3	07JUL05	11JUL05		⚠ Prepare for Final Desgin Review (FDR)				
LN06030055	Conduct Final Design Review (FDR) - S Bnd Struc	1	12JUL05	12JUL05		⚠ Conduct Final Design Review (FDR) - S Bnd Struc				
LN06030060	COMP: S-Band Structures Design	0		12JUL05		◆ COMP: S-Band Structures Design				
LN06030075	Bead Pull Structures	15	13JUL05	02AUG05		⚠ Bead Pull Structures				
LN06030090	Fabricate 9.5ft Supports	5	03AUG05	09AUG05		⚠ Fabricate 9.5ft Supports				
LN06030100	Collect Component Performance Data	5	10AUG05	16AUG05		⚠ Collect Component Performance Data				
LN06030105	Load Component Data Base	5	17AUG05	23AUG05		⚠ Load Component Data Base				
LN06030110	Receive System / Sub Assemblies	1	24AUG05	24AUG05		⚠ Receive System / Sub Assemblies				
LN06030115	Post Process 9.5 ft Structures	15	25AUG05	15SEP05		⚠ Post Process 9.5 ft Structures				
LN06030130	AVAIL: S-Band Structures Ready for L01 Instl	0		15SEP05		◆ AVAIL: S-Band Structures Ready for L01 Instl				
LN06030135	AVAIL: S-Band Structures Ready for BC1 Instl	0		15SEP05		◆ AVAIL: S-Band Structures Ready for BC1 Instl				
1.03.06.04 X-Band Low Level System										
LN06040000	REQD: Requirements from System Mech Integration	0		15NOV04		◆ REQD: Requirements from System Mech Integration				
LN0604	X-BAND LOW LEVEL RF SUMMARY	474	16NOV04	27OCT06		⚠ X-BAND LOW LEVEL RF SUMMARY				
LN06040002	Review & Accept Requirements	1	03JAN05	03JAN05		⚠ Review & Accept Requirements				
LN06040004	Write X-Band LLRF ICD	3	04JAN05	06JAN05		⚠ Write X-Band LLRF ICD				
LN06040006	COMP: X-Band Low Level Requirements	0		06JAN05		◆ COMP: X-Band Low Level Requirements				
LN06040008	Design X-Band LLRF System	16	07FEB05	01MAR05		⚠ Design X-Band LLRF System				
LN06040010	Conduct Prelim Dsgin Review (PDR) - X Bnd LL Sys	1	02MAR05	02MAR05		⚠ Conduct Prelim Dsgin Review (PDR) - X Bnd LL Sys				
LN06040012	Design X-Band LLRF System	16	03MAR05	24MAR05		⚠ Design X-Band LLRF System				
LN06040014	Conduct Final Design Review (FDR) - X Bnd LL Sys	1	25MAR05	25MAR05		⚠ Conduct Final Design Review (FDR) - X Bnd LL Sys				
LN06040016	COMP: X-Band Low Level RF Design	0		25MAR05		◆ COMP: X-Band Low Level RF Design				
LN06040018	Prep Bid Pak - X-Band Analyzer	10	28MAR05	08APR05		⚠ Prep Bid Pak - X-Band Analyzer				
LN06040140	Prep Bid Pak - X-Band TWT Driver	10	28MAR05	08APR05		⚠ Prep Bid Pak - X-Band TWT Driver				
LN06040164	Prep Bid Pak - X-Band Phase & Amp Dectector	10	28MAR05	08APR05		⚠ Prep Bid Pak - X-Band Phase & Amp Dectector				
LN06040180	Procure X-Band 4 X Multiplier	260	28MAR05	19APR06		⚠ Procure X-Band 4 X Multiplier				
LN06040184	Procure X-Band RF Cables	260	28MAR05	19APR06		⚠ Procure X-Band RF Cables				
LN06040188	Procure X-Band Stripline Couplers	260	28MAR05	19APR06		⚠ Procure X-Band Stripline Couplers				
LN06040192	Procure X-Band Chassis	260	28MAR05	19APR06		⚠ Procure X-Band Chassis				
LN06040196	Procure X-Band Drive Monitoring	260	28MAR05	19APR06		⚠ Procure X-Band Drive Monitoring				
LN06040020	RELEASE: RFP - X-Band Analyzer	0		08APR05		◆ RELEASE: RFP - X-Band Analyzer				



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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish							
					2004	2005	2006	2007	2008	2009	
LN06040142	RELEASE: RFP - X-Band TWT Driver	0		08APR05		◆ RELEASE: RFP - X-Band TWT Driver					
LN06040166	RELEASE: RFP - X-Band Phase & Amp Dectector	0		08APR05		◆ RELEASE: RFP - X-Band Phase & Amp Dectector					
LN06040022	Vendors Prep Proposals - X-Band Analyzer	10	11APR05	22APR05		▲ Vendors Prep Proposals - X-Band Analyzer					
LN06040144	Vendors Prep Proposals - X-Band TWT Driver	10	11APR05	22APR05		▲ Vendors Prep Proposals - X-Band TWT Driver					
LN06040168	Vendors Prep Proposals - X-Band Phase & Amp D	10	11APR05	22APR05		▲ Vendors Prep Proposals - X-Band Phase & Amp D					
LN06040024	RCV: Proposals from Vendors	0		22APR05		◆ RCV: Proposals from Vendors					
LN06040146	RCV: Proposals from Vendors	0		22APR05		◆ RCV: Proposals from Vendors					
LN06040170	RCV: Proposals from Vendors	0		22APR05		◆ RCV: Proposals from Vendors					
LN06040026	Evaluate Vendor Proposals	10	25APR05	06MAY05		▲ Evaluate Vendor Proposals					
LN06040148	Evaluate Vendor Proposals	10	25APR05	06MAY05		▲ Evaluate Vendor Proposals					
LN06040172	Evaluate Vendor Proposals	10	25APR05	06MAY05		▲ Evaluate Vendor Proposals					
LN06040030	Vendor Fab & Assy - X-Band Analyzer	260	10MAY05	02JUN06		▲ Vendor Fab & Assy - X-Band Analyzer					
LN06040152	Vendor Fab & Assy - X-Band TWT Driver	260	10MAY05	02JUN06		▲ Vendor Fab & Assy - X-Band TWT Driver					
LN06040176	Vendor Fab & Assy - X-Band Phase & Amp Dectector	260	10MAY05	02JUN06		▲ Vendor Fab & Assy - X-Band Phase & Amp Dectector					
LN06040182	RCV: X-Band 4 X Multiplier	0		19APR06		◆ RCV: X-Band 4 X Multiplier					
LN06040186	RCV: X-Band RF Cables	0		19APR06		◆ RCV: X-Band RF Cables					
LN06040190	RCV: X-Band Stripline Couplers	0		19APR06		◆ RCV: X-Band Stripline Couplers					
LN06040194	RCV: X-Band Chassis	0		19APR06		◆ RCV: X-Band Chassis					
LN06040198	RCV: X-Band Drive Monitoring	0		19APR06		◆ RCV: X-Band Drive Monitoring					
LN06040032	RCV: X-Band Analyzer	0		02JUN06		◆ RCV: X-Band Analyzer					
LN06040154	RCV: X-Band TWT Driver	0		02JUN06		◆ RCV: X-Band TWT Driver					
LN06040178	RCV: X-Band Phase & Amp Dectector	0		02JUN06		◆ RCV: X-Band Phase & Amp Dectector					
LN06040200	Assemble X-Band LLRF Equipment	15	01SEP06*	22SEP06		▲ Assemble X-Band LLRF Equipment					
LN06040205	Test X-Band LLRF Equipment	15	25SEP06	13OCT06		▲ Test X-Band LLRF Equipment					
LN06040210	Collect Component Performance Data	5	16OCT06	20OCT06		▲ Collect Component Performance Data					
LN06040215	Load Component Data Base	5	23OCT06	27OCT06		▲ Load Component Data Base					
LN06040220	AVAIL: X-Band LLRF Equip Ready for BC1 Install	0		27OCT06		◆ AVAIL: X-Band LLRF Equip Ready for BC1 Install					
1.03.06.05 X-Band High Power System											
LN06051000	REQD: Requirements from System Mech Integration	0		18JAN05*		◆ REQD: Requirements from System Mech Integration					
LN06051005	Review & Accept Requirements	1	19JAN05	19JAN05		▲ Review & Accept Requirements					
LN0605	X-BAND HIGH POWER RF SUMMARY	451	19JAN05	10NOV06		▲ X-BAND HIGH POWER RF SUMMARY					
LN06051	X-BAND HP KLYSTRON SUMMARY	451	19JAN05	10NOV06		▲ X-BAND HP KLYSTRON SUMMARY					
LN06051010	Write Klystron ICD	2	20JAN05	21JAN05		▲ Write Klystron ICD					
LN06051015	COMP: X-Band Klystron Requirements	0		21JAN05		◆ COMP: X-Band Klystron Requirements					
LN06052000	REQD: Requirements from System Mech Integration	0		21JAN05		◆ REQD: Requirements from System Mech Integration					
LN06052005	Review & Accept Requirements	1	24JAN05	24JAN05		▲ Review & Accept Requirements					
LN06051020	Modify Klystron Design	10	24JAN05	04FEB05		▲ Modify Klystron Design					



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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish							
					2004	2005	2006	2007	2008	2009	
LN06051056	Engineer Klystron System Window	10	24JAN05	04FEB05		⚠ Engineer Klystron System Window					
LN06051030	Design Klystron Gallery Tank	20	24JAN05	18FEB05		⚠ Design Klystron Gallery Tank					
LN06051025	Design Klystron Mount	40	24JAN05	21MAR05		⚠ Design Klystron Mount					
LN06052	X-BAND HP MODULATOR SUMMARY	378	24JAN05	03AUG06		⚠ X-BAND HP MODULATOR SUMMARY					
LN06051058	Design Klystron System Window	15	07FEB05	28FEB05		⚠ Design Klystron System Window					
LN06052010	Write Modulator ICD	2	23FEB05	24FEB05		⚠ Write Modulator ICD					
LN06052015	COMP: X-Band Modulator Requirements	0		24FEB05		◆ COMP: X-Band Modulator Requirements					
LN06053000	REQD: Requirements from System Mech Integration	0		24FEB05		◆ REQD: Requirements from System Mech Integration					
LN06053005	Review & Accept Requirements	1	25FEB05	25FEB05		⚠ Review & Accept Requirements					
LN06053	X-BAND HP WAVEGUIDE SUMMARY	149	25FEB05	26SEP05		⚠ X-BAND HP WAVEGUIDE SUMMARY					
LN06051060	COMP: X-Band Klystron System Window	0		28FEB05		◆ COMP: X-Band Klystron System Window					
LN06053010	Write HP Waveguide System ICD	2	28FEB05	01MAR05		⚠ Write HP Waveguide System ICD					
LN06053015	COMP: X-Band HP Waveguide Requirements	0		01MAR05		◆ COMP: X-Band HP Waveguide Requirements					
LN06053020	Design WG System	40	02MAR05	26APR05		⚠ Design WG System					
LN06051035	Conduct Prelim Design Review (PDR) - X Bnd HP Ky	5	22MAR05	28MAR05		⚠ Conduct Prelim Design Review (PDR) - X Bnd HP Ky					
LN06052020	Design Modulator	10	25MAR05	07APR05		⚠ Design Modulator					
LN06051040	Release Long Lead Procurements	0		28MAR05		◆ Release Long Lead Procurements					
LN06051045	Create Cold Test Plan	5	29MAR05	04APR05		⚠ Create Cold Test Plan					
LN06051050	Establish Subordinate Work Orders	1	05APR05	05APR05		⚠ Establish Subordinate Work Orders					
LN06051052	Conduct Final Design Review (FDR) - X Bnd HP Ky	1	06APR05	06APR05		⚠ Conduct Final Design Review (FDR) - X Bnd HP Ky					
LN06051054	COMP: X-Band Klystron Design	0		06APR05		◆ COMP: X-Band Klystron Design					
LN06051062	Prep Bid Pak - X-Band Klystron	5	07APR05	13APR05		⚠ Prep Bid Pak - X-Band Klystron					
LN06051078	Procure Mounting Support	200	07APR05	03FEB06		⚠ Procure Mounting Support					
LN06052025	Modulator Documentation	14	08APR05	27APR05		⚠ Modulator Documentation					
LN06051064	RELEASE: RFP - X-Band Klystron	0		13APR05		◆ RELEASE: RFP - X-Band Klystron					
LN06051066	Vendors Prep Proposals - Klystron System	10	14APR05	27APR05		⚠ Vendors Prep Proposals - Klystron System					
LN06051068	RCV: Vendor Proposals - X-Band Klystron	0		27APR05		◆ RCV: Vendor Proposals - X-Band Klystron					
LN06053025	Design WG System Supports	30	27APR05	08JUN05		⚠ Design WG System Supports					
LN06051070	Evaluate Vendor Proposals - Klystron System	5	28APR05	04MAY05		⚠ Evaluate Vendor Proposals - Klystron System					
LN06052030	Conduct Prelim Design Review (PDR) - X Bnd HP Mod	5	28APR05	04MAY05		⚠ Conduct Prelim Design Review (PDR) - X Bnd HP Mod					
LN06052035	Release Long Lead Procurements	0		04MAY05		◆ Release Long Lead Procurements					
LN06052040	Create Cold Test Plan	5	05MAY05	11MAY05		⚠ Create Cold Test Plan					
LN06051074	Vendor Fab & Assy - X-Band Klystrons	200	06MAY05	07MAR06		⚠ Vendor Fab & Assy - X-Band Klystrons					
LN06052045	Establish Subordinate Work Orders	1	12MAY05	12MAY05		⚠ Establish Subordinate Work Orders					
LN06052050	Conduct Final Design Review (FDR) - X Bnd HP Mod	1	13MAY05	13MAY05		⚠ Conduct Final Design Review (FDR) - X Bnd HP Mod					
LN06052055	COMP: X-Band Modulator Design	0		13MAY05		◆ COMP: X-Band Modulator Design					
LN06052060	Procure Tank	260	16MAY05	08JUN06		⚠ Procure Tank					

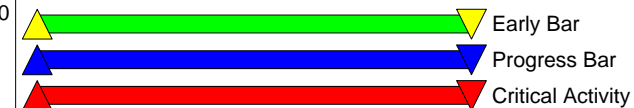


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Start Date 01JUN01
 Finish Date 31MAR09
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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish							
					2004	2005	2006	2007	2008	2009	
LN06052070	Procure Pulsed Transformer	260	16MAY05	08JUN06							
LN06052080	Procure Cap Divider	260	16MAY05	08JUN06							
LN06052090	Procure Heater Isolation	260	16MAY05	08JUN06							
LN06052100	Procure Toroid & Misc	260	16MAY05	08JUN06							
LN06052110	Procure Interlocks	260	16MAY05	08JUN06							
LN06052120	Procure HV Connectors	260	16MAY05	08JUN06							
LN06052130	Procure Magnet Power Supply	260	16MAY05	08JUN06							
LN06052140	Procure Power Supply Cabling	260	16MAY05	08JUN06							
LN06053030	Conduct Prelim Design Review (PDR) - S Band WG	5	09JUN05	15JUN05							
LN06053035	Release Long Lead Procurements	0		15JUN05							
LN06053040	Create Cold Test Plan	5	16JUN05	22JUN05							
LN06053045	Establish Subordinate Work Orders	1	23JUN05	23JUN05							
LN06053050	Conduct Final Design Review (FDR) - S Band WG	1	24JUN05	24JUN05							
LN06053055	COMP: X-Band Waveguide Design	0		24JUN05							
LN06053060	Procure ION Pumps (8 EA)	10	27JUN05	11JUL05							
LN06053070	Procure ION Guage Controller	10	27JUN05	11JUL05							
LN06053080	Procure ION Pump Power Supply	10	27JUN05	11JUL05							
LN06053090	Procure Waveguide Supports	10	27JUN05	11JUL05							
LN06053065	RCV: ION Pumps (8 EA)	0		11JUL05							
LN06053075	RCV: ION Guage Controller	0		11JUL05							
LN06053085	RCV: ION Pump Power Supply	0		11JUL05							
LN06053095	RCV: Waveguide Supports	0		11JUL05							
LN06053100	Fab & Test Cold Test Hardware	3	12JUL05	14JUL05							
LN06053105	Fab, Cold Test & Tune Broadwall Coupler	5	15JUL05	21JUL05							
LN06053110	Fab, Cold Test & Tune Mode Convertor	5	22JUL05	28JUL05							
LN06053115	Fab, Cold Test & Tune Circular Waveguide (WR 293	12	29JUL05	15AUG05							
LN06053120	Fab, Cold Test & Tune WR90 Waveguide	5	16AUG05	22AUG05							
LN06053125	Waveguide Supports	10	23AUG05	06SEP05							
LN06053130	Assemble System	10	07SEP05	20SEP05							
LN06053135	Collect Component Performance Data	2	21SEP05	22SEP05							
LN06053140	Load Component Data Base	2	23SEP05	26SEP05							
LN06053165	AVAIL: X-Band HP Waveguide for Installation	0		26SEP05							
LN06051080	RCV: Mounting Support	0		03FEB06							
LN06051125	Fab & Asemble Mounting Support	5	06FEB06	10FEB06							
LN06051076	RCV: X-Band Klystrons	0		07MAR06							
LN06051130	Fab & Assemble System Window	15	08MAR06	28MAR06							
LN06051120	Fab & Assemble X-Band Klystron	160	08MAR06	20OCT06							



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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
LN06051135	Test System Window	10	29MAR06	11APR06			⚠ Test System Window			
LN06051150	Collect Component Performance Data	2	12APR06	13APR06			⚠ Collect Component Performance Data			
LN06051155	Load Component Data Base	2	14APR06	17APR06			⚠ Load Component Data Base			
LN06052065	RCV: Tank	0		08JUN06			◆ RCV: Tank			
LN06052075	RCV: Pulsed Transformer	0		08JUN06			◆ RCV: Pulsed Transformer			
LN06052085	RCV: Cap Divider	0		08JUN06			◆ RCV: Cap Divider			
LN06052095	RCV: Heater Isolation	0		08JUN06			◆ RCV: Heater Isolation			
LN06052105	RCV: Toroid & Misc	0		08JUN06			◆ RCV: Toroid & Misc			
LN06052115	RCV: Interlocks	0		08JUN06			◆ RCV: Interlocks			
LN06052125	RCV: HV Connectors	0		08JUN06			◆ RCV: HV Connectors			
LN06052135	RCV: Magnet Power Supply	0		08JUN06			◆ RCV: Magnet Power Supply			
LN06052145	RCV: Power Supply Cabling	0		08JUN06			◆ RCV: Power Supply Cabling			
LN06052260	Assemble Tank	5	09JUN06	15JUN06			⚠ Assemble Tank			
LN06052265	Assemble Modulator Assembly	15	16JUN06	07JUL06			⚠ Assemble Modulator Assembly			
LN06052270	Test Modulator Assembly	15	10JUL06	28JUL06			⚠ Test Modulator Assembly			
LN06052290	Collect Component Performance Data	2	31JUL06	01AUG06			⚠ Collect Component Performance Data			
LN06052295	Load Component Data Base	2	02AUG06	03AUG06			⚠ Load Component Data Base			
LN06052315	AVAIL: X-Band HP Modulator Ready for BC1 Install	0		03AUG06			◆ AVAIL: X-Band HP Modulator Ready for BC1 Install			
LN06051165	Dress Klystron	5	23OCT06	27OCT06			⚠ Dress Klystron			
LN06051170	Test Klystron System	10	30OCT06	10NOV06			⚠ Test Klystron System			
LN06051175	AVAIL: X-Band HP Klystrons Ready for BC1 Install	0		10NOV06			◆ AVAIL: X-Band HP Klystrons Ready for BC1 Install			
1.03.06.06 X-Band Structures										
LN06060000	Review & Accept Requirements	1	16NOV04	16NOV04			⚠ Review & Accept Requirements			
LN0606	X-BAND STRUCTURES SUMMARY	321	16NOV04	23MAR06			⚠ X-BAND STRUCTURES SUMMARY			
LN06060005	Write Structure ICD	3	17NOV04	19NOV04			⚠ Write Structure ICD			
LN06060010	COMP: X-Band Structures Requirements	0		19NOV04			◆ COMP: X-Band Structures Requirements			
LN06060012	Design Input Waveguide	10	22NOV04	07DEC04			⚠ Design Input Waveguide			
LN06060015	Design Structure Supports	30	08DEC04	02FEB05			⚠ Design Structure Supports			
LN06060020	Design Collimators	5	03FEB05	09FEB05			⚠ Design Collimators			
LN06060025	Design Removal Mechanism	25	10FEB05	17MAR05			⚠ Design Removal Mechanism			
LN06060030	Conduct Fnl Dsn Rev - X-Band Bunch Comp Sys	1	18MAR05	18MAR05			⚠ Conduct Fnl Dsn Rev - X-Band Bunch Comp Sys			
LN06060035	COMP: X-Band Bunch Compressor System Design	0		18MAR05			◆ COMP: X-Band Bunch Compressor System Design			
LN06060080	Fab Structure Supports	5	21MAR05	25MAR05			⚠ Fab Structure Supports			
LN06060060	Fab, Cold Test & Tune WR 90 Tee	8	21MAR05	30MAR05			⚠ Fab, Cold Test & Tune WR 90 Tee			
LN06060065	Fab, Cold Test & Tune WR90 Low Power Loads	8	21MAR05	30MAR05			⚠ Fab, Cold Test & Tune WR90 Low Power Loads			
LN06060085	Fab Structure Removal Mechanism	15	21MAR05	08APR05			⚠ Fab Structure Removal Mechanism			
LN06060070	Fab Collimators	21	21MAR05	18APR05			⚠ Fab Collimators			

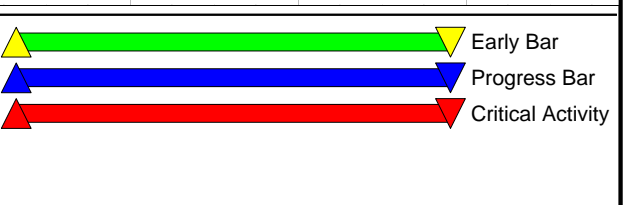
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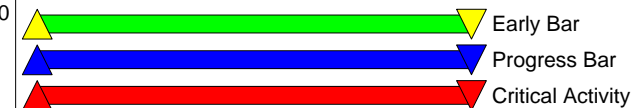
**LCLS
INTEGRATED SCHEDULE**

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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish							
					2004	2005	2006	2007	2008	2009	
LN06060040	Procure Valves and Misc Hdwr	90	21MAR05	26JUL05			Procure Valves and Misc Hdwr				
LN06060090	Assemble X-Band Structures	21	27JUL05	24AUG05			Assemble X-Band Structures				
LN06060092	Cold Test & Tune Structure (Shop)	21	25AUG05	23SEP05			Cold Test & Tune Structure (Shop)				
LN06060095	Test X-Band Structure System	100	03OCT05	10MAR06			Test X-Band Structure System				
LN06060105	Collect Component Performance Data	2	13MAR06	14MAR06			Collect Component Performance Data				
LN06060110	Load Component Data Base	2	15MAR06	16MAR06			Load Component Data Base				
LN06060115	Post Process & Test	5	17MAR06	23MAR06			Post Process & Test				
LN06060120	AVAIL: X-Band Structures Ready for BC1 Install	0		23MAR06			AVAIL: X-Band Structures Ready for BC1 Install				
1.03.06.07 RF Distribution System											
LN06070600	Review & Accept Requirements	2	03JAN05	04JAN05			Review & Accept Requirements				
LN060706	X BAND RF PHASE MEASUREMENTS SUMMARY	432	03JAN05	29SEP06			X BAND RF PHASE MEASUREMENTS SUMMARY				
LN0607	RF DISTRIBUTION SUMMARY	728	03JAN05	02JAN08			RF DISTRIBUTION SUMMARY				
LN06070601	Design X-Band Phase Chasis	430	05JAN05	29SEP06			Design X-Band Phase Chasis				
LN06070602	Create Design Documentation	20	03FEB05	03MAR05			Create Design Documentation				
LN06070604	Create Draft Layouts	10	04MAR05	17MAR05			Create Draft Layouts				
LN06070606	Prepare for Prelim Design Review (PDR)	2	18MAR05	21MAR05			Prepare for Prelim Design Review (PDR)				
LN06070608	Conduct Prelim Design Review (PDR) - RF Phas Mea	1	22MAR05	22MAR05			Conduct Prelim Design Review (PDR) - RF Phas Mea				
LN06070400	Develop Design & Prototype	25	08APR05	12MAY05			Develop Design & Prototype				
LN060704	KLYSTRON CONTROL INTERFACES (6) SUMMARY	148	08APR05	04NOV05			KLYSTRON CONTROL INTERFACES (6) SUMMARY				
LN06070609	Procure, Fab & Test X-Band Chasis Prototype	60	02MAY05*	26JUL05			Procure, Fab & Test X-Band Chasis Prototype				
LN06070402	Create Design Documentation	20	13MAY05	10JUN05			Create Design Documentation				
LN06070404	Create Draft Layouts	10	13JUN05	24JUN05			Create Draft Layouts				
LN06070406	Prepare for Prelim Design Review (PDR)	2	27JUN05	28JUN05			Prepare for Prelim Design Review (PDR)				
LN06070408	Conduct Prelim Design Review (PDR) - Cntrls I/F	1	29JUN05	29JUN05			Conduct Prelim Design Review (PDR) - Cntrls I/F				
LN06070410	Generate Detailed Procurement Plan	1	30JUN05	30JUN05			Generate Detailed Procurement Plan				
LN06070412	Create Test Plan	5	01JUL05	08JUL05			Create Test Plan				
LN06070414	Establish Subordinate Work Orders	1	11JUL05	11JUL05			Establish Subordinate Work Orders				
LN06070416	Prepare for Final Desgin Review (FDR)	2	12JUL05	13JUL05			Prepare for Final Desgin Review (FDR)				
LN06070418	Conduct Final Design Review (FDR) - Cntrls I/F	1	14JUL05	14JUL05			Conduct Final Design Review (FDR) - Cntrls I/F				
LN06070420	COMP: Klystron Controls Design	0		14JUL05			COMP: Klystron Controls Design				
LN06070610	Procure,Procure, Fab & Test X-Band PAD Prototype	80	27JUL05	16NOV05			Procure,Procure, Fab & Test X-Band PAD Prototype				
LN06070200	Generate Detailed Procurement Plan	1	12SEP05	12SEP05			Generate Detailed Procurement Plan				
LN06070310	Generate Detailed Procurement Plan	1	12SEP05	12SEP05			Generate Detailed Procurement Plan				
LN06070102	Create Design Documentation	20	12SEP05	07OCT05			Create Design Documentation				
LN060703	IPA MODIFICATIONS (6) SUMMARY	30	12SEP05	21OCT05			IPA MODIFICATIONS (6) SUMMARY				
LN060701	MODULATOR REFURBISHMENT (7) SUMMARY	161	12SEP05	15MAY06			MODULATOR REFURBISHMENT (7) SUMMARY				
LN060702	SOLID STATE SUB BOOSTER (6) SUMMARY	185	12SEP05	19JUN06			SOLID STATE SUB BOOSTER (6) SUMMARY				



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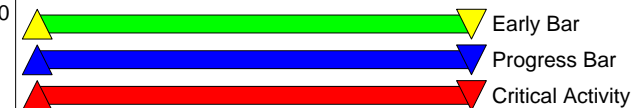
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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish							
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LN06070205	Create Test Plan	5	13SEP05	19SEP05			⚠ Create Test Plan				
LN06070312	Create Test Plan	5	13SEP05	19SEP05			⚠ Create Test Plan				
LN06070210	Establish Subordinate Work Orders	1	20SEP05	20SEP05			⚠ Establish Subordinate Work Orders				
LN06070314	Establish Subordinate Work Orders	1	20SEP05	20SEP05			⚠ Establish Subordinate Work Orders				
LN06070215	Prepare for Final Design Review (FDR)	2	21SEP05	22SEP05			⚠ Prepare for Final Design Review (FDR)				
LN06070316	Prepare for Final Design Review (FDR)	2	21SEP05	22SEP05			⚠ Prepare for Final Design Review (FDR)				
LN06070220	Conduct Final Design Review (FDR) - SS SubBoost	1	23SEP05	23SEP05			⚠ Conduct Final Design Review (FDR) - SS SubBoost				
LN06070225	COMP: Solid State Sub Booster Design	0		23SEP05			◆ COMP: Solid State Sub Booster Design				
LN06070318	Conduct Final Design Review (FDR) - IPA Mods	1	23SEP05	23SEP05			⚠ Conduct Final Design Review (FDR) - IPA Mods				
LN06070320	COMP: IPA Modifications Design	0		23SEP05			◆ COMP: IPA Modifications Design				
LN06070426	Fab Cables	10	03OCT05	14OCT05			⚠ Fab Cables				
LN06070326	Modify & Test IPA Chasis	15	03OCT05	21OCT05			⚠ Modify & Test IPA Chasis				
LN06070500	Develop Design & Prototype	25	03OCT05	04NOV05			⚠ Develop Design & Prototype				
LN06070230	Procure Phase Control Electronics	40	03OCT05	29NOV05			⚠ Procure Phase Control Electronics				
LN06070235	Procure Amplitude Control Electronics	40	03OCT05	29NOV05			⚠ Procure Amplitude Control Electronics				
LN060705	BUNCH LENGTH ELECTRONICS SUMMARY	88	03OCT05	22FEB06			⚠ BUNCH LENGTH ELECTRONICS SUMMARY				
LN06070110	Generate Detailed Procurement Plan	1	10OCT05	10OCT05			⚠ Generate Detailed Procurement Plan				
LN06070112	Create Test Plan	5	11OCT05	17OCT05			⚠ Create Test Plan				
LN06070428	Klystron Controls Interface Installation	15	17OCT05	04NOV05			⚠ Klystron Controls Interface Installation				
LN06070114	Establish Subordinate Work Orders	1	18OCT05	18OCT05			⚠ Establish Subordinate Work Orders				
LN06070116	Prepare for Final Desgin Review (FDR)	2	19OCT05	20OCT05			⚠ Prepare for Final Desgin Review (FDR)				
LN06070118	Conduct Final Design Review (FDR) - Mod Refurb	1	21OCT05	21OCT05			⚠ Conduct Final Design Review (FDR) - Mod Refurb				
LN06070120	COMP: Modulator Refurbishment Design	0		21OCT05			◆ COMP: Modulator Refurbishment Design				
LN06070327	AVAIL: IPA Chasis Modified	0		21OCT05			◆ AVAIL: IPA Chasis Modified				
LN06070124	Prep Bid Pak - Thyatron & Parts	5	24OCT05	28OCT05			⚠ Prep Bid Pak - Thyatron & Parts				
LN06070126	RELEASE: RFP - Thyatron & Parts	0		28OCT05			◆ RELEASE: RFP - Thyatron & Parts				
LN06070128	Vendors Prep Proposals - Thyatron & Parts	10	31OCT05	11NOV05			⚠ Vendors Prep Proposals - Thyatron & Parts				
LN06070502	Create Design Documentation	20	07NOV05	06DEC05			⚠ Create Design Documentation				
LN06070130	RCV: Vendor Proposals - Thyatron & Parts	0		11NOV05			◆ RCV: Vendor Proposals - Thyatron & Parts				
LN06070132	Evaluate Vendor Proposals - Thyatron & Parts	5	14NOV05	18NOV05			⚠ Evaluate Vendor Proposals - Thyatron & Parts				
LN06070611	Generate Detailed Procurement Plan	1	17NOV05	17NOV05			⚠ Generate Detailed Procurement Plan				
LN06070612	Create Test Plan	5	18NOV05	28NOV05			⚠ Create Test Plan				
LN06070136	Vendor Fab & Assy - Thyatron & Parts	70	22NOV05	20MAR06			⚠ Vendor Fab & Assy - Thyatron & Parts				
LN06070614	Establish Subordinate Work Orders	1	29NOV05	29NOV05			⚠ Establish Subordinate Work Orders				
LN06070616	Prepare for Final Design Review (FDR)	2	30NOV05	01DEC05			⚠ Prepare for Final Design Review (FDR)				
LN06070240	Fab & Test Amplifier	90	30NOV05	21APR06			⚠ Fab & Test Amplifier				
LN06070618	Conduct Final Design Review (FDR) - RF Phas Mea	1	02DEC05	02DEC05			⚠ Conduct Final Design Review (FDR) - RF Phas Mea				

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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish							
					2004	2005	2006	2007	2008	2009	
LN06070620	COMP: RF Phase Measurement Design	0		02DEC05			◆COMP: RF Phase Measurement Design				
LN06070622	Procure Material / Equipment	70	05DEC05	29MAR06			▲▲▲▲▲▲▲▲▲▲ Procure Material / Equipment				
LN06070504	Create Draft Layouts	10	07DEC05	04JAN06			▲▲ Create Draft Layouts				
LN06070506	Prepare for Prelim Design Review (PDR)	2	05JAN06	06JAN06			▲▲ Prepare for Prelim Design Review (PDR)				
LN06070508	Conduct Prelim Design Review (PDR) - Bm Phs Elec	1	09JAN06	09JAN06			▲▲ Conduct Prelim Design Review (PDR) - Bm Phs Elec				
LN06070510	Generate Detailed Procurement Plan	1	10JAN06	10JAN06			▲▲ Generate Detailed Procurement Plan				
LN06070512	Create Test Plan	5	11JAN06	18JAN06			▲▲ Create Test Plan				
LN06070514	Establish Subordinate Work Orders	1	19JAN06	19JAN06			▲▲ Establish Subordinate Work Orders				
LN06070516	Prepare for Final Desgin Review (FDR)	2	20JAN06	23JAN06			▲▲ Prepare for Final Desgin Review (FDR)				
LN06070518	Conduct Final Design Review (FDR) - Bnc Lth Elec	1	24JAN06	24JAN06			▲▲ Conduct Final Design Review (FDR) - Bnc Lth Elec				
LN06070520	COMP: Bunch Length Electronics Design	0		24JAN06			◆COMP: Bunch Length Electronics Design				
LN06070525	Fab & Test Bunch Length Electronics	20	25JAN06	22FEB06			▲▲ Fab & Test Bunch Length Electronics				
LN06070530	AVAIL: Bunch Length Electronics	0		22FEB06			◆AVAIL: Bunch Length Electronics				
LN06070138	RCV: from Vendor - Thyatron & Parts	0		20MAR06			◆RCV: from Vendor - Thyatron & Parts				
LN06070140	Refurbish Existing Modulators (7ea)	40	21MAR06	15MAY06			▲▲ Refurbish Existing Modulators (7ea)				
LN06070638	Procure, Fab & Test X-Band Chasis	12	30MAR06	14APR06			▲▲ Procure, Fab & Test X-Band Chasis				
LN06070700	Review & Accept Requirements	2	10APR06	11APR06			▲▲ Review & Accept Requirements				
LN060707	RF DISTRIBUTION L2 & L3 SUMMARY	222	10APR06	09MAR07			▲▲▲▲▲▲▲▲▲▲ RF DISTRIBUTION L2 & L3 SUMMARY				
LN06070701	Design RF Distribution System	25	12APR06	16MAY06			▲▲ Design RF Distribution System				
LN06070639	AVAIL: X-Band RF Phase Measurement System	0		14APR06			◆AVAIL: X-Band RF Phase Measurement System				
LN06070245	Assemble & Test Sub Booster Systems	40	24APR06	19JUN06			▲▲ Assemble & Test Sub Booster Systems				
LN06070142	AVAIL: Modulators Refurbished - BC1	0		15MAY06			◆AVAIL: Modulators Refurbished - BC1				
LN06070144	AVAIL: Modulators Refurbished - L02	0		15MAY06			◆AVAIL: Modulators Refurbished - L02				
LN06070146	AVAIL: Modulators Refurbished - BC2	0		15MAY06			◆AVAIL: Modulators Refurbished - BC2				
LN06070148	AVAIL: Modulators Refurbished - L03	0		15MAY06			◆AVAIL: Modulators Refurbished - L03				
LN06070702	Create Design Documentation	20	17MAY06	14JUN06			▲▲ Create Design Documentation				
LN06070704	Create Draft Layouts	10	15JUN06	28JUN06			▲▲ Create Draft Layouts				
LN06070250	AVAIL: Solid State Sub Booster Ready for Install	0		19JUN06			◆AVAIL: Solid State Sub Booster Ready for Install				
LN06070706	Prepare for Prelim Design Review (PDR)	2	29JUN06	30JUN06			▲▲ Prepare for Prelim Design Review (PDR)				
LN06070708	Conduct Prelim Design Review (PDR) - RF Dist	1	03JUL06	03JUL06			▲▲ Conduct Prelim Design Review (PDR) - RF Dist				
LN06070709	Controls Configuration Assessment	10	05JUL06	18JUL06			▲▲ Controls Configuration Assessment				
LN06070710	Design RF Dist PRL Coaxial Water System	10	05JUL06	18JUL06			▲▲ Design RF Dist PRL Coaxial Water System				
LN06070711	Proc, Fab & Test 2W Distribution Amp - Prototype	60	19JUL06	11OCT06			▲▲ Proc, Fab & Test 2W Distribution Amp - Prototype				
LN06070800	Review & Accept Requirements	2	03OCT06	04OCT06			▲▲ Review & Accept Requirements				
LN06070900	Review & Accept Requirements	2	03OCT06	04OCT06			▲▲ Review & Accept Requirements				
LN060709	RF STABILITY TESTING SUMMARY	179	03OCT06	02JUL07			▲▲▲▲▲ RF STABILITY TESTING SUMMARY				
LN060708	RF FIBER OPTICS ELECTRONICS SUMMARY	295	03OCT06	02JAN08			▲▲▲▲ RF FIBER OPTICS ELECTRONICS SUMMARY				

RF FIBER OPTICS ELECTRONICS SUMMARY

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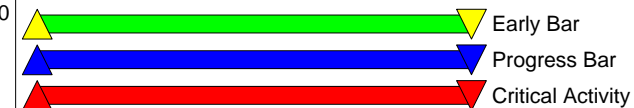
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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish							
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LN06070801	Design Fiber Optic Electronics	25	05OCT06	08NOV06					Design Fiber Optic Electronics		
LN06070901	Design Stability Algorithms	25	05OCT06	08NOV06					Design Stability Algorithms		
LN06070712	Generate Detailed Procurement Plan	1	12OCT06	12OCT06					Generate Detailed Procurement Plan		
LN06070713	Create Test Plan	5	13OCT06	19OCT06					Create Test Plan		
LN06070714	Establish Subordinate Work Orders	1	20OCT06	20OCT06					Establish Subordinate Work Orders		
LN06070716	Prepare for Final Design Review (FDR)	2	23OCT06	24OCT06					Prepare for Final Design Review (FDR)		
LN06070718	Conduct Final Design Review (FDR) - RF Dist	1	25OCT06	25OCT06					Conduct Final Design Review (FDR) - RF Dist		
LN06070720	COMP: RF Distribution (L2&L3) Design	0		25OCT06					COMP: RF Distribution (L2&L3) Design		
LN06070740	Procure & Install Coaxial Water Lines	15	26OCT06	15NOV06					Procure & Install Coaxial Water Lines		
LN06070744	Procure & Install Control Cables	25	26OCT06	01DEC06					Procure & Install Control Cables		
LN06070730	Procure, Fab & Test 2W Distribution Amp (10)	60	26OCT06	06FEB07					Procure, Fab & Test 2W Distribution Amp (10)		
LN06070732	Procure & Install 1km 1/2 Superflex	60	26OCT06	06FEB07					Procure & Install 1km 1/2 Superflex		
LN06070736	Procure & Install 1km Cable Guides	60	26OCT06	06FEB07					Procure & Install 1km Cable Guides		
LN06070902	Create Design Documentation	20	09NOV06	08DEC06					Create Design Documentation		
LN06070802	Create Design Documentation	25	09NOV06	15DEC06					Create Design Documentation		
LN06070804	Create Draft Layouts	25	09NOV06	15DEC06					Create Draft Layouts		
LN06070904	Create Draft Layouts	10	11DEC06	08JAN07					Create Draft Layouts		
LN06070806	Prepare for Prelim Design Review (PDR)	2	02JAN07	03JAN07					Prepare for Prelim Design Review (PDR)		
LN06070808	Conduct Prelim Design Review (PDR) - RF Elec	1	04JAN07	04JAN07					Conduct Prelim Design Review (PDR) - RF Elec		
LN06070810	Generate Detailed Procurement Plan	1	05JAN07	05JAN07					Generate Detailed Procurement Plan		
LN06070812	Create Test Plan	5	08JAN07	12JAN07					Create Test Plan		
LN06070906	Prepare for Prelim Design Review (PDR)	2	09JAN07	10JAN07					Prepare for Prelim Design Review (PDR)		
LN06070908	Conduct Prelim Design Review (PDR) - RF Stbility	1	11JAN07	11JAN07					Conduct Prelim Design Review (PDR) - RF Stbility		
LN06070910	Generate Detailed Procurement Plan	1	12JAN07	12JAN07					Generate Detailed Procurement Plan		
LN06070814	Establish Subordinate Work Orders	1	16JAN07	16JAN07					Establish Subordinate Work Orders		
LN06070912	Create Test Plan	5	16JAN07	22JAN07					Create Test Plan		
LN06070815	Fab & Test RF FO Electronics Prototype	80	17JAN07	09MAY07					Fab & Test RF FO Electronics Prototype		
LN06070914	Establish Subordinate Work Orders	1	23JAN07	23JAN07					Establish Subordinate Work Orders		
LN06070915	Prepare for Final Desgin Review (FDR)	2	24JAN07	25JAN07					Prepare for Final Desgin Review (FDR)		
LN06070916	Conduct Final Design Review (FDR) - RF Stability	1	26JAN07	26JAN07					Conduct Final Design Review (FDR) - RF Stability		
LN06070917	RF Feedback Measurements	109	29JAN07	02JUL07					RF Feedback Measurements		
LN06070918	RF Feedback Setup	109	29JAN07	02JUL07					RF Feedback Setup		
LN06070919	RF Feedback Algorithm Adjustment	109	29JAN07	02JUL07					RF Feedback Algorithm Adjustment		
LN06070731	AVAIL: Hdwr Testing Complete Ready for Install	0		06FEB07					AVAIL: Hdwr Testing Complete Ready for Instal		
LN06070748	Install Cooling System	7	07FEB07	15FEB07					Install Cooling System		
LN06070756	2W Distribution Amp Install (10)	15	16FEB07	09MAR07					2W Distribution Amp Install (10)		
LN06070757	AVAIL: RF Distribution System Ready	0		09MAR07					AVAIL: RF Distribution System Ready		

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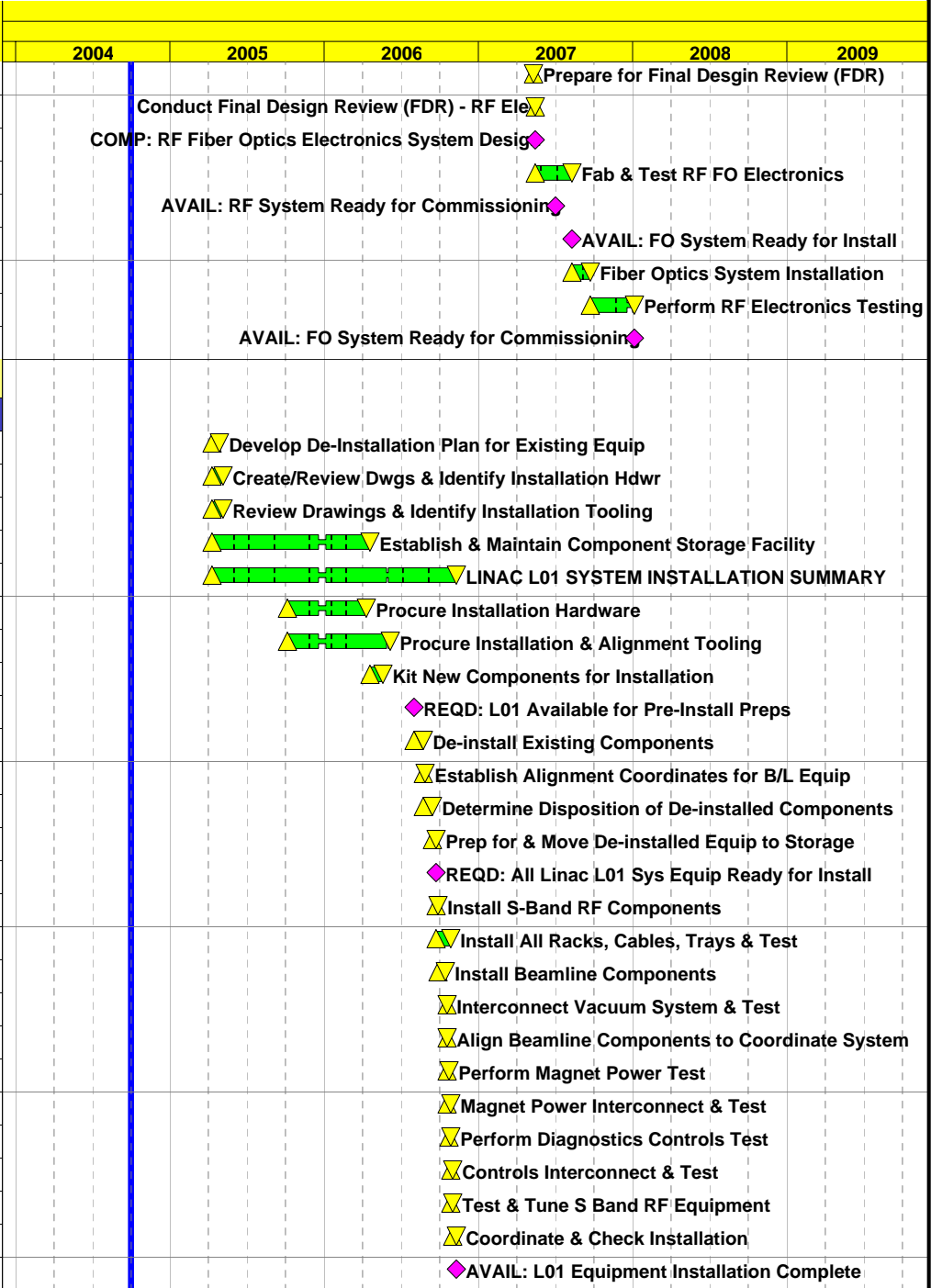
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LN06070816	Prepare for Final Desgin Review (FDR)	2	10MAY07	11MAY07
LN06070818	Conduct Final Design Review (FDR) - RF Elec	1	14MAY07	14MAY07
LN06070820	COMP: RF Fiber Optics Electronics System Design	0		14MAY07
LN06070828	Fab & Test RF FO Electronics	60	15MAY07	08AUG07
LN06070922	AVAIL: RF System Ready for Commissioning	0		02JUL07
LN06070829	AVAIL: FO System Ready for Install	0		08AUG07
LN06070832	Fiber Optics System Installation	30	09AUG07	20SEP07
LN06070836	Perform RF Electronics Testing	60	21SEP07	02JAN08
LN06070837	AVAIL: FO System Ready for Commissioning	0		02JAN08

1.03.07 Linac Installation & Alignment

1.03.07.01 Linac L01 System Installation & Alignment

LN07010035	Develop De-Installation Plan for Existing Equip	15	08APR05	28APR05
LN07010010	Create/Review Dwgs & Identify Installation Hdwr	20	08APR05	05MAY05
LN07010020	Review Drawings & Identify Installation Tooling	20	08APR05	05MAY05
LN07010000	Establish & Maintain Component Storage Facility	250	08APR05	18APR06
LN0701	LINAC L01 SYSTEM INSTALLATION SUMMARY	393	08APR05	08NOV06
LN07010015	Procure Installation Hardware	120	03OCT05	07APR06
LN07010025	Procure Installation & Alignment Tooling	160	03OCT05	05JUN06
LN07010030	Kit New Components for Installation	20	19APR06	16MAY06
LN07010005	REQD: L01 Available for Pre-Install Preps	0		31JUL06
LN07010040	De-install Existing Components	15	01AUG06	21AUG06
LN07010055	Establish Alignment Coordinates for B/L Equip	3	22AUG06	24AUG06
LN07010045	Determine Disposition of De-installed Components	15	22AUG06	12SEP06
LN07010050	Prep for & Move De-installed Equip to Storage	5	13SEP06	19SEP06
LN07010060	REQD: All Linac L01 Sys Equip Ready for Install	0		20SEP06
LN07010200	Install S-Band RF Components	5	21SEP06	27SEP06
LN07010100	Install All Racks, Cables, Trays & Test	25	21SEP06	25OCT06
LN07010205	Install Beamline Components	12	28SEP06	13OCT06
LN07010225	Interconnect Vacuum System & Test	3	16OCT06	18OCT06
LN07010210	Align Beamline Components to Coordinate System	4	16OCT06	19OCT06
LN07010230	Perform Magnet Power Test	2	19OCT06	20OCT06
LN07010215	Magnet Power Interconnect & Test	3	20OCT06	24OCT06
LN07010235	Perform Diagnostics Controls Test	3	23OCT06	25OCT06
LN07010220	Controls Interconnect & Test	3	26OCT06	30OCT06
LN07010240	Test & Tune S Band RF Equipment	3	26OCT06	30OCT06
LN07010245	Coordinate & Check Installation	7	31OCT06	08NOV06
LN07010250	AVAIL: L01 Equipment Installation Complete	0		08NOV06



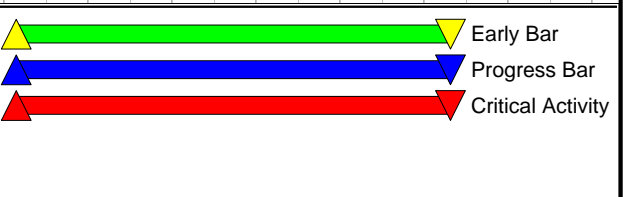
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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
1.03.07.02 Linac BC1 System Installation & Alignment										
LN07020035	Develop De-Installation Plan for Existing Equip	15	08APR05	28APR05						⚠ Develop De-Installation Plan for Existing Equip
LN07020010	Create/Review Dwgs & Identify Installation Hdwr	20	08APR05	05MAY05						⚠ Create/Review Dwgs & Identify Installation Hdwr
LN07020020	Review Drawings & Identify Installation Tooling	20	08APR05	05MAY05						⚠ Review Drawings & Identify Installation Tooling
LN07020000	Establish & Maintain Component Storage Facility	250	08APR05	18APR06						⚠ Establish & Maintain Component Storage Facility
LN0702	LINAC BC1 SYSTEM INSTALLATION SUMMARY	433	08APR05	23JAN07						⚠ LINAC BC1 SYSTEM INSTALLATION SUMMARY
LN07020245	Install X-Band RF Components-Gallery	70	03OCT05	26JAN06						⚠ Install X-Band RF Components-Gallery
LN07020015	Procure Installation Hardware	120	03OCT05	07APR06						⚠ Procure Installation Hardware
LN07020025	Procure Installation Tooling	160	03OCT05	05JUN06						⚠ Procure Installation Tooling
LN07020030	Kit New Components for Installation	20	19APR06	16MAY06						⚠ Kit New Components for Installation
LN07020207	Install Subbooster	10	20JUN06	03JUL06						⚠ Install Subbooster
LN07020005	REQD: BC1 Available for Pre-Install Preps	0		31JUL06						◆ REQD: BC1 Available for Pre-Install Preps
LN07020040	De-install Existing Components	15	01AUG06	21AUG06						⚠ De-install Existing Components
LN07020055	Establish Alignment Coordinates for B/L Equip	3	22AUG06	24AUG06						⚠ Establish Alignment Coordinates for B/L Equip
LN07020246	Install X-Band RF Components-Tunnel	10	22AUG06	05SEP06						⚠ Install X-Band RF Components-Tunnel
LN07020045	Determine Disposition of De-installed Components	15	22AUG06	12SEP06						⚠ Determine Disposition of De-installed Components
LN07020050	Prep for & Move De-installed Equip to Storage	5	13SEP06	19SEP06						⚠ Prep for & Move De-installed Equip to Storage
LN07020060	REQD: All Linac BC1 Sys Equip Ready for Install	0		20SEP06						◆ REQD: All Linac BC1 Sys Equip Ready for Install
LN07020200	Install S-Band RF Components	5	21SEP06	27SEP06						⚠ Install S-Band RF Components
LN07020100	Install All Racks, Cables, Trays & Test	25	21SEP06*	25OCT06						⚠ Install All Racks, Cables, Trays & Test
LN07020205	Install Beamline Components	15	28SEP06	18OCT06						⚠ Install Beamline Components
LN07020260	AVAIL: BC1 Equipment Installation Complete	0		29SEP06						◆ AVAIL: BC1 Equipment Installation Complete
LN07020210	Align Beamline Components to Coordinate System	4	19OCT06	24OCT06						⚠ Align Beamline Components to Coordinate System
LN07020215	Magnet Power Interconnect & Test	3	25OCT06	27OCT06						⚠ Magnet Power Interconnect & Test
LN07020220	Controls Interconnect & Test	3	30OCT06	01NOV06						⚠ Controls Interconnect & Test
LN07020225	Interconnect Vacuum System & Test	3	02NOV06	06NOV06						⚠ Interconnect Vacuum System & Test
LN07020230	Perform Magnet Power Test	2	07NOV06	08NOV06						⚠ Perform Magnet Power Test
LN07020235	Perform Diagnostics Controls Test	3	09NOV06	13NOV06						⚠ Perform Diagnostics Controls Test
LN07020256	Install X-Band RF Components-Gallery	10	13NOV06	28NOV06						⚠ Install X-Band RF Components-Gallery
LN07020240	Test & Tune S Band RF Equipment	3	14NOV06	16NOV06						⚠ Test & Tune S Band RF Equipment
LN07020241	AVAIL: In-tunnel Installation Completed	3	17NOV06	21NOV06						⚠ AVAIL: In-tunnel Installation Completed
LN07020250	Test & Tune X Band RF Equipment	20	29NOV06	10JAN07						⚠ Test & Tune X Band RF Equipment
LN07020255	Coordinate & Check Installation	8	11JAN07	23JAN07						⚠ Coordinate & Check Installation
1.03.07.03 Linac L02 System Installation & Alignment										
LN07030035	Develop De-Installation Plan for Existing Equip	15	10APR06	28APR06						⚠ Develop De-Installation Plan for Existing Equip
LN07030010	Create/Review Dwgs & Identify Installation Hdwr	20	10APR06	05MAY06						⚠ Create/Review Dwgs & Identify Installation Hdwr
LN07030020	Review Drawings & Identify Installation Tooling	20	10APR06	05MAY06						⚠ Review Drawings & Identify Installation Tooling

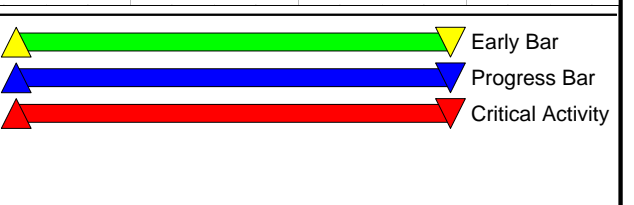
Start Date 01JUN01
Finish Date 31MAR09
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**LCLS
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Linac

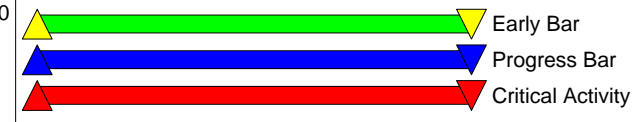
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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
LN07030000	Establish & Maintain Component Storage Facility	200	10APR06	06FEB07				Establish & Maintain Component Storage Facility		
LN0703	LINAC L02 SYSTEM INSTALLATION SUMMARY	413	10APR06	10DEC07				LINAC L02 SYSTEM INSTALLATION SUMMARY		
LN07030015	Procure Installation Hardware	200	08MAY06	07MAR07				Procure Installation Hardware		
LN07030025	Procure Installation Tooling	200	08MAY06	07MAR07				Procure Installation Tooling		
LN07030030	Kit New Components for Installation	20	08MAR07	04APR07				Kit New Components for Installation		
LN07030005	REQD: L02 Available for Pre-Install Preps	0		31AUG07				REQD: L02 Available for Pre-Install Preps		
LN07030040	De-install Existing Components	15	04SEP07	24SEP07				De-install Existing Components		
LN07030055	Establish Alignment Coordinates for B/L Equip	3	25SEP07	27SEP07				Establish Alignment Coordinates for B/L Equip		
LN07030045	Determine Disposition of De-installed Components	15	25SEP07	15OCT07				Determine Disposition of De-installed Components		
LN07030050	Prep for & Move De-installed Equip to Storage	5	16OCT07	22OCT07				Prep for & Move De-installed Equip to Storage		
LN07030060	REQD: All Linac L02 Sys Equip Ready for Install	0		18OCT07				REQD: All Linac L02 Sys Equip Ready for Install		
LN07030200	Install S-Band RF Components	5	19OCT07	25OCT07				Install S-Band RF Components		
LN07030100	Install All Racks, Cables, Trays & Test	25	19OCT07	26NOV07				Install All Racks, Cables, Trays & Test		
LN07030205	Install Beamline Components	11	26OCT07	09NOV07				Install Beamline Components		
LN07030225	Interconnect Vacuum System & Test	3	12NOV07	14NOV07				Interconnect Vacuum System & Test		
LN07030210	Align Beamline Components to Coordinate System	4	12NOV07	15NOV07				Align Beamline Components to Coordinate System		
LN07030230	Perform Magnet Power Test	2	15NOV07	16NOV07				Perform Magnet Power Test		
LN07030215	Magnet Power Interconnect & Test	3	16NOV07	20NOV07				Magnet Power Interconnect & Test		
LN07030235	Perform Diagnostics Controls Test	3	19NOV07	21NOV07				Perform Diagnostics Controls Test		
LN07030240	Test & Tune S Band RF Equipment	3	26NOV07	28NOV07				Test & Tune S Band RF Equipment		
LN07030220	Controls Interconnect & Test	3	27NOV07	29NOV07				Controls Interconnect & Test		
LN07030245	Coordinate & Check Installation	8	29NOV07	10DEC07				Coordinate & Check Installation		
LN07030250	AVAIL: L02 Equipment Installation Complete	0		10DEC07				AVAIL: L02 Equipment Installation Complete		
1.03.07.04 Linac BC2 System Installation & Alignment										
LN07040035	Develop De-Installation Plan for Existing Equip	15	10APR06	28APR06				Develop De-Installation Plan for Existing Equip		
LN07040010	Create/Review Dwgs & Identify Installation Hdw	20	10APR06	05MAY06				Create/Review Dwgs & Identify Installation Hdw		
LN07040020	Review Drawings & Identify Installation Tooling	20	10APR06	05MAY06				Review Drawings & Identify Installation Tooling		
LN07040000	Establish & Maintain Component Storage Facility	200	10APR06	06FEB07				Establish & Maintain Component Storage Facility		
LN0704	LINAC BC2 SYSTEM INSTALLATION SUMMARY	399	10APR06	16NOV07				LINAC BC2 SYSTEM INSTALLATION SUMMARY		
LN07040015	Procure Installation Hardware	200	08MAY06	07MAR07				Procure Installation Hardware		
LN07040025	Procure Installation Tooling	200	08MAY06	07MAR07				Procure Installation Tooling		
LN07040030	Kit New Components for Installation	20	08MAR07	04APR07				Kit New Components for Installation		
LN07040005	REQD: BC2 Available for Pre-Install Preps	0		31AUG07				REQD: BC2 Available for Pre-Install Preps		
LN07040060	REQD: All Linac BC2 Sys Equip Ready for Install	0		31AUG07				REQD: All Linac BC2 Sys Equip Ready for Install		
LN07040040	De-install Existing Components	15	04SEP07	24SEP07				De-install Existing Components		
LN07040055	Establish Alignment Coordinates for B/L Equip	3	25SEP07	27SEP07				Establish Alignment Coordinates for B/L Equip		
LN07040045	Determine Disposition of De-installed Components	15	25SEP07	15OCT07				Determine Disposition of De-installed Components		

**LCLS
INTEGRATED SCHEDULE**

Linac

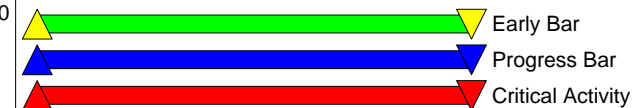


Start Date 01JUN01
 Finish Date 31MAR09
 Data Date 01OCT04
 Run Date 29APR05 13:41

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish							
					2004	2005	2006	2007	2008	2009	
LN07040200	Install S-Band RF Components	5	28SEP07	04OCT07					Install S-Band RF Components		
LN07040100	Install All Racks, Cables, Trays & Test	25	28SEP07	01NOV07					Install All Racks, Cables, Trays & Test		
LN07040205	Install Beamline Components	12	05OCT07	22OCT07					Install Beamline Components		
LN07040050	Prep for & Move De-installed Equip to Storage	5	16OCT07	22OCT07					Prep for & Move De-installed Equip to Storage		
LN07040225	Interconnect Vacuum System & Test	3	23OCT07	25OCT07					Interconnect Vacuum System & Test		
LN07040210	Align Beamline Components to Coordinate System	4	23OCT07	26OCT07					Align Beamline Components to Coordinate System		
LN07040230	Perform Magnet Power Test	2	26OCT07	29OCT07					Perform Magnet Power Test		
LN07040215	Magnet Power Interconnect & Test	3	29OCT07	31OCT07					Magnet Power Interconnect & Test		
LN07040235	Perform Diagnostics Controls Test	3	30OCT07	01NOV07					Perform Diagnostics Controls Test		
LN07040220	Controls Interconnect & Test	3	02NOV07	06NOV07					Controls Interconnect & Test		
LN07040240	Test & Tune S Band RF Equipment	3	02NOV07	06NOV07					Test & Tune S Band RF Equipment		
LN07040245	Coordinate & Check Installation	8	07NOV07	16NOV07					Coordinate & Check Installation		
LN07040250	AVAIL: BC2 Equipment Installation Complete	0		16NOV07					AVAIL: BC2 Equipment Installation Complete		
1.03.07.05 Linac L03 System Installation & Alignment											
LN07050035	Develop De-Installation Plan for Existing Equip	15	10APR06	28APR06					Develop De-Installation Plan for Existing Equip		
LN07050010	Create/Review Dwgs & Identify Installation Hdwr	20	10APR06	05MAY06					Create/Review Dwgs & Identify Installation Hdwr		
LN07050020	Review Drawings & Identify Installation Tooling	20	10APR06	05MAY06					Review Drawings & Identify Installation Tooling		
LN07050000	Establish & Maintain Component Storage Facility	200	10APR06	06FEB07					Establish & Maintain Component Storage Facility		
LN0705	LINAC L03 INSTALLATION SUMMARY - 25,27,28,29	407	10APR06	30NOV07					LINAC L03 INSTALLATION SUMMARY		
LN07050015	Procure Installation Hardware	200	08MAY06	07MAR07					Procure Installation Hardware		
LN07050025	Procure Installation Tooling	200	08MAY06	07MAR07					Procure Installation Tooling		
LN07050030	Kit New Components for Installation	20	08MAR07	04APR07					Kit New Components for Installation		
LN07050005	REQD: L03 Available for Pre-Install Preps	0		31AUG07					REQD: L03 Available for Pre-Install Preps		
LN07050060	REQD: All Linac L03 Sys Equip Ready for Install	0		31AUG07					REQD: All Linac L03 Sys Equip Ready for Install		
LN07050055	Establish Alignment Coordinates for B/L Equip	6	04SEP07	11SEP07					Establish Alignment Coordinates for B/L Equip		
LN07050040	De-install Existing Components	15	04SEP07	24SEP07					De-install Existing Components		
LN07050045	Determine Disposition of De-installed Components	3	11SEP07	13SEP07					Determine Disposition of De-installed Components		
LN07050100	Install All Racks, Cables, Trays & Test	25	12SEP07	16OCT07					Install All Racks, Cables, Trays & Test		
LN07050050	Prep for & Move De-installed Equip to Storage	5	14SEP07	20SEP07					Prep for & Move De-installed Equip to Storage		
LN07050200	Install S-Band RF Components	10	25SEP07	08OCT07					Install S-Band RF Components		
LN07050205	Install Beamline Components	15	25SEP07	15OCT07					Install Beamline Components		
LN07050210	Align Beamline Components to Coordinate System	8	16OCT07	25OCT07					Align Beamline Components to Coordinate System		
LN07050215	Magnet Power Interconnect & Test	3	26OCT07	30OCT07					Magnet Power Interconnect & Test		
LN07050220	Controls Interconnect & Test	6	31OCT07	07NOV07					Controls Interconnect & Test		
LN07050225	Interconnect Vacuum System & Test	6	31OCT07	07NOV07					Interconnect Vacuum System & Test		
LN07050230	Perform Magnet Power Test	2	08NOV07	09NOV07					Perform Magnet Power Test		
LN07050235	Perform Diagnostics Controls Test	6	12NOV07	19NOV07					Perform Diagnostics Controls Test		

**LCLS
INTEGRATED SCHEDULE**

Linac



Start Date 01JUN01
 Finish Date 31MAR09
 Data Date 01OCT04
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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Year					
					2004	2005	2006	2007	2008	2009
LN07050240	Test & Tune S Band RF Equipment	2	20NOV07	21NOV07						✖ Test & Tune S Band RF Equipment
LN07050245	Coordinate & Check Installation	5	26NOV07	30NOV07						✖ Coordinate & Check Installation
LN07050250	AVAIL: L03 Equipment Installation Complete	0		30NOV07						◆ AVAIL: L03 Equipment Installation Complete
1.03.07.06 Linac LTU System Installation & Alignment										
LN07060035	Develop De-Installation Plan for Existing Equip	15	10APR06	28APR06						▲ Develop De-Installation Plan for Existing Equip
LN07060010	Create/Review Dwgs & Identify Installation Hdwr	20	10APR06	05MAY06						▲ Create/Review Dwgs & Identify Installation Hdwr
LN07060020	Review Drawings & Identify Installation Tooling	20	10APR06	05MAY06						▲ Review Drawings & Identify Installation Tooling
LN07060000	Establish & Maintain Component Storage Facility	250	10APR06	18APR07						▲ Establish & Maintain Component Storage Facility
LN0706	LINAC LTU SYSTEM INSTALLATION SUMMARY	464	10APR06	10MAR08						▲ LINAC LTU SYSTEM INSTALLATION SUMMARY
LN07060040	REQD: FFTB Ready for Equip removal	0		31MAY06						◆ REQD: FFTB Ready for Equip removal
LN07060045	De-install Existing Components	15	01JUN06	21JUN06						▲ De-install Existing Components
LN07060050	Determine Disposition of De-installed Components	15	22JUN06	13JUL06						▲ Determine Disposition of De-installed Components
LN07060055	Prep for & Move De-installed Equip to Storage	5	14JUL06	20JUL06						▲ Prep for & Move De-installed Equip to Storage
LN07060060	COMP: FFTB Equip Removal Comp Ready for CF	0		20JUL06						◆ COMP: FFTB Equip Removal Comp Ready for CF
LN07060015	Procure Installation Hardware	250	03OCT06	11OCT07						▲ Procure Installation Hardware
LN07060025	Procure Installation Tooling	250	03OCT06	11OCT07						▲ Procure Installation Tooling
LN07060030	Kit New Components for Installation	20	12OCT07	08NOV07						▲ Kit New Components for Installation
LN07060005	REQD: LTU Available for Pre-Install Preps	0		03DEC07						◆ REQD: LTU Available for Pre-Install Preps
LN07060065	Establish Alignment Coordinates for B/L Equip	3	04DEC07	06DEC07						▲ Establish Alignment Coordinates for B/L Equip
LN07060070	REQD: All Linac LTU Sys Equip Ready for Install	0		04JAN08						◆ REQD: All Linac LTU Sys Equip Ready for Install
LN07060200	Install Beamline Components	15	07JAN08	28JAN08						▲ Install Beamline Components
LN07060100	Install All Racks, Cables, Trays & Test	25	07JAN08	11FEB08						▲ Install All Racks, Cables, Trays & Test
LN07060210	Align Beamline Components to Coordinate System	4	29JAN08	01FEB08						▲ Align Beamline Components to Coordinate System
LN07060215	Magnet Power Interconnect & Test	3	04FEB08	06FEB08						▲ Magnet Power Interconnect & Test
LN07060220	Controls Interconnect & Test	3	12FEB08	14FEB08						▲ Controls Interconnect & Test
LN07060225	Interconnect Vacuum System & Test	3	15FEB08	20FEB08						▲ Interconnect Vacuum System & Test
LN07060230	Perform Magnet Power Test	2	21FEB08	22FEB08						▲ Perform Magnet Power Test
LN07060235	Perform Diagnostics Controls Test	3	25FEB08	27FEB08						▲ Perform Diagnostics Controls Test
LN07060245	Coordinate & Check Installation	8	28FEB08	10MAR08						▲ Coordinate & Check Installation
LN07060250	AVAIL: LTU Equipment Installation Complete	0		10MAR08						◆ AVAIL: LTU Equipment Installation Complete
1.03.07.07 Linac E-Dump System Installation & Alignment										
LN07070010	Create/Review Dwgs & Identify Installation Hdwr	20	03OCT05	28OCT05						▲ Create/Review Dwgs & Identify Installation Hdwr
LN07070020	Review Drawings & Identify Installation Tooling	20	03OCT05	28OCT05						▲ Review Drawings & Identify Installation Tooling
LN07070000	Establish & Maintain Component Storage Facility	250	03OCT05	11OCT06						▲ Establish & Maintain Component Storage Facility
LN0707	LINAC E-DUMP SYSTEM INSTALLATION SUMMARY	575	03OCT05	26FEB08						▲ LINAC E-DUMP SYSTEM INSTALLATION SUMMARY
LN07070015	Procure Installation Hardware	250	03OCT06	11OCT07						▲ Procure Installation Hardware
LN07070025	Procure Installation Tooling	250	03OCT06	11OCT07						▲ Procure Installation Tooling

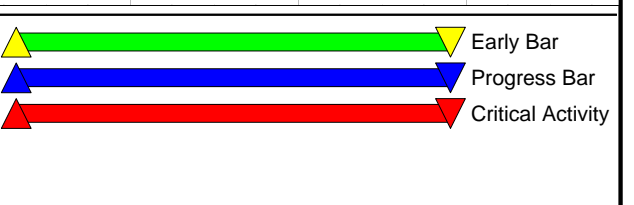
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**LCLS
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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	2004 2005 2006 2007 2008 2009					
					LN07070030	Kit New Components for Installation	20	12OCT07	08NOV07	
LN07070035	REQD: All E-Dump System Equip Avail for Install	0		21NOV07						
LN07070005	REQD: E-Dump Available for Pre-Install Preps	0		30NOV07						
LN07070040	Establish Alignment Coordinates for B/L Equip	3	03DEC07	05DEC07						
LN07070100	Install All Racks, Cables, Trays & Test	25	06DEC07	28JAN08						
LN07070200	Install Beamline Components	15	07JAN08	28JAN08						
LN07070210	Align Beamline Components to Coordinate System	4	29JAN08	01FEB08						
LN07070215	Magnet Power Interconnect & Test	3	04FEB08	06FEB08						
LN07070220	Controls Interconnect & Test	3	04FEB08	06FEB08						
LN07070225	Interconnect Vacuum System & Test	3	04FEB08	06FEB08						
LN07070230	Perform Magnet Power Test	2	07FEB08	08FEB08						
LN07070235	Perform Diagnostics Controls Test	3	11FEB08	13FEB08						
LN07070245	Coordinate & Check Installation	8	14FEB08	26FEB08						
LN07070250	AVAIL: E-Dump Equipment Installation Complete	0		26FEB08						

2 LCLS PROJECT - R&D, SPARES, COMMISSIONING

2.03 LINAC SYSTEM (OPC)

2.03.01 Linac System Mgmt & Integration

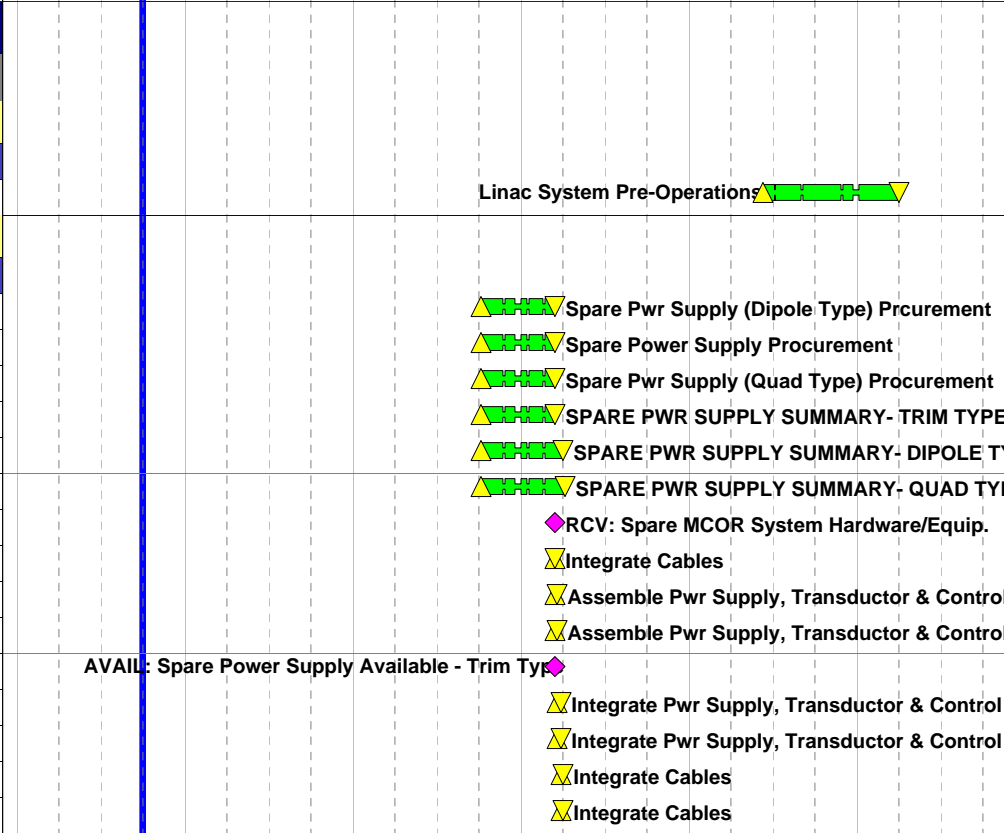
2.03.01.01 Linac System Mgmt & Integration

LNOPS_0000	Linac System Pre-Operations	198	09JUN08*	30MAR09
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2.03.02 Linac Controls & Power Conversion Subsystem

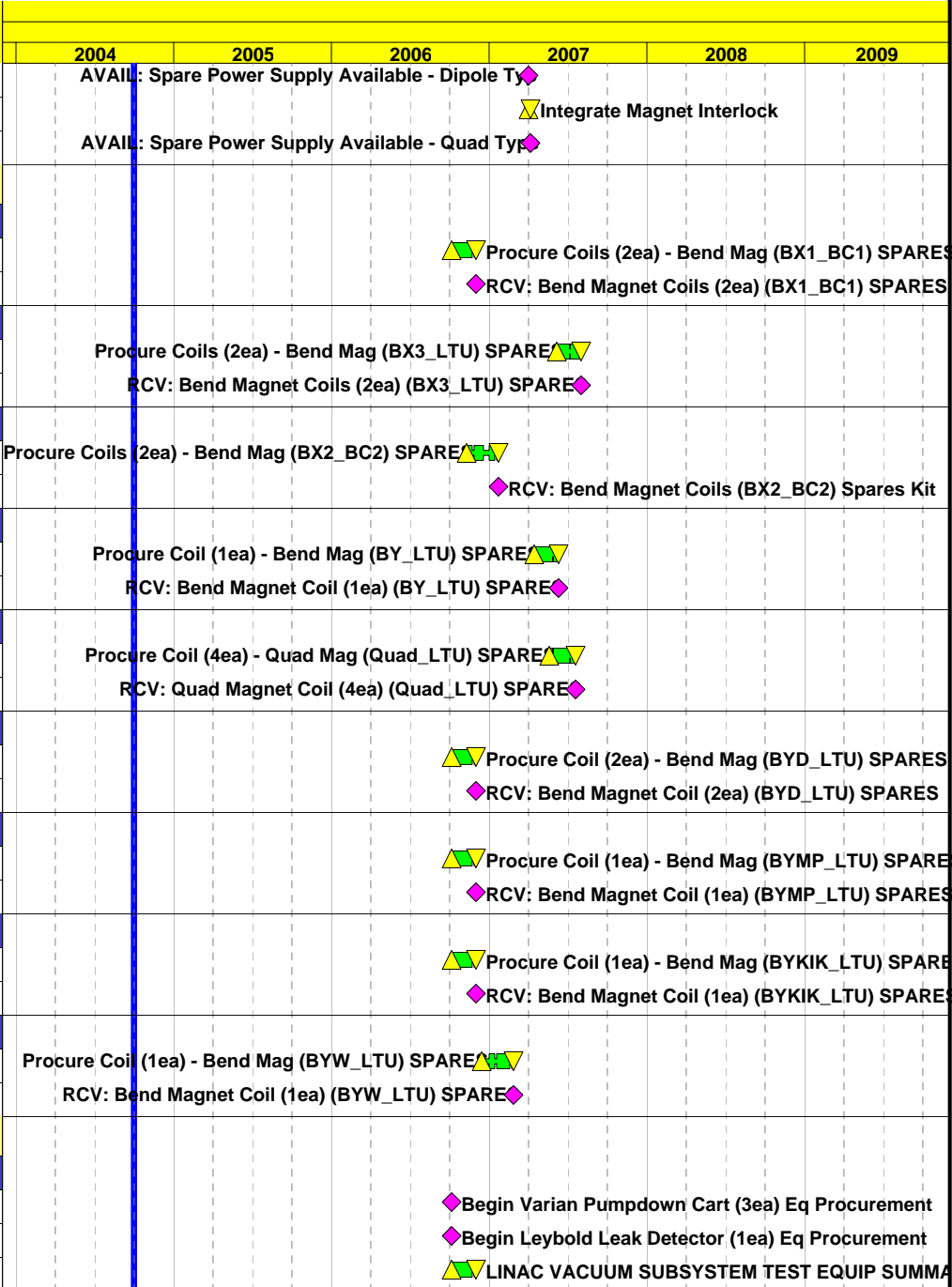
2.03.02.04 Power Conversion

LN02043621	Spare Pwr Supply (Dipole Type) Procurement	100	03OCT06	12MAR07
LN02045225	Spare Power Supply Procurement	100	03OCT06*	12MAR07
LN02045317	Spare Pwr Supply (Quad Type) Procurement	100	03OCT06*	12MAR07
LN020452	SPARE PWR SUPPLY SUMMARY- TRIM TYPE (1ea)	102	03OCT06	14MAR07
LN020436	SPARE PWR SUPPLY SUMMARY- DIPOLE TYPE (1ea)	115	03OCT06	02APR07
LN020453	SPARE PWR SUPPLY SUMMARY- QUAD TYPE (1ea)	116	03OCT06	03APR07
LN02045226	RCV: Spare MCOR System Hardware/Equip.	0		12MAR07
LN02045238	Integrate Cables	2	13MAR07	14MAR07
LN02043622	Assemble Pwr Supply, Transductor & Control	6	13MAR07	20MAR07
LN02045318	Assemble Pwr Supply, Transductor & Control	6	13MAR07	20MAR07
LN02045241	AVAIL: Spare Power Supply Available - Trim Type	0		14MAR07
LN02043628	Integrate Pwr Supply, Transductor & Control	7	21MAR07	29MAR07
LN02045320	Integrate Pwr Supply, Transductor & Control	7	21MAR07	29MAR07
LN02043630	Integrate Cables	2	30MAR07	02APR07
LN02045322	Integrate Cables	2	30MAR07	02APR07



Start Date	01JUN01
Finish Date	31MAR09
Data Date	01OCT04
Run Date	29APR05 13:41

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
LN02043633	AVAIL: Spare Power Supply Available - Dipole Typ	0		02APR07
LN02045324	Integrate Magnet Interlock	1	03APR07	03APR07
LN02045326	AVAIL: Spare Power Supply Available - Quad Type	0		03APR07
2.03.03 Linac Magnets & Supports				
2.03.03.01 Bend Magnet (BX1_BC1)				
LN03010500	Procure Coils (2ea) - Bend Mag (BX1_BC1) SPARES	40	03OCT06	29NOV06
LN03010550	RCV: Bend Magnet Coils (2ea) (BX1_BC1) SPARES	0		29NOV06
2.03.03.02 Bend Magnet (BX3_LTU)				
LN03020500	Procure Coils (2ea) - Bend Mag (BX3_LTU) SPARES	40	05JUN07	31JUL07
LN03020550	RCV: Bend Magnet Coils (2ea) (BX3_LTU) SPARES	0		31JUL07
2.03.03.03 Bend Magnet (BX2_BC2)				
LN03030500	Procure Coils (2ea) - Bend Mag (BX2_BC2) SPARES	40	07NOV06	19JAN07
LN03030550	RCV: Bend Magnet Coils (BX2_BC2) Spares Kit	0		19JAN07
2.03.03.04 Bend Magnet (BY_LTU)				
LN03040500	Procure Coil (1ea) - Bend Mag (BY_LTU) SPARES	40	13APR07	08JUN07
LN03040550	RCV: Bend Magnet Coil (1ea) (BY_LTU) SPARES	0		08JUN07
2.03.03.05 Quad Magnet (Quad_LTU)				
LN03050500	Procure Coil (4ea) - Quad Mag (Quad_LTU) SPARES	40	18MAY07	16JUL07
LN03050550	RCV: Quad Magnet Coil (4ea) (Quad_LTU) SPARES	0		16JUL07
2.03.03.09 Bend Magnet (BYD_LTU)				
LN03090500	Procure Coil (2ea) - Bend Mag (BYD_LTU) SPARES	40	03OCT06	29NOV06
LN03090550	RCV: Bend Magnet Coil (2ea) (BYD_LTU) SPARES	0		29NOV06
2.03.03.11 Bend Magnet (BYMP_LTU)				
LN03110500	Procure Coil (1ea) - Bend Mag (BYMP_LTU) SPARES	40	03OCT06	29NOV06
LN03110550	RCV: Bend Magnet Coil (1ea) (BYMP_LTU) SPARES	0		29NOV06
2.03.03.12 Bend Magnet (BYKIK_LTU)				
LN03120500	Procure Coil (1ea) - Bend Mag (BYKIK_LTU) SPARES	40	03OCT06	29NOV06
LN03120550	RCV: Bend Magnet Coil (1ea) (BYKIK_LTU) SPARES	0		29NOV06
2.03.03.13 Bend Magnet (BYW_LTU)				
LN03130500	Procure Coil (1ea) - Bend Mag (BYW_LTU) SPARES	40	13DEC06	23FEB07
LN03130550	RCV: Bend Magnet Coil (1ea) (BYW_LTU) SPARES	0		23FEB07
2.03.04 Linac Vacuum Subsystem				
2.03.04.01 Linac Vacuum Subsystem Operations Equip				
LN04010000	Begin Varian Pumpdown Cart (3ea) Eq Procurement	0	03OCT06	
LN04010100	Begin Leybold Leak Detector (1ea) Eq Procurement	0	03OCT06	
LN0401	LINAC VACUUM SUBSYSTEM TEST EQUIP	40	03OCT06	29NOV06



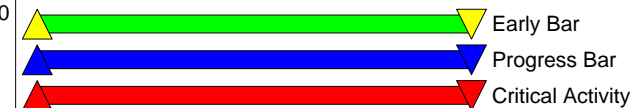
Start Date 01JUN01
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**LCLS
 INTEGRATED SCHEDULE**

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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish							
					2004	2005	2006	2007	2008	2009	
LN04010005	Procure Basic Unit, V70LP Turbo, MSP5366	40	03OCT06	29NOV06					Procure Basic Unit, V70LP Turbo, MSP5366		
LN04010010	Procure Dry Scroll Pump, MSP1001	40	03OCT06	29NOV06					Procure Dry Scroll Pump, MSP1001		
LN04010015	Procure Multigauge Controller, MSP0125	40	03OCT06	29NOV06					Procure Multigauge Controller, MSP0125		
LN04010020	Procure Thermocouple Board, MSP0126	40	03OCT06	29NOV06					Procure Thermocouple Board, MSP0126		
LN04010025	ProcureCold Cathode Board, MSPL9066	40	03OCT06	29NOV06					ProcureCold Cathode Board, MSPL9066		
LN04010030	Procure Setpoint Board, MSP 0130	40	03OCT06	29NOV06					Procure Setpoint Board, MSP 0130		
LN04010035	Procure Remote Input/Output Board, MSPL8324	40	03OCT06	29NOV06					Procure Remote Input/Output Board, MSPL8324		
LN04010040	Procure Standard RS 485/422 O/I Board, MSPL8490	40	03OCT06	29NOV06					Procure Standard RS 485/422 O/I Board, MSPL8490		
LN04010045	Procure Inverted Magnetron CC Gauge, MSPL9062	40	03OCT06	29NOV06					Procure Inverted Magnetron CC Gauge, MSPL9062		
LN04010050	Procure Gauge Tube, Thrmcpl, 2 3/4 CFF, MSP5316	40	03OCT06	29NOV06					Procure Gauge Tube, Thrmcpl, 2 3/4 CFF, MSP5316		
LN04010055	Procure Emergency Vent, MSP0132	40	03OCT06	29NOV06					Procure Emergency Vent, MSP0132		
LN04010060	Procure Forced Aircooling, MSP0136	40	03OCT06	29NOV06					Procure Forced Aircooling, MSP0136		
LN04010105	Procure Misc Leybold Leak Detector Equip	40	03OCT06	29NOV06					Procure Misc Leybold Leak Detector Equip		
LN04010065	RCV: Equip for Varian Pumpdown Carts (3ea)	0		29NOV06					RCV: Equip for Varian Pumpdown Carts (3ea)		
LN04010110	RCV: Equip for Leybold Leak Detector (1ea)	0		29NOV06					RCV: Equip for Leybold Leak Detector (1ea)		
2.03.04.02 Linac Beamline Vacuum System											
LN04020400	Procure Materials for B/L Vac Sys Spares Kit	20	03OCT06	30OCT06					Procure Materials for B/L Vac Sys Spares Kit		
LN04020405	RCV: Materials for B/L Vac Sys Spares Kit	0		30OCT06					RCV: Materials for B/L Vac Sys Spares Kit		
2.03.04.03 BC1 Vacuum System											
LN04030400	Procure Materials for BC1 Vac Sys Spares Kit	20	03OCT06	30OCT06					Procure Materials for BC1 Vac Sys Spares Kit		
LN04030405	RCV: Materials for BC1 Vac Sys Spares Kit	0		30OCT06					RCV: Materials for BC1 Vac Sys Spares Kit		
2.03.04.04 BC2 Vacuum System											
LN04040400	Procure Materials for BC2 Vac Sys Spares Kit	20	03OCT06	30OCT06					Procure Materials for BC2 Vac Sys Spares Kit		
LN04040405	RCV: Materials for BC2 Vac Sys Spares Kit	0		30OCT06					RCV: Materials for BC2 Vac Sys Spares Kit		
2.03.04.05 Linac to Undulator (LTU) Vacuum System											
LN04050400	Procure Materials for LTU Vac Sys Spares Kit	20	03OCT06	30OCT06					Procure Materials for LTU Vac Sys Spares Kit		
LN04050405	RCV: Materials for LTU Vac Sys Spares Kit	0		30OCT06					RCV: Materials for LTU Vac Sys Spares Kit		
2.03.04.06 Dumpline Vacuum System											
LN04060400	Procure Materials for D/L Vac Sys Spares Kit	20	03OCT06	30OCT06					Procure Materials for D/L Vac Sys Spares Kit		
LN04060405	RCV: Materials for D/L Vac Sys Spares Kit	0		30OCT06					RCV: Materials for D/L Vac Sys Spares Kit		
2.03.05 Linac Electron Diagnostics											
2.03.05.01 Wire Scanners											
LN05010425	Procure Misc Materials - Wire Scann - (2) SPARES	175	03OCT06	26JUN07	Procure Misc Materials - Wire Scann - (2) SPARE						
LN05010405	Vendor Fab 1st Lot (2) Spares	20	04OCT06	31OCT06					Vendor Fab 1st Lot (2) Spares		
LN05010410	RCV: 1st Lot from Vendor (2) Spares	0	01NOV06	31OCT06					RCV: 1st Lot from Vendor (2) Spares		
LN05010415	Vendor Fab Remaining Lot (2) Spares	20	01NOV06	30NOV06					Vendor Fab Remaining Lot (2) Spares		
LN05010420	RCV: Remaining from Vendor (2) Spares	0	01DEC06	30NOV06					RCV: Remaining from Vendor (2) Spares		



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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish							
					2004	2005	2006	2007	2008	2009	
LN05010430	Component Fab & Assembly - Wire Scanr (2) Spares	80	01OCT08*	04FEB09							Component Fab & Assembly - Wire Scanr (2) Spares
LN05010445	Perform QC / Metrology (2ea) Spares	4	05FEB09	10FEB09							Perform QC / Metrology (2ea) Spares
LN05010450	Perform Functional Testing - Wire Scn (2) Spares	2	11FEB09	12FEB09							Perform Functional Testing - Wire Scn (2) Spares
LN05010455	Collect Component Performance Data (2ea) Spares	5	13FEB09	19FEB09							Collect Component Performance Data (2ea) Spares
LN05010460	Load Component Data Base (2ea) Spares	5	20FEB09	26FEB09							Load Component Data Base (2ea) Spares
LN05010465	Post Process & Test (2ea) Spares	5	27FEB09	05MAR09							Post Process & Test (2ea) Spares
LN05010470	AVAIL: Wire Scanners (2ea) Spares	0		05MAR09							AVAIL: Wire Scanners (2ea) Spares
2.03.05.02 Beam Position Monitors											
LN05020800	Procure Component Material - BPMs - (1) SPARE	40	03OCT06	29NOV06							Procure Component Material - BPMs - (1) SPARE
LN05020600	Procure Component Material - RF BPM - (2) SPARES	60	03OCT06	11JAN07							Procure Component Material - RF BPM - (2) SPARES
LN05020500	Procure Component Material - BPMs - (2) SPARES	100	03OCT06	12MAR07							Procure Component Material - BPMs - (2) SPARES
LN05020805	Component Fab & Assembly - BPMs (1ea) Spare	120	30NOV06	05JUN07							Component Fab & Assembly - BPMs (1ea) Spare
LN05020605	Component Fab & Assembly - RFBPMs (2ea) Spares	80	12JAN07	07MAY07							Component Fab & Assembly - RFBPMs (2ea) Spares
LN05020700	Procure Component Material - BPMs - (2) SPARES	40	01MAR07	25APR07							Procure Component Material - BPMs - (2) SPARES
LN05020505	Component Fab & Assembly - BPMs (2ea) Spares	120	13MAR07	29AUG07							Component Fab & Assembly - BPMs (2ea) Spares
LN05020705	Component Fab & Assembly - BPMs (2ea) Spares	40	26APR07	21JUN07							Component Fab & Assembly - BPMs (2ea) Spares
LN05020610	Component Fab & Assembly - RF BPMs	80	08MAY07	29AUG07							Component Fab & Assembly - RF BPMs
LN05020820	Perform QC / Metrology (1ea) Spare	4	06JUN07	11JUN07							Perform QC / Metrology (1ea) Spare
LN05020825	Perform Functional Testing - BPMs (1ea) Spare	4	12JUN07	15JUN07							Perform Functional Testing - BPMs (1ea) Spare
LN05020830	Collect Component Performance Data (1ea) Spare	2	18JUN07	19JUN07							Collect Component Performance Data (1ea) Spare
LN05020835	Load Component Data Base (1ea) Spare	2	20JUN07	21JUN07							Load Component Data Base (1ea) Spare
LN05020840	Post Process & Test (1ea) Spare	4	22JUN07	27JUN07							Post Process & Test (1ea) Spare
LN05020720	Perform QC / Metrology (2ea) Spares	5	22JUN07	28JUN07							Perform QC / Metrology (2ea) Spares
LN05020725	Perform Functional Testing - BPMs (2ea) Spares	4	29JUN07	05JUL07							Perform Functional Testing - BPMs (2ea) Spares
LN05020730	Collect Component Performance Data (2ea) Spares	2	06JUL07	09JUL07							Collect Component Performance Data (2ea) Spares
LN05020735	Load Component Data Base (2ea) Spares	2	10JUL07	11JUL07							Load Component Data Base (2ea) Spares
LN05020740	Post Process & Test (2ea) Spares	10	12JUL07	25JUL07							Post Process & Test (2ea) Spares
LN05020520	Perform QC / Metrology (2ea) Spares	2	30AUG07	31AUG07							Perform QC / Metrology (2ea) Spares
LN05020615	Perform QC / Metrology (2ea) Spares	4	30AUG07	05SEP07							Perform QC / Metrology (2ea) Spares
LN05020525	Perform Functional Testing - BPMs (2ea) Spares	2	04SEP07	05SEP07							Perform Functional Testing - BPMs (2ea) Spares
LN05020620	Perform Functional Testing - RFBPMs (2ea) Spares	2	06SEP07	07SEP07							Perform Functional Testing - RFBPMs (2ea) Spares
LN05020530	Collect Component Performance Data (2ea) Spares	5	06SEP07	12SEP07							Collect Component Performance Data (2ea) Spares
LN05020625	Collect Component Performance Data (2ea) Spares	5	10SEP07	14SEP07							Collect Component Performance Data (2ea) Spares
LN05020535	Load Component Data Base (2ea) Spares	5	13SEP07	19SEP07							Load Component Data Base (2ea) Spares
LN05020630	Load Component Data Base (2ea) Spares	5	17SEP07	21SEP07							Load Component Data Base (2ea) Spares
LN05020540	Post Process & Test (2ea) Spares	5	20SEP07	26SEP07							Post Process & Test (2ea) Spares
LN05020635	Post Process & Test (2ea) Spares	5	24SEP07	28SEP07							Post Process & Test (2ea) Spares



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					2004	2005	2006	2007	2008	2009	
LN05020845	AVAIL: BPMs (2/2/2/1) Spare	0		28SEP07					◆ AVAIL: BPMs (2/2/2/1) Spare		
2.03.05.03 Toroids Beam Charge											
LN05030300	Procure Component Material - Toroid - (2) SPARES	60	03OCT06	11JAN07					▲▲▲▲▲ Procure Component Material - Toroid - (2) SPARE		
LN05030310	Component Fab & Assembly - Toroids (2ea) Spares	80	12JAN07	07MAY07	Component Fab & Assembly - Toroids (2ea) Spare						
LN05030325	Perform QC / Metrology (2ea) Spares	2	08MAY07	09MAY07					▲▲ Perform QC / Metrology (2ea) Spares		
LN05030330	Perform Functional Testing - Toroid (2ea) Spares	2	10MAY07	11MAY07	Perform Functional Testing - Toroid (2ea) Spare						
LN05030335	Collect Component Performance Data (2ea) Spares	5	14MAY07	18MAY07	Collect Component Performance Data (2ea) Spare						
LN05030340	Load Component Data Base (2ea) Spares	5	21MAY07	25MAY07					▲▲ Load Component Data Base (2ea) Spares		
LN05030345	Post Process & Test (2ea) Spares	5	29MAY07	04JUN07					▲▲ Post Process & Test (2ea) Spares		
LN05030350	AVAIL: Toroids (2ea) Spares	0		04JUN07					◆ AVAIL: Toroids (2ea) Spares		
2.03.05.04 Stoppers Tune Up Dump											
LN05040300	Procure Hardware Kit - Stoppers - SPARES	100	03OCT06	12MAR07					▲▲▲▲▲ Procure Hardware Kit - Stoppers - SPARES		
LN05040305	AVAIL: Spares Hardware Kit - Stoppers	0		12MAR07					◆ AVAIL: Spares Hardware Kit - Stoppers		
2.03.05.05 Profile Monitors											
LN05050425	Procure Component Material - Profile - (1) SPARE	40	03OCT06	29NOV06					▲▲ Procure Component Material - Profile - (1) SPARE		
LN05050405	Vendor Fab 1st Lot (1) Spare	30	04OCT06	14NOV06					▲▲ Vendor Fab 1st Lot (1) Spare		
LN05050410	RCV: 1st Lot from Vendor (1) Spare	0	15NOV06	14NOV06					▲▲ RCV: 1st Lot from Vendor (1) Spare		
LN05050415	Vendor Fab Remaining Lot (1) Spare	30	15NOV06	12JAN07					▲▲ Vendor Fab Remaining Lot (1) Spare		
LN05050420	RCV: Remaining from Vendor (1) Spare	0	16JAN07	12JAN07					▲▲ RCV: Remaining from Vendor (1) Spare		
LN05050430	Component Fab & Assembly - Profile Mon (1) Spare	40	16JAN07	13MAR07	Component Fab & Assembly - Profile Mon (1) Spar						
LN05050445	Perform QC / Metrology (1ea) Spare	10	14MAR07	27MAR07					▲▲ Perform QC / Metrology (1ea) Spare		
LN05050450	Perform Functional Testing - Profile Mo(1) Spare	20	28MAR07	24APR07	Perform Functional Testing - Profile Mo(1) Spar						
LN05050455	Collect Component Performance Data (1ea) Spare	2	25APR07	26APR07	Collect Component Performance Data (1ea) Spar						
LN05050460	Load Component Data Base (1ea) Spare	4	27APR07	02MAY07					▲▲ Load Component Data Base (1ea) Spare		
LN05050465	Post Process & Test (1ea) Spare	10	03MAY07	16MAY07					▲▲ Post Process & Test (1ea) Spare		
LN05050470	AVAIL: Profile Monitor (1ea) Spare	10	17MAY07	31MAY07					▲▲ AVAIL: Profile Monitor (1ea) Spare		
2.03.05.07 Bunch Length Monitors											
LN05070300	Procure Component Mtrl - Bunch Len - (1) SPARE	20	03OCT06	30OCT06					▲▲ Procure Component Mtrl - Bunch Len - (1) SPARE		
LN05070305	Component Fab & Assy - Bunch Length (1ea) Spare	20	31OCT06	29NOV06					▲▲ Component Fab & Assy - Bunch Length (1ea) Spare		
LN05070320	Perform QC / Metrology (1ea) Spare	20	30NOV06	11JAN07					▲▲ Perform QC / Metrology (1ea) Spare		
LN05070325	Perform Func Testing - Bunch Length (1ea) Spare	2	12JAN07	16JAN07	Perform Func Testing - Bunch Length (1ea) Spare						
LN05070330	Collect Component Performance Data (1ea) Spare	2	17JAN07	18JAN07	Collect Component Performance Data (1ea) Spare						
LN05070335	Load Component Data Base (1ea) Spare	2	19JAN07	22JAN07					▲▲ Load Component Data Base (1ea) Spare		
LN05070340	Post Process & Test (1ea) Spare	10	23JAN07	05FEB07					▲▲ Post Process & Test (1ea) Spare		
LN05070345	AVAIL: Bunch Length Monitors (1ea) Spare	0		05FEB07					◆ AVAIL: Bunch Length Monitors (1ea) Spare		
2.03.05.08 Beam Loss Monitors											
LN05080300	Procure Component Material - BLM - (2) SPARES	100	12JAN07	05JUN07	Procure Component Material - BLM - (2) SPARE						

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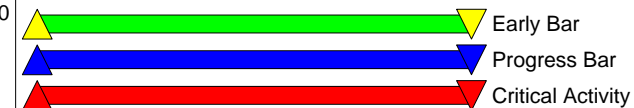


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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Year					
					2004	2005	2006	2007	2008	2009
LN05080302	Component Fab & Assy - Bm Lss Mon (2) Spares	80	01OCT08*	04FEB09			Component Fab & Assy - Bm Lss Mon (2) Spares			
LN05080308	Perform QC / Metrology (2ea) Spares	10	05FEB09	18FEB09			Perform QC / Metrology (2ea) Spares			
LN05080310	Perform Functional Testing - Bm Lss Mo(2) Spares	10	19FEB09	04MAR09			Perform Functional Testing - Bm Lss Mo(2) Spares			
LN05080312	Collect Component Performance Data (2ea) Spares	5	05MAR09	11MAR09			Collect Component Performance Data (2ea) Spares			
LN05080314	Load Component Data Base (2ea) Spares	5	12MAR09	18MAR09			Load Component Data Base (2ea) Spares			
LN05080316	Post Process & Test (2ea) Spares	5	19MAR09	25MAR09			Post Process & Test (2ea) Spares			
LN05080318	AVAIL: Beam Loss Monitor - (2ea) Spares	0		25MAR09			AVAIL: Beam Loss Monitor - (2ea) Spares			
2.03.05.11 Protection Collimators										
LN05110400	Procure Hardware - Protection Collimatr - SPARES	20	03OCT06	30OCT06			Procure Hardware - Protection Collimatr - SPARES			
2.03.05.12 Movable Collimators										
LN05120400	Procure Hardware - Movable Collimator - SPARES	60	03OCT06	11JAN07			Procure Hardware - Movable Collimator - SPARES			
2.03.05.13 Safety Dump										
LN05130400	Procure Hardware - Single Beam Dump - SPARES	40	11MAY07	09JUL07			Procure Hardware - Single Beam Dump - SPARE			
2.03.06 Linac RF Subsystem										
2.03.06.05 X-Band High Power System										
LN06051082	Prep Bid Pak - X-Band Klystron	5	03OCT06	09OCT06			Prep Bid Pak - X-Band Klystron			
LN06051140	Fab & Assemble X-Band Klystron - SPARE	100	03OCT06	12MAR07			Fab & Assemble X-Band Klystron - SPARE			
LN06040055	Procure X-Band TWT Driver - SPARE	220	03OCT06	29AUG07			Procure X-Band TWT Driver - SPARE			
LN06040075	Procure X-Band 4 X Multiplier - SPARE	220	03OCT06	29AUG07			Procure X-Band 4 X Multiplier - SPARE			
LN06040095	Procure X-Band Phase & Amp Dectector - SPARE	220	03OCT06	29AUG07			Procure X-Band Phase & Amp Dectector - SPARE			
LN06040125	Procure X-Band Strpline Couplers - SPARE	220	03OCT06	29AUG07			Procure X-Band Strpline Couplers - SPARE			
LN06051110	Procure Mounting Support - SPARE	220	03OCT06	29AUG07			Procure Mounting Support - SPARE			
LN06052160	Procure Tank - SPARE	220	03OCT06	29AUG07			Procure Tank - SPARE			
LN06052170	Procure Pulsed Transformer - SPARE	220	03OCT06	29AUG07			Procure Pulsed Transformer - SPARE			
LN06052180	Procure Cap Divider - SPARE	220	03OCT06	29AUG07			Procure Cap Divider - SPARE			
LN06052190	Procure Heater Isolation - SPARE	220	03OCT06	29AUG07			Procure Heater Isolation - SPARE			
LN06052200	Procure Toroid & Misc - SPARE	220	03OCT06	29AUG07			Procure Toroid & Misc - SPARE			
LN06052210	Procure Interlocks - SPARE	220	03OCT06	29AUG07			Procure Interlocks - SPARE			
LN06052220	Procure HV Connectors - SPARE	220	03OCT06	29AUG07			Procure HV Connectors - SPARE			
LN06052230	Procure Magnet Power Supply - SPARE	220	03OCT06	29AUG07			Procure Magnet Power Supply - SPARE			
LN06052240	Procure Power Supply Cabling - SPARE	220	03OCT06	29AUG07			Procure Power Supply Cabling - SPARE			
LN06052250	Procure Cathode Ion Pump - SPARE	220	03OCT06	29AUG07			Procure Cathode Ion Pump - SPARE			
LN06051084	RELEASE: RFP - X-Band Klystron	0		09OCT06			RELEASE: RFP - X-Band Klystron			
LN06051086	Vendors Prep Proposals - Klystron System	10	10OCT06	23OCT06			Vendors Prep Proposals - Klystron System			
LN06051088	RCV: Vendor Proposals - X-Band Klystron	0		23OCT06			RCV: Vendor Proposals - X-Band Klystron			
LN06051090	Evaluate Vendor Proposals - Klystron System	5	24OCT06	30OCT06			Evaluate Vendor Proposals - Klystron System			
LN06051100	Vendor Fab & Assy -X-Band Klystrons - SPARE	220	01NOV06	28SEP07			Vendor Fab & Assy -X-Band Klystrons - SPARE			

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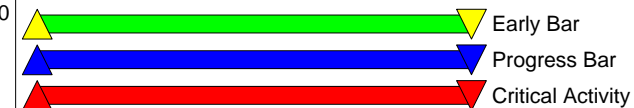


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					2004	2005	2006	2007	2008	2009
LN06052280	Dress Klystron - SPARE	15	13MAR07	02APR07				▽ Dress Klystron - SPARE		
LN06040060	RCV: X-Band TWT Driver - SPARE	0		29AUG07				◆ RCV: X-Band TWT Driver - SPARE		
LN06040080	RCV: X-Band 4 X Multiplier - SPARE	0		29AUG07				◆ RCV: X-Band 4 X Multiplier - SPARE		
LN06040100	RCV: X-Band Phase & Amp Dectector - SPARE	0		29AUG07				◆ RCV: X-Band Phase & Amp Dectector - SPARE		
LN06040130	RCV: X-Band Stripline Couplers - SPARE	0		29AUG07				◆ RCV: X-Band Stripline Couplers - SPARE		
LN06051115	RCV: Mounting Support - SPARE	0		29AUG07				◆ RCV: Mounting Support - SPARE		
LN06052165	RCV: Tank - SPARE	0		29AUG07				◆ RCV: Tank - SPARE		
LN06052175	RCV: Pulsed Transformer - SPARE	0		29AUG07				◆ RCV: Pulsed Transformer - SPARE		
LN06052185	RCV: Cap Divider - SPARE	0		29AUG07				◆ RCV: Cap Divider - SPARE		
LN06052195	RCV: Heater Isolation - SPARE	0		29AUG07				◆ RCV: Heater Isolation - SPARE		
LN06052205	RCV: Toroid & Misc - SPARE	0		29AUG07				◆ RCV: Toroid & Misc - SPARE		
LN06052215	RCV: Interlocks - SPARE	0		29AUG07				◆ RCV: Interlocks - SPARE		
LN06052225	RCV: HV Connectors - SPARE	0		29AUG07				◆ RCV: HV Connectors - SPARE		
LN06052235	RCV: Magnet Power Supply - SPARE	0		29AUG07				◆ RCV: Magnet Power Supply - SPARE		
LN06052245	RCV: Power Supply Cabling - SPARE	0		29AUG07				◆ RCV: Power Supply Cabling - SPARE		
LN06052255	RCV: Cathode Ion Pump - SPARE	0		29AUG07				◆ RCV: Cathode Ion Pump - SPARE		
LN06051145	Fab & Asemble Mounting Support - SPARE	5	30AUG07	06SEP07				◆ Fab & Asemble Mounting Support - SPARE		
LN06052275	Assemble Tank - SPARE	5	30AUG07	06SEP07				◆ Assemble Tank - SPARE		
LN06052285	Test Klystron / Tank Assembly - SPARE	15	07SEP07	27SEP07				◆ Test Klystron / Tank Assembly - SPARE		
LN06052286	AVAIL: Klystron / Tank Assembly - SPARE	0		27SEP07				◆ AVAIL: Klystron / Tank Assembly - SPARE		
LN06051105	RCV: X-Band Klystrons - SPARE	0		28SEP07				◆ RCV: X-Band Klystrons - SPARE		
2.03.06.07 RF Distribution System										
LN06070560	Proc, Fab & Test Bunch Length Electronics- SPARE	20	03OCT06	30OCT06				▽ Proc, Fab & Test Bunch Length Electronics- SPARE		
LN06070260	Procure Phase Control Electronics - SPARE	40	03OCT06	29NOV06				▽ Procure Phase Control Electronics - SPARE		
LN06070265	Procure Amplitude Control Electronics - SPARE	40	03OCT06	29NOV06				▽ Procure Amplitude Control Electronics - SPARE		
LN06070150	Procure Thyatron & Parts - SPARE	70	03OCT06	26JAN07				▽ Procure Thyatron & Parts - SPARE		
LN06070565	AVAIL: Bunch Length Electronics - SPARE	0		30OCT06				◆ AVAIL: Bunch Length Electronics - SPARE		
LN06070270	Fab & Test Amplifier - SPARE	90	30NOV06	23APR07				▽ Fab & Test Amplifier - SPARE		
LN06070760	Fab & Test 2W Distribution Amp - SPARE	60	07FEB07	02MAY07				▽ Fab & Test 2W Distribution Amp - SPARE		
LN06070275	AVAIL: Amplifier - SPARE	0		23APR07				◆ AVAIL: Amplifier - SPARE		
LN06070765	AVAIL: Hdwr Testing Complete Ready - SPARE	0		02MAY07				◆ AVAIL: Hdwr Testing Complete Ready - SPARE		
LN06070850	Procure, Fab & Test RF FO Electronics	60	09AUG07	01NOV07				▽ Procure, Fab & Test RF FO Electronics		
LN06070860	AVAIL: Fiber Optic System Ready - SPARE	0		01NOV07				◆ AVAIL: Fiber Optic System Ready - SPARE		
2.03.07 Linac System Commissioning										
2.03.07.01 Linac L01 System Commissioning										
LN07010505	Develop Commissioning Plans	30	03OCT06	13NOV06				▽ Develop Commissioning Plans		
LN070105	LINAC L01 COMMISSIONING SUMMARY	429	03OCT06	14JUL08				▽ LINAC L01 COMMISSIONING SUMMARY		

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Linac

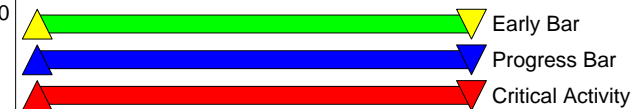


Start Date 01JUN01
 Finish Date 31MAR09
 Data Date 01OCT04
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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
LN07010510	COMP: Commissioning Plans Complete	0		13NOV06				◆ COMP: Commissioning Plans Complete		
LN07010515	Write Bm Authorization Sheet (BAS) Requirements	30	14NOV06	11JAN07	Write Bm Authorization Sheet (BAS) Requirements					
LN07010520	Obtain Beam Authorization Sheet (BAS)	5	12JAN07	19JAN07				△ Obtain Beam Authorization Sheet (BAS)		
LN07010500	REQD: L01 Equipment Ready for Commissioning	0		11JUN07	REQD: L01 Equipment Ready for Commissioning					
LN07010525	PPS Checkout Linac	1	12JUN07	12JUN07				△ PPS Checkout Linac		
LN07010535	Search and Lock Linac	1	13JUN07	13JUN07				△ Search and Lock Linac		
LN07010540	Commission L01, Physics	10	03JAN08	16JAN08				△ Commission L01, Physics		
LN07010545	Commission L01, Operations	10	03JAN08	16JAN08				△ Commission L01, Operations		
LN07010570	Support L01 Commissioning RF	10	03JAN08	16JAN08				△ Support L01 Commissioning RF		
LN07010605	Support L01 Commissioning Mechanical	10	03JAN08	16JAN08				△ Support L01 Commissioning Mechanical		
LN07010615	Support L01 Commissioning Survey	10	03JAN08	16JAN08				△ Support L01 Commissioning Survey		
LN07010620	Support L01 Commissioning Power Conv	10	03JAN08	16JAN08				△ Support L01 Commissioning Power Conv		
LN07010635	COMP: L01 Commissioning Complete	0		16JAN08	COMP: L01 Commissioning Complete					
LN07010700	L01 System Available for Undulator Commissioning	60	18APR08	14JUL08	L01 System Available for Undulator Commissioning					
2.03.07.02 Linac BC1 System Commissioning										
LN07020500	REQD: BC1 Equipment Ready for Commissioning	0		29SEP06	◆ REQD: BC1 Equipment Ready for Commissioning					
LN070205	LINAC BC1 COMMISSIONING SUMMARY	430	02OCT06	14JUL08	LINAC BC1 COMMISSIONING SUMMARY					
LN07020505	Develop Commissioning Plans	30	03OCT06	13NOV06	△ Develop Commissioning Plans					
LN07020510	COMP: Commissioning Plans Complete	0		13NOV06	◆ COMP: Commissioning Plans Complete					
LN07020515	Write Bm Authorization Sheet (BAS) Requirements	30	10APR07	21MAY07	Write Bm Authorization Sheet (BAS) Requirements					
LN07020520	REQD: L01 Commissioning Complete	0		16JAN08	REQD: L01 Commissioning Complete					
LN07020535	Commission BC1, Physics	10	17JAN08	31JAN08				△ Commission BC1, Physics		
LN07020540	Commission BC1, Operations	10	17JAN08	31JAN08				△ Commission BC1, Operations		
LN07020575	Support BC1 Commissioning RF	10	17JAN08	31JAN08				△ Support BC1 Commissioning RF		
LN07020600	Support BC1 Commissioning Hardware	10	17JAN08	31JAN08				△ Support BC1 Commissioning Hardware		
LN07020610	Support BC1 Commissioning Mechanical	10	17JAN08	31JAN08				△ Support BC1 Commissioning Mechanical		
LN07020620	Support BC1 Commissioning Survey	10	17JAN08	31JAN08				△ Support BC1 Commissioning Survey		
LN07020625	Support BC1 Commissioning Power Conv	10	17JAN08	31JAN08				△ Support BC1 Commissioning Power Conv		
LN07020640	COMP: BC1 Commissioning Complete	0		31JAN08	COMP: BC1 Commissioning Complete					
LN07020700	BC1 System Available for Undulator Commissioning	60	18APR08	14JUL08	BC1 System Available for Undulator Commissioning					
2.03.07.03 Linac L02 System Commissioning										
LN07030505	Develop Commissioning Plans	30	03OCT06	13NOV06	△ Develop Commissioning Plans					
LN070305	LINAC L02 COMMISSIONING SUMMARY	429	03OCT06	14JUL08	LINAC L02 COMMISSIONING SUMMARY					
LN07030510	COMP: Commissioning Plans Complete	0		13NOV06	◆ COMP: Commissioning Plans Complete					
LN07030515	Write Bm Authorization Sheet (BAS) Requirements	30	10APR07	21MAY07	Write Bm Authorization Sheet (BAS) Requirements					
LN07030500	REQD: L02 Equipment Ready for Commissioning	0		10DEC07	REQD: L02 Equipment Ready for Commissioning					
LN07030520	REQD: L01 & BC1 Commissioning Complete	0		31JAN08	REQD: L01 & BC1 Commissioning Complete					

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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish							
					2004	2005	2006	2007	2008	2009	
LN07030525	Obtain Beam Authorization Sheet (BAS)	5	01FEB08	07FEB08							Obtain Beam Authorization Sheet (BAS)
LN07030530	PPS Checkout Linac	1	08FEB08	08FEB08							PPS Checkout Linac
LN07030540	Search and Lock Linac	1	11FEB08	11FEB08							Search and Lock Linac
LN07030545	Commission L02, Physics	10	12FEB08	26FEB08							Commission L02, Physics
LN07030550	Commission L02, Operations	10	12FEB08	26FEB08							Commission L02, Operations
LN07030575	Support L02 Commissioning RF	10	12FEB08	26FEB08							Support L02 Commissioning RF
LN07030600	Support L02 Commissioning Hardware	10	12FEB08	26FEB08							Support L02 Commissioning Hardware
LN07030610	Support L02 Commissioning Mechanical	10	12FEB08	26FEB08							Support L02 Commissioning Mechanical
LN07030620	Support L02 Commissioning Survey	10	12FEB08	26FEB08							Support L02 Commissioning Survey
LN07030625	Support L02 Commissioning Power Conv	10	12FEB08	26FEB08							Support L02 Commissioning Power Conv
LN07030640	COMP: L02 Commissioning Complete	0		26FEB08							COMP: L02 Commissioning Complete
LN07030700	L02 System Available for Undulator Commissioning	60	18APR08	14JUL08							L02 System Available for Undulator Commissioning
2.03.07.04 Linac BC2 System Commissioning											
LN07040505	Develop Commissioning Plans	30	03OCT06	13NOV06							Develop Commissioning Plans
LN070405	LINAC BC2 COMMISSIONING SUMMARY	429	03OCT06	14JUL08							LINAC BC2 COMMISSIONING SUMMARY
LN07040510	COMP: Commissioning Plans Complete	0		13NOV06							COMP: Commissioning Plans Complete
LN07040515	Write Bm Authorization Sheet (BAS) Requirements	30	10APR07	21MAY07							Write Bm Authorization Sheet (BAS) Requirements
LN07040500	REQD: BC2 Equipment Ready for Commissioning	0		16NOV07							REQD: BC2 Equipment Ready for Commissioning
LN07040520	REQD: BC1 & L02 Commissioning Complete	0		26FEB08							REQD: BC1 & L02 Commissioning Complete
LN07040545	Commission BC2, Physics	10	27FEB08	11MAR08							Commission BC2, Physics
LN07040550	Commission BC2, Operations	10	27FEB08	11MAR08							Commission BC2, Operations
LN07040610	Support BC2 Commissioning Mechanical	10	27FEB08	11MAR08							Support BC2 Commissioning Mechanical
LN07040620	Support BC2 Commissioning Survey	10	27FEB08	11MAR08							Support BC2 Commissioning Survey
LN07040625	Support BC2 Commissioning Power Conv	10	27FEB08	11MAR08							Support BC2 Commissioning Power Conv
LN07040640	COMP: BC2 Commissioning Complete	0		11MAR08							COMP: BC2 Commissioning Complete
LN07040700	BC2 System Available for Undulator Commissioning	60	18APR08	14JUL08							BC2 System Available for Undulator Commissioning
2.03.07.05 Linac L03 System Commissioning											
LN07050505	Develop Commissioning Plans	30	03OCT06	13NOV06							Develop Commissioning Plans
LN070505	LINAC L03 COMMISSIONING SUMMARY	429	03OCT06	14JUL08							LINAC L03 COMMISSIONING SUMMARY
LN07050510	COMP: Commissioning Plans Complete	0		13NOV06							COMP: Commissioning Plans Complete
LN07050515	Write Bm Authorization Sheet (BAS) Requirements	30	10APR07	21MAY07							Write Bm Authorization Sheet (BAS) Requirements
LN07050500	REQD: L03 Equipment Ready for Commissioning	0		30NOV07							REQD: L03 Equipment Ready for Commissioning
LN07050520	REQD: L02 & BC2 Commissioning Complete	0		11MAR08							REQD: L02 & BC2 Commissioning Complete
LN07050525	Commission L03, Physics	10	12MAR08	25MAR08							Commission L03, Physics
LN07050530	Commission L03, Operations	10	12MAR08	25MAR08							Commission L03, Operations
LN07050555	Support L03 Commissioning RF	10	12MAR08	25MAR08							Support L03 Commissioning RF
LN07050590	Support L03 Commissioning Mechanical	10	12MAR08	25MAR08							Support L03 Commissioning Mechanical

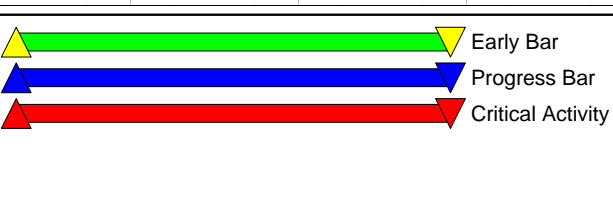
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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
LN07050600	Support L03 Comissioning Survey	10	12MAR08	25MAR08			Support L03 Comissioning Survey			
LN07050605	Support L03 Comissioning Power Conv	10	12MAR08	25MAR08			Support L03 Comissioning Power Conv			
LN07050620	COMP: L03 Comissioning Complete	0		25MAR08			COMP: L03 Comissioning Complete			
LN07050700	L03 System Available for Undulator Commissioning	60	18APR08	14JUL08			L03 System Available for Undulator Commissioning			
2.03.07.06 Linac LTU System Commissioning										
LN07060505	Develop Comissioning Plans	30	03OCT06	13NOV06			Develop Comissioning Plans			
LN070605	LINAC LTU COMMISSIONING SUMMARY	429	03OCT06	14JUL08			LINAC LTU COMMISSIONING SUMMARY			
LN07060510	COMP: Comissioning Plans Complete	0		13NOV06			COMP: Comissioning Plans Complete			
LN07060515	Write Bm Authorization Sheet (BAS) Requirements	30	10APR07	21MAY07			Write Bm Authorization Sheet (BAS) Requirements			
LN07060500	REQD: LTU Equipment Ready for Commissioning	0		10MAR08			REQD: LTU Equipment Ready for Commissioning			
LN07060520	REQD: L01,02,03 & BC1,2 Comissioning Complete	0		25MAR08			REQD: L01,02,03 & BC1,2 Comissioning Complete			
LN07060525	Obtain Beam Authorization Sheet (BAS)	5	26MAR08	01APR08			Obtain Beam Authorization Sheet (BAS)			
LN07060530	PPS Checkout Linac	1	02APR08	02APR08			PPS Checkout Linac			
LN07060535	Search and Lock Linac	1	03APR08	03APR08			Search and Lock Linac			
LN07060540	Commission LTU, Physics	10	04APR08	17APR08			Commission LTU, Physics			
LN07060545	Commission LTU, Operations	10	04APR08	17APR08			Commission LTU, Operations			
LN07060580	Support LTU Comissioning Hardware	10	04APR08	17APR08			Support LTU Comissioning Hardware			
LN07060585	Support LTU Comissioning Mechanical	10	04APR08	17APR08			Support LTU Comissioning Mechanical			
LN07060590	Support LTU Comissioning Survey	10	04APR08	17APR08			Support LTU Comissioning Survey			
LN07060595	Support LTU Comissioning Power Conv	10	04APR08	17APR08			Support LTU Comissioning Power Conv			
LN07060600	COMP: LTU Commissioning Complete	0		17APR08			COMP: LTU Commissioning Complete			
LN07060700	LTU System Available for Undulator Commissioning	60	18APR08	14JUL08			LTU System Available for Undulator Commissioning			
2.03.07.07 Linac E-Dump System Commissioning										
LN07070505	Develop Comissioning Plans	30	03OCT06	13NOV06			Develop Comissioning Plans			
LN070705	LINAC E-DUMP COMMISSIONING SUMMARY	389	03OCT06	15MAY08			LINAC E-DUMP COMMISSIONING SUMMARY			
LN07070510	COMP: Comissioning Plans Complete	0		13NOV06			COMP: Comissioning Plans Complete			
LN07070515	Write Bm Authorization Sheet (BAS) Requirements	30	10APR07	21MAY07			Write Bm Authorization Sheet (BAS) Requirements			
LN07070500	REQD: E-Dump Equipment Ready for Commissioning	0		26FEB08			REQD: E-Dump Equipment Ready for Commissioning			
LN07070520	REQD: L01,2,3, BC1,2 & LTU Comissioning Complete	0		01MAY08			REQD: L01,2,3, BC1,2 & LTU Comissioning Complete			
LN07070535	Commission E-Dump, Physics	10	02MAY08	15MAY08			Commission E-Dump, Physics			
LN07070540	Commission E-Dump, Operations	10	02MAY08	15MAY08			Commission E-Dump, Operations			
LN07070565	Support E-Dump Comissioning Hardware	10	02MAY08	15MAY08			Support E-Dump Comissioning Hardware			
LN07070570	Support E-Dump Comissioning Mechanical	10	02MAY08	15MAY08			Support E-Dump Comissioning Mechanical			
LN07070575	Support E-Dump Comissioning Survey	10	02MAY08	15MAY08			Support E-Dump Comissioning Survey			
LN07070580	Support E-Dump Comissioning Power Conv	10	02MAY08	15MAY08			Support E-Dump Comissioning Power Conv			
LN07070585	COMP: E-Dump Comissioning Complete Ready for Ops	0		15MAY08			COMP: E-Dump Comissioning Complete Ready for Ops			

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Early Bar
Progress Bar
Critical Activity