

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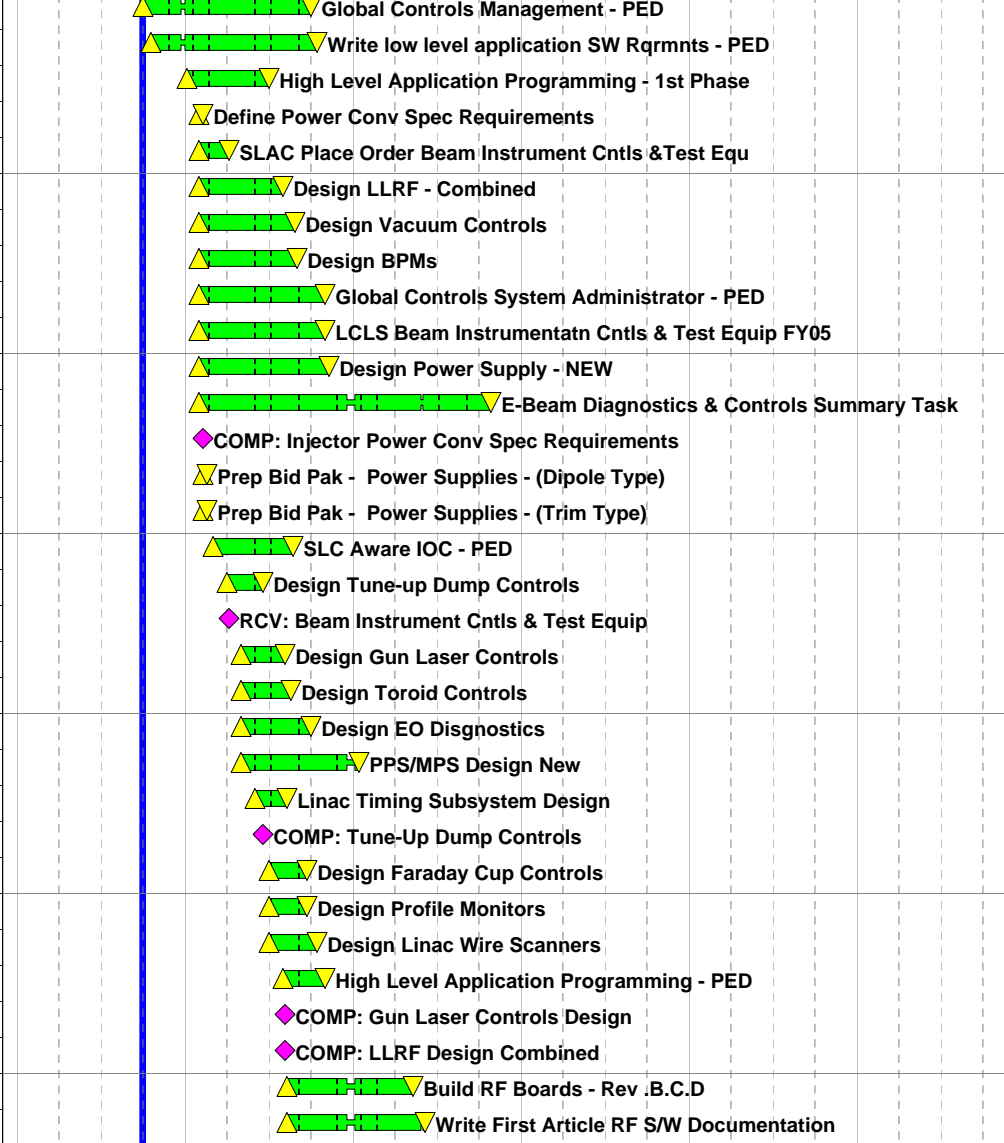
1 LCLS PROJECT - PED & CONSTRUCTION

1.01 LCLS PROJECT MGMT, PLANNING & ADMN (TEC)

1.01.03 Technical Integration

1.01.03.05 Global Controls

PM512_0001	Global Controls Management - PED	243	01OCT04	29SEP05
PM512_0020	Write low level application SW Rqrmnts - PED	243	18OCT04*	14OCT05
PM512_0030	High Level Application Programming - 1st Phase	126	03JAN05*	30JUN05
PM509_0015	Define Power Conv Spec Requirements	5	01FEB05*	07FEB05
PM512_0050	SLAC Place Order Beam Instrument Cntls & Test Equ	45	01FEB05*	05APR05
PM02020044	Design LLRF - Combined	126	01FEB05*	29JUL05
PM507_0001	Design Vacuum Controls	145	01FEB05*	25AUG05
PM50307006	Design BPMs	149	01FEB05*	31AUG05
PM512_0010	Global Controls System Administrator - PED	190	01FEB05*	28OCT05
PM512_0045	LCLS Beam Instrumentatn Cntls & Test Equip FY05	190	01FEB05*	28OCT05
PM509_0006	Design Power Supply - NEW	196	01FEB05*	07NOV05
PM503	E-Beam Diagnostics & Controls Summary Task	431	01FEB05	26OCT06
PM509_0020	COMP: Injector Power Conv Spec Requirements	0		07FEB05
PM509_0035	Prep Bid Pak - Power Supplies - (Dipole Type)	5	08FEB05	14FEB05
PM509_0040	Prep Bid Pak - Power Supplies - (Trim Type)	5	08FEB05	14FEB05
PM513_0001	SLC Aware IOC - PED	124	28FEB05	22AUG05
PM02030411	Design Tune-up Dump Controls	55	01APR05*	17JUN05
PM512_0055	RCV: Beam Instrument Cntls & Test Equip	0		05APR05
PM504_0001	Design Gun Laser Controls	66*	02MAY05*	03AUG05
PM50302006	Design Toroid Controls	77*	02MAY05*	18AUG05
PM50306011	Design EO Disgnostics	107*	02MAY05*	30SEP05
PM510_0061	PPS/MPS Design New	167*	02MAY05*	11JAN06
PM506_0001	Linac Timing Subsystem Design	50	01JUN05*	10AUG05
PM02030414	COMP: Tune-Up Dump Controls	0		17JUN05
PM02030311	Design Faraday Cup Controls	58*	01JUL05*	22SEP05
PM02030511	Design Profile Monitors	58*	01JUL05*	22SEP05
PM50301001	Design Linac Wire Scanners	73*	01JUL05*	13OCT05
PM512_0035	High Level Application Programming - PED	64	01AUG05*	28OCT05
PM504_0005	COMP: Gun Laser Controls Design	0		03AUG05
PM02020050	COMP: LLRF Design Combined	0		05AUG05*
PM502_0001	Build RF Boards - Rev .B.C.D	180	08AUG05*	08MAY06
PM502_0005	Write First Article RF S/W Documentation	200	08AUG05*	06JUN06



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**LCLS
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Controls

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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	
PM506_0005	COMP: Controls Design - Linac Timing	0		10AUG05							◆COMP: Controls Design - Linac Timing
PM50302007	COMP: Toroid Controls Design	0		18AUG05							◆COMP: Toroid Controls Design
PM507_0005	COMP: Vacuum Controls Design	0		25AUG05							◆COMP: Vacuum Controls Design
PM507_0010	First Article Vacuum Software	220	26AUG05	25JUL06							▲▼First Article Vacuum Software
PM50307007	COMP: BPM Design	1	01SEP05	01SEP05							▲▼COMP: BPM Design
PM50307015	Procure Prototype Board & Parts	63	02SEP05	02DEC05							▲▼Procure Prototype Board & Parts
PM02030314	COMP: Faraday Cup Controls Design	0		22SEP05							◆COMP: Faraday Cup Controls Design
PM02030514	COMP: Profile Monitor Design	0		22SEP05							◆COMP: Profile Monitor Design
PM50303001	Write First Article SW - Faraday Cups	80	23SEP05	01FEB06							▲▼Write First Article SW - Faraday Cups
PM50307010	Write First Article S/W for BPMs	213	30SEP05*	17AUG06							▲▼Write First Article S/W for BPMs
PM50302010	Write First Article SW - Toroid	47	03OCT05*	08DEC05							▲▼Write First Article SW - Toroid
PM50309001	Design Bunch Length Monitors	61	03OCT05*	12JAN06							▲▼Design Bunch Length Monitors
PM50306012	Design EO Diagnostics - CON	81	03OCT05	10FEB06							▲▼Design EO Diagnostics - CON
PM512_0005	Global Controls Management - CONST	845	03OCT05*	30MAR09							▲▼Global Co
PM50310001	Design Beam Loss Monitors	51	04OCT05	15DEC05							▲▼Design Beam Loss Monitors
PM50308001	Design Linac Stoppers	56	04OCT05*	06JAN06							▲▼Design Linac Stoppers
PM50301005	COMP: Linac Wire Scanner Dsgn - Release for Fab	0		13OCT05							◆COMP: Linac Wire Scanner Dsgn - Release for Fab
PM50301010	Write First Article SW	20	14OCT05	10NOV05							▲▼Write First Article SW
PM512_0040	High Level Application Programming - CONST	242	31OCT05	27OCT06							▲▼High Level Application Programming - CONST
PM512_0046	LCLS Beam Instrumentatn Cntls & Test Equip FY06	251	31OCT05	27OCT06							▲▼LCLS Beam Instrumentatn Cntls & Test Equip FY06
PM512_0015	Global Controls System Administrator - CONST	750	31OCT05	02DEC08							▲▼Global Controls
PM509_0010	COMP: Power Supply Design	0		07NOV05							◆COMP: Power Supply Design
PM509_0012	Write First Article S/W for Power Supplies	100	08NOV05	17APR06							▲▼Write First Article S/W for Power Supplies
PM50307025	RCV: design board & parts	0		02DEC05							◆RCV: design board & parts
PM50310005	COMP: Controls Design - Beam Loss Monitors	0		15DEC05							◆COMP: Controls Design - Beam Loss Monitors
PM512_0025	Write low level application SW Rqrmnts - CONST	232	03JAN06*	01DEC06							▲▼Write low level application SW Rqrmnts - CONST
PM50308005	COMP: Controls Design - Stoppers	0		06JAN06							◆COMP: Controls Design - Stoppers
PM50309005	COMP: Controls Design - Bunch Length Monitors	0		12JAN06							◆COMP: Controls Design - Bunch Length Monitors
PM510_0062	COMP: PPS/MPS Design	1	12JAN06	12JAN06							▲▼COMP: PPS/MPS Design
PM50305010	Write First Article S/W for Profile Monitors	189	31JAN06*	26OCT06							▲▼Write First Article S/W for Profile Monitors
PM50306013	COMP: EO Diagnostics	1	13FEB06	13FEB06							▲▼COMP: EO Diagnostics
PM50306025	SLAC Place Order 1 Set E/O Diagnostic Cntrls	3	14FEB06	16FEB06							▲▼SLAC Place Order 1 Set E/O Diagnostic Cntrls
PM50306020	Procure 1 Set E/O Diagnostic Cntrls H/W & Cables	20	14FEB06	14MAR06							▲▼Procure 1 Set E/O Diagnostic Cntrls H/W & Cables
PM50306015	Write First Article for E/O Diagnostics	150	14FEB06	15SEP06							▲▼Write First Article for E/O Diagnostics
PM50306030	RCV: Procured & fabricated parts - EO Diag Cntrl	0		14MAR06							◆RCV: Procured & fabricated parts - EO Diag Cntrl
PM505_0001	Design Laser Heater Controls	120	12APR06	29SEP06							▲▼Design Laser Heater Controls
PM502_0010	Build First Article Hardware	61	09MAY06	03AUG06							▲▼Build First Article Hardware

**LCLS
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Controls



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					2004	2005	2006	2007	2008	2009	
PM505_0005	COMP: Laser Heater Controls Design	0		29SEP06			◆ COMP: Laser Heater Controls Design				
PM512_0065	SLAC Place Order Controls Upgrade	30	03OCT06	13NOV06			▲▼ SLAC Place Order Controls Upgrade				
PM512_0060	SLAC MCC Controls Upgrade	246	03OCT06*	05OCT07			▲▼ SLAC MCC Controls Upgrade				
PM512_0047	LCLS Beam Instrumentatn Cntls & Test Equip FY07	251	30OCT06	26OCT07	LCLS Beam Instrumentatn Cntls & Test Equip FY07						
PM512_0041	High Level Application Programming - CONST	251	30OCT06	08NOV07	High Level Application Programming - CONST						
PM512_0070	RCV: Controls Upgrade	0		13NOV06			◆ RCV: Controls Upgrade				
PM512_0026	Write Low Level application SW Rqrmnts - Const	218	17JAN07*	26NOV07	Write Low Level application SW Rqrmnts - Const						
MS3_IJ120	Laser Heater Installation Complete	0		26NOV07*			◆ Laser Heater Installation Complete				

1.02 INJECTOR SYSTEM

1.02.02 Injector Controls Subsystem

IJ02	INJECTOR CONTROLS SUBSYSTEM SUMMARY	697	01OCT04	15AUG07	INJECTOR CONTROLS SUBSYSTEM SUMMARY						
MS3_CT150	Personnel Protection Design Complete	0		10MAR06*			◆ Personnel Protection Design Complete				
MS3_CT155	Machine Protection System First Article Complete	0		10MAR06*			◆ Machine Protection System First Article Complete				
1.02.02.01 Personnel Protection Subsystem (PPS)											
IJ1601_022	PROCUREMENT START - Laser PPS	0	01JUN05*				◆ PROCUREMENT START - Laser PPS				
IJ1601_023	Procure Entryway Hardware	80	01JUN05	22SEP05			▲▼ Procure Entryway Hardware				
IJ1601	PERSONNEL PROTECTION SUBSYSTEM SUMMARY	267	01JUN05	05JUL06	PERSONNEL PROTECTION SUBSYSTEM SUMMARY						
IJ1601_100	RCV: Laser room Hardware/Material	0		22SEP05			◆ RCV: Laser room Hardware/Material				
IJ16010050	PROCUREMENT START - Injector PPS	0	13JAN06				◆ PROCUREMENT START - Injector PPS				
IJ16010066	Procure PPS Hardware	120	13JAN06	05JUL06			▲▼ Procure PPS Hardware				
IJ16010220	RCV: PPS Hardware/Material	0		05JUL06			◆ RCV: PPS Hardware/Material				
IJ1601_112	AVAIL: Laser Room PPS Equip ready for Install	0		05JUL06			◆ AVAIL: Laser Room PPS Equip ready for Install				
1.02.02.02 Beam Containment Subsystem (BCS)											
IJ02100065	Write S/W Docmtn for Power Supply Controls	25	23JUN05*	28JUL05			▲▼ Write S/W Docmtn for Power Supply Controls				
IJ0210	PPS, BCS, MPS CONTROLS SUMMARY	350	23JUN05	22NOV06	PPS, BCS, MPS CONTROLS SUMMARY						
IJ02100070	Integrate and Test Power Supply Controls	200	10FEB06*	22NOV06			▲▼ Integrate and Test Power Supply Controls				
IJ02100085	AVAIL: PPS, BCS, MPS control software	0		22NOV06			◆ AVAIL: PPS, BCS, MPS control software				
1.02.02.03 Machine Protection Subsystem (MPS)											
IJ16030055	PROCUREMENT START - Injector MPS	0	02OCT06*				◆ PROCUREMENT START - Injector MPS				
IJ160300	MACHINE PROTECTION SUBSYSTEM SUMMARY	100	02OCT06	09MAR07	MACHINE PROTECTION SUBSYSTEM SUMMARY						
IJ16030056	Procure MPS Hardware	100	02OCT06	09MAR07			▲▼ Procure MPS Hardware				
IJ16030200	RCV: MPS Hardware/Material	0		09MAR07			◆ RCV: MPS Hardware/Material				
IJ16030240	COMP: Vendor Equip Fab/Assy - Ready for Instl	0		09MAR07			◆ COMP: Vendor Equip Fab/Assy - Ready for Instl				
IJ16030285	AVAIL: Injector MPS Equip ready for Install	0		09MAR07			◆ AVAIL: Injector MPS Equip ready for Install				
1.02.02.04 Injector Power Conversion											
IJ16041204	COMP: New PS 10KW Design	0		30SEP04			◆ COMP: New PS 10KW Design				

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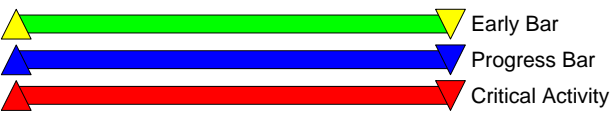


Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Year					
					2004	2005	2006	2007	2008	2009
IJ160412	New PS 10KW SUMMARY	506	01OCT04	27OCT06		New PS 10KW SUMMARY				
IJ16040165	Conduct Design Review	1	02MAY05*	02MAY05		X Conduct Design Review				
IJ16040884	Conduct Design Review	1	02MAY05*	02MAY05		X Conduct Design Review				
IJ16040984	Conduct Design Review	1	02MAY05*	02MAY05		X Conduct Design Review				
IJ16041100	Design Cableplant and Racks	100	02MAY05*	21SEP05		Design Cableplant and Racks				
IJ160411	MISC HARDWARE SUMMARY	318	02MAY05	16AUG06		MISC HARDWARE SUMMARY				
IJ160408	MCOR_3 SUMMARY	369	02MAY05	27OCT06		MCOR_3 SUMMARY				
IJ160409	MCOR_4 SUMMARY	369	02MAY05	27OCT06		MCOR_4 SUMMARY				
IJ160401	SOLENOID 1 PS 10KW SUMMARY	370	02MAY05	30OCT06		SOLENOID 1 PS 10KW SUMMARY				
IJ16040106	PROCUREMENT START - Solenoid 1 PS 10KW	0	03MAY05*			PROCUREMENT START - Solenoid 1 PS 10KW				
IJ16040806	PROCUREMENT START - MCOR_3 (30Amp)	0	03MAY05*			PROCUREMENT START - MCOR_3 (30Amp)				
IJ16040906	PROCUREMENT START - MCOR_4 (12Amp)	0	03MAY05*			PROCUREMENT START - MCOR_4 (12Amp)				
IJ16040825	30Amp Power Supply - (MCOR_3)	105	03MAY05	29SEP05		30Amp Power Supply - (MCOR_3)				
IJ16040925	30 Amp Power Supply (MCOR_4)	105	03MAY05	29SEP05		30 Amp Power Supply (MCOR_4)				
IJ16040107	10kw Power Supply - (Selenoid 1)	107	03MAY05	03OCT05		10kw Power Supply - (Selenoid 1)				
IJ16041104	Captar Documents	10	16MAY05	27MAY05		Captar Documents				
IJ16041153	Prep Bid Pak - Single Bay Racks (DC/I&C)	15	31MAY05	20JUN05		Prep Bid Pak - Single Bay Racks (DC/I&C)				
IJ16041163	Prep Bid Pak - Double Bay Racks	15	31MAY05	20JUN05		Prep Bid Pak - Double Bay Racks				
IJ16041203	Prep Bid Pak - Cableplant Install(DC.I&C)-S20	15	31MAY05	20JUN05		Prep Bid Pak - Cableplant Install(DC.I&C)-S20				
IJ16040284	Conduct Design Review	1	01JUN05*	01JUN05		X Conduct Design Review				
IJ16040484	Conduct Design Review	1	01JUN05*	01JUN05		X Conduct Design Review				
IJ16040582	Conduct Design Review	1	01JUN05*	01JUN05		X Conduct Design Review				
IJ160402	SOLENOID 2 PS 15KW SUMMARY	348	01JUN05	27OCT06		SOLENOID 2 PS 15KW SUMMARY				
IJ160404	BX011-BX02 PS 15KW SUMMARY	348	01JUN05	27OCT06		BX011-BX02 PS 15KW SUMMARY				
IJ160405	BXS Spect PS 15KW SUMMARY	348	01JUN05	27OCT06		BXS Spect PS 15KW SUMMARY				
IJ16040206	PROCUREMENT START - Solenoid 2 PS 15KW	0	02JUN05*			PROCUREMENT START - Solenoid 2 PS 15KW				
IJ16040406	PROCUREMENT START -BX011-BX02 PS 15KW	0	02JUN05*			PROCUREMENT START -BX011-BX02 PS 15KW				
IJ16040506	PROCUREMENT START - BXS Spect PS 15KW	0	02JUN05*			PROCUREMENT START - BXS Spect PS 15KW				
IJ16040208	30kw Power Supply - (Solenoid 2)	70	02JUN05	09SEP05		30kw Power Supply - (Solenoid 2)				
IJ16040407	15kw Power Supply - (B1-2)	70	02JUN05	09SEP05		15kw Power Supply - (B1-2)				
IJ16040507	15kw Power Supply (B3-Spect)	70	02JUN05	09SEP05		15kw Power Supply (B3-Spect)				
IJ16041154	RELEASE: RFP - Single Bay Racks (DC/I&C)	0		20JUN05		RELEASE: RFP - Single Bay Racks (DC/I&C)				
IJ16041164	RELEASE: RFP - Double Bay Racks	0		20JUN05		RELEASE: RFP - Double Bay Racks				
IJ16041205	RELEASE: RFP - Cableplant Install(DC.I&C)-S20	0		20JUN05		RELEASE: RFP - Cableplant Install(DC.I&C)-S20				
IJ16041115	PROCUREMENT START - Misc Hardware	0	21JUN05			PROCUREMENT START - Misc Hardware				
IJ16041206	PROCUREMENT START - Wiggler PS 10KW	0	21JUN05*			PROCUREMENT START - Wiggler PS 10KW				
IJ16041155	Vendors Prep Proposals - Single Bay Racks	20	21JUN05	19JUL05		Vendors Prep Proposals - Single Bay Racks				

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					2004	2005	2006	2007	2008	2009
IJ16041165	Vendors Prep Proposals - Double Bay Racks	20	21JUN05	19JUL05				▲▼ Vendors Prep Proposals - Double Bay Racks		
IJ16041207	Vendors Prep Prop-Cableplant Install(DC.I&C)-S20	20	21JUN05	19JUL05				▲▼ Vendors Prep Prop-Cableplant Install(DC.I&C)-S20		
IJ16041211	10kw Power Supply - (New)	70	21JUN05	28SEP05				▲▼ 10kw Power Supply - (New)		
IJ16041116	Cableplant and Rack Hardware	120	21JUN05	09DEC05				▲▼ Cableplant and Rack Hardware		
IJ16041156	RCV: Proposals - Single Bay Racks (DC/I&C)	0		19JUL05				◆ RCV: Proposals - Single Bay Racks (DC/I&C)		
IJ16041166	RCV: Proposals - Double Bay Racks	0		19JUL05				◆ RCV: Proposals - Double Bay Racks		
IJ16041209	RCV: Proposals - Cableplant Install(DC.I&C)-S20	0		19JUL05				◆ RCV: Proposals - Cableplant Install(DC.I&C)-S20		
IJ16041267	Evaluate Prop-Cableplant Install(DC.I&C)-S20	10	20JUL05	02AUG05				▲▼ Evaluate Prop-Cableplant Install(DC.I&C)-S20		
IJ16041157	Evaluate Proposals - Single Bay Racks (DC/	15	20JUL05	09AUG05				▲▼ Evaluate Proposals - Single Bay Racks (DC/		
IJ16041167	Evaluate Proposals - Double Bay Racks	15	20JUL05	09AUG05				▲▼ Evaluate Proposals - Double Bay Racks		
IJ16041269	AVAIL: Cableplant Ready to Install(DC.I&C)-S20	0		04AUG05				◆ AVAIL: Cableplant Ready to Install(DC.I&C)-S20		
IJ16041270	Vendor - Cableplant Install (DC. I&C)-S20	1	04AUG05	04AUG05				▲▼ Vendor - Cableplant Install (DC. I&C)-S20		
IJ16041159	Vendor Fab/Assy - Single Bay Racks	120	11AUG05	15FEB06				▲▼ Vendor Fab/Assy - Single Bay Racks		
IJ16041169	Vendor Fab/Assy - Double Bay Racks	120	11AUG05	15FEB06				▲▼ Vendor Fab/Assy - Double Bay Racks		
IJ16040207	RCV: Power Supply - (Solenoid 2)	0		09SEP05				◆ RCV: Power Supply - (Solenoid 2)		
IJ16040255	AVAIL: All Solenoid 1 PS 15KW parts	0		09SEP05				◆ AVAIL: All Solenoid 1 PS 15KW parts		
IJ16040410	RCV: 15kw Power Supply (B1-2)	0		09SEP05				◆ RCV: 15kw Power Supply (B1-2)		
IJ16040486	COMP: BX011-BX02 PS 15KW Fab & Assembly	0		09SEP05				◆ COMP: BX011-BX02 PS 15KW Fab & Assembly		
IJ16040510	RCV: Power Supply (B3- Spect)	0		09SEP05				◆ RCV: Power Supply (B3- Spect)		
IJ16040543	AVAIL: All BXS Spect PS 15KW parts	0		09SEP05				◆ AVAIL: All BXS Spect PS 15KW parts		
IJ16040584	COMP: BXS Spect PS 15KW Fab & Assembly	0		09SEP05				◆ COMP: BXS Spect PS 15KW Fab & Assembly		
IJ16041210	RCV: Power Supply - (New)	0		28SEP05				◆ RCV: Power Supply - (New)		
IJ16041243	AVAIL: All Wiggler PS 10KW parts	0		28SEP05				◆ AVAIL: All Wiggler PS 10KW parts		
IJ16041260	COMP: Wiggler PS 10KW Fab & Assembly	0		28SEP05*				◆ COMP: Wiggler PS 10KW Fab & Assembly		
IJ16040807	RCV:30Amp Power Supply - (MCOR_3)	0		29SEP05				◆ RCV:30Amp Power Supply - (MCOR_3)		
IJ16040863	AVAIL: All MCOR_3 parts	0		29SEP05				◆ AVAIL: All MCOR_3 parts		
IJ16040907	RCV:Smart Analog Monitor (VMIC 3122)	0		29SEP05				◆ RCV:Smart Analog Monitor (VMIC 3122)		
IJ16040972	AVAIL: All MCOR_4 parts	0		29SEP05				◆ AVAIL: All MCOR_4 parts		
IJ16040132	AVAIL: All Solenoid 1 PS 10KW parts	0		03OCT05				◆ AVAIL: All Solenoid 1 PS 10KW parts		
IJ16040684	Conduct Design Review	1	07DEC05*	07DEC05				▲▼ Conduct Design Review		
IJ160406	MCOR_1 SUMMARY	217	07DEC05	27OCT06				▲▼ MCOR_1 SUMMARY		
IJ16040606	PROCUREMENT START - MCOR_1 (12Amp)	0	08DEC05*					◆ PROCUREMENT START - MCOR_1 (12Amp)		
IJ16040625	12 Amp Power Supply (MCOR 1) (16 ps)	105	08DEC05	22MAY06				▲▼ 12 Amp Power Supply (MCOR 1) (16 ps)		
IJ16041119	RCV: Cableplant and Rack Hardware	0		09DEC05				◆ RCV: Cableplant and Rack Hardware		
IJ16041160	RCV: from Vendor - Single Bay Racks (DC/I&C)	0		15FEB06				◆ RCV: from Vendor - Single Bay Racks (DC/I&C)		
IJ16041170	RCV: from Vendor - Double Bay Racks	0		15FEB06				◆ RCV: from Vendor - Double Bay Racks		
IJ16041300	Integ Rack Rack HW & Internal AC Wiring - S20	12	16FEB06	06MAR06				▲▼ Integ Rack Rack HW & Internal AC Wiring - S20		

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					2004	2005	2006	2007	2008	2009	
IJ16040607	RCV:12 Amp Power Supply (MCOR 1) (16 ps)	0		22MAY06							◆RCV:12 Amp Power Supply (MCOR 1) (16 ps)
IJ16040667	AVAIL: All MCOR_1 parts	0		22MAY06							◆AVAIL: All MCOR_1 parts
IJ16041315	Integ Rack/Crate Mount Cntrls&Intra-Cables - S20	30	23MAY06	05JUL06							▲▼Integ Rack/Crate Mount Cntrls&Intra-Cables - S20
IJ16041305	Integ Rack Mount Pwr Supplies&Intra Cables - S20	60	23MAY06	16AUG06							▲▼Integ Rack Mount Pwr Supplies&Intra Cables - S20
IJ16041320	Perform Pre-Install Testing Controls - S20	15	06JUL06	26JUL06							▲▼Perform Pre-Install Testing Controls - S20
IJ16041325	AVAIL:Preloaded Dbl Bay Racks Rdy to Insta - S20	0		26JUL06							◆AVAIL:Preloaded Dbl Bay Racks Rdy to Insta - S20
IJ16040286	COMP: Solenoid 2 PS 15KW Fab & Assembly	0		16AUG06							◆COMP: Solenoid 2 PS 15KW Fab & Assembly
IJ16040886	COMP: MCOR_3 Fab & Assembly	0		16AUG06							◆COMP: MCOR_3 Fab & Assembly
IJ16040686	COMP: MCOR_1 Fab & Assembly	0	17AUG06	16AUG06							▲▼COMP: MCOR_1 Fab & Assembly
IJ16040986	COMP: MCOR_4 Fab & Assembly	0	17AUG06	16AUG06							▲▼COMP: MCOR_4 Fab & Assembly
IJ16040170	COMP: Solenoid 1 PS 10KW Fab & Assembly	0		02OCT06*							◆COMP: Solenoid 1 PS 10KW Fab & Assembly
IJ16040704	Conduct Design Panel	1	02OCT06*	02OCT06							▲▼Conduct Design Panel
IJ0209	POWER SUPPLY CONTROLS SUMMARY	5	02OCT06	06OCT06							▲▼POWER SUPPLY CONTROLS SUMMARY
IJ02090065	Integrate software & hardware	5	02OCT06*	06OCT06							▲▼Integrate software & hardware
IJ16040288	Perform Solenoid 2 PS 15KW Pre-Install Qual Test	20	02OCT06*	27OCT06							▲▼Perform Solenoid 2 PS 15KW Pre-Install Qual Test
IJ16040488	Perform BX011-BX02 PS 15KW Pre-Install Qual Test	20	02OCT06*	27OCT06							▲▼Perform BX011-BX02 PS 15KW Pre-Install Qual Test
IJ16040588	Perform BXS Spect PS 15KW Pre-Install Qual Test	20	02OCT06*	27OCT06							▲▼Perform BXS Spect PS 15KW Pre-Install Qual Test
IJ16040688	Perform MCOR_1 Pre-Install Qual Test	20	02OCT06*	27OCT06							▲▼Perform MCOR_1 Pre-Install Qual Test
IJ16040725	Perform MCOR_2 Pre-Install Qual Test	20	02OCT06*	27OCT06							▲▼Perform MCOR_2 Pre-Install Qual Test
IJ16040888	Perform MCOR_3 Pre-Install Qual Test	20	02OCT06*	27OCT06							▲▼Perform MCOR_3 Pre-Install Qual Test
IJ16040988	Perform MCOR_4 Pre-Install Qual Test	20	02OCT06*	27OCT06							▲▼Perform MCOR_4 Pre-Install Qual Test
IJ16041262	Perform Wiggler PS 10KW Pre-Install Qual	20	02OCT06*	27OCT06							▲▼Perform Wiggler PS 10KW Pre-Install Qual
IJ160407	MCOR_2 SUMMARY	106	02OCT06	19MAR07							▲▼MCOR_2 SUMMARY
IJ16040706	PROCUREMENT START - MCOR_2 (12Amp)	0	03OCT06*								◆PROCUREMENT START - MCOR_2 (12Amp)
IJ16040175	Perform Solenoid 1 PS 10KW Pre-Install Qual Test	20	03OCT06	30OCT06							▲▼Perform Solenoid 1 PS 10KW Pre-Install Qual Test
IJ16040716	30 Amp Power Supply - (MCOR_2)	105	03OCT06	19MAR07							▲▼30 Amp Power Supply - (MCOR_2)
IJ02090085	AVAIL: Power Supply Cntrls Ready for Install	0		06OCT06							◆AVAIL: Power Supply Cntrls Ready for Install
IJ16040290	AVAIL: Solenoid 2 PS 15KW Ready for Install	0		27OCT06							◆AVAIL: Solenoid 2 PS 15KW Ready for Install
IJ16040490	AVAIL: BX011-BX02 PS 15KW Ready for Install	0		27OCT06							◆AVAIL: BX011-BX02 PS 15KW Ready for Install
IJ16040590	AVAIL: BXS Spect PS 15KW Ready for Install	0		27OCT06							◆AVAIL: BXS Spect PS 15KW Ready for Install
IJ16040690	AVAIL: MCOR_1 Ready for Install	0		27OCT06							◆AVAIL: MCOR_1 Ready for Install
IJ16040890	AVAIL: MCOR_3 Ready for Install	0		27OCT06							◆AVAIL: MCOR_3 Ready for Install
IJ16040990	AVAIL: MCOR_4 Ready for Install	0		27OCT06							◆AVAIL: MCOR_4 Ready for Install
IJ16041264	AVAIL: Wiggler PS 10KW Ready for Install	0		27OCT06							◆AVAIL: Wiggler PS 10KW Ready for Install
IJ16040180	AVAIL: Solenoid 1 PS 10KW Ready for Install	0		30OCT06							◆AVAIL: Solenoid 1 PS 10KW Ready for Install
IJ16040791	AVAIL: All MCOR_2 parts	0		19MAR07							◆AVAIL: All MCOR_2 parts
IJ16040792	RCV: 30 Amp Power Supply - (MCOR_2)	0		19MAR07							◆RCV: 30 Amp Power Supply - (MCOR_2)



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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
1.02.02.05 LLRF Controls										
IJ02020625	SLAC Place Order Controls H/W (incl Digitizer)	30	01OCT04	11NOV04						
IJ0202	LLRF CONTROLS SUMMARY	621	01OCT04	27APR07						
IJ02020689	Write RF Software and Documentation	1	08AUG05	08AUG05						
IJ02020065	SLAC Place Order Controls H/W (incl digitizer)	30	08AUG05	19SEP05						
IJ02020250	SLAC Place Order Controls H/W (incl Digitizer)	30	08AUG05	19SEP05						
IJ02020805	SLAC Place Order Controls H/W (incl Digitizer)	30	08AUG05	19SEP05						
IJ02020055	Procure controls H/W (incl digitizer) and cables	63	08AUG05	03NOV05						
IJ02020240	Procure Controls H/W (incl Digitizer) and Cables	63	08AUG05*	03NOV05						
IJ02020425	Procure Controls H/W (incl Digitizer) and Cables	63	08AUG05	03NOV05						
IJ02020615	Procure Controls H/W (incl Digitizer) and Cables	63	08AUG05	03NOV05						
IJ02020795	Procure Controls H/W (incl Digitizer) and Cables	63	08AUG05	03NOV05						
IJ02021830	Procure Contros H/W (incl Digitizer) and Cables	63	08AUG05	03NOV05						
IJ02020129	Write RF Software and Documentation - PED	67	08AUG05	09NOV05						
IJ02020516	Write RF Software Documentation	118	08AUG05	08FEB06						
IJ02020870	Write RF Software and Documentation	118	08AUG05	08FEB06						
IJ02021919	Write RF Software and Documentation	118	08AUG05	08FEB06						
IJ02020307	Write RF Control S/W and Docmntn	315	08AUG05	16NOV06						
IJ02020075	RCV: controls H/W (incl digitizer) and cables	0		19SEP05						
IJ02020120	RCV: Procured parts - LLRF Gun Controls	0		19SEP05						
IJ02020303	RCV: Procured parts - LLRF L0-1 Controls	0		19SEP05						
IJ02020304	Build RF Control H/W and Write Docmntn - PED	103	20SEP05	02MAR06						
IJ02020435	SLAC Place Order Controls H/W (incl Digitizer)	30	03OCT05*	11NOV05						
IJ02021840	SLAC Place Order Contros H/W (incl Digitizer)	30	03OCT05*	11NOV05						
IJ02020680	RCV: Procured parts	0		03NOV05						
IJ02020860	RCV: Procured parts	0		03NOV05						
IJ02020684	Build RF Hardware and Write Documentation	55	04NOV05	08FEB06						
IJ02020864	Build RF Hardware and Write Documentation	55	04NOV05	08FEB06						
IJ02020131	Write RF Software and Documentation - CONST	133	10NOV05	06JUN06						
IJ02020495	RCV: Procured parts	0		11NOV05						
IJ02021900	RCV: Procured parts	0		11NOV05						
IJ02021904	Build RF Hardware and Write Documentation	1	14NOV05	14NOV05						
IJ02021910	AVAIL: Hardware for Install in RF Hut	0		14NOV05						
IJ02020508	Build RF Hardware and Write Documentation	55	14NOV05	16FEB06						
IJ02021931	Integrate and Test RF Control	54	15NOV05	16FEB06						
IJ02020734	Integrate and Test RF Control	25	09FEB06	16MAR06						
IJ02020880	Integrate and Test RF Control	25	09FEB06	16MAR06						

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					2004	2005	2006	2007	2008	2009	
IJ02020505	AVAIL: Hardware for Install in RF Hut	0		16FEB06			◆AVAIL: Hardware for Install in RF Hut				
IJ02021935	AVAIL:LLRF Tranv Cav Controls Ready to Install	0		16FEB06			◆AVAIL:LLRF Tranv Cav Controls Ready to Install				
IJ02020526	Integrate and Test LLRF L0-2	24	17FEB06	23MAR06			▲▼Integrate and Test LLRF L0-2				
IJ02020735	AVAIL: LLRF L1 S-Band Contrlrs Ready to Integrate	0		16MAR06			◆AVAIL: LLRF L1 S-Band Contrlrs Ready to Integrate				
IJ02020915	AVAIL: LLRF L1 X-Band Contrlrs Ready to Integrate	0		16MAR06			◆AVAIL: LLRF L1 X-Band Contrlrs Ready to Integrate				
IJ02020555	AVAIL: LLRF L0-2 Controls Ready to Install	0		23MAR06			◆AVAIL: LLRF L0-2 Controls Ready to Install				
IJ02020130	Build RF Hardware & Write Documentation	61	09MAY06	03AUG06			▲▼Build RF Hardware & Write Documentation				
IJ02020306	Build RF Control H/W and Write Docmntn - CONST	212	09MAY06	26MAR07			▲▼Build RF Control H/W and Write Docmntn - CONST				
IJ02020141	Integrate & Test RF Control	72	07JUN06	18SEP06			▲▼Integrate & Test RF Control				
IJ02020127	AVAIL: Racks for Install in RF Hut	0		03AUG06			◆AVAIL: Racks for Install in RF Hut				
IJ02020180	AVAIL: LLRF Gun Controls Ready to Integrate	0		18SEP06			◆AVAIL: LLRF Gun Controls Ready to Integrate				
IJ02020308	Integrate and Test LLRF L0-1	24	27MAR07	27APR07			▲▼Integrate and Test LLRF L0-1				
IJ02020365	AVAIL: LLRF L0-1 Controls Ready to Install	0		27APR07			◆AVAIL: LLRF L0-1 Controls Ready to Install				
1.02.02.06 E-Beam Diagnostics Controls											
IJ02030757	SLAC Place Order BLM Controls Hdwr/Eq	3	01OCT04	05OCT04			▲▼SLAC Place Order BLM Controls Hdwr/Eq				
IJ02030226	SLAC Place Order - Toroid Controls	30	01OCT04	11NOV04			▲▼SLAC Place Order - Toroid Controls				
IJ02030326	SLAC Place Order - Faraday Cup Controls	30	01OCT04	11NOV04			▲▼SLAC Place Order - Faraday Cup Controls				
IJ020302	CONTROLS - TOROIDS (5) SUMMARY	673	01OCT04	12JUL07			▲▼CONTROLS - TOROIDS (5) SUMMARY				
IJ0203	E-BEAM DIAG DISPLAY & CONTROLS SUMMARY	680	01OCT04	23JUL07			▲▼E-BEAM DIAG DISPLAY & CONTROLS SUMMARY				
IJ02030745	CONTROLS - BPM PROCESSOR MODULE (21)	680	01OCT04	23JUL07			▲▼CONTROLS - BPM PROCESSOR MODULE (21)				
IJ02030747	Procure BLM Controls Hdwr/Eq	20	02SEP05*	30SEP05			▲▼Procure BLM Controls Hdwr/Eq				
IJ02030728	SLAC Place Order 21 sets BPM Ctrls H/W &Cables	30	02SEP05	14OCT05			▲▼SLAC Place Order 21 sets BPM Ctrls H/W &Cables				
IJ02030718	Proc 21 sets BPM Controls H/W and Cables	60	02SEP05	29NOV05			▲▼Proc 21 sets BPM Controls H/W and Cables				
IJ02030357	Write S/W and Docmntn Faraday Cup Control (4)	1	23SEP05	23SEP05			▲▼Write S/W and Docmntn Faraday Cup Control (4)				
IJ02030526	SLAC Place Order - Profile Monitor Controls	30	23SEP05	03NOV05			▲▼SLAC Place Order - Profile Monitor Controls				
IJ02030516	Proc 11 sets Profile Mntr Cntrlrs H/W & Cables	42	23SEP05	21NOV05			▲▼Proc 11 sets Profile Mntr Cntrlrs H/W & Cables				
IJ02030570	Write S/W and Docmntn Profile Monitors (11)	214	23SEP05	11AUG06			▲▼Write S/W and Docmntn Profile Monitors (11)				
IJ02030767	RCV: BLM Controls Hdwr/Eq	0		30SEP05			◆RCV: BLM Controls Hdwr/Eq				
IJ02030436	SLAC Place Order - Tune-Up Dump Controls	3	03OCT05*	05OCT05			▲▼SLAC Place Order - Tune-Up Dump Controls				
IJ02030556	RCV: Procured parts - Profile Monitor Controls	0		21NOV05			◆RCV: Procured parts - Profile Monitor Controls				
IJ02030569	Build H/W and Write Docmntn Profile Monitor (11)	172	22NOV05	11AUG06			▲▼Build H/W and Write Docmntn Profile Monitor (11)				
IJ02030726	RCV: Procured parts - BPM Proc Module Cntrlrs	0		29NOV05			◆RCV: Procured parts - BPM Proc Module Cntrlrs				
IJ02030738	Build H/W and Write Docmntn BPMs (21)	200	05DEC05	02OCT06			▲▼Build H/W and Write Docmntn BPMs (21)				
IJ02030630	Build H/W and Write Docmntn for E/O Diagnostics	100	18JUL06*	07DEC06			▲▼Build H/W and Write Docmntn for E/O Diagnostics				
IJ02030216	Procure 5 Sets Toroid Contrlrs H/W and Cables	42	02OCT06*	30NOV06			▲▼Procure 5 Sets Toroid Contrlrs H/W and Cables				
IJ02030316	Procure 4 Sets Faraday Cup Controls H/W & Cables	42	02OCT06*	30NOV06			▲▼Procure 4 Sets Faraday Cup Controls H/W & Cables				
IJ02030416	Procure 1 set Tune-up Dump Controls H/W	42	02OCT06*	30NOV06			▲▼Procure 1 set Tune-up Dump Controls H/W				

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					2004	2005	2006	2007	2008	2009
IJ02030424	Write S/W - Tune-Up Dump Controls	100	02OCT06*	09MAR07					Write S/W - Tune-Up Dump Controls	
IJ02030426	Write Docs - Tune-Up Dump Controls	100	02OCT06*	09MAR07					Write Docs - Tune-Up Dump Controls	
IJ02030631	Write S/W and Docmnt E/O Diagnostics	100	02OCT06*	09MAR07					Write S/W and Docmnt E/O Diagnostics	
IJ02030571	Integrate and Test Profile Monitors	130	02OCT06*	20APR07					Integrate and Test Profile Monitors	
IJ02030740	Integrate and Test BPM Controls	193	03OCT06	23JUL07					Integrate and Test BPM Controls	
IJ02030244	Write Toroid Software and Documentation	47	25OCT06*	17JAN07					Write Toroid Software and Documentation	
IJ02030238	RCV: Procured parts - Toroid Controls	0		30NOV06					RCV: Procured parts - Toroid Controls	
IJ02030344	RCV: Procured parts - Faraday Cup Controls	0		30NOV06					RCV: Procured parts - Faraday Cup Controls	
IJ02030422	RCV: Procured parts - Tune-Up Dump Controls	0		30NOV06					RCV: Procured parts - Tune-Up Dump Controls	
IJ02030356	Build H/W and Write Docmnt Faraday Cup Cntrl (4)	1	01DEC06	01DEC06					Build H/W and Write Docmnt Faraday Cup Cntrl (4)	
IJ02030430	Assemble Tune-up Dump Controls	42	01DEC06	14FEB07					Assemble Tune-up Dump Controls	
IJ02030358	Integrate and Test Faraday Cup Control (4)	25	04DEC06	23JAN07					Integrate and Test Faraday Cup Control (4)	
IJ02030632	Integrate and Test E/O Diagnostics Controls H/W	125	08DEC06	20JUN07					Integrate and Test E/O Diagnostics Controls H/W	
IJ02030362	AVAIL: Faraday Cup Controls Ready for Install	0		23JAN07					AVAIL: Faraday Cup Controls Ready for Install	
IJ02030433	Integrate and Test Tune Up Dump	28	12MAR07	18APR07					Integrate and Test Tune Up Dump	
IJ02030243	Build Toroid Hardware and Write Documentatin	47	14MAR07	17MAY07					Build Toroid Hardware and Write Documentatin	
IJ02030440	AVAIL: Tune-Up Dump Controls Ready for Install	0		18APR07					AVAIL: Tune-Up Dump Controls Ready for Install	
IJ02030574	AVAIL:Profile Monitor Controls Ready for Install	0		20APR07					AVAIL:Profile Monitor Controls Ready for Install	
IJ02030250	Integrate Software and Hardware	38	18MAY07	12JUL07					Integrate Software and Hardware	
IJ02030636	AVAIL: EO Diagnostic Controls Ready for Install	0		20JUN07					AVAIL: EO Diagnostic Controls Ready for Install	
IJ02030256	AVAIL: Toroid Controls Ready for Install	0		12JUL07					AVAIL: Toroid Controls Ready for Install	
IJ02030744	AVAIL:BPM Proc Module Controls Ready for Install	0		23JUL07					AVAIL:BPM Proc Module Controls Ready for Install	
1.02.02.08 Timing Controls										
IJ02060070	SLAC Place Order Master&Distrib Timing Ctrl H/W	29	01OCT04	10NOV04					SLAC Place Order Master&Distrib Timing Ctrl H/W	
IJ0206	TIMING CONTROLS SUMMARY	549	01OCT04	16JAN07					TIMING CONTROLS SUMMARY	
IJ02060060	Procure Master & Distributed Timing Controls H/W	63	02OCT06*	16JAN07					Procure Master & Distributed Timing Controls H/W	
IJ02060080	RCV: Master & Distributed Timing Controls H/W	0		16JAN07					RCV: Master & Distributed Timing Controls H/W	
1.02.02.09 Vacuum Controls										
IJ02070080	SLAC Place Order Vacuum Ctrl Hardware & Cables	30	02OCT06	10NOV06					SLAC Place Order Vacuum Ctrl Hardware & Cables	
IJ02070070	Procure Vacuum Controls Hardware and Cables	63	02OCT06*	16JAN07					Procure Vacuum Controls Hardware and Cables	
IJ02070210	Write Vacuum Documentation	100	02OCT06*	09MAR07					Write Vacuum Documentation	
IJ0207	VACUUM CONTROLS SUMMARY	211	02OCT06	15AUG07					VACUUM CONTROLS SUMMARY	
IJ02070195	RCV: Vacuum Controls Hardware and Cables	0		16JAN07					RCV: Vacuum Controls Hardware and Cables	
IJ02070202	Build Vacuum H/W and Write Docmntn	14	17JAN07	05FEB07					Build Vacuum H/W and Write Docmntn	
IJ02070216	Integration and Test Vacuum Controls	134	06FEB07	15AUG07					Integration and Test Vacuum Controls	
IJ02070235	AVAIL: Vacuum Control Modules Ready for Install	0		15AUG07					AVAIL: Vacuum Control Modules Ready for Install	

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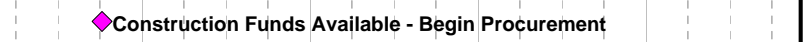
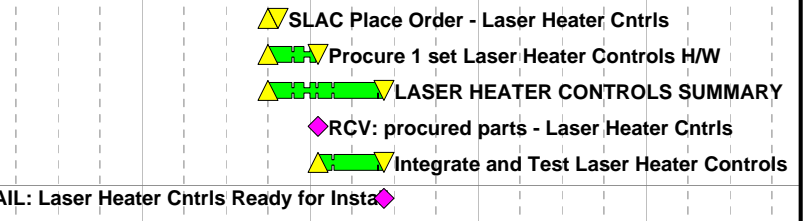
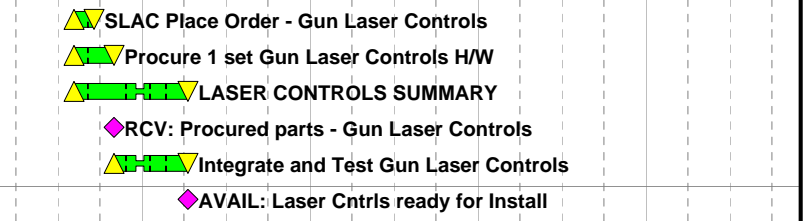
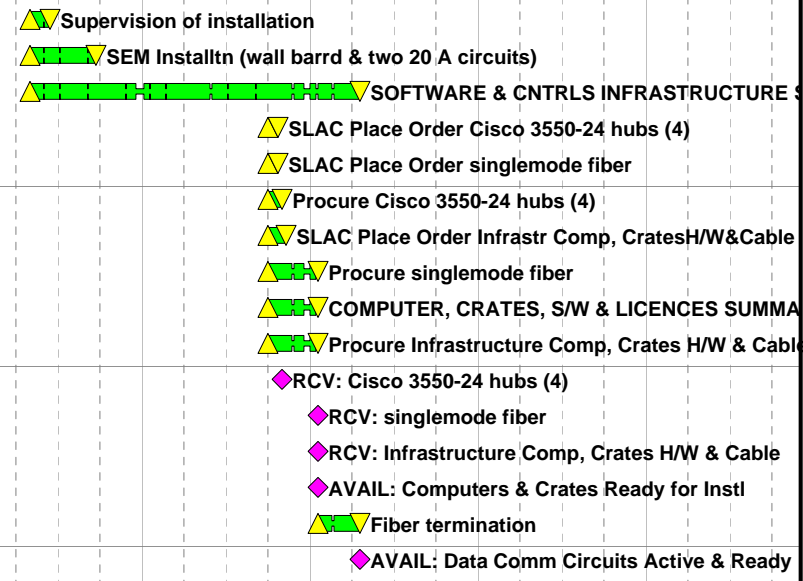
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 Critical Activity

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
1.02.02.10 Software & Controls Infrastructure										
IJ02080300	Supervision of installation	30	02MAY05*	13JUN05						
IJ02080301	SEM Installtn (wall barrd & two 20 A circuits)	100	02MAY05	21SEP05						
IJ0208	SOFTWARE & CNTRLS INFRASTRUCTURE	475	02MAY05	16APR07						
IJ02080336	SLAC Place Order Cisco 3550-24 hubs (4)	15	02OCT06	20OCT06						
IJ02080340	SLAC Place Order singlemode fiber	15	02OCT06	20OCT06						
IJ02080326	Procure Cisco 3550-24 hubs (4)	21	02OCT06*	30OCT06						
IJ02080405	SLAC Place Order Infrastr Comp, CratesH/W&Cable	30	02OCT06*	10NOV06						
IJ02080310	Procure singlemode fiber	63	02OCT06*	16JAN07						
IJ020804	COMPUTER, CRATES, S/W & LICENCES SUMMARY	63	02OCT06	16JAN07						
IJ02080401	Procure Infrastructure Comp, Crates H/W & Cable	63	02OCT06*	16JAN07						
IJ02080346	RCV: Cisco 3550-24 hubs (4)	0		30OCT06						
IJ02080350	RCV: singlemode fiber	0		16JAN07						
IJ02080410	RCV: Infrastructure Comp, Crates H/W & Cable	0		16JAN07						
IJ02080415	AVAIL: Computers & Crates Ready for Instl	0		16JAN07						
IJ02080314	Fiber termination	63	17JAN07	16APR07						
IJ02080330	AVAIL: Data Comm Circuits Active & Ready	0		16APR07						
1.02.02.12 Laser Controls										
IJ02040205	SLAC Place Order - Gun Laser Controls	30	04AUG05	15SEP05						
IJ02040201	Procure 1 set Gun Laser Controls H/W	63	04AUG05	01NOV05						
IJ0204	LASER CONTROLS SUMMARY	163	04AUG05	11APR06						
IJ02040210	RCV: Procured parts - Gun Laser Controls	0		01NOV05						
IJ02040215	Integrate and Test Gun Laser Controls	100	02NOV05	11APR06						
IJ02040220	AVAIL: Laser Cntrls ready for Install	0		11APR06						
1.02.02.13 Laser Heater Controls										
IJ02050205	SLAC Place Order - Laser Heater Cntrls	15	02OCT06	20OCT06						
IJ02050201	Procure 1 set Laser Heater Controls H/W	63	02OCT06	16JAN07						
IJ0205	LASER HEATER CONTROLS SUMMARY	163	02OCT06	07JUN07						
IJ02050210	RCV: procured parts - Laser Heater Cntrls	0		16JAN07						
IJ02050215	Integrate and Test Laser Heater Controls	100	17JAN07	07JUN07						
IJ02050220	AVAIL: Laser Heater Cntrls Ready for Install	0		07JUN07						
1.03 LINAC SYSTEM										
1.03.02 Linac Controls & Power Conversion Subsystem										
LN02	LINAC CNTRLS & PWR CONV SUBSYSTEM	690	01MAR05	03JAN08						
1.03.02.01 Personnel Protection System (PPS)										
LN02010040	Construction Funds Available - Begin Procurement	0	03OCT05							



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					2004	2005	2006	2007	2008	2009	
LN0201	PERSONNEL PROTECTION SUBSYSTEM SUMMARY	522	03OCT05	21NOV07							PERSONNEL PROTECTION SUBS
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 Cntr	20	06FEB06	06MAR06							▲ Vendors Prep Proposals - Mazes/Gates Access Cntr
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/Matl/Switch/Latch/Sol	20	10APR06	05MAY06							▲ Procure PPS Maze/Gate Hdwr/Matl/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/Matl/Switch/Latch	60	08MAY06	01AUG06							▲ Fab/PreAssy PPS Maze/Gate Hdwr/Matl/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
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

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					2004	2005	2006	2007	2008	2009	
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 Test▼		
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 Heliax, Andre	21	03OCT06	31OCT06					▼Procure BCS PLIC/LION Cableplant Heliax, 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		
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		
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					2004	2005	2006	2007	2008	2009		
LN02044004	Procure 30Amp Pwr Supply-(MCOR_4)(7-30Amp module	100	03OCT05	10MAR06								Procure 30Amp Pwr Supply-(MCOR_4)(7-30Amp module
LN020437	MCOR_1 (12Amp) SUMMARY	102	03OCT05	14MAR06								MCOR_1 (12Amp) SUMMARY
LN020438	MCOR_2 (30Amp) SUMMARY	102	03OCT05	14MAR06								MCOR_2 (30Amp) SUMMARY
LN020440	MCOR_4 (30Amp) SUMMARY	102	03OCT05	14MAR06								MCOR_4 (30Amp) SUMMARY
LN0204_384	RELEASE: RFP - Cable Tray Material- Tray and Div	3	24OCT05	26OCT05								RELEASE: RFP - Cable Tray Material- Tray and Div
LN0204_268	RELEASE: RFP - Single Bay Racks (DC/I&C)	14	24OCT05	10NOV05								RELEASE: RFP - Single Bay Racks (DC/I&C)
LN0204_320	RELEASE: RFP - Double Bay Racks	14	24OCT05	10NOV05								RELEASE: RFP - Double Bay Racks
LN0204_412	RELEASE: RFP - Linac Cableplant Installation-all	14	24OCT05	10NOV05								RELEASE: RFP - Linac Cableplant Installation-all
LN0204_386	Vendors Prep Proposals - Cable Tray Mtrl- Tray	10	27OCT05	09NOV05								Vendors Prep Proposals - Cable Tray Mtrl- Tray
LN0204_388	RCV: Proposals - Cable Tray Material- Tray and D	0		09NOV05								RCV: Proposals - Cable Tray Material- Tray and D
MSC_LN000	CRIT: Rel RFP Linac Cableplant Installation Proc	0		10NOV05								CRIT: Rel RFP Linac Cableplant Installation Proc
LN0204_390	Evaluate Proposals - Cable Tray Material- Tray a	2	10NOV05	11NOV05								Evaluate Proposals - Cable Tray Material- Tray a
LN0204_270	Vendors Prep Proposals - Single Bay Racks	20	11NOV05	12DEC05								Vendors Prep Proposals - Single Bay Racks
LN0204_322	Vendors Prep Proposals - Double Bay Racks	20	11NOV05	12DEC05								Vendors Prep Proposals - Double Bay Racks
LN0204_414	Vendors Prep Proposals - Cableplant Instl - all	30	11NOV05	10JAN06								Vendors Prep Proposals - Cableplant Instl - all
LN0204_272	RCV: Proposals - Single Bay Racks (DC/I&C)	0		12DEC05								RCV: Proposals - Single Bay Racks (DC/I&C)
LN0204_324	RCV: Proposals - Double Bay Racks	0		12DEC05								RCV: Proposals - Double Bay Racks
LN0204_274	Evaluate Proposals - Single Bay Racks (DC/I&C)	15	13DEC05	18JAN06								Evaluate Proposals - Single Bay Racks (DC/I&C)
LN0204_326	Evaluate Proposals - Double Bay Racks	15	13DEC05	18JAN06								Evaluate Proposals - Double Bay Racks
LN0204_021	Dev Engr (43 instaces - 18 types) CONST	350	03JAN06	05JUN07								Dev Engr (43 instaces - 18 types) CONST
LN0204_025	Create System Drawings	385	03JAN06	25JUL07								Create System Drawings
LN0204_416	RCV: Proposals - Linac Cableplant Installation	0		10JAN06								RCV: Proposals - Linac Cableplant Installation
LN0204_223	RCV: AC Breakers (108)	0		11JAN06								RCV: AC Breakers (108)
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



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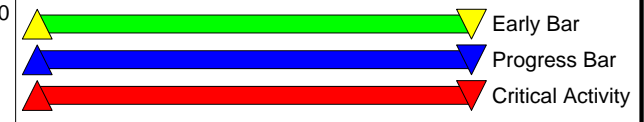
Controls

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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
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-Cbils	60	31MAY06	23AUG06				Integrate Rack/Crate-Mnted Controls & Intra-Cbils		
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		
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)		

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					2004	2005	2006	2007	2008	2009
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	
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)	

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					2004	2005	2006	2007	2008	2009	
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)		
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		

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					2004	2005	2006	2007	2008	2009	
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		
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		

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					2004	2005	2006	2007	2008	2009
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-Cbils	60	22MAR07	14JUN07	Integrate Rack/Crate-Mnted Controls & Intra-Cbils			⚠		
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 3			⚠		
LN0204_406	RCV: Misc Cable Tray Matrials Ready for Install	0		09APR07	RCV: Misc Cable Tray Matrials Ready for Install			◆		
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 Sply - Dipole Type	5	17APR07	23APR07	Vendors Prep Proposals - Pwr Sply - Dipole Type			⚠		
LN02043507	RCV: Vendor Proposals - Pwr Supply - Dipole Type	0		23APR07	RCV: Vendor Proposals - Pwr Supply - Dipole Type			◆		
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-Cbils	120	04MAY07	23OCT07	Integrate Rack/Crate-Mnted Controls & Intra-Cbils			⚠		
LN02040646	AVAIL: __kw Pwr Supply (B21-26) Ready for Instl	0		25JUL07	AVAIL: __kw Pwr Supply (B21-26) Ready for Instl			◆		
LN0204_298	Integrate Rack-Mnted Pwr Supplies & Intra-Cables	60	26JUL07	18OCT07	Integrate Rack-Mnted Pwr Supplies & Intra-Cables			⚠		

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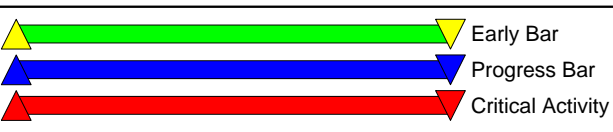
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
LN02061226	COMP: Controls Design - Movable Collimators	0		27SEP05			◆COMP: Controls Design - Movable Collimators			
LN02060127	Construction Funds Available - Begin Procurement	0		30SEP05			◆Construction 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			
LN020603	CONTROLS - TOROIDS (6) SUMMARY	109	03OCT05	23MAR06			⚠CONTROLS - TOROIDS (6) SUMMARY			
LN020613	CONTROLS - X-BAND ACCEL STRUCTURE	117	03OCT05	04APR06			⚠CONTROLS - X-BAND ACCEL STRUCTURE SUMMARY			
LN020607	CONTROLS - BUNCH LENGTH MONITORS SUMMARY	133	03OCT05	26APR06			⚠CONTROLS - BUNCH LENGTH MONITORS SUMMARY			
LN020608	CONTROLS - BEAM LOSS MONITORS (PLIC)	150	03OCT05	19MAY06			⚠CONTROLS - BEAM LOSS MONITORS (PLIC) SUMMARY			
LN020606	CONTROLS - E/O DIAGNOSTICS SUMMARY	154	03OCT05	25MAY06			⚠CONTROLS - E/O DIAGNOSTICS SUMMARY			
LN020604	CONTROLS - STOPPERS SUMMARY	169	03OCT05	16JUN06			⚠CONTROLS - STOPPERS SUMMARY			
LN020611	CONTROLS - PROTECTION COLLIMATOR SUMMARY	252	03OCT05	13OCT06			⚠CONTROLS - PROTECTION COLLIMATOR SUMMARY			
LN020609	CONTROLS - SINGLE BEAM DUMP SUMMARY	350	03OCT05	21MAR07			⚠CONTROLS - SINGLE BEAM DUMP SUMMARY			
LN020610	CONTROLS - E-BEAM DUMP SUMMARY	381	03OCT05	03MAY07			⚠CONTROLS - E-BEAM DUMP SUMMARY			
LN02060120	Establish Subordinate Work Orders	1	04OCT05*	04OCT05			⚠Establish Subordinate Work Orders			
LN02060126	COMP: Design - Release for Fab	0		04OCT05			◆COMP: Design - Release for Fab			
LN02060532	Procure Monitor Hardware (20 Units)	20	04OCT05	31OCT05			⚠Procure Monitor Hardware (20 Units)			
LN02060568	Procure 50B1 Profile Monitors	20	04OCT05	31OCT05			⚠Procure 50B1 Profile Monitors			
LN02062129	Procure BPMs and Cables (143)	20	04OCT05	31OCT05			⚠Procure BPMs and Cables (143)			

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					2004	2005	2006	2007	2008	2009	
LN02062135	Procure BPMs and Cables (143)	20	04OCT05	31OCT05			▲▼ Procure BPMs and Cables (143)				
LN02062138	Procure 50B1 BPMs	20	04OCT05	31OCT05			▲▼ Procure 50B1 BPMs				
LN02060331	Procure Torroid Shielding, Preamps, Hardware (6)	45	04OCT05	07DEC05			▲▼ Procure Torroid Shielding, Preamps, Hardware (6)				
LN02061325	Design X Band Controls	61	10OCT05	20JAN06			▲▼ Design X Band Controls				
LN02060166	Procure Wire Scanner Hardware (5)	20	17OCT05	11NOV05			▲▼ Procure Wire Scanner Hardware (5)				
LN02060736	Write Documentation - BLM Diagnostics	5	31OCT05	04NOV05			▲▼ Write Documentation - BLM Diagnostics				
LN02060556	Procure VME Cable - DAC (1)	20	01NOV05	30NOV05			▲▼ Procure VME Cable - DAC (1)				
LN02061234	Write Software - Movable Collimator	20	01NOV05	30NOV05			▲▼ Write Software - Movable Collimator				
LN02062234	Write Software - RF BPMs	20	01NOV05	30NOV05			▲▼ Write Software - RF BPMs				
LN02062139	Build LIU H/W	58	01NOV05	08FEB06			▲▼ Build LIU H/W				
LN02062340	Write Software - LTU BPMs	5	02NOV05	08NOV05			▲▼ Write Software - LTU BPMs				
LN02062440	Write Software - BC1 BPMs	5	02NOV05	08NOV05			▲▼ Write Software - BC1 BPMs				
LN02062342	Write Documentation- LTU BPMs	5	09NOV05	15NOV05			▲▼ Write Documentation- LTU BPMs				
LN02062442	Write Documentation- BC1 BPMs	5	09NOV05	15NOV05			▲▼ Write Documentation- BC1 BPMs				
LN02060176	Write Software - Wire Scanners	20	11NOV05	12DEC05			▲▼ Write Software - Wire Scanners				
LN02060170	Build Wire Scanner H/W (19)	38	14NOV05	24JAN06			▲▼ Build Wire Scanner H/W (19)				
LN02062347	Integrate and Test LTU BPMs	8	16NOV05	29NOV05			▲▼ Integrate and Test LTU BPMs				
LN02062443	Integration and Test BC1 BPMs	8	16NOV05	29NOV05			▲▼ Integration and Test BC1 BPMs				
LN02062348	AVAIL: BPM Cntrls Eq Ready for Rack Integ	0		29NOV05			◆ AVAIL: BPM Cntrls Eq Ready for Rack Integ				
LN02062448	AVAIL: BPM Cntrls Eq Ready for Rack Integ	0		29NOV05			◆ AVAIL: BPM Cntrls Eq Ready for Rack Integ				
LN02061236	Write Documentation - Movable Collimator	5	01DEC05	07DEC05			▲▼ Write Documentation - Movable Collimator				
LN02062236	Write Documentation- RF BPMs	5	01DEC05	07DEC05			▲▼ Write Documentation- RF BPMs				
LN02060558	Build Wire Profile Monitor H/W in Lab (4)	6	01DEC05	08DEC05			▲▼ Build Wire Profile Monitor H/W in Lab (4)				
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)				

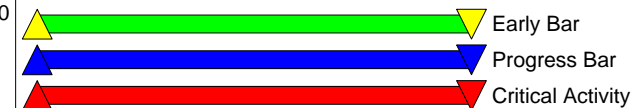


**LCLS
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Controls

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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
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			
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			



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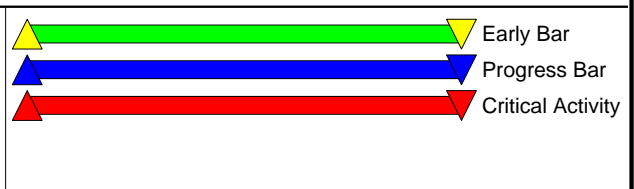
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					2004	2005	2006	2007	2008	2009
LN02061165	Build Collimator H/W	21	05JUL06	02AUG06			▲▼ Build Collimator H/W			
LN02061166	Write Software - Prot Collimator	20	03AUG06	30AUG06			▲▼ Write Software - Prot Collimator			
LN02061168	Write Documentation - 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			
1.03.02.08 Controls - Timing										
LN02080025	Prep Bid Pak - Linac Timing Modules	5	20SEP05*	26SEP05			▲▼ Prep Bid Pak - Linac Timing Modules			
LN0208	LINAC TIMING SUMMARY	56	20SEP05	08DEC05			▲▼ LINAC TIMING SUMMARY			
LN02080030	RELEASE: RFP - Linac Timing Modules	0		26SEP05			◆ RELEASE: RFP - Linac Timing Modules			
LN02080035	Vendors Prep Proposals - Timing Cntrls Equipment	5	27SEP05	03OCT05			▲▼ Vendors Prep Proposals - Timing Cntrls Equipment			
LN02080020	Construction Funds Available - Begin Procurement	0	03OCT05				◆ Construction Funds Available - Begin Procurement			
LN02080040	RCV: Vendor Proposals	0		03OCT05			◆ RCV: Vendor Proposals			
LN02080045	Evaluate Vendor Proposals	5	04OCT05	10OCT05			▲▼ Evaluate Vendor Proposals			
LN02080060	Vendor Fab & Assy - Timing modules (SLC to VME)	40	12OCT05	08DEC05			▲▼ Vendor Fab & Assy - Timing modules (SLC to VME)			
LN02080065	RCV: Linac Timing Equip/Material Ready for Integ	0		08DEC05			◆ RCV: Linac Timing Equip/Material Ready for Integ			
1.03.02.09 Controls - Vacuum										
LN02090070	Construction Funds Available - Begin Procurement	0	03OCT05				◆ Construction Funds Available - Begin Procurement			
LN02090000	Receive System Requirements	5	03OCT05	07OCT05			▲▼ Receive System Requirements			
LN02090102	Vendors Prep Proposals - Vacuum Gauge Chassis	5	03OCT05	07OCT05			▲▼ Vendors Prep Proposals - Vacuum Gauge Chassis			

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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish							
					2004	2005	2006	2007	2008	2009	
LN02090122	Vendors Prep Proposals - Vacuum Gauge Chassis	5	03OCT05	07OCT05							⚠ Vendors Prep Proposals - Vacuum Gauge Chassis
LN0209	VACUUM CONTROLS SUMMARY	156	03OCT05	30MAY06							⚠ VACUUM CONTROLS SUMMARY
LN02090104	RCV: Vendor Proposals - Vacuum Gauge Chassis (4)	0		07OCT05							⚠ RCV: Vendor Proposals - Vacuum Gauge Chassis (4)
LN02090124	RCV: Vendor Proposals - Vacuum Gauge Chassis (4)	0		07OCT05							⚠ RCV: Vendor Proposals - Vacuum Gauge Chassis (4)
LN02090061	Design - Vacuum Instrumentation	70	10OCT05	02FEB06							⚠ Design - Vacuum Instrumentation
LN02090065	COMP: Controls Design - Linac Vacuum	0		02FEB06							⚠ COMP: Controls Design - Linac Vacuum
LN02090078	Prep Bid Pak - Vac H/W	5	03FEB06	09FEB06							⚠ Prep Bid Pak - Vac H/W
LN02090196	Procure Vacuum Instrumentation & Iterlocks H/W	20	03FEB06	03MAR06							⚠ Procure Vacuum Instrumentation & Iterlocks H/W
LN02090080	RELEASE: RFP - Vacuum Valve Chassis (4)	0		09FEB06							⚠ RELEASE: RFP - Vacuum Valve Chassis (4)
LN02090082	Vendors Prep Proposals - Vacuum Valve Chassis	5	10FEB06	16FEB06							⚠ Vendors Prep Proposals - Vacuum Valve Chassis
LN02090084	RCV: Vendor Proposals - Vacuum Valve Chassis	0		16FEB06							⚠ RCV: Vendor Proposals - Vacuum Valve Chassis
LN02090086	Evaluate Vendor Proposals - Vac H/W	5	17FEB06	24FEB06							⚠ Evaluate Vendor Proposals - Vac H/W
LN02090090	Vendor Fab & Assy - Vacuum Valve Chassis (4)	20	28FEB06	27MAR06							⚠ Vendor Fab & Assy - Vacuum Valve Chassis (4)
LN02090092	RCV: from Vendor - Vacuum Valve Chassis (4)	0		27MAR06							⚠ RCV: from Vendor - Vacuum Valve Chassis (4)
LN02090112	RCV: from Vendor - Vacuum Gauge Chassis (4)	0		27MAR06							⚠ RCV: from Vendor - Vacuum Gauge Chassis (4)
LN02090132	RCV: from Vendor - Vacuum Pump 4 Ch. Chassis (4)	0		27MAR06							⚠ RCV: from Vendor - Vacuum Pump 4 Ch. Chassis (4)
LN02090200	RCV: Procured Equipment	0		27MAR06							⚠ RCV: Procured Equipment
LN02090205	Build Vacuum Control H/W	6	28MAR06	04APR06							⚠ Build Vacuum Control H/W
LN02090215	Write Software - Vac Controls	5	05APR06	11APR06							⚠ Write Software - Vac Controls
LN02090220	Write Documentation - Vac Controls	5	12APR06	18APR06							⚠ Write Documentation - Vac Controls
LN02090226	Integrate & Test	29	19APR06	30MAY06							⚠ Integrate & Test
LN02090235	AVAIL: Vac Controls Equip Ready for Install	0		30MAY06							⚠ AVAIL: Vac Controls Equip Ready for Install
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

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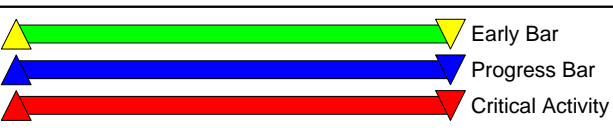
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LN02100530	Prep Bid Pak - VME Crates for BPMs	5	03JAN06	09JAN06			⚠			
LN02100550	Prep Bid Pak -VME Crates/Cntrl/Supt Chassis	5	03JAN06	09JAN06			⚠			
LN02100430	Fiber Cabling Installation	20	03JAN06	31JAN06			⚠			
LN02100620	Procure Cableplant	60	03JAN06	29MAR06			⚠			
LN02100630	Procure VME System I/O Distribution Cableplant	60	03JAN06	29MAR06			⚠			
LN02100512	RELEASE: RFP - VME Crates/IOCs/Interface Chassis	0		09JAN06*			⚠			
LN02100532	RELEASE: RFP - VME Crates for BPMs	0		09JAN06*			⚠			
LN02100552	RELEASE: RFP -VME Crates/Cntrl/Supt Chassis	0		09JAN06*			⚠			
LN02100514	Vendors Prep Proposals - Cntrls Computers	5	10JAN06	17JAN06			⚠			
LN02100534	Vendors Prep Proposals - VME Crates for BPMs	5	10JAN06	17JAN06			⚠			
LN02100554	Vendors Prep Proposals -VME Crates/Cntrl/Supt Ch	5	10JAN06	17JAN06			⚠			
LN02100516	RCV: Proposl - VME Crates/IOCs/Interface Chassis	0		17JAN06			⚠			
LN02100536	RCV: Proposals - VME Crates for BPMs	0		17JAN06			⚠			
LN02100556	RCV: Proposals -VME Crates/Cntrl/Supt Chassis	0		17JAN06			⚠			
LN02100518	Evaluate Vendors Proposals	5	18JAN06	24JAN06			⚠			
LN02100538	Evaluate Vendors Proposals	5	18JAN06	24JAN06			⚠			
LN02100558	Evaluate Vendors Proposals	5	18JAN06	24JAN06			⚠			
LN02100522	Vendor Fab/Assy VME Crates/IOCs/Interface Chssis	60	26JAN06	20APR06			⚠			
LN02100542	Vendor Fab & Assy - VME Crates for BPMs	60	26JAN06	20APR06			⚠			
LN02100562	Vendor Fab & Assy -VME Crates/Cntrl/Supt Chassis	60	26JAN06	20APR06			⚠			
LN02100435	Fiber Termination	60	01FEB06	26APR06			⚠			
LN02100625	RCV: Cableplant	0		29MAR06			⚠			
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			⚠			
LN02100544	RCV: from Vendors VME Crates for BPMs	0		20APR06			⚠			
LN02100564	RCV: VME Crates, Control & Support Chassis	0		20APR06			⚠			
LN02100640	Assemble and Integrate Equipment	30	21APR06	02JUN06			⚠			
LN02100440	Desktop Cabling Installation	1	27APR06	27APR06			⚠			
LN02100445	Cabling Installation in Ground & Sub Ground Loc	20	28APR06	25MAY06			⚠			
LN02100450	Cable Termination	20	26MAY06	23JUN06			⚠			
LN02100645	Conduct Pre-Install Testing	30	05JUN06	17JUL06			⚠			
LN02100455	Desktop Circuit Activation	1	26JUN06	26JUN06			⚠			
LN02100460	Telcom to Provide Phone & Activate Circuits	20	27JUN06	25JUL06			⚠			
LN02100650	AVAIL: Computers & Crates Ready	0		17JUL06			⚠			
LN02100465	Procure Cisco 3550-24 Hubs (6ea)	20	26JUL06	22AUG06			⚠			
LN02100470	Hub Installation & Data Circuit Activiation	20	23AUG06	20SEP06			⚠			
LN02100475	AVAIL: Data Comm Circuits Active & Ready	0		20SEP06			⚠			

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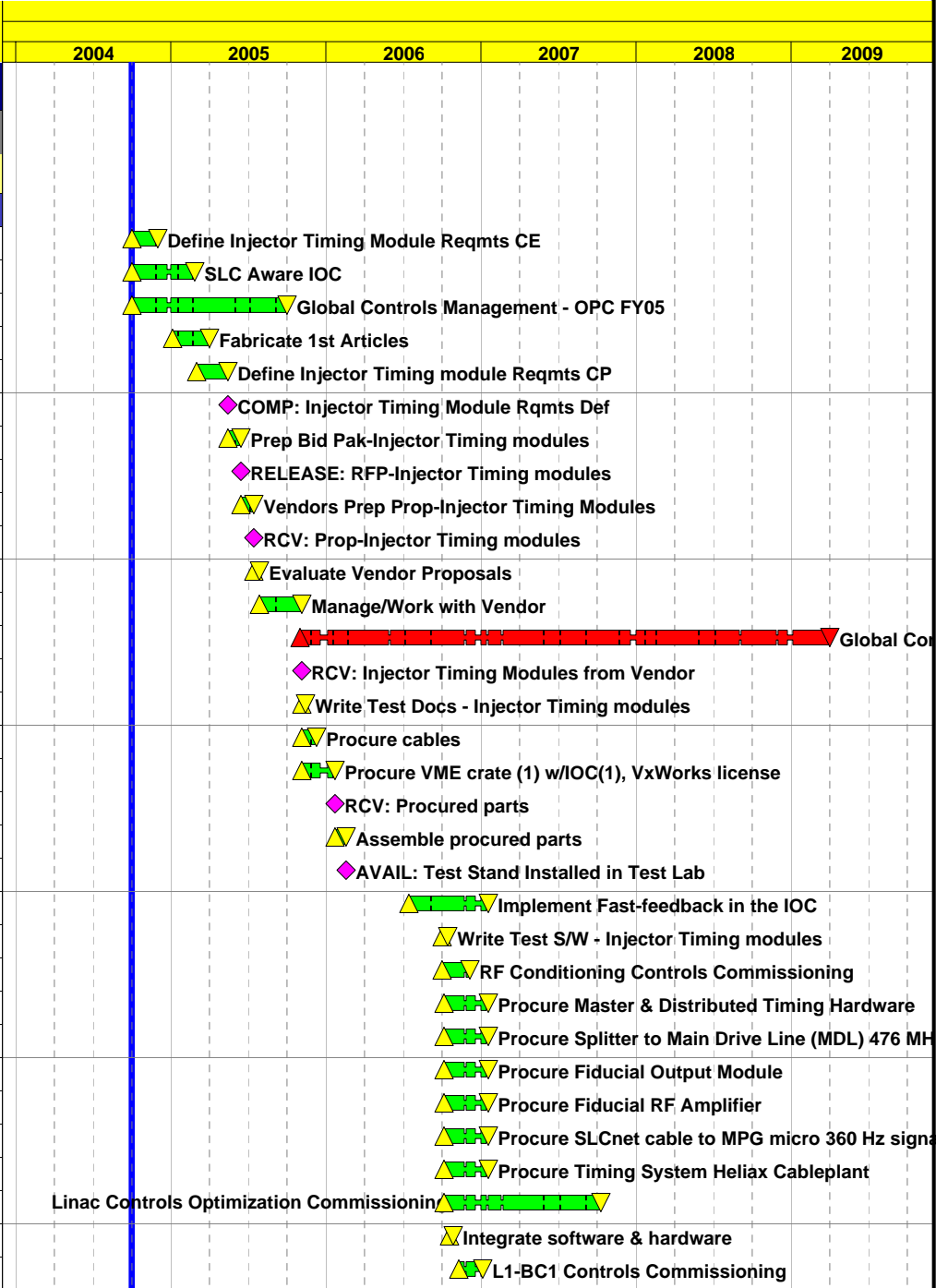
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**LCLS
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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
2 LCLS PROJECT - R&D, SPARES, COMMISSIONING				
2.01 LCLS PROJECT MGMT, PLANNING & ADMN (OPC)				
2.01.01 Physics Support (OPC)				
2.01.01.11 Global Controls OPC				
PM22210001	Define Injector Timing Module Reqmts CE	40	01OCT04	29NOV04
PM22210129	SLC Aware IOC	92	01OCT04	25FEB05
PM11C_001	Global Controls Management - OPC FY05	243	01OCT04	29SEP05
PM22210125	Fabricate 1st Articles	62	03JAN05*	31MAR05
PM22210000	Define Injector Timing module Reqmts CP	54	01MAR05*	13MAY05
PM22210005	COMP: Injector Timing Module Rqmts Def	0		13MAY05
PM22210010	Prep Bid Pak-Injector Timing modules	20	16MAY05	13JUN05
PM22210015	RELEASE: RFP-Injector Timing modules	0		13JUN05
PM22210020	Vendors Prep Prop-Injector Timing Modules	21	14JUN05	13JUL05
PM22210025	RCV: Prop-Injector Timing modules	0		13JUL05
PM22210030	Evaluate Vendor Proposals	10	14JUL05	27JUL05
PM22210045	Manage/Work with Vendor	70	28JUL05	03NOV05
PM11C_002	Global Controls Management - OPC FY06 forward	826	31OCT05*	31MAR09
PM22210050	RCV: Injector Timing Modules from Vendor	0		03NOV05
PM22210070	Write Test Docs - Injector Timing modules	5	04NOV05	10NOV05
PM22210065	Procure cables	21	04NOV05	06DEC05
PM22210060	Procure VME crate (1) w/IOC(1), VxWorks license	42	04NOV05	20JAN06
PM22210080	RCV: Procured parts	0		20JAN06
PM22210083	Assemble procured parts	18	23JAN06	15FEB06
PM22210085	AVAIL: Test Stand Installed in Test Lab	0		15FEB06
PM22210116	Implement Fast-feedback in the IOC	120	13JUL06	17JAN07
PM22210160	Write Test S/W - Injector Timing modules	10	02OCT06*	13OCT06
PM20101A05	RF Conditioning Controls Commissioning	45	02OCT06*	05DEC06
PM22210090	Procure Master & Distributed Timing Hardware	63	03OCT06	17JAN07
PM22210095	Procure Splitter to Main Drive Line (MDL) 476 MH	63	03OCT06	17JAN07
PM22210100	Procure Fiducial Output Module	63	03OCT06	17JAN07
PM22210105	Procure Fiducial RF Amplifier	63	03OCT06	17JAN07
PM22210110	Procure SLCnet cable to MPG micro 360 Hz signal	63	03OCT06	17JAN07
PM22210115	Procure Timing System Heliac Cableplant	63	03OCT06	17JAN07
PM20101B20	Linac Controls Optimization Commissioning	247	03OCT06*	08OCT07
PM22210165	Integrate software & hardware	10	16OCT06	27OCT06
PM20101B05	L1-BC1 Controls Commissioning	28	09NOV06	04JAN07



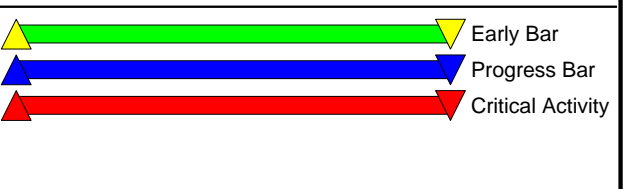
Start Date 01JUN01
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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Year							
					2004	2005	2006	2007	2008	2009		
PM22210003	Controls Commissioning	210	06DEC06	17OCT07								Controls Commissioning
PM20101A35	Injector Controls Optimization Commissioning	247	15DEC06*	07JAN08								Injector Controls Optimization Commissioning
PM22210117	Port Fast-feedback software from Kissnet to Ether	20	18JAN07	14FEB07								Port Fast-feedback software from Kissnet to Ether
PM22210055	Procure SLCnet cable to MPG micro 360 Hz signal	10	15FEB07	01MAR07								Procure SLCnet cable to MPG micro 360 Hz signal
PM22210075	Install access to PEP-II timing signal, control	1	02MAR07	02MAR07								Install access to PEP-II timing signal, control
PM22210170	Integrate with SLC Timing Sys	20	05MAR07	30MAR07								Integrate with SLC Timing Sys
PM22210175	Perform lab tests on Injector Timing modules	20	05MAR07	30MAR07								Perform lab tests on Injector Timing modules
PM22210180	AVAIL: Injector Timing Ready for Install	0		30MAR07								AVAIL: Injector Timing Ready for Install
PM20101A15	RF Gun Ops with Beam-Controls Commissioning-B	14	09JUL07	26JUL07								RF Gun Ops with Beam-Controls Commissioning-B
PM20101A10	RF Gun Ops with Beam-Controls Commissioning-A	65	09JUL07	08OCT07								RF Gun Ops with Beam-Controls Commissioning-A
PM20101A20	L0-1&L0-2 Controls Commissioning	65	29OCT07	15FEB08								L0-1&L0-2 Controls Commissioning
PM20101A30	DL1 Controls Commissioning	28	09NOV07	07JAN08								DL1 Controls Commissioning
PM20101A25	L0&SAB Controls Commissioning	24	26NOV07	14JAN08								L0&SAB Controls Commissioning
PM20101B10	L2-BC2-L3 Controls Commissioning	35	11DEC07	14FEB08								L2-BC2-L3 Controls Commissioning
PM20101B15	LTU + Dump Controls Commissioning	38	15FEB08	09APR08								LTU + Dump Controls Commissioning

2.02 INJECTOR SYSTEM (OPC)

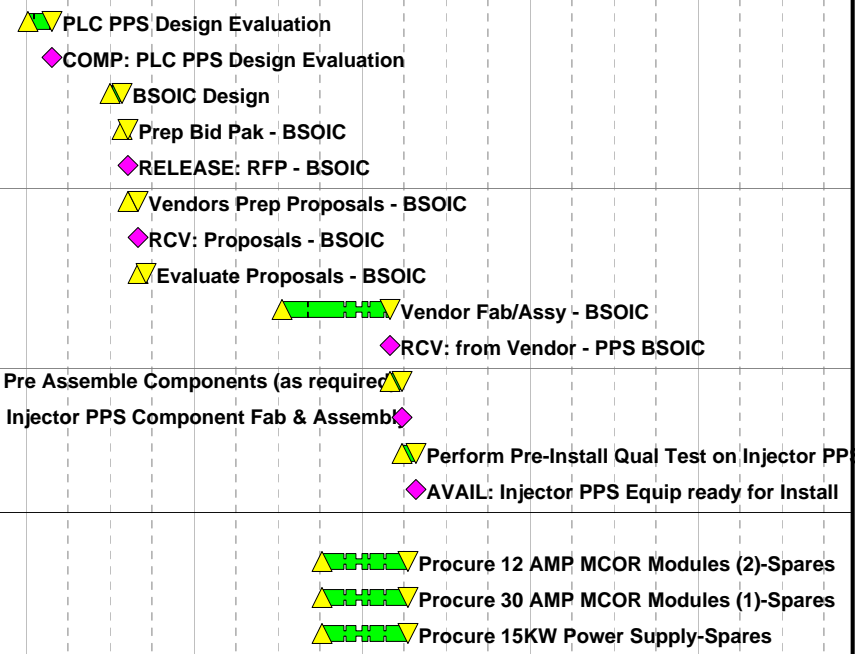
2.02.02 Injector Controls Subsystem

2.02.02.01 Personnel Protection System (PPS) R&D

IJ16020000	PLC PPS Design Evaluation	36	03JAN05*	23FEB05
IJ16020005	COMP: PLC PPS Design Evaluation	0		23FEB05
IJ16010047	BSOIC Design	18	01JUL05*	27JUL05
IJ16010225	Prep Bid Pak - BSOIC	10	28JUL05	10AUG05
IJ16010230	RELEASE: RFP - BSOIC	0		10AUG05
IJ16010235	Vendors Prep Proposals - BSOIC	15	11AUG05	31AUG05
IJ16010240	RCV: Proposals - BSOIC	0		31AUG05
IJ16010245	Evaluate Proposals - BSOIC	10	01SEP05	15SEP05
IJ16010255	Vendor Fab/Assy - BSOIC	150	12JUL06	28FEB07
IJ16010260	RCV: from Vendor - PPS BSOIC	0		28FEB07
IJ16010275	Fab and Pre Assemble Components (as required)	20	01MAR07	28MAR07
IJ16010286	COMP: Injector PPS Component Fab & Assembly	0		28MAR07
IJ16010288	Perform Pre-Install Qual Test on Injector PPS	20	29MAR07*	25APR07
IJ16010290	AVAIL: Injector PPS Equip ready for Install	0		25APR07

2.02.02.04 Power Conv (beamline pwr supp) Spares

IJ16020400	Procure 12 AMP MCOR Modules (2)-Spares	120	03OCT06*	09APR07
IJ16020405	Procure 30 AMP MCOR Modules (1)-Spares	120	03OCT06	09APR07
IJ16020410	Procure 15KW Power Supply-Spares	120	03OCT06	09APR07



Activity ID	Activity Description	Orig Dur	Early Start	Early Finish						
					2004	2005	2006	2007	2008	2009
2.03 LINAC SYSTEM (OPC)										
2.03.02 Linac Controls & Power Conversion Subsystem										
2.03.02.04 Power Conversion										
LN02043621	Spare Pwr Supply (Dipole Type) Procurement	100	03OCT06	12MAR07	▲▲▲▲▲ Spare Pwr Supply (Dipole Type) Procurement					
LN02045225	Spare Power Supply Procurement	100	03OCT06*	12MAR07	▲▲▲▲▲ Spare Power Supply Procurement					
LN02045317	Spare Pwr Supply (Quad Type) Procurement	100	03OCT06*	12MAR07	▲▲▲▲▲ Spare Pwr Supply (Quad Type) Procurement					
LN020452	SPARE PWR SUPPLY SUMMARY- TRIM TYPE (1ea)	102	03OCT06	14MAR07	▲▲▲▲▲ SPARE PWR SUPPLY SUMMARY- TRIM TYPE					
LN020436	SPARE PWR SUPPLY SUMMARY- DIPOLE TYPE (1ea)	115	03OCT06	02APR07	▲▲▲▲▲ SPARE PWR SUPPLY SUMMARY- DIPOLE TYPE					
LN020453	SPARE PWR SUPPLY SUMMARY- QUAD TYPE (1ea)	116	03OCT06	03APR07	▲▲▲▲▲ SPARE PWR SUPPLY SUMMARY- QUAD TYPE					
LN02045226	RCV: Spare MCOR System Hardware/Equip.	0		12MAR07	◆ RCV: Spare MCOR System Hardware/Equip.					
LN02045238	Integrate Cables	2	13MAR07	14MAR07	☒ Integrate Cables					
LN02043622	Assemble Pwr Supply, Transducer & Control	6	13MAR07	20MAR07	☒ Assemble Pwr Supply, Transducer & Control					
LN02045318	Assemble Pwr Supply, Transducer & Control	6	13MAR07	20MAR07	☒ Assemble Pwr Supply, Transducer & Control					
LN02045241	AVAIL: Spare Power Supply Available - Trim Type	0		14MAR07	AVAIL: Spare Power Supply Available - Trim Type ◆					
LN02043628	Integrate Pwr Supply, Transducer & Control	7	21MAR07	29MAR07	☒ Integrate Pwr Supply, Transducer & Control					
LN02045320	Integrate Pwr Supply, Transducer & Control	7	21MAR07	29MAR07	☒ Integrate Pwr Supply, Transducer & Control					
LN02043630	Integrate Cables	2	30MAR07	02APR07	☒ Integrate Cables					
LN02045322	Integrate Cables	2	30MAR07	02APR07	☒ Integrate Cables					
LN02043633	AVAIL: Spare Power Supply Available - Dipole Type	0		02APR07	AVAIL: Spare Power Supply Available - Dipole Type ◆					
LN02045324	Integrate Magnet Interlock	1	03APR07	03APR07	☒ Integrate Magnet Interlock					
LN02045326	AVAIL: Spare Power Supply Available - Quad Type	0		03APR07	AVAIL: Spare Power Supply Available - Quad Type ◆					

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