

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline				Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont %	Contingency \$
Description						Hours	\$	Labor	M&S					Total						
1	2	3	4	5	6															
						659,467	128,270,352	70,643,932	133,261,314	203,905,247		29,100,141								
LCLS PROJECT - PED & CONSTRUCTION						401,116	112,402,705	41,270,634	115,817,362	157,087,996		29,100,141								
LCLS PROJECT MGMT, PLANNING & ADMN (TEC)						61,820	2,734,894	6,586,345	2,929,223	9,515,568		1,073,907								
Environment, Safety & Health						14,637	214,057	1,627,387	202,194	1,829,581		182,958								
Radiation Physics						9,261	-	916,605	-	916,605		91,660								
1	01	01	01			Radiation Physics- FY07-CD4a	1-May-07	31-Jul-09	SL_PHH2	Hrs	7,770		764,429		764,429	10.0%	76,443			
1	01	01	01			Radiation Physics- CD4a-CD4b	3-Aug-09	28-May-10	SL_PHH2	Hrs	1,491		152,176		152,176	10.0%	15,218			
ESH Management & Coordination						5,376	124,057	710,783	124,057	834,840		83,484								
1	01	01	02			ESH Management & Coordination - FY07	1-May-07	28-Sep-07	SL_ESH2	Hrs	742		94,512		94,512	10.0%	9,451			
1	01	01	02			ESH Management & Coordination - FY08	1-Oct-07	30-Sep-08	SL_ESH2	Hrs	1,701		221,648		221,648	10.0%	22,165			
1	01	01	02			ESH Management & Coordination - FY09	1-Oct-08	30-Sep-09	SL_ESH2	Hrs	1,743		232,345		232,345	10.0%	23,234			
1	01	01	02			ESH Management & Coordination - FY10	1-Oct-09	28-May-10	SL_ESH2	Hrs	1,190		162,277		162,277	10.0%	16,228			
1	01	01	02			ESH Management & Coordination - FY07 (Hislop)	1-May-07	28-Sep-07	SL_MSPY2	\$\$		50,000		50,000		50,000	10.0%	5,000		
1	01	01	02			ESH Management & Coord - FY08-CD4a (Hislop)	2-Oct-07	30-May-08	SL_MSPY2	\$\$		74,057		74,057		74,057	10.0%	7,406		
Seismic & Engineering Support						-	90,000	-	78,137	78,137		7,814								
1	01	01	03			Professional Services-Project Office Support	1-May-07	28-May-10	SL_MSPTS2	\$\$		90,000		78,137		78,137	10.0%	7,814		
Project Management						30,168	2,002,575	3,339,111	2,151,239	5,490,350		382,079								
Project Management Office						30,168	2,002,575	3,339,111	2,151,239	5,490,350		382,079								
Project Office - General						26,629	-	2,945,934	-	2,945,934		147,297								
1	01	02	01	01		Project Director - FY07	1-May-07	28-Sep-07	SL_PM2	Hrs	371		60,144		60,144	5.0%	3,007			
1	01	02	01	01		Project Director - FY08	1-Oct-07	30-Sep-08	SL_PM2	Hrs	851		141,130		141,130	5.0%	7,057			
1	01	02	01	01		Project Director- FY09	1-Oct-08	30-Sep-09	SL_PM2	Hrs	872		147,939		147,939	5.0%	7,397			
1	01	02	01	01		Project Director- FY10	1-Oct-09	28-May-10	SL_PM2	Hrs	298		51,720		51,720	5.0%	2,586			
1	01	02	01	01		Senior Project Mgrs - FY07	1-May-07	28-Sep-07	SL_PM2	Hrs	1,113		180,431		180,431	5.0%	9,022			
1	01	02	01	01		Senior Project Mgrs - FY08	1-Oct-07	30-Sep-08	SL_PM2	Hrs	2,552		423,225		423,225	5.0%	21,161			
1	01	02	01	01		Senior Project Mgrs - FY09	1-Oct-08	30-Sep-09	SL_PM2	Hrs	2,615		443,647		443,647	5.0%	22,182			
1	01	02	01	01		Senior Project Mgrs - FY10	1-Oct-09	28-May-10	SL_PM2	Hrs	893		154,986		154,986	5.0%	7,749			
1	01	02	01	01		Budget/Finance Officer - FY07	1-May-07	28-Sep-07	SL_FA2	Hrs	371		33,254		33,254	5.0%	1,663			
1	01	02	01	01		Budget/Finance Officer - FY08	1-Oct-07	30-Sep-08	SL_FA2	Hrs	851		78,033		78,033	5.0%	3,902			
1	01	02	01	01		Budget/Finance Officer - FY09	1-Oct-08	30-Sep-09	SL_FA2	Hrs	872		81,797		81,797	5.0%	4,090			
1	01	02	01	01		Budget/Finance Officer - FY10	1-Oct-09	28-May-10	SL_FA2	Hrs	298		28,597		28,597	5.0%	1,430			
1	01	02	01	01		Administrative Support - FY07	1-May-07	28-Sep-07	SL_ADMN2	Hrs	1,484		86,797		86,797	5.0%	4,340			
1	01	02	01	01		Administrative Support - FY08	1-Oct-07	30-Sep-08	SL_ADMN2	Hrs	3,402		203,555		203,555	5.0%	10,178			
1	01	02	01	01		Administrative Support - FY09	1-Oct-08	30-Sep-09	SL_ADMN2	Hrs	2,615		160,065		160,065	5.0%	8,003			
1	01	02	01	01		Administrative Support - FY10	1-Oct-09	28-May-10	SL_ADMN2	Hrs	1,190		74,515		74,515	5.0%	3,726			
1	01	02	01	01		E-Beam Systems Manager - FY07	1-May-07	28-Sep-07	SL_TSM2	Hrs	371		39,281		39,281	5.0%	1,964			
1	01	02	01	01		E-Beam Systems Manager - FY08	1-Oct-07	30-Sep-08	SL_TSM2	Hrs	851		92,174		92,174	5.0%	4,609			
1	01	02	01	01		E-Beam Systems Manager - FY09	1-Oct-08	30-Sep-09	SL_TSM2	Hrs	872		96,621		96,621	5.0%	4,831			
1	01	02	01	01		E-Beam Systems Manager - FY10	1-Oct-09	28-May-10	SL_TSM2	Hrs	298		33,779		33,779	5.0%	1,689			
1	01	02	01	01		Finance Administrative Support - FY07	1-May-07	28-Sep-07	SL_ADMN2	Hrs	186		10,879		10,879	5.0%	544			
1	01	02	01	01		Finance Administrative Support - FY08	1-Oct-07	30-Sep-08	SL_ADMN2	Hrs	425		25,429		25,429	5.0%	1,271			
1	01	02	01	01		Finance Administrative Support - FY09	1-Oct-08	30-Sep-09	SL_ADMN2	Hrs	436		26,688		26,688	5.0%	1,334			
1	01	02	01	01		Finance Administrative Support - FY10	1-Oct-09	28-May-10	SL_ADMN2	Hrs	150		9,393		9,393	5.0%	470			
1	01	02	01	01		Photon System Manager - FY07	1-May-07	28-Sep-07	SL_TSM2	Hrs	371		39,281		39,281	5.0%	1,964			
1	01	02	01	01		Photon System Manager - FY08	1-Oct-07	30-Sep-08	SL_TSM2	Hrs	851		92,174		92,174	5.0%	4,609			
1	01	02	01	01		Photon System Manager - FY09	1-Oct-08	30-Sep-09	SL_TSM2	Hrs	872		96,621		96,621	5.0%	4,831			
1	01	02	01	01		Photon System Manager - FY10	1-Oct-09	28-May-10	SL_TSM2	Hrs	298		33,779		33,779	5.0%	1,689			
Project Support						3,539	1,645,839	393,177	1,743,710	2,136,887		194,030								
1	01	02	01	02		Additional Procmnt Consulting Serv thru Dec 07	1-May-07	14-Dec-07	SL_MSPY2	\$\$		269,874		269,874		269,874	10.0%	26,987		
1	01	02	01	02		Additional Procmnt Consulting Serv thru Sep 09	2-Jan-08	30-Sep-09	SL_MSPY2	\$\$		372,562		372,562		372,562	10.0%	37,256		
1	01	02	01	02		QA/QC Support - FY07	1-May-07	28-Sep-07	SL_QAO2	Hrs	371		42,963		42,963	5.0%	2,148			
1	01	02	01	02		QA/QC Support - FY08	1-Oct-07	30-Sep-08	SL_QAO2	Hrs	851		100,815		100,815	5.0%	5,041			
1	01	02	01	02		QA/QC Support - FY09	1-Oct-08	30-Sep-09	SL_QAO2	Hrs	436		52,839		52,839	5.0%	2,642			
1	01	02	01	02		QA/QC Support - FY10	1-Oct-09	28-May-10	SL_QAO2	Hrs	119		14,753		14,753	5.0%	738			
1	01	02	01	02		Computing Mgr Support - FY07	1-May-07	28-Sep-07	SL_CRM2	Hrs	279		32,309		32,309	5.0%	1,615			
1	01	02	01	02		Computing Mgr Support - FY08	1-Oct-07	30-Sep-08	SL_CRM2	Hrs	639		75,700		75,700	5.0%	3,785			
1	01	02	01	02		Computing Mgr Support - FY09	1-Oct-08	30-Sep-09	SL_CRM2	Hrs	326		39,508		39,508	5.0%	1,975			
1	01	02	01	02		Computing Mgr Support - FY10	1-Oct-09	28-May-10	SL_CRM2	Hrs	90		11,158		11,158	5.0%	558			
1	01	02	01	02		Computing Res Support - FY07	1-May-07	28-Sep-07	SL_CRA2	Hrs	93		4,902		4,902	5.0%	245			
1	01	02	01	02		Computing Res Support - FY08	1-Oct-07	30-Sep-08	SL_CRA2	Hrs	214		11,539		11,539	5.0%	577			
1	01	02	01	02		Computing Res Support - FY09	1-Oct-08	30-Sep-09	SL_CRA2	Hrs	107		5,902		5,902	5.0%	295			
1	01	02	01	02		Computing Res Support - FY10	1-Oct-09	28-May-10	SL_CRA2	Hrs	14		790		790	5.0%	39			
1	01	02	01	02		AWARD: PMCS Support - Maintenance - FY07	1-May-07	1-May-07	SL_AWARD	\$\$		244,280		281,028		281,028	10.0%	28,103		
1	01	02	01	02		PMCS Support - Maintenance - FY07	1-May-07	28-Sep-07	SA_MSPTS2	\$\$		232,648		249,423		249,423	10.0%	24,942		
1	01	02	01	02		AWARD: PMCS Support - Maintenance - FY08	1-Oct-07	1-Oct-07	SL_AWARD	\$\$		825,685		974,593		974,593	10.0%	97,459		
1	01	02	01	02		PMCS Support - Maintenance - FY08	1-Oct-07	30-Sep-08	SA_MSPTS2	\$\$		558,356		612,384		612,384	10.0%	61,238		
1	01	02	01	02		AWARD: PMCS Support - Maintenance - FY09	1-Oct-08	1-Oct-08	SL_AWARD	\$\$		384,258		465,350		465,350	10.0%	46,535		
1	01	02	01	02		PMCS Support - Maintenance - FY09	1-Oct-08	30-Sep-09	SA_MSPTS2	\$\$		167,507		187,941		187,941	10.0%	18,794		
1	01	02	01	02		PMCS Support - Maintenance - FY10	1-Oct-09	28-May-10	SA_MSPTS2	\$\$		44,892		51,527		51,527	10.0%	5,153		
Project Office M&S						-	356,736	-	407,529	407,529		40,753								
1	01	02	01	03		SLAC Project Office Consumables- FY07	1-May-07	28-Sep-07	SL_MSPTS2	\$\$		53,600		57,465		57,465	10.0%	5,746		
1	01	02	01	03		SLAC Project Office Consumables- FY08	1-Oct-07	30-Sep-08	SL_MSPTS2	\$\$		128,640		141,088		141,088	10.0%	14,109		

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early	Early	Res	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont	Contingency	
						Description	Start	Finish	Code		Hours	\$	Labor	M&S	Total	%	\$	
1	01	02	01	03	6	SLAC Project Office Consumables- FY09	1-Oct-08	30-Sep-09	SL_MSCS2	\$\$		32,160		36,083	36,083	10.0%	3,608	
1	01	02	01	03	SLAC Project Office Consumables- FY10	1-Oct-09	28-May-10	SL_MSCS2	\$\$		32,160		36,913	36,913	10.0%	3,691		
1	01	02	01	03	Project Related Travel/ Shipping - FY07	1-May-07	28-Sep-07	SL_MSTR2	\$\$		12,500		15,345	15,345	10.0%	1,535		
1	01	02	01	03	Project Related Travel/ Shipping - FY08	1-Oct-07	30-Sep-08	SL_MSTR2	\$\$		30,000		37,675	37,675	10.0%	3,768		
1	01	02	01	03	Project Related Travel/ Shipping - FY09	1-Oct-08	30-Sep-09	SL_MSTR2	\$\$		30,000		38,542	38,542	10.0%	3,854		
1	01	02	01	03	Project Related Travel/ Shipping - FY10	1-Oct-09	28-May-10	SL_MSTR2	\$\$		15,000		19,714	19,714	10.0%	1,971		
1	01	02	01	03	Software Licenses	1-May-07	30-Sep-08	SL_MSEG2	\$\$		22,676		24,705	24,705	10.0%	2,471		
1	01	03			Technical Integration						17,015	518,262	1,619,847	575,790	2,195,636		508,870	
1	01	03			System Integration						7,739	-	745,921	-	745,921		149,184	
1	01	03	03		Installation Coordination - FY07	1-May-07	28-Sep-07	SL_IPM2	Hrs		742		78,561			20.0%	15,712	
1	01	03	03		Installation Coordination - FY08	1-Oct-07	30-Sep-08	SL_IPM2	Hrs		1,701		184,240		184,240	20.0%	36,848	
1	01	03	03		Installation Coordination - FY09	1-Oct-08	30-Sep-09	SL_IPM2	Hrs		872		96,621		96,621	20.0%	19,324	
1	01	03	03		Installation Coordination - FY10	1-Oct-09	28-May-10	SL_IPM2	Hrs		238		26,978		26,978	20.0%	5,396	
1	01	03	03		Design Supervisor - FY07	1-May-07	28-Sep-07	SL_MDD2	Hrs		742		61,949		61,949	20.0%	12,390	
1	01	03	03		Design Supervisor - FY08	1-Oct-07	30-Sep-08	SL_MDD2	Hrs		1,701		145,281		145,281	20.0%	29,056	
1	01	03	03		Design Supervisor - FY09	1-Oct-08	30-Sep-09	SL_MDD2	Hrs		1,743		152,292		152,292	20.0%	30,458	
1	01	03	05		Global Controls						9,276	518,262	873,926	575,790	1,449,715		359,685	
1	01	03	05	05	Laser Heater Controls						504	-	50,279	-	50,279		17,598	
1	01	03	05	05	Laser Heater Controls Conceptual Design	1-May-07	25-May-07	SL_CP2	Hrs		80		6,574		6,574	35.0%	2,301	
1	01	03	05	05	Laser Heater Controls Conceptual Design	1-May-07	25-May-07	SL_CE2	Hrs		80		9,016		9,016	35.0%	3,156	
1	01	03	05	05	Conceptual Design Review	29-May-07	29-May-07	SL_CE2	Hrs		8		902		902	35.0%	316	
1	01	03	05	05	Laser Heater Controls Preliminary Design	30-May-07	26-Jun-07	SL_CE2	Hrs		80		9,016		9,016	35.0%	3,156	
1	01	03	05	05	Preliminary Design Review (PDR)	27-Jun-07	27-Jun-07	SL_CE2	Hrs		8		902		902	35.0%	316	
1	01	03	05	05	Laser Heater Controls Final Design	28-Jun-07	30-Jul-07	SL_CE2	Hrs		80		9,016		9,016	35.0%	3,156	
1	01	03	05	05	Laser Heater Controls Final Design Review (FDR)	31-Jul-07	31-Jul-07	SL_CE2	Hrs		8		902		902	35.0%	316	
1	01	03	05	05	Laser Heater Controls Prototype Hardware	1-Aug-07	15-Aug-07	SL_CT2	Hrs		80		4,936		4,936	35.0%	1,728	
1	01	03	05	05	Laser Heater Controls Prototype Hardware	1-Aug-07	15-Aug-07	SL_CE2	Hrs		80		9,016		9,016	35.0%	3,156	
1	01	03	05	09	Power Supply Controls						4,897	-	411,493	-	411,493		102,873	
1	01	03	05	09	Controls Power Supplies Management FY07	1-May-07	28-Sep-07	SL_CP2	Hrs		742		60,971		60,971	25.0%	15,243	
1	01	03	05	09	Controls Power Supplies Technical Lead FY07	1-May-07	28-Sep-07	SL_CP2	Hrs		148		12,161		12,161	25.0%	3,040	
1	01	03	05	09	Power Conversion Project Coordinator (10% time)	1-May-07	28-Sep-07	SL_TSM2	Hrs		74		7,835		7,835	25.0%	1,959	
1	01	03	05	09	Misc. Power Supplies Support FY07	1-May-07	28-Sep-07	SL_TMUE2	Hrs		74		7,085		7,085	25.0%	1,771	
1	01	03	05	09	Misc. Power Supplies Support FY07	1-May-07	28-Sep-07	SL_PCT2	Hrs		74		4,566		4,566	25.0%	1,141	
1	01	03	05	09	Misc. Power Supplies Support FY07	1-May-07	28-Sep-07	SL_EE2	Hrs		74		6,878		6,878	25.0%	1,720	
1	01	03	05	09	Misc. Power Supplies Support FY07	1-May-07	28-Sep-07	SL_CT2	Hrs		74		4,566		4,566	25.0%	1,141	
1	01	03	05	09	Misc. Power Supplies Support FY07	1-May-07	28-Sep-07	SL_CP2	Hrs		74		6,081		6,081	25.0%	1,520	
1	01	03	05	09	Controls Power Supplies Management FY08	1-Oct-07	30-Sep-08	SL_CP2	Hrs		851		71,535		71,535	25.0%	17,884	
1	01	03	05	09	Power Conversion Project Coordinator (10% time)	1-Oct-07	30-Sep-08	SL_TSM2	Hrs		170		18,413		18,413	25.0%	4,603	
1	01	03	05	09	Misc. Power Supplies Support FY08	1-Oct-07	30-Sep-08	SL_TMUE2	Hrs		170		16,650		16,650	25.0%	4,163	
1	01	03	05	09	Misc. Power Supplies Support FY08	1-Oct-07	30-Sep-08	SL_PCT2	Hrs		170		10,730		10,730	25.0%	2,683	
1	01	03	05	09	Misc. Power Supplies Support FY08	1-Oct-07	30-Sep-08	SL_EE2	Hrs		170		16,165		16,165	25.0%	4,041	
1	01	03	05	09	Misc. Power Supplies Support FY08	1-Oct-07	30-Sep-08	SL_CT2	Hrs		170		10,730		10,730	25.0%	2,683	
1	01	03	05	09	Misc. Power Supplies Support FY08	1-Oct-07	30-Sep-08	SL_CP2	Hrs		170		14,290		14,290	25.0%	3,573	
1	01	03	05	09	Controls Power Supplies Management FY09	1-Oct-08	31-Jul-09	SL_CP2	Hrs		288		24,766		24,766	25.0%	6,192	
1	01	03	05	09	LINAC Drawings	1-May-07	19-Jul-07	SL_MDD2	Hrs		504		42,078		42,078	25.0%	10,520	
1	01	03	05	09	Undulator Drawings	20-Jul-07	11-Dec-07	SL_MDD2	Hrs		900		75,992		75,992	25.0%	18,998	
1	01	03	05	10	Controls - PPS						1,468	-	166,503	-	166,503		74,926	
1	01	03	05	10	LTU PPS Conceptual Design	1-May-07	30-Jul-07	SL_CE2	Hrs		334		37,642		37,642	45.0%	16,939	
1	01	03	05	10	LTU Preliminary Design	31-Jul-07	25-Sep-07	SL_CE2	Hrs		669		75,397		75,397	45.0%	33,929	
1	01	03	05	10	Functional Requirements Review	31-Jul-07	23-Oct-07	SL_CE2	Hrs		77		8,730		8,730	45.0%	3,929	
1	01	03	05	10	LTU Final Design	24-Oct-07	11-Jan-08	SL_CE2	Hrs		334		38,508		38,508	45.0%	17,329	
1	01	03	05	10	External Review	24-Oct-07	11-Jan-08	SL_CE2	Hrs		38		4,381		4,381	45.0%	1,972	
1	01	03	05	10	Final Design Review (FDR)	14-Jan-08	14-Jan-08	SL_CE2	Hrs		16		1,845		1,845	45.0%	830	
1	01	03	05	11	Controls - MPS						-	22,000	-	23,586	23,586		4,717	
1	01	03	05	11	RCV: MPS Prototype Equipment/Hardware	27-Jul-07	27-Jul-07	SL_MSEG2	\$\$			22,000		23,586		23,586	20.0%	4,717
1	01	03	05	12	Global Controls Management						2,407	496,262	245,651	552,203	797,854		159,571	
1	01	03	05	12	Global Controls Management LOE						2,407	382,262	245,651	422,389	668,039		133,608	
1	01	03	05	12	Controls Cost Account Manager - FY07	1-May-07	28-Sep-07	SL_TSM2	Hrs		74		7,835		7,835	20.0%	1,567	
1	01	03	05	12	Controls Deputy Cost Account Manager - FY07	1-May-07	28-Sep-07	SL_TSM2	Hrs		371		39,281		39,281	20.0%	7,856	
1	01	03	05	12	Controls Physicist - FY07	1-May-07	28-Sep-07	SL_PHH2	Hrs		371		35,527		35,527	20.0%	7,105	
1	01	03	05	12	Controls Technical Coordinator - FY07	1-May-07	28-Sep-07	SL_CE2	Hrs		371		41,812		41,812	20.0%	8,362	
1	01	03	05	12	Controls E-Beam Diagnostics Tech Lead - FY07	1-May-07	28-Sep-07	SL_MSPS2	\$\$			48,583		52,086		52,086	20.0%	10,417
1	01	03	05	12	Controls - Wire Scanners Tech Lead - FY07	1-May-07	28-Sep-07	SL_MSPS2	\$\$			48,583		52,086		52,086	20.0%	10,417
1	01	03	05	12	Controls XT/XE Tech Lead - FY07	1-May-07	28-Sep-07	SL_MSPS2	\$\$			29,150		31,252		31,252	20.0%	6,250
1	01	03	05	12	Controls Cost Account Manager - FY08	1-Oct-07	30-Sep-08	SL_TSM2	Hrs		170		18,413		18,413	20.0%	3,683	
1	01	03	05	12	Controls XT/XE Tech Lead - FY08	1-Oct-07	30-Sep-08	SL_MSPS1	\$\$			66,825		73,722		73,722	20.0%	14,744
1	01	03	05	12	Controls Cost Account Manager - FY09	1-Oct-08	30-Sep-09	SL_TSM2	Hrs		42		4,654		4,654	20.0%	931	
1	01	03	05	12	Controls Deputy Cost Account Manager - FY09	1-Oct-08	30-Sep-09	SL_TSM1	Hrs		208		23,251		23,251	20.0%	4,650	
1	01	03	05	12	Controls Physicist - FY09	1-Oct-08	30-Sep-09	SL_PHH2	Hrs		208		20,845		20,845	20.0%	4,169	
1	01	03	05	12	Controls Technical Coordinator - FY09	1-Oct-08	30-Sep-09	SL_CE2	Hrs		208		24,533		24,533	20.0%	4,907	
1	01	03	05	12	Controls E-Beam Diagnostics Tech Lead - FY09	1-Oct-08	30-Sep-09	SL_MSPS2	\$\$			57,063		64,024		64,024	20.0%	12,805
1	01	03	05	12	Controls - Wire Scanners Tech Lead - FY09	1-Oct-08	30-Sep-09	SL_MSPS2	\$\$			57,063		64,024		64,024	20.0%	12,805

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont %	Contingency \$
Description						Hours					\$	Labor	M&S	Total			
1	01	03	05	12	01	Controls XT/XE Tech Lead - FY09	1-Oct-08	30-Sep-09	SL_MSPS2	\$\$		34,238		38,415	38,415	20.0%	7,683
1	01	03	05	12	01	Controls Cost Account Manager - FY10	1-Oct-09	31-May-10	SL_TSM2	Hrs	24		2,720		2,720	20.0%	544
1	01	03	05	12	01	Controls Physicist - FY10	1-Oct-09	31-May-10	SL_PHH2	Hrs	120		12,302		12,302	20.0%	2,460
1	01	03	05	12	01	Controls Technical Coordinator - FY10	1-Oct-09	31-May-10	SL_CE2	Hrs	120		14,479		14,479	20.0%	2,896
1	01	03	05	12	01	Controls E-Beam Diagnostics Tech Lead - FY10	1-Oct-09	31-May-10	SL_MSPS2	\$\$		15,676		17,993	17,993	20.0%	3,599
1	01	03	05	12	01	Controls - Wire Scanners Tech Lead - FY10	1-Oct-09	31-May-10	SL_MSPS2	\$\$		15,676		17,993	17,993	20.0%	3,599
1	01	03	05	12	01	Controls XT/XE Tech Lead - FY10	1-Oct-09	31-May-10	SL_MSPS2	\$\$		9,405		10,795	10,795	20.0%	2,159
1	01	03	05	12	02	Global Controls Management					-	114,000	-	129,814	129,814		25,963
1	01	03	05	12	02	Controls - Travel FY07	1-May-07	28-Sep-07	SL_MSTR2	\$\$		25,000		30,690	30,690	20.0%	6,138
1	01	03	05	12	02	Controls - Materials & Supplies - FY07	1-May-07	28-Sep-07	SL_MSCS2	\$\$		10,000		10,721	10,721	20.0%	2,144
1	01	03	05	12	02	Controls - Training - FY07	1-May-07	28-Sep-07	SL_MSCS2	\$\$		10,000		10,721	10,721	20.0%	2,144
1	01	03	05	12	02	Controls - Misc. Hardware - FY07	1-May-07	28-Sep-07	SL_MSEG2	\$\$		25,000		26,803	26,803	20.0%	5,361
1	01	03	05	12	02	Controls - Travel FY08	1-Oct-07	30-Sep-08	SL_MSTR2	\$\$		12,500		15,698	15,698	20.0%	3,140
1	01	03	05	12	02	Controls - Materials & Supplies - FY08	1-Oct-07	30-Sep-08	SL_MSCS2	\$\$		5,000		5,484	5,484	20.0%	1,097
1	01	03	05	12	02	Controls - Training - FY08	1-Oct-07	30-Sep-08	SL_MSCS2	\$\$		5,000		5,484	5,484	20.0%	1,097
1	01	03	05	12	02	Controls - Misc. Hardware - FY08	1-Oct-07	30-Sep-08	SL_MSEG2	\$\$		12,500		13,710	13,710	20.0%	2,742
1	01	03	05	12	02	Controls - Travel FY09	1-Oct-08	31-Mar-09	SL_MSTR2	\$\$		2,500		3,212	3,212	20.0%	642
1	01	03	05	12	02	Controls - Materials & Supplies - FY09	1-Oct-08	31-Mar-09	SL_MSCS2	\$\$		2,000		2,244	2,244	20.0%	449
1	01	03	05	12	02	Controls - Training - FY09	1-Oct-08	31-Mar-09	SL_MSCS2	\$\$		2,000		2,244	2,244	20.0%	449
1	01	03	05	12	02	Controls - Misc. Hardware - FY09	1-Oct-08	31-Mar-09	SL_MSEG2	\$\$		2,500		2,805	2,805	20.0%	561
1	02					INJECTOR SYSTEM					301	195,400	26,252	210,484	236,736		53,657
1	02	02				Injector Controls Subsystem					60	84,100	5,294	90,164	95,458		18,338
1	02	02	13			Laser Heater Controls					60	84,100	5,294	90,164	95,458		18,338
1	02	02	13			RCV: 4 Camera	29-Aug-07	29-Aug-07	SL_MSEG2	\$\$		12,000		12,865	12,865	10.0%	1,287
1	02	02	13			RCV: 4 PMC Interface and Cables	29-Aug-07	29-Aug-07	SL_MSEG2	\$\$		10,400		11,150	11,150	20.0%	2,230
1	02	02	13			RCV: 4 Interrack Cables	29-Aug-07	29-Aug-07	SL_MSEG2	\$\$		500		536	536	25.0%	134
1	02	02	13			RCV: 1 Motor Drivers	29-Aug-07	29-Aug-07	SL_MSEG2	\$\$		6,500		6,969	6,969	20.0%	1,394
1	02	02	13			RCV: 8 Motor Drivers	29-Aug-07	29-Aug-07	SL_MSEG2	\$\$		10,400		11,150	11,150	20.0%	2,230
1	02	02	13			RCV: 5 IOCs CPU/EVR/Span	29-Aug-07	29-Aug-07	SL_MSEG2	\$\$		28,000		30,019	30,019	20.0%	6,004
1	02	02	13			RCV: 1 IOC Crate	29-Aug-07	29-Aug-07	SL_MSEG2	\$\$		10,000		10,721	10,721	20.0%	2,144
1	02	02	13			RCV: 1 UPS	29-Aug-07	29-Aug-07	SL_MSEG2	\$\$		1,800		1,930	1,930	20.0%	386
1	02	02	13			RCV: 1 Function Generator	29-Aug-07	29-Aug-07	SL_MSEG2	\$\$		4,500		4,824	4,824	25.0%	1,206
1	02	02	13			LTU Laser Heater Controls H/W Fab	30-Aug-07	27-Sep-07	SL_CT2	Hrs	10		617		617	25.0%	154
1	02	02	13			LTU Laser Heater Controls H/W Fab	30-Aug-07	27-Sep-07	SL_CE2	Hrs	10		1,127		1,127	25.0%	282
1	02	02	13			LTU Laser Heater Contrls Integration and Test	28-Sep-07	11-Oct-07	SL_CT2	Hrs	20		1,256		1,256	25.0%	314
1	02	02	13			LTU Laser Heater Contrls Integration and Test	28-Sep-07	11-Oct-07	SL_CE2	Hrs	20		2,294		2,294	25.0%	573
1	02	03				Injector Lasers					241	111,300	20,958	120,320	141,278		35,320
1	02	03	03			Drive Laser Diagnostics					241	111,300	20,958	120,320	141,278		35,320
1	02	03	03			Assemble & Checkout: Drive Laser Diagnostics	1-May-07	14-Dec-07	SL_PHSS2	Hrs	12		1,122		1,122	25.0%	281
1	02	03	03			Assemble & Checkout: Drive Laser Diagnostics	1-May-07	14-Dec-07	SL_OT2	Hrs	120		7,460		7,460	25.0%	1,865
1	02	03	03			Assemble & Checkout: Drive Laser Diagnostics	1-May-07	14-Dec-07	SL_OE2	Hrs	60		6,813		6,813	25.0%	1,703
1	02	03	03			Procure Drive Laser Diagnostics	1-May-07	14-Dec-07	SL_OE2	Hrs	49		5,564		5,564	25.0%	1,391
1	02	03	03			RCV: Drive Laser Diagnostics	1-May-07	27-Dec-07	SL_MSEG2	\$\$		111,300		120,320	120,320	25.0%	30,080
1	03					LINAC SYSTEM					100,164	9,312,100	9,065,255	9,911,739	18,976,994		6,156,007
1	03	01				System Management & Integration					18,147	510,716	1,796,728	567,371	2,364,099		341,723
1	03	01	01			Linac Mechanical Integration					8,042	371,400	774,926	403,154	1,178,080		270,438
1	03	01	01	03		L02 System Integration					1,019	69,000	102,338	73,975	176,313		26,447
1	03	01	01	03		Misc. Materials and Supplies	30-May-07	30-May-07	SL_MSPS2	\$\$		24,000		25,730	25,730	15.0%	3,860
1	03	01	01	03		Misc. Materials and Supplies	30-May-07	30-May-07	SL_MSCS2	\$\$		10,000		10,721	10,721	15.0%	1,608
1	03	01	01	03		L2 Procurement Support	1-May-07	31-Jul-07	SL_ME2	Hrs	56		5,576		5,576	15.0%	836
1	03	01	01	03		L2 Fabrication Oversight	1-May-07	31-Jul-07	SL_ME2	Hrs	56		5,576		5,576	15.0%	836
1	03	01	01	03		L2 Installation Coordination Planning	1-May-07	2-Jul-07	SL_ME2	Hrs	96		9,559		9,559	15.0%	1,434
1	03	01	01	03		L2 Installation Oversight	4-Sep-07	31-Oct-07	SL_ME2	Hrs	80		8,063		8,063	15.0%	1,209
1	03	01	01	03		L2 Installation Oversight	4-Sep-07	31-Oct-07	SL_MDD2	Hrs	40		3,380		3,380	15.0%	507
1	03	01	01	03		L2 Documentation	4-Dec-07	14-Jul-08	SL_ME2	Hrs	120		12,224		12,224	15.0%	1,834
1	03	01	01	03		L2 Documentation	4-Dec-07	14-Jul-08	SL_MDD2	Hrs	200		17,082		17,082	15.0%	2,562
1	03	01	01	03		L2 System Construction Support to Components	1-Nov-07	11-Jul-08	SL_ME2	Hrs	120		12,224		12,224	15.0%	1,834
1	03	01	01	03		L2 System Construction Support to Components	1-Nov-07	11-Jul-08	SL_KE2	Hrs	120		13,835		13,835	15.0%	2,075
1	03	01	01	03		L2 System Construction Support to Components	1-Nov-07	11-Jul-08	SL_CE2	Hrs	120		13,835		13,835	15.0%	2,075
1	03	01	01	03		L2 Top Assembly	1-May-07	15-May-07	SL_ME2	Hrs	4		398		398	15.0%	60
1	03	01	01	03		L2 Top Assembly	1-May-07	15-May-07	SL_MDD2	Hrs	7		584		584	15.0%	88
1	03	01	01	03		RCV: Misc. Parts	30-May-07	30-May-07	SL_MSEG2	\$\$		35,000		37,524	37,524	15.0%	5,629
1	03	01	01	04		BC2 System Integration					2,163	-	214,494	-	214,494		42,899
1	03	01	01	04		BC2 Bunch Length Monitor Integration	1-May-07	30-Aug-07	SL_ME2	Hrs	120		11,949		11,949	20.0%	2,390
1	03	01	01	04		BC2 Emittance Section Design	1-May-07	29-Jun-07	SL_ME2	Hrs	96		9,559		9,559	20.0%	1,912
1	03	01	01	04		BC2 Emittance Section Design	1-May-07	29-Jun-07	SL_MDD2	Hrs	96		8,015		8,015	20.0%	1,603
1	03	01	01	04		BC2 Procurement Support	1-May-07	16-Aug-07	SL_ME2	Hrs	144		14,339		14,339	20.0%	2,868
1	03	01	01	04		BC2 Fabrication Oversight	1-May-07	16-Aug-07	SL_ME2	Hrs	60		5,975		5,975	20.0%	1,195
1	03	01	01	04		BC2 Installation Coordination Planning	1-May-07	13-Aug-07	SL_ME2	Hrs	200		19,916		19,916	20.0%	3,983
1	03	01	01	04		BC2 Installation Oversight	4-Sep-07	31-Oct-07	SL_ME2	Hrs	120		12,094		12,094	20.0%	2,419
1	03	01	01	04		BC2 Installation Oversight	4-Sep-07	31-Oct-07	SL_MDD2	Hrs	80		6,760		6,760	20.0%	1,352
1	03	01	01	04		BC2 Documentation	4-Dec-07	11-Apr-08	SL_ME2	Hrs	200		20,374		20,374	20.0%	4,075

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early	Early	Res	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont	Contingency
						Description	Start	Finish	Code		Hours	\$	Labor	M&S	Total	%	\$
1	03	01	01	04	6	BC2 Documentation	4-Dec-07	11-Apr-08	SL_MDD2	Hrs	200		17,082		17,082	20.0%	3,416
1	03	01	01	04	BC2 System Construction Support to Component	4-Dec-07	11-Apr-08	SL_ME2	Hrs	200		20,374		20,374	20.0%	4,075	
1	03	01	01	04	BC2 System Construction Support to Component	4-Dec-07	11-Apr-08	SL_KE2	Hrs	200		23,059		23,059	20.0%	4,612	
1	03	01	01	04	BC2 System Construction Support to Component	4-Dec-07	11-Apr-08	SL_CE2	Hrs	200		23,059		23,059	20.0%	4,612	
1	03	01	01	04	BC2 Top Assembly Drawing	1-May-07	1-Jun-07	SL_ME2	Hrs	82		8,165		8,165	20.0%	1,633	
1	03	01	01	04	BC2 Top Assembly Drawing	1-May-07	1-Jun-07	SL_MDD2	Hrs	165		13,776		13,776	20.0%	2,755	
1	03	01	01	05	L03 System Integration						864	-	85,490	-	85,490		25,647
1	03	01	01	05	L3 Procurement Support	1-May-07	31-Aug-07	SL_ME2	Hrs	48		4,780		4,780	30.0%	1,434	
1	03	01	01	05	L3 Fabrication Oversight	1-May-07	31-Aug-07	SL_ME2	Hrs	56		5,576		5,576	30.0%	1,673	
1	03	01	01	05	L3 Installation Coordination Planning	1-May-07	2-Jul-07	SL_ME2	Hrs	64		6,373		6,373	30.0%	1,912	
1	03	01	01	05	L3 Installation Oversight	4-Sep-07	31-Oct-07	SL_ME2	Hrs	80		8,063		8,063	30.0%	2,419	
1	03	01	01	05	L3 Installation Oversight	4-Sep-07	31-Oct-07	SL_MDD2	Hrs	40		3,380		3,380	30.0%	1,014	
1	03	01	01	05	L3 Documentation	4-Dec-07	30-Sep-08	SL_ME2	Hrs	120		12,224		12,224	30.0%	3,667	
1	03	01	01	05	L3 Documentation	4-Dec-07	30-Sep-08	SL_MDD2	Hrs	200		17,082		17,082	30.0%	5,125	
1	03	01	01	05	L3 System Construction Support to Components	4-Dec-07	11-Apr-08	SL_ME2	Hrs	80		8,149		8,149	30.0%	2,445	
1	03	01	01	05	L3 System Construction Support to Components	4-Dec-07	11-Apr-08	SL_KE2	Hrs	80		9,223		9,223	30.0%	2,767	
1	03	01	01	05	L3 System Construction Support to Components	4-Dec-07	11-Apr-08	SL_CE2	Hrs	80		9,223		9,223	30.0%	2,767	
1	03	01	01	05	L3 Top Assembly	1-May-07	14-May-07	SL_ME2	Hrs	5		498		498	30.0%	149	
1	03	01	01	05	L3 Top Assembly	1-May-07	14-May-07	SL_MDD2	Hrs	11		918		918	30.0%	276	
1	03	01	01	06	LTU System Integration						2,208	152,400	206,473	166,077	372,550		93,137
1	03	01	01	06	LTU Pedestal and Raft Design	1-May-07	31-May-07	SL_ME2	Hrs	16		1,593		1,593	25.0%	398	
1	03	01	01	06	LTU Pedestal and Raft Design	1-May-07	31-May-07	SL_MDD2	Hrs	32		2,672		2,672	25.0%	668	
1	03	01	01	06	LTU Beamline Shielding Fabrication	26-Sep-07	7-Jan-08	SL_MSSC2	\$\$			75,000		82,167	25.0%	20,542	
1	03	01	01	06	LTU Pedestal and Raft Fabrication	1-Jun-07	1-Feb-08	SL_MSSC2	\$\$			75,000		81,336	25.0%	20,334	
1	03	01	01	06	LTU Procurement Support	1-May-07	23-Jul-07	SL_ME2	Hrs	76		7,568		7,568	25.0%	1,892	
1	03	01	01	06	LTU Fabrication Oversight	1-May-07	18-Jan-08	SL_ME2	Hrs	76		7,640		7,640	25.0%	1,910	
1	03	01	01	06	LTU Installation Coordination Planning	1-May-07	3-Oct-07	SL_ME2	Hrs	280		27,890		27,890	25.0%	6,973	
1	03	01	01	06	LTU Installation Oversight	4-Feb-08	31-Mar-08	SL_ME2	Hrs	160		16,299		16,299	25.0%	4,075	
1	03	01	01	06	LTU Installation Oversight	4-Feb-08	31-Mar-08	SL_MDD2	Hrs	80		6,833		6,833	25.0%	1,708	
1	03	01	01	06	LTU Documentation	1-May-07	18-Oct-07	SL_ME2	Hrs	80		7,985		7,985	25.0%	1,996	
1	03	01	01	06	LTU Documentation	1-May-07	18-Oct-07	SL_MDD2	Hrs	160		13,389		13,389	25.0%	3,347	
1	03	01	01	06	LTU Water System Design Support	1-May-07	16-Jan-08	SL_ME2	Hrs	160		16,083		16,083	25.0%	4,021	
1	03	01	01	06	LTU Vibration Engineering	1-May-07	14-Sep-07	SL_ME2	Hrs	32		3,186		3,186	25.0%	797	
1	03	01	01	06	LTU CF Interface	4-Sep-07	17-Sep-07	SL_ME2	Hrs	64		6,373		6,373	25.0%	1,593	
1	03	01	01	06	LTU Undulator Interface	4-Sep-07	17-Sep-07	SL_ME2	Hrs	48		4,780		4,780	25.0%	1,195	
1	03	01	01	06	LTU Spot Shielding Design	2-Jul-07	25-Sep-07	SL_ME2	Hrs	320		31,865		31,865	25.0%	7,966	
1	03	01	01	06	LTU Spot Shielding Design	2-Jul-07	25-Sep-07	SL_MDD2	Hrs	320		26,716		26,716	25.0%	6,679	
1	03	01	01	06	LTU Installation Drawings	1-May-07	2-Jan-08	SL_MDD2	Hrs	304		25,601		25,601	25.0%	6,400	
1	03	01	01	06	LTU: Finite Element Analysis	1-May-07	1-May-07	SL_MSPPS2	\$\$			2,400		2,573	25.0%	643	
1	03	01	01	07	E-Dump System Integration						1,788	150,000	166,131	163,102	329,232		82,308
1	03	01	01	07	E-Dump Pedestal and Raft Design	1-May-07	28-Sep-07	SL_ME2	Hrs	18		1,792		1,792	25.0%	448	
1	03	01	01	07	E-Dump Pedestal and Raft Design	1-May-07	28-Sep-07	SL_MDD2	Hrs	48		4,007		4,007	25.0%	1,002	
1	03	01	01	07	E-Dump Beamline Shielding Fabrication	26-Jun-07	31-Oct-07	SL_MSSC2	\$\$			75,000		80,845	25.0%	20,211	
1	03	01	01	07	E-Dump Pedestal and Raft Fabrication	1-Oct-07	25-Feb-08	SL_MSSC2	\$\$			75,000		82,257	25.0%	20,564	
1	03	01	01	07	E-Dump Procurement Support	1-May-07	2-Jan-08	SL_ME2	Hrs	76		7,634		7,634	25.0%	1,908	
1	03	01	01	07	E-Dump Fabrication Oversight	1-May-07	2-Jan-08	SL_ME2	Hrs	78		7,835		7,835	25.0%	1,959	
1	03	01	01	07	E-Dump Installation Coordination Planning	1-May-07	2-Jan-08	SL_ME2	Hrs	152		15,267		15,267	25.0%	3,817	
1	03	01	01	07	E-Dump Installation Oversight	21-Apr-08	2-May-08	SL_ME2	Hrs	160		16,299		16,299	25.0%	4,075	
1	03	01	01	07	E-Dump Installation Oversight	21-Apr-08	2-May-08	SL_MDD2	Hrs	80		6,833		6,833	25.0%	1,708	
1	03	01	01	07	E-Dump Documentation	1-May-07	1-Nov-07	SL_ME2	Hrs	80		7,997		7,997	25.0%	1,999	
1	03	01	01	07	E-Dump Documentation	1-May-07	1-Nov-07	SL_MDD2	Hrs	80		6,705		6,705	25.0%	1,676	
1	03	01	01	07	E-Dump Water System Design Support	1-May-07	16-Jan-08	SL_ME2	Hrs	32		3,217		3,217	25.0%	804	
1	03	01	01	07	E-Dump Vibration Engineering	1-May-07	14-Sep-07	SL_ME2	Hrs	16		1,593		1,593	25.0%	398	
1	03	01	01	07	E-Dump CF Interface	1-May-07	17-Sep-07	SL_ME2	Hrs	32		3,186		3,186	25.0%	797	
1	03	01	01	07	E-Dump Undulator Interface	1-May-07	17-Sep-07	SL_ME2	Hrs	40		3,983		3,983	25.0%	996	
1	03	01	01	07	E-Dump Spot Shielding Design	1-May-07	25-Jun-07	SL_ME2	Hrs	288		28,678		28,678	25.0%	7,170	
1	03	01	01	07	E-Dump Spot Shielding Design	1-May-07	25-Jun-07	SL_MDD2	Hrs	288		24,045		24,045	25.0%	6,011	
1	03	01	01	07	E-Dump Installation Drawings	26-Jun-07	31-Jan-08	SL_MDD2	Hrs	320		27,059		27,059	25.0%	6,765	
1	03	01	03	Travel							-	59,316	-	75,444		11,317	
1	03	01	03	FY07 Travel	1-May-07	28-Sep-07	SL_MSTR2	\$\$			8,692		10,670	15.0%	1,601		
1	03	01	03	FY08 Travel	1-Oct-07	30-Sep-08	SL_MSTR2	\$\$			20,000		25,117	15.0%	3,768		
1	03	01	03	FY09 Travel	1-Oct-08	30-Sep-09	SL_MSTR2	\$\$			20,000		25,694	15.0%	3,854		
1	03	01	03	FY10 Travel	1-Oct-09	31-Mar-10	SL_MSTR2	\$\$			10,624		13,963	15.0%	2,094		
1	03	01	04	Linac Management						10,105	80,000	1,021,802	88,773	1,110,575		59,967	
1	03	01	04	Computers - CONST 70%	1-May-07	28-Sep-07	SL_MSEG2	\$\$			10,000		10,721	10.0%	1,072		
1	03	01	04	Material & Supplies - CONST 70%	1-May-07	28-Sep-07	SL_MSCS2	\$\$			10,000		10,721	10.0%	1,072		
1	03	01	04	Linac System Management Effort - CONST 70%	1-May-07	28-Sep-07	SL_TSM2	Hrs	742			78,561		78,561	5.0%	3,928	
1	03	01	04	Technical Leads - CONST 70%	1-May-07	28-Sep-07	SL_ME2	Hrs	1,113			110,830		110,830	5.0%	5,542	
1	03	01	04	Fabrication Coordination 70%	1-May-07	28-Sep-07	SL_ME2	Hrs	371			36,943		36,943	5.0%	1,847	
1	03	01	04	Fabrication Coordination 70%	1-May-07	28-Sep-07	SL_MDD2	Hrs	371			30,974		30,974	5.0%	1,549	
1	03	01	04	Computers - CONST	1-Oct-07	30-Sep-08	SL_MSEG2	\$\$				10,000		10,968	10.0%	1,097	
1	03	01	04	Material & Supplies - CONST	1-Oct-07	30-Sep-08	SL_MSCS2	\$\$				10,000		10,968	10.0%	1,097	

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont %	Contingency \$
Description						Hours					\$	Labor	M&S	Total			
1	2	3	4	5	6												
1	03	01	04			Linac System Management Effort - CONST 50%	1-Oct-07	30-Sep-08	SL_TSM2	Hrs	851		92,174		92,174	5.0%	4,609
1	03	01	04			Technical Leads - CONST 50%	1-Oct-07	30-Sep-08	SL_ME2	Hrs	1,276		129,984		129,984	5.0%	6,499
1	03	01	04			Fabrication Coordination 50%	1-Oct-07	30-Sep-08	SL_ME2	Hrs	851		86,690		86,690	5.0%	4,334
1	03	01	04			Fabrication Coordination 50%	1-Oct-07	30-Sep-08	SL_MDD2	Hrs	851		72,683		72,683	5.0%	3,634
1	03	01	04			Computers - CONST	1-Oct-08	30-Sep-09	SL_MSEG2	\$\$		10,000		11,220	11,220	10.0%	1,122
1	03	01	04			Material & Supplies - CONST	1-Oct-08	30-Sep-09	SL_MSCS2	\$\$		10,000		11,220	11,220	10.0%	1,122
1	03	01	04			Linac System Management Effort - CONST 25%	1-Oct-08	30-Sep-09	SL_TSM2	Hrs	872		96,621		96,621	5.0%	4,831
1	03	01	04			Cost Account Managers - CONST 25%	1-Oct-08	30-Sep-09	SL_ME2	Hrs	1,307		136,204		136,204	5.0%	6,810
1	03	01	04			Fabrication Coordination 25%	1-Oct-08	30-Sep-09	SL_ME2	Hrs	436		45,436		45,436	5.0%	2,272
1	03	01	04			Fabrication Coordination 25%	1-Oct-08	30-Sep-09	SL_MDD2	Hrs	436		38,095		38,095	5.0%	1,905
1	03	01	04			Computers - CONST	1-Oct-09	31-Mar-10	SL_MSEG2	\$\$		10,000		11,478	11,478	10.0%	1,148
1	03	01	04			Material & Supplies - CONST	1-Oct-09	31-Mar-10	SL_MSCS2	\$\$		10,000		11,478	11,478	10.0%	1,148
1	03	01	04			Linac System Management Effort - CONST 10%	1-Oct-09	31-Mar-10	SL_TSM2	Hrs	179		20,290		20,290	5.0%	1,015
1	03	01	04			Cost Account Managers - CONST 10%	1-Oct-09	31-Mar-10	SL_ME2	Hrs	269		28,678		28,678	5.0%	1,434
1	03	01	04			Fabrication Coordination 10%	1-Oct-09	31-Mar-10	SL_ME2	Hrs	90		9,595		9,595	5.0%	480
1	03	01	04			Fabrication Coordination 10%	1-Oct-09	31-Mar-10	SL_MDD2	Hrs	90		8,044		8,044	5.0%	402
1	03	02				Linac Controls & Power Conversion Subsystem					34,820	3,980,691	2,866,516	4,273,437	7,139,953		1,838,494
1	03	02	01			Personnel Protection System (PPS)					4,554	284,280	354,214	304,778	658,991		164,748
1	03	02	01			LTU Rack Layout and Wiring	1-Jun-07	2-Aug-07	SL_CCA2	Hrs	660		43,320		43,320	25.0%	10,830
1	03	02	01			LTU Rack and Wiring Bid Prep	3-Aug-07	14-Nov-07	SL_CCA2	Hrs	292		19,354		19,354	25.0%	4,838
1	03	02	01			LTU Controls Software	1-Jun-07	22-Oct-07	SL_CP2	Hrs	400		32,979		32,979	25.0%	8,245
1	03	02	01			LTU Mechanical Desgin	1-Jun-07	22-Oct-07	SL_ME2	Hrs	200		19,983		19,983	25.0%	4,996
1	03	02	01			LTU Mechanical Fab	1-Jun-07	22-Oct-07	SL_ME2	Hrs	240		23,979		23,979	25.0%	5,995
1	03	02	01			RCV: 1000 4PR16AS cable	27-Aug-07	27-Aug-07	SL_MSEG2	\$\$		1,360		1,458	1,458	25.0%	365
1	03	02	01			RCV: 2000 36PR16AS cable	27-Aug-07	27-Aug-07	SL_MSEG2	\$\$		24,000		25,730	25,730	25.0%	6,433
1	03	02	01			RCV: 8000 Hookup wire	27-Aug-07	27-Aug-07	SL_MSEG2	\$\$		2,800		3,002	3,002	25.0%	750
1	03	02	01			RCV: 50 EO buttons	27-Aug-07	27-Aug-07	SL_MSEG2	\$\$		9,000		9,649	9,649	25.0%	2,412
1	03	02	01			RCV: 6 EE buttons	27-Aug-07	27-Aug-07	SL_MSEG2	\$\$		900		965	965	25.0%	241
1	03	02	01			RCV: 12 Limit Switches	27-Aug-07	27-Aug-07	SL_MSEG2	\$\$		1,800		1,930	1,930	25.0%	482
1	03	02	01			RCV: 2 Camera	27-Aug-07	27-Aug-07	SL_MSEG2	\$\$		400		429	429	25.0%	107
1	03	02	01			RCV: 2 Annunciator	27-Aug-07	27-Aug-07	SL_MSEG2	\$\$		2,400		2,573	2,573	25.0%	643
1	03	02	01			RCV: 2 Y/M Light	27-Aug-07	27-Aug-07	SL_MSEG2	\$\$		400		429	429	25.0%	107
1	03	02	01			RCV: 6 Search Buttons	27-Aug-07	27-Aug-07	SL_MSEG2	\$\$		1,200		1,287	1,287	25.0%	322
1	03	02	01			RCV: 2 Audio Amplifier	27-Aug-07	27-Aug-07	SL_MSEG2	\$\$		1,000		1,072	1,072	25.0%	268
1	03	02	01			RCV: 2 Audio Annunciator	27-Aug-07	27-Aug-07	SL_MSEG2	\$\$		2,000		2,144	2,144	25.0%	536
1	03	02	01			RCV: 10 Speakers	27-Aug-07	27-Aug-07	SL_MSEG2	\$\$		1,000		1,072	1,072	25.0%	268
1	03	02	01			RCV: 6 Door Hardware	27-Aug-07	27-Aug-07	SL_MSEG2	\$\$		1,500		1,608	1,608	25.0%	402
1	03	02	01			RCV: 3 Keybank	27-Aug-07	27-Aug-07	SL_MSEG2	\$\$		4,500		4,824	4,824	25.0%	1,206
1	03	02	01			RCV: 4 Hoffman Boxes	27-Aug-07	27-Aug-07	SL_MSEG2	\$\$		520		557	557	25.0%	139
1	03	02	01			RCV: 6 PLC Control Package	27-Aug-07	27-Aug-07	SL_MSEG2	\$\$		120,000		128,652	128,652	25.0%	32,163
1	03	02	01			RCV: 1 BSOIC	27-Aug-07	27-Aug-07	SL_MSEG2	\$\$		87,500		93,809	93,809	25.0%	23,452
1	03	02	01			RCV: 3 Battery Recharger	27-Aug-07	27-Aug-07	SL_MSEG2	\$\$		22,000		23,586	23,586	25.0%	5,897
1	03	02	01			Plant Labor (Crafts)	1-Jun-07	5-Dec-07	SL_MFAT2	Hrs	312		27,025		27,025	25.0%	6,756
1	03	02	01			LTU Control Hardware	1-Jun-07	22-Oct-07	SL_CT2	Hrs	700		43,336		43,336	25.0%	10,834
1	03	02	01			LTU Control Hardware	1-Jun-07	22-Oct-07	SL_CE2	Hrs	280		31,663		31,663	25.0%	7,916
1	03	02	01			LTU Build and Test Equipment Racks	15-Nov-07	5-Feb-08	SL_CT2	Hrs	880		55,545		55,545	25.0%	13,886
1	03	02	01			LTU Build and Test Equipment Racks	15-Nov-07	5-Feb-08	SL_CP2	Hrs	352		29,589		29,589	25.0%	7,397
1	03	02	01			LTU Build and Test Equipment Racks	15-Nov-07	5-Feb-08	SL_CE2	Hrs	238		27,440		27,440	25.0%	6,860
1	03	02	02			Beam Containment System (BCS)					1,766	126,200	194,565	135,300	329,864		82,466
1	03	02	02			Write Certification Procedures	1-May-07	7-May-07	SL_CE2	Hrs	10		1,127		1,127	25.0%	282
1	03	02	02			Write System Documentation	1-May-07	7-May-07	SL_CE2	Hrs	12		1,352		1,352	25.0%	338
1	03	02	02			L02-L03 Controls Software	1-May-07	14-May-07	SL_CP2	Hrs	110		9,039		9,039	25.0%	2,260
1	03	02	02			L02-L03 Control BCS HW Fabrication	1-May-07	7-May-07	SL_CE2	Hrs	8		902		902	25.0%	225
1	03	02	02			L02-L03 Controls BCS Integration and Test	8-May-07	14-May-07	SL_CE2	Hrs	50		5,635		5,635	25.0%	1,409
1	03	02	02			Write Certification Procedures	2-Jul-07	30-Jul-07	SL_CE2	Hrs	320		36,064		36,064	25.0%	9,016
1	03	02	02			Write System Documentation	2-Jul-07	30-Jul-07	SL_CE2	Hrs	96		10,819		10,819	25.0%	2,705
1	03	02	02			Injector Controls Software	2-Jul-07	30-Jul-07	SL_CP2	Hrs	40		3,287		3,287	25.0%	822
1	03	02	02			RCV: 750 Lion Cables	31-Jul-07	31-Jul-07	SL_MSEG2	\$\$		15,000		16,082	16,082	25.0%	4,020
1	03	02	02			RCV: 12 PICs	31-Jul-07	31-Jul-07	SL_MSEG2	\$\$		16,800		18,011	18,011	25.0%	4,503
1	03	02	02			RCV: 12 Flow Switches	31-Jul-07	31-Jul-07	SL_MSEG2	\$\$		16,800		18,011	18,011	25.0%	4,503
1	03	02	02			RCV: 6 Hall Probe and Chassis	31-Jul-07	31-Jul-07	SL_MSEG2	\$\$		36,000		38,596	38,596	25.0%	9,649
1	03	02	02			LTU BCS HW Fabrication	1-Aug-07	28-Aug-07	SL_CE2	Hrs	80		9,016		9,016	25.0%	2,254
1	03	02	02			LTU BCS Integration and Test	29-Aug-07	12-Sep-07	SL_CE2	Hrs	360		40,572		40,572	25.0%	10,143
1	03	02	02			Write Certification Procedures	1-May-07	13-Nov-07	SL_CE2	Hrs	320		36,246		36,246	25.0%	9,062
1	03	02	02			Write System Documentation	1-May-07	13-Nov-07	SL_CE2	Hrs	120		13,592		13,592	25.0%	3,398
1	03	02	02			XTOD Controls Software	1-May-07	13-Nov-07	SL_CP2	Hrs	20		1,652		1,652	25.0%	413
1	03	02	02			RCV: 6 Fault Sensor	30-May-07	30-May-07	SL_MSEG2	\$\$		12,600		13,509	13,509	25.0%	3,377
1	03	02	02			RCV: 6 Specialized Electronics	30-May-07	30-May-07	SL_MSEG2	\$\$		21,000		22,514	22,514	25.0%	5,629
1	03	02	02			RCV: 1 PLC I/O and Chasis	30-May-07	30-May-07	SL_MSEG2	\$\$		8,000		8,577	8,577	25.0%	2,144
1	03	02	02			XTOD H/W Fabrication	31-May-07	21-Sep-07	SL_CE2	Hrs	40		4,508		4,508	25.0%	1,127
1	03	02	02			Injector Controls BCS Integration and Test	14-Nov-07	30-Jan-08	SL_CE2	Hrs	180		20,753		20,753	25.0%	5,188
1	03	02	03			Machine Protection System (MPS)					-	67,200	-	72,045	72,045		32,420

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escldt Cost			Cont %	Contingency \$
Description										Hours	\$	Labor	M&S	Total			
1	03	02	03	5	6	RCV: 12 Custom Input Electronics	30-May-07	30-May-07	SL_MSEG2	\$\$		50,400		54,034	54,034	45.0%	24,315
1	03	02	03			RCV: 12 Custom Input Electronics	29-Jun-07	29-Jun-07	SL_MSEG2	\$\$		16,800		18,011	18,011	45.0%	8,105
1	03	02	04			Linac Power Conversion Subsystem					15,079	1,890,069	1,134,024	2,026,388	3,160,412		748,549
1	03	02	04	01		Beamline Power Supplies - (Dipole Type)					3,004	120,260	256,524	128,968	385,492		90,656
1	03	02	04	01	02	Power Supply BX21-24					62	3,460	5,194	3,709	8,904		2,148
1	03	02	04	01	02	RCV: Transducers	15-May-07	15-May-07	SL_MSEG2	\$\$		1,320		1,415	1,415	20.0%	283
1	03	02	04	01	02	RCV: PS Controller	15-May-07	15-May-07	SL_MSEG2	\$\$		2,000		2,144	2,144	25.0%	536
1	03	02	04	01	02	RCV: Intra-rack Cables and Connectors	15-May-07	15-May-07	SL_MSEG2	\$\$		40		43	43	20.0%	9
1	03	02	04	01	02	RCV: Cirtc brkr, 3-pole, 30 A, 480V, Series Trp	15-May-07	15-May-07	SL_MSEG2	\$\$		100		107	107	20.0%	21
1	03	02	04	01	02	Bench test and perform safety inspection of PS	16-May-07	17-May-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	01	02	Bench test PS Controller	16-May-07	16-May-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	01	02	Pre-install Qual Test	17-May-07	21-May-07	SL_PCE2	Hrs	15		1,691		1,691	25.0%	423
1	03	02	04	01	02	Pre-install Qual Test	17-May-07	21-May-07	SL_PCCA2	Hrs	15		985		985	25.0%	246
1	03	02	04	01	02	Integrate cables	22-May-07	22-May-07	SL_TMUE2	Hrs	16		1,532		1,532	25.0%	383
1	03	02	04	01	03	Kicker Power Supply BXXKIK					1,219	8,950	107,982	9,595	117,578		28,995
1	03	02	04	01	03	Final Design Reviews	1-May-07	15-Jun-07	SL_PCE2	Hrs	79		8,903		8,903	25.0%	2,226
1	03	02	04	01	03	Documentation	1-May-07	11-Jul-07	SL_PCE2	Hrs	100		11,270		11,270	25.0%	2,818
1	03	02	04	01	03	RCV: PS Controller Hardware	12-Jul-07	12-Jul-07	SL_MSEG2	\$\$		1,500		1,608	1,608	25.0%	402
1	03	02	04	01	03	RCV: Analog to Digital Cnvrtr Mods - 16 Ch	12-Jul-07	12-Jul-07	SL_MSEG2	\$\$		3,000		3,216	3,216	20.0%	643
1	03	02	04	01	03	RCV: Digital to Analog Cnvrtr Mods - 16 Ch	12-Jul-07	12-Jul-07	SL_MSEG2	\$\$		2,200		2,359	2,359	20.0%	472
1	03	02	04	01	03	RCV: DIO Module - 8 Chan	12-Jul-07	12-Jul-07	SL_MSEG2	\$\$		500		536	536	20.0%	107
1	03	02	04	01	03	RCV: IP Carrier Board	12-Jul-07	12-Jul-07	SL_MSEG2	\$\$		800		858	858	20.0%	172
1	03	02	04	01	03	RCV: IO Accessories	12-Jul-07	12-Jul-07	SL_MSEG2	\$\$		350		375	375	20.0%	75
1	03	02	04	01	03	RCV: Intra-rack cables and conectors	21-Sep-07	21-Sep-07	SL_MSEG2	\$\$		500		536	536	20.0%	107
1	03	02	04	01	03	RCV: Cirtc brkr, 3-pole, 30 A, 480V, Series Trp	21-Sep-07	21-Sep-07	SL_MSEG2	\$\$		100		107	107	20.0%	21
1	03	02	04	01	03	Fab & Assy- Power Supply	1-May-07	28-Jun-07	SL_PCT2	Hrs	168		10,366		10,366	25.0%	2,591
1	03	02	04	01	03	Fab & Assy- Power Supply	1-May-07	28-Jun-07	SL_PCE2	Hrs	168		18,934		18,934	25.0%	4,733
1	03	02	04	01	03	Fab & Assy- Power Supply	1-May-07	28-Jun-07	SL_PCCA2	Hrs	84		5,513		5,513	25.0%	1,378
1	03	02	04	01	03	Fab & Assy- PS Controller	13-Jul-07	11-Sep-07	SL_PCT2	Hrs	168		10,366		10,366	25.0%	2,591
1	03	02	04	01	03	Fab & Assy- PS Controller	13-Jul-07	11-Sep-07	SL_PCE2	Hrs	168		18,934		18,934	25.0%	4,733
1	03	02	04	01	03	Fab & Assy- PS Controller	13-Jul-07	11-Sep-07	SL_PCCA2	Hrs	84		5,513		5,513	25.0%	1,378
1	03	02	04	01	03	Pre-install Qual Test	12-Sep-07	18-Sep-07	SL_PCE2	Hrs	30		3,381		3,381	25.0%	845
1	03	02	04	01	03	Pre-install Qual Test	12-Sep-07	18-Sep-07	SL_PCCA2	Hrs	30		1,969		1,969	25.0%	492
1	03	02	04	01	03	System Integration Test	19-Sep-07	30-Oct-07	SL_PCE2	Hrs	60		6,872		6,872	25.0%	1,718
1	03	02	04	01	03	System Integration Test	19-Sep-07	30-Oct-07	SL_PCCA2	Hrs	60		4,002		4,002	25.0%	1,001
1	03	02	04	01	03	Integrate cables	31-Oct-07	13-Nov-07	SL_TMUE2	Hrs	20		1,959		1,959	25.0%	490
1	03	02	04	01	04	Power Supply BX31,32,35,36					50	37,960	4,072	40,697	44,769		9,265
1	03	02	04	01	04	RCV: Power Supply	30-May-07	30-May-07	SL_MSEG2	\$\$		34,500		36,988	36,988	20.0%	7,398
1	03	02	04	01	04	RCV: Transducers	30-May-07	30-May-07	SL_MSEG2	\$\$		1,320		1,415	1,415	20.0%	283
1	03	02	04	01	04	RCV: PS Controller	30-May-07	30-May-07	SL_MSEG2	\$\$		2,000		2,144	2,144	25.0%	536
1	03	02	04	01	04	RCV: Intra-rack Cables and Connectors	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		40		43	43	20.0%	9
1	03	02	04	01	04	RCV: Cirtc brkr, 3-pole, 30 A, 480V, Series Trp	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		100		107	107	20.0%	21
1	03	02	04	01	04	Bench test and perform safety inspection of PS	31-May-07	1-Jun-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	01	04	Bench test PS Controller	31-May-07	31-May-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	01	04	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCE2	Hrs	13		1,465		1,465	25.0%	366
1	03	02	04	01	04	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCCA2	Hrs	13		853		853	25.0%	213
1	03	02	04	01	04	Integrate cables	27-Sep-07	27-Sep-07	SL_TMUE2	Hrs	8		766		766	25.0%	191
1	03	02	04	01	05	Power Supply -BY1-2					58	15,260	4,837	16,360	21,198		4,589
1	03	02	04	01	05	RCV: Power Supply	30-May-07	30-May-07	SL_MSEG2	\$\$		11,800		12,651	12,651	20.0%	2,530
1	03	02	04	01	05	RCV: Transducers	30-May-07	30-May-07	SL_MSEG2	\$\$		1,320		1,415	1,415	20.0%	283
1	03	02	04	01	05	RCV: PS Controller	30-May-07	30-May-07	SL_MSEG2	\$\$		2,000		2,144	2,144	25.0%	536
1	03	02	04	01	05	RCV: Intra-rack Cables and Connectors	23-Aug-07	23-Aug-07	SL_MSEG2	\$\$		40		43	43	20.0%	9
1	03	02	04	01	05	RCV: Cirtc brkr, 3-pole, 30 A, 480V, Series Trp	23-Aug-07	23-Aug-07	SL_MSEG2	\$\$		100		107	107	20.0%	21
1	03	02	04	01	05	Bench test and perform safety inspection of PS	31-May-07	1-Jun-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	01	05	Bench test PS Controller	31-May-07	31-May-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	01	05	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCE2	Hrs	13		1,465		1,465	25.0%	366
1	03	02	04	01	05	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCCA2	Hrs	13		853		853	25.0%	213
1	03	02	04	01	05	Integrate cables	24-Aug-07	24-Aug-07	SL_TMUE2	Hrs	16		1,532		1,532	25.0%	383
1	03	02	04	01	06	Kicker Power Supply BYKIK					1,475	8,950	122,194	9,632	131,826		32,475
1	03	02	04	01	06	Final Design Reviews	1-May-07	15-Jun-07	SL_PCE2	Hrs	79		8,903		8,903	25.0%	2,226
1	03	02	04	01	06	Documentation	1-May-07	20-Sep-07	SL_PCE2	Hrs	80		9,016		9,016	25.0%	2,254
1	03	02	04	01	06	RCV: PS Controller Hardware	7-Nov-07	7-Nov-07	SL_MSEG2	\$\$		1,500		1,645	1,645	20.0%	329
1	03	02	04	01	06	RCV: Analog to Digital Cnvrtr Mods - 16 Ch	19-Jul-07	19-Jul-07	SL_MSEG2	\$\$		3,000		3,216	3,216	20.0%	643
1	03	02	04	01	06	RCV: Digital to Analog Cnvrtr Mods - 16 Ch	19-Jul-07	19-Jul-07	SL_MSEG2	\$\$		2,200		2,359	2,359	20.0%	472
1	03	02	04	01	06	RCV: DIO Module - 8 Chan	19-Jul-07	19-Jul-07	SL_MSEG2	\$\$		500		536	536	20.0%	107
1	03	02	04	01	06	RCV: IP Carrier Board	19-Jul-07	19-Jul-07	SL_MSEG2	\$\$		800		858	858	20.0%	172
1	03	02	04	01	06	RCV: IO Accessories	19-Jul-07	19-Jul-07	SL_MSEG2	\$\$		350		375	375	20.0%	75
1	03	02	04	01	06	RCV: Intra-rack cables and conectors	21-Sep-07	21-Sep-07	SL_MSEG2	\$\$		500		536	536	20.0%	107
1	03	02	04	01	06	RCV: Cirtc brkr, 3-pole, 30 A, 480V, Series Trp	21-Sep-07	21-Sep-07	SL_MSEG2	\$\$		100		107	107	20.0%	21
1	03	02	04	01	06	Fab & Assy- Power Supply	1-May-07	28-Jun-07	SL_PCT2	Hrs	336		20,731		20,731	25.0%	5,183
1	03	02	04	01	06	Fab & Assy- Power Supply	1-May-07	28-Jun-07	SL_PCE2	Hrs	168		18,934		18,934	25.0%	4,733
1	03	02	04	01	06	Fab & Assy- Power Supply	1-May-07	28-Jun-07	SL_PCCA2	Hrs	84		5,513		5,513	25.0%	1,378

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline Description	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont %	Contingency \$
1	2	3	4	5	6						Hours	\$	Labor	M&S	Total		
1	03	02	04	01	06	Fab & Assy- PS Controller	8-Nov-07	25-Jan-08	SL_PCT2	Hrs	336		21,208		21,208	25.0%	5,302
1	03	02	04	01	06	Fab & Assy- PS Controller	8-Nov-07	25-Jan-08	SL_PCE2	Hrs	168		19,369		19,369	25.0%	4,842
1	03	02	04	01	06	Fab & Assy- PS Controller	8-Nov-07	25-Jan-08	SL_PCCA2	Hrs	84		5,640		5,640	25.0%	1,410
1	03	02	04	01	06	Pre-install Qual Test	28-Jan-08	1-Feb-08	SL_PCE2	Hrs	32		3,689		3,689	25.0%	922
1	03	02	04	01	06	Pre-install Qual Test	28-Jan-08	1-Feb-08	SL_PCCA2	Hrs	32		2,149		2,149	25.0%	537
1	03	02	04	01	06	System Integration Test	4-Feb-08	17-Mar-08	SL_PCE2	Hrs	30		3,459		3,459	25.0%	865
1	03	02	04	01	06	System Integration Test	4-Feb-08	17-Mar-08	SL_PCCA2	Hrs	30		2,014		2,014	25.0%	504
1	03	02	04	01	06	Integrate cables	18-Mar-08	31-Mar-08	SL_TMUE2	Hrs	16		1,567		1,567	25.0%	392
1	03	02	04	01	07	Power Supply BYW1-3					58	15,260	4,837	16,360	21,198		4,596
1	03	02	04	01	07	RCV: Power Supply	30-May-07	30-May-07	SL_MSEG2	\$\$		11,800		12,651	12,651	20.0%	2,530
1	03	02	04	01	07	RCV: Transductors	30-May-07	30-May-07	SL_MSEG2	\$\$		1,320		1,415	1,415	20.0%	283
1	03	02	04	01	07	RCV: PS Controller	30-May-07	30-May-07	SL_MSEG2	\$\$		2,000		2,144	2,144	25.0%	536
1	03	02	04	01	07	RCV: Intra-rack Cables and Connectors	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		40		43	43	25.0%	11
1	03	02	04	01	07	RCV: Circr brkr, 3-pole, 30 A, 480V, Series Trp	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		100		107	107	25.0%	27
1	03	02	04	01	07	Bench test and perform safety inspection of PS	31-May-07	1-Jun-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	01	07	Bench test PS Controller	31-May-07	31-May-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	01	07	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCE2	Hrs	13		1,465		1,465	25.0%	366
1	03	02	04	01	07	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCCA2	Hrs	13		853		853	25.0%	213
1	03	02	04	01	07	Integrate cables	27-Sep-07	27-Sep-07	SL_TMUE2	Hrs	16		1,532		1,532	25.0%	383
1	03	02	04	01	08	Muon Spoiler Power Supply MUSPLR					54	15,260	4,591	16,360	20,951		4,527
1	03	02	04	01	08	RCV: Power Supply	30-May-07	30-May-07	SL_MSEG2	\$\$		11,800		12,651	12,651	20.0%	2,530
1	03	02	04	01	08	1RCV: Transductors	30-May-07	30-May-07	SL_MSEG2	\$\$		1,320		1,415	1,415	20.0%	283
1	03	02	04	01	08	RCV: PS Controller	30-May-07	30-May-07	SL_MSEG2	\$\$		2,000		2,144	2,144	25.0%	536
1	03	02	04	01	08	RCV: Intra-rack Cables and Connectors	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		40		43	43	20.0%	9
1	03	02	04	01	08	RCV: Circr brkr, 3-pole, 30 A, 480V, Series Trp	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		100		107	107	20.0%	21
1	03	02	04	01	08	Bench test and perform safety inspection of PS	31-May-07	1-Jun-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	01	08	Bench test PS Controller	31-May-07	31-May-07	SL_PCT2	Hrs	4		247		247	25.0%	62
1	03	02	04	01	08	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCE2	Hrs	13		1,465		1,465	25.0%	366
1	03	02	04	01	08	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCCA2	Hrs	13		853		853	25.0%	213
1	03	02	04	01	08	Integrate cables	27-Sep-07	27-Sep-07	SL_TMUE2	Hrs	16		1,532		1,532	25.0%	383
1	03	02	04	01	09	Powe Supply BYD1-3					28	15,160	2,816	16,253	19,070		4,062
1	03	02	04	01	09	RCV: Power Supply	30-May-07	30-May-07	SL_MSEG2	\$\$		11,800		12,651	12,651	20.0%	2,530
1	03	02	04	01	09	RCV: Transductors	30-May-07	30-May-07	SL_MSEG2	\$\$		1,320		1,415	1,415	20.0%	283
1	03	02	04	01	09	RCV: PS Controller	30-May-07	30-May-07	SL_MSEG2	\$\$		2,000		2,144	2,144	25.0%	536
1	03	02	04	01	09	RCV: Intra-rack Cables and Connectors	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		40		43	43	20.0%	9
1	03	02	04	01	09	Bench test and perform safety inspection of PS	31-May-07	1-Jun-07	SL_TMUE2	Hrs	4		383		383	25.0%	96
1	03	02	04	01	09	Bench test PS Controller	31-May-07	31-May-07	SL_PCE2	Hrs	8		902		902	25.0%	225
1	03	02	04	01	09	Integrate cables	27-Sep-07	27-Sep-07	SL_TMUE2	Hrs	16		1,532		1,532	25.0%	383
1	03	02	04	02		Beamline Power Supplies - (Quad Type)					1,237	437,780	102,382	469,346	571,728		121,594
1	03	02	04	02	07	Q24201-Q24501 Split					113	48,060	10,384	51,525	61,909		12,671
1	03	02	04	02	07	RCV: Power Supply Q24601	30-May-07	30-May-07	SL_MSEG2	\$\$		11,800		12,651	12,651	20.0%	2,530
1	03	02	04	02	07	RCV: Power Supply Q24701B	30-May-07	30-May-07	SL_MSEG2	\$\$		11,800		12,651	12,651	20.0%	2,530
1	03	02	04	02	07	RCV: Power Supply Q247901B	30-May-07	30-May-07	SL_MSEG2	\$\$		11,800		12,651	12,651	20.0%	2,530
1	03	02	04	02	07	RCV: Transductors	30-May-07	30-May-07	SL_MSEG2	\$\$		3,960		4,246	4,246	20.0%	849
1	03	02	04	02	07	RCV: Cables 1C/#350 - Q24201-Q24501	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		1,500		1,608	1,608	20.0%	322
1	03	02	04	02	07	RCV: Cables 1C/#350 - Q24601	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		3,000		3,216	3,216	20.0%	643
1	03	02	04	02	07	RCV: Cables 4/0Cu - Q24701, Q24901	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		4,200		4,503	4,503	20.0%	901
1	03	02	04	02	07	Bench test and perform safety inspection of PS	31-May-07	1-Jun-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	02	07	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCE2	Hrs	33		3,719		3,719	25.0%	930
1	03	02	04	02	07	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCCA2	Hrs	24		1,575		1,575	25.0%	394
1	03	02	04	02	07	Integrate cables	27-Sep-07	27-Sep-07	SL_TMUE2	Hrs	48		4,596		4,596	20.0%	919
1	03	02	04	02	10	Power Supply QM21					48	15,260	3,946	16,360	20,306		4,366
1	03	02	04	02	10	RCV: Power Supply	30-May-07	30-May-07	SL_MSEG2	\$\$		11,800		12,651	12,651	20.0%	2,530
1	03	02	04	02	10	RCV: Transductors	30-May-07	30-May-07	SL_MSEG2	\$\$		1,320		1,415	1,415	20.0%	283
1	03	02	04	02	10	RCV: PS Controller	30-May-07	30-May-07	SL_MSEG2	\$\$		2,000		2,144	2,144	25.0%	536
1	03	02	04	02	10	RCV: Intra-rack Cables and Connectors	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		40		43	43	20.0%	9
1	03	02	04	02	10	RCV: Circr brkr, 3-pole, 30 A, 480V, Series Trp	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		100		107	107	20.0%	21
1	03	02	04	02	10	Bench test and perform safety inspection of PS	31-May-07	1-Jun-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	02	10	Bench test PS Controller	31-May-07	31-May-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	02	10	Pre-install Qual Test	31-May-07	4-Jun-07	SL_PCE2	Hrs	8		902		902	25.0%	225
1	03	02	04	02	10	Pre-install Qual Test	31-May-07	4-Jun-07	SL_PCCA2	Hrs	8		525		525	25.0%	131
1	03	02	04	02	10	Integrate cables	27-Sep-07	27-Sep-07	SL_TMUE2	Hrs	16		1,532		1,532	25.0%	383
1	03	02	04	02	12	Power Supply QM22					48	15,260	3,946	16,360	20,306		4,366
1	03	02	04	02	12	RCV: Power Supply	30-May-07	30-May-07	SL_MSEG2	\$\$		11,800		12,651	12,651	20.0%	2,530
1	03	02	04	02	12	RCV: Transductors	30-May-07	30-May-07	SL_MSEG2	\$\$		1,320		1,415	1,415	20.0%	283
1	03	02	04	02	12	RCV: PS Controller	30-May-07	30-May-07	SL_MSEG2	\$\$		2,000		2,144	2,144	25.0%	536
1	03	02	04	02	12	RCV: Intra-rack Cables and Connectors	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		40		43	43	20.0%	9
1	03	02	04	02	12	RCV: Circr brkr, 3-pole, 30 A, 480V, Series Trp	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		100		107	107	20.0%	21
1	03	02	04	02	12	Bench test and perform safety inspection of PS	31-May-07	1-Jun-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	02	12	Bench test PS Controller	31-May-07	31-May-07	SL_PCT2	Hrs	8						

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline Description	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escldt Cost			Cont %	Contingency \$
1	2	3	4	5	6						Hours	\$	Labor	M&S	Total		
1	03	02	04	02	12						Integrate cables	27-Sep-07	27-Sep-07	SL_TMUE2	Hrs		
1	03	02	04	02	13	Power Supply Q5					48	15,260	3,946	16,360	20,306		4,366
1	03	02	04	02	13	RCV: Power Supply	30-May-07	30-May-07	SL_MSEG2	\$\$		11,800		12,651	12,651	20.0%	2,530
1	03	02	04	02	13	RCV: Transducers	30-May-07	30-May-07	SL_MSEG2	\$\$		1,320		1,415	1,415	20.0%	283
1	03	02	04	02	13	RCV: PS Controller	30-May-07	30-May-07	SL_MSEG2	\$\$		2,000		2,144	2,144	25.0%	536
1	03	02	04	02	13	RCV: Intra-rack Cables and Connectors	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		40		43	43	20.0%	9
1	03	02	04	02	13	RCV: Circr brkr, 3-pole, 30 A, 480V, Series Trp	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		100		107	107	20.0%	21
1	03	02	04	02	13	Bench test and perform safety inspection of PS	31-May-07	1-Jun-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	02	13	Bench test PS Controller	31-May-07	31-May-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	02	13	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCE2	Hrs	8		902		902	25.0%	225
1	03	02	04	02	13	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCCA2	Hrs	8		525		525	25.0%	131
1	03	02	04	02	13	Integrate cables	27-Sep-07	27-Sep-07	SL_TMUE2	Hrs	16		1,532		1,532	25.0%	383
1	03	02	04	02	14	Power Supply Q6					48	15,260	3,946	16,360	20,306		4,366
1	03	02	04	02	14	RCV: Power Supply	30-May-07	30-May-07	SL_MSEG2	\$\$		11,800		12,651	12,651	20.0%	2,530
1	03	02	04	02	14	RCV: Transducers	30-May-07	30-May-07	SL_MSEG2	\$\$		1,320		1,415	1,415	20.0%	283
1	03	02	04	02	14	RCV: PS Controller	30-May-07	30-May-07	SL_MSEG2	\$\$		2,000		2,144	2,144	25.0%	536
1	03	02	04	02	14	RCV: Intra-rack Cables and Connectors	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		40		43	43	20.0%	9
1	03	02	04	02	14	RCV: Circr brkr, 3-pole, 30 A, 480V, Series Trp	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		100		107	107	20.0%	21
1	03	02	04	02	14	Bench test and perform safety inspection of PS	31-May-07	1-Jun-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	02	14	Bench test PS Controller	31-May-07	31-May-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	02	14	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCE2	Hrs	8		902		902	25.0%	225
1	03	02	04	02	14	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCCA2	Hrs	8		525		525	25.0%	131
1	03	02	04	02	14	Integrate cables	27-Sep-07	27-Sep-07	SL_TMUE2	Hrs	16		1,532		1,532	25.0%	383
1	03	02	04	02	15	Power Supply QA0					48	15,260	3,946	16,360	20,306		4,366
1	03	02	04	02	15	RCV: Power Supply	30-May-07	30-May-07	SL_MSEG2	\$\$		11,800		12,651	12,651	20.0%	2,530
1	03	02	04	02	15	RCV: Transducers	30-May-07	30-May-07	SL_MSEG2	\$\$		1,320		1,415	1,415	20.0%	283
1	03	02	04	02	15	RCV: PS Controller	30-May-07	30-May-07	SL_MSEG2	\$\$		2,000		2,144	2,144	25.0%	536
1	03	02	04	02	15	RCV: Intra-rack Cables and Connectors	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		40		43	43	20.0%	9
1	03	02	04	02	15	RCV: Circr brkr, 3-pole, 30 A, 480V, Series Trp	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		100		107	107	20.0%	21
1	03	02	04	02	15	Bench test and perform safety inspection of PS	31-May-07	1-Jun-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	02	15	Bench test PS Controller	31-May-07	31-May-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	02	15	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCE2	Hrs	8		902		902	25.0%	225
1	03	02	04	02	15	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCCA2	Hrs	8		525		525	25.0%	131
1	03	02	04	02	15	Integrate cables	27-Sep-07	27-Sep-07	SL_TMUE2	Hrs	16		1,532		1,532	25.0%	383
1	03	02	04	02	16	Power Supply Q50Q1,Q50Q2,Q50Q3					48	15,260	3,946	16,360	20,306		4,366
1	03	02	04	02	16	RCV: Power Supply	30-May-07	30-May-07	SL_MSEG2	\$\$		11,800		12,651	12,651	20.0%	2,530
1	03	02	04	02	16	RCV: Transducers	30-May-07	30-May-07	SL_MSEG2	\$\$		1,320		1,415	1,415	20.0%	283
1	03	02	04	02	16	RCV: PS Controller	30-May-07	30-May-07	SL_MSEG2	\$\$		2,000		2,144	2,144	25.0%	536
1	03	02	04	02	16	RCV: Intra-rack Cables and Connectors	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		40		43	43	20.0%	9
1	03	02	04	02	16	RCV: Circr brkr, 3-pole, 30 A, 480V, Series Trp	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		100		107	107	20.0%	21
1	03	02	04	02	16	Bench test and perform safety inspection of PS	31-May-07	1-Jun-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	02	16	Bench test PS Controller	31-May-07	31-May-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	02	16	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCE2	Hrs	8		902		902	25.0%	225
1	03	02	04	02	16	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCCA2	Hrs	8		525		525	25.0%	131
1	03	02	04	02	16	Integrate cables	27-Sep-07	27-Sep-07	SL_TMUE2	Hrs	16		1,532		1,532	25.0%	383
1	03	02	04	02	17	Power Supply QVM1					56	15,260	4,439	16,360	20,800		4,489
1	03	02	04	02	17	RCV: Power Supply	30-May-07	30-May-07	SL_MSEG2	\$\$		11,800		12,651	12,651	20.0%	2,530
1	03	02	04	02	17	RCV: Transducers	30-May-07	30-May-07	SL_MSEG2	\$\$		1,320		1,415	1,415	20.0%	283
1	03	02	04	02	17	RCV: PS Controller	30-May-07	30-May-07	SL_MSEG2	\$\$		2,000		2,144	2,144	25.0%	536
1	03	02	04	02	17	RCV: Intra-rack Cables and Connectors	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		40		43	43	20.0%	9
1	03	02	04	02	17	RCV: Circr brkr, 3-pole, 30 A, 480V, Series Trp	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		100		107	107	20.0%	21
1	03	02	04	02	17	Bench test and perform safety inspection of PS	31-May-07	1-Jun-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	02	17	Bench test PS Controller	31-May-07	31-May-07	SL_PCT2	Hrs	16		987		987	25.0%	247
1	03	02	04	02	17	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCE2	Hrs	8		902		902	25.0%	225
1	03	02	04	02	17	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCCA2	Hrs	8		525		525	25.0%	131
1	03	02	04	02	17	Integrate cables	27-Sep-07	27-Sep-07	SL_TMUE2	Hrs	16		1,532		1,532	25.0%	383
1	03	02	04	02	18	Power Supply QVM2					48	13,260	3,946	14,216	18,162		3,830
1	03	02	04	02	18	RCV: Power Supply	30-May-07	30-May-07	SL_MSEG2	\$\$		11,800		12,651	12,651	20.0%	2,530
1	03	02	04	02	18	RCV: Transducers	30-May-07	30-May-07	SL_MSEG2	\$\$		1,320		1,415	1,415	20.0%	283
1	03	02	04	02	18	RCV: Intra-rack Cables and Connectors	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		40		43	43	20.0%	9
1	03	02	04	02	18	RCV: Circr brkr, 3-pole, 30 A, 480V, Series Trp	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		100		107	107	20.0%	21
1	03	02	04	02	18	Bench test and perform safety inspection of PS	31-May-07	1-Jun-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	02	18	Bench test PS Controller	31-May-07	31-May-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	02	18	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCE2	Hrs	8		902		902	25.0%	225
1	03	02	04	02	18	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCCA2	Hrs	8		525		525	25.0%	131
1	03	02	04	02	18	Integrate cables	27-Sep-07	27-Sep-07	SL_TMUE2	Hrs	16		1,532		1,532	25.0%	383
1	03	02	04	02	19	Power Supply QVM3					48	15,260	3,946	16,360	20,306		4,366
1	03	02	04	02	19	RCV: Power Supply	30-May-07	30-May-07	SL_MSEG2	\$\$		11,800		12,651	12,651	20.0%	2,530
1	03	02	04	02	19	RCV: Transducers	30-May-07	30-May-07	SL_MSEG2	\$\$		1,320		1,415	1,415	20.0%	283
1	03	02	04	02	19	RCV: PS Controller	30-May-07	30-May-07	SL_MSEG2	\$\$		2,000		2,144	2,144	25.0%	536
1	03	02	04	02	19	RCV: Intra-rack Cables and Connectors	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		40		43	43	20.0%	9
1	03	02	04	02	19	RCV: Circr brkr, 3-pole, 30 A, 480V, Series Trp	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		100		107	107	20.0%	21

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline Description	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont %	Contingency \$
				Hours	\$						Labor	M&S	Total				
1	2	3	4											5	6		
1	03	02	04	02	19	Bench test and perform safety inspection of PS	31-May-07	1-Jun-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	02	19	Bench test PS Controller	31-May-07	31-May-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	02	19	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCE2	Hrs	8		902		902	25.0%	225
1	03	02	04	02	19	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCCA2	Hrs	8		525		525	25.0%	131
1	03	02	04	02	19	Integrate cables	27-Sep-07	27-Sep-07	SL_TMUE2	Hrs	16		1,532		1,532	25.0%	383
1	03	02	04	02	20	Power Supply QVM4					48	13,260	3,946	14,216	18,162		3,830
1	03	02	04	02	20	RCV: Power Supply	30-May-07	30-May-07	SL_MSEG2	\$\$		11,800		12,651	12,651	20.0%	2,530
1	03	02	04	02	20	RCV: Transducers	30-May-07	30-May-07	SL_MSEG2	\$\$		1,320		1,415	1,415	20.0%	283
1	03	02	04	02	20	RCV: Intra-rack Cables and Connectors	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		40		43	43	20.0%	9
1	03	02	04	02	20	RCV: Cirtc brkr, 3-pole, 30 A, 480V, Series Trp	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		100		107	107	20.0%	21
1	03	02	04	02	20	Bench test and perform safety inspection of PS	31-May-07	1-Jun-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	02	20	Bench test PS Controller	1-May-07	1-May-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	02	20	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCE2	Hrs	8		902		902	25.0%	225
1	03	02	04	02	20	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCCA2	Hrs	8		525		525	25.0%	131
1	03	02	04	02	20	Integrate cables	27-Sep-07	27-Sep-07	SL_TMUE2	Hrs	16		1,532		1,532	25.0%	383
1	03	02	04	02	21	Power Supply QVB1-3					48	3,460	3,954	3,709	7,663		1,838
1	03	02	04	02	21	RCV: Transducers	30-May-07	30-May-07	SL_MSEG2	\$\$		1,320		1,415	1,415	20.0%	283
1	03	02	04	02	21	RCV: PS Controller	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		2,000		2,144	2,144	25.0%	536
1	03	02	04	02	21	RCV: Intra-rack Cables and Connectors	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		40		43	43	20.0%	9
1	03	02	04	02	21	RCV: Cirtc brkr, 3-pole, 30 A, 480V, Series Trp	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		100		107	107	20.0%	21
1	03	02	04	02	21	Bench test and perform safety inspection of PS	31-May-07	1-Jun-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	02	21	Bench test PS Controller	27-Sep-07	27-Sep-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	02	21	Pre-install Qual Test	28-Sep-07	2-Oct-07	SL_PCE2	Hrs	8		907		907	25.0%	227
1	03	02	04	02	21	Pre-install Qual Test	28-Sep-07	2-Oct-07	SL_PCCA2	Hrs	8		528		528	25.0%	132
1	03	02	04	02	21	Integrate cables	27-Sep-07	27-Sep-07	SL_TMUE2	Hrs	16		1,532		1,532	25.0%	383
1	03	02	04	02	22	Power Supply QDL31-34					48	27,260	3,946	29,226	33,171		6,939
1	03	02	04	02	22	RCV: Power Supply	30-May-07	30-May-07	SL_MSEG2	\$\$		23,800		25,516	25,516	20.0%	5,103
1	03	02	04	02	22	RCV: Transducers	30-May-07	30-May-07	SL_MSEG2	\$\$		1,320		1,415	1,415	20.0%	283
1	03	02	04	02	22	RCV: PS Controller	30-May-07	30-May-07	SL_MSEG2	\$\$		2,000		2,144	2,144	25.0%	536
1	03	02	04	02	22	RCV: Intra-rack Cables and Connectors	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		40		43	43	20.0%	9
1	03	02	04	02	22	RCV: Cirtc brkr, 3-pole, 30 A, 480V, Series Trp	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		100		107	107	20.0%	21
1	03	02	04	02	22	Bench test and perform safety inspection of PS	31-May-07	1-Jun-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	02	22	Bench test PS Controller	31-May-07	31-May-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	02	22	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCE2	Hrs	8		902		902	25.0%	225
1	03	02	04	02	22	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCCA2	Hrs	8		525		525	25.0%	131
1	03	02	04	02	22	Integrate cables	27-Sep-07	27-Sep-07	SL_TMUE2	Hrs	16		1,532		1,532	25.0%	383
1	03	02	04	02	23	Power Supply QE31-36					48	15,260	3,946	16,360	20,306		4,366
1	03	02	04	02	23	RCV: Power Supply	30-May-07	30-May-07	SL_MSEG2	\$\$		11,800		12,651	12,651	20.0%	2,530
1	03	02	04	02	23	RCV: Transducers	30-May-07	30-May-07	SL_MSEG2	\$\$		1,320		1,415	1,415	20.0%	283
1	03	02	04	02	23	RCV: PS Controller	30-May-07	30-May-07	SL_MSEG2	\$\$		2,000		2,144	2,144	25.0%	536
1	03	02	04	02	23	RCV: Intra-rack Cables and Connectors	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		40		43	43	20.0%	9
1	03	02	04	02	23	RCV: Cirtc brkr, 3-pole, 30 A, 480V, Series Trp	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		100		107	107	20.0%	21
1	03	02	04	02	23	Bench test and perform safety inspection of PS	31-May-07	1-Jun-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	02	23	Bench test PS Controller	31-May-07	31-May-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	02	23	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCE2	Hrs	8		902		902	25.0%	225
1	03	02	04	02	23	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCCA2	Hrs	8		525		525	25.0%	131
1	03	02	04	02	23	Integrate cables	27-Sep-07	27-Sep-07	SL_TMUE2	Hrs	16		1,532		1,532	25.0%	383
1	03	02	04	02	24	Power Supply QEM1					48	15,260	3,946	16,360	20,306		4,366
1	03	02	04	02	24	RCV: Power Supply	30-May-07	30-May-07	SL_MSEG2	\$\$		11,800		12,651	12,651	20.0%	2,530
1	03	02	04	02	24	RCV: Transducers	30-May-07	30-May-07	SL_MSEG2	\$\$		1,320		1,415	1,415	20.0%	283
1	03	02	04	02	24	RCV: PS Controller	30-May-07	30-May-07	SL_MSEG2	\$\$		2,000		2,144	2,144	25.0%	536
1	03	02	04	02	24	RCV: Intra-rack Cables and Connectors	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		40		43	43	20.0%	9
1	03	02	04	02	24	RCV: Cirtc brkr, 3-pole, 30 A, 480V, Series Trp	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		100		107	107	20.0%	21
1	03	02	04	02	24	Bench test and perform safety inspection of PS	31-May-07	1-Jun-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	02	24	Bench test PS Controller	31-May-07	31-May-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	02	24	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCE2	Hrs	8		902		902	25.0%	225
1	03	02	04	02	24	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCCA2	Hrs	8		525		525	25.0%	131
1	03	02	04	02	24	Integrate cables	27-Sep-07	27-Sep-07	SL_TMUE2	Hrs	16		1,532		1,532	25.0%	383
1	03	02	04	02	25	Power Supply QEM2					48	15,260	3,946	16,360	20,306		4,366
1	03	02	04	02	25	RCV: Power Supply	30-May-07	30-May-07	SL_MSEG2	\$\$		11,800		12,651	12,651	20.0%	2,530
1	03	02	04	02	25	RCV: Transducers	30-May-07	30-May-07	SL_MSEG2	\$\$		1,320		1,415	1,415	20.0%	283
1	03	02	04	02	25	RCV: PS Controller	30-May-07	30-May-07	SL_MSEG2	\$\$		2,000		2,144	2,144	25.0%	536
1	03	02	04	02	25	RCV: Intra-rack Cables and Connectors	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		40		43	43	20.0%	9
1	03	02	04	02	25	RCV: Cirtc brkr, 3-pole, 30 A, 480V, Series Trp	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		100		107	107	20.0%	21
1	03	02	04	02	25	Bench test and perform safety inspection of PS	31-May-07	1-Jun-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	02	25	Bench test PS Controller	31-May-07	31-May-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	02	25	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCE2	Hrs	8		902		902	25.0%	225
1	03	02	04	02	25	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCCA2	Hrs	8		525		525	25.0%	131
1	03	02	04	02	25	Integrate cables	27-Sep-07	27-Sep-07	SL_TMUE2	Hrs	16		1,532		1,532	25.0%	383
1	03	02	04	02	26	Power Supply QEM3					48	15,260	3,946	16,360	20,306		4,366
1	03	02	04	02	26	RCV: Power Supply	30-May-07	30-May-07	SL_MSEG2	\$\$		11,800		12,651	12,651	20.0%	2,530
1	03	02	04	02	26	RCV: Transducers	30-May-07	30-May-07	SL_MSEG2	\$\$		1,320		1,415	1,415	20.0%	283

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline Description	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont %	Contingency \$
1	03	02	04	02	26						Hours	\$	Labor	M&S	Total		
1	03	02	04	02	26	RCV: PS Controller	30-May-07	30-May-07	SL_MSEG2	\$\$		2,000		2,144	2,144	25.0%	536
1	03	02	04	02	26	RCV: Intra-rack Cables and Connectors	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		40		43	43	20.0%	9
1	03	02	04	02	26	RCV: Cirtc brkr, 3-pole, 30 A, 480V, Series Trp	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		100		107	107	20.0%	21
1	03	02	04	02	26	Bench test and perform safety inspection of PS	31-May-07	1-Jun-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	02	26	Bench test PS Controller	31-May-07	31-May-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	02	26	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCE2	Hrs	8		902		902	25.0%	225
1	03	02	04	02	26	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCCA2	Hrs	8		525		525	25.0%	131
1	03	02	04	02	26	Integrate cables	27-Sep-07	27-Sep-07	SL_TMUE2	Hrs	16		1,532		1,532	25.0%	383
1	03	02	04	02	27	Power Supply QEM4					48	15,260	3,946	16,360	20,306		4,366
1	03	02	04	02	27	RCV: Power Supply	30-May-07	30-May-07	SL_MSEG2	\$\$		11,800		12,651	12,651	20.0%	2,530
1	03	02	04	02	27	RCV: Transductors	30-May-07	30-May-07	SL_MSEG2	\$\$		1,320		1,415	1,415	20.0%	283
1	03	02	04	02	27	RCV: PS Controller	30-May-07	30-May-07	SL_MSEG2	\$\$		2,000		2,144	2,144	25.0%	536
1	03	02	04	02	27	RCV: Intra-rack Cables and Connectors	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		40		43	43	20.0%	9
1	03	02	04	02	27	RCV: Cirtc brkr, 3-pole, 30 A, 480V, Series Trp	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		100		107	107	20.0%	21
1	03	02	04	02	27	Bench test and perform safety inspection of PS	31-May-07	1-Jun-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	02	27	Bench test PS Controller	31-May-07	31-May-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	02	27	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCE2	Hrs	8		902		902	25.0%	225
1	03	02	04	02	27	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCCA2	Hrs	8		525		525	25.0%	131
1	03	02	04	02	27	Integrate cables	27-Sep-07	27-Sep-07	SL_TMUE2	Hrs	16		1,532		1,532	25.0%	383
1	03	02	04	02	28	Power Supply QT11,13,21,23,31,33,41,43					48	3,460	3,946	3,709	7,655		1,836
1	03	02	04	02	28	RCV: Transductors	30-May-07	30-May-07	SL_MSEG2	\$\$		1,320		1,415	1,415	20.0%	283
1	03	02	04	02	28	RCV: PS Controller	1-May-07	1-May-07	SL_MSEG2	\$\$		2,000		2,144	2,144	25.0%	536
1	03	02	04	02	28	RCV: Intra-rack Cables and Connectors	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		40		43	43	20.0%	9
1	03	02	04	02	28	RCV: Cirtc brkr, 3-pole, 30 A, 480V, Series Trp	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		100		107	107	20.0%	21
1	03	02	04	02	28	Bench test and perform safety inspection of PS	31-May-07	1-Jun-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	02	28	Bench test PS Controller	2-May-07	2-May-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	02	28	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCE2	Hrs	8		902		902	25.0%	225
1	03	02	04	02	28	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCCA2	Hrs	8		525		525	25.0%	131
1	03	02	04	02	28	Integrate cables	27-Sep-07	27-Sep-07	SL_TMUE2	Hrs	16		1,532		1,532	25.0%	383
1	03	02	04	02	29	Power Supply QT12,22,32,42					48	25,260	3,946	27,081	31,027		6,510
1	03	02	04	02	29	RCV: Power Supply	30-May-07	30-May-07	SL_MSEG2	\$\$		21,800		23,372	23,372	20.0%	4,674
1	03	02	04	02	29	RCV: Transductors	30-May-07	30-May-07	SL_MSEG2	\$\$		1,320		1,415	1,415	20.0%	283
1	03	02	04	02	29	RCV: PS Controller	30-May-07	30-May-07	SL_MSEG2	\$\$		2,000		2,144	2,144	25.0%	536
1	03	02	04	02	29	RCV: Intra-rack Cables and Connectors	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		40		43	43	20.0%	9
1	03	02	04	02	29	RCV: Cirtc brkr, 3-pole, 30 A, 480V, Series Trp	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		100		107	107	20.0%	21
1	03	02	04	02	29	Bench test and perform safety inspection of PS	31-May-07	1-Jun-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	02	29	Bench test PS Controller	31-May-07	31-May-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	02	29	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCE2	Hrs	8		902		902	25.0%	225
1	03	02	04	02	29	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCCA2	Hrs	8		525		525	25.0%	131
1	03	02	04	02	29	Integrate cables	27-Sep-07	27-Sep-07	SL_TMUE2	Hrs	16		1,532		1,532	25.0%	383
1	03	02	04	02	30	Power Supply QUM1					48	15,260	3,946	16,360	20,306		4,366
1	03	02	04	02	30	RCV: Power Supply	30-May-07	30-May-07	SL_MSEG2	\$\$		11,800		12,651	12,651	20.0%	2,530
1	03	02	04	02	30	RCV: Transductors	30-May-07	30-May-07	SL_MSEG2	\$\$		1,320		1,415	1,415	20.0%	283
1	03	02	04	02	30	RCV: PS Controller	30-May-07	30-May-07	SL_MSEG2	\$\$		2,000		2,144	2,144	25.0%	536
1	03	02	04	02	30	RCV: Intra-rack Cables and Connectors	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		40		43	43	20.0%	9
1	03	02	04	02	30	RCV: Cirtc brkr, 3-pole, 30 A, 480V, Series Trp	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		100		107	107	20.0%	21
1	03	02	04	02	30	Bench test and perform safety inspection of PS	31-May-07	1-Jun-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	02	30	Bench test PS Controller	31-May-07	31-May-07	SL_PCT2	Hrs	8		494		494	25.0%	123
1	03	02	04	02	30	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCE2	Hrs	8		902		902	25.0%	225
1	03	02	04	02	30	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCCA2	Hrs	8		525		525	25.0%	131
1	03	02	04	02	30	Integrate cables	27-Sep-07	27-Sep-07	SL_TMUE2	Hrs	16		1,532		1,532	25.0%	383
1	03	02	04	02	31	Power Supply QUM2					24	13,260	1,973	14,216	16,189		3,336
1	03	02	04	02	31	RCV: Power Supply	30-May-07	30-May-07	SL_MSEG2	\$\$		11,800		12,651	12,651	20.0%	2,530
1	03	02	04	02	31	RCV: Transductors	30-May-07	30-May-07	SL_MSEG2	\$\$		1,320		1,415	1,415	20.0%	283
1	03	02	04	02	31	RCV: Intra-rack Cables and Connectors	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		40		43	43	20.0%	9
1	03	02	04	02	31	RCV: Cirtc brkr, 3-pole, 30 A, 480V, Series Trp	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		100		107	107	20.0%	21
1	03	02	04	02	31	Bench test and perform safety inspection of PS	31-May-07	1-Jun-07	SL_PCT2	Hrs	4		247		247	25.0%	62
1	03	02	04	02	31	Bench test PS Controller	1-May-07	1-May-07	SL_PCT2	Hrs	4		247		247	25.0%	62
1	03	02	04	02	31	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCE2	Hrs	4		451		451	25.0%	113
1	03	02	04	02	31	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCCA2	Hrs	4		263		263	25.0%	66
1	03	02	04	02	31	Integrate cables	27-Sep-07	27-Sep-07	SL_TMUE2	Hrs	8		766		766	25.0%	191
1	03	02	04	02	32	Power Supply QUM3					24	15,260	1,973	16,360	18,333		3,872
1	03	02	04	02	32	RCV: Power Supply	30-May-07	30-May-07	SL_MSEG2	\$\$		11,800		12,651	12,651	20.0%	2,530
1	03	02	04	02	32	RCV: Transductors	30-May-07	30-May-07	SL_MSEG2	\$\$		1,320		1,415	1,415	20.0%	283
1	03	02	04	02	32	RCV: PS Controller	30-May-07	30-May-07	SL_MSEG2	\$\$		2,000		2,144	2,144	25.0%	536
1	03	02	04	02	32	RCV: Intra-rack Cables and Connectors	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		40		43	43	20.0%	9
1	03	02	04	02	32	RCV: Cirtc brkr, 3-pole, 30 A, 480V, Series Trp	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		100		107	107	20.0%	21
1	03	02	04	02	32	Bench test and perform safety inspection of PS	31-May-07	1-Jun-07	SL_PCT2	Hrs	4		247		247	25.0%	62
1	03	02	04	02	32	Bench test PS Controller	31-May-07	31-May-07	SL_PCT2	Hrs	4		247		247	25.0%	62
1	03	02	04	02	32	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCE2	Hrs	4		451		451	25.0%	113
1	03	02	04	02	32	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCCA2	Hrs	4		263		263	25.0%	66
1	03	02	04	02	32	Integrate cables	27-Sep-07	27-Sep-07	SL_TMUE2	Hrs	8		766		766	25.0%	191

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline Description	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escldt Cost			Cont %	Contingency \$	
1	2	3	4	5	6						Hours	\$	Labor	M&S	Total			
1	03	02	04	02	33	Power Supply QUM4					24	15,260	1,973	16,360	18,333		3,872	
1	03	02	04	02	33	RCV: Power Supply	30-May-07	30-May-07	SL_MSEG2	\$\$		11,800			12,651	12,651	20.0%	2,530
1	03	02	04	02	33	RCV: Transducers	30-May-07	30-May-07	SL_MSEG2	\$\$		1,320			1,415	1,415	20.0%	283
1	03	02	04	02	33	RCV: PS Controller	30-May-07	30-May-07	SL_MSEG2	\$\$		2,000			2,144	2,144	25.0%	536
1	03	02	04	02	33	RCV: Intra-rack Cables and Connectors	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		40			43	43	20.0%	9
1	03	02	04	02	33	RCV: Circ brkr, 3-pole, 30 A, 480V, Series Trp	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		100			107	107	20.0%	21
1	03	02	04	02	33	Bench test and perform safety inspection of PS	31-May-07	1-Jun-07	SL_PCT2	Hrs	4			247	247	25.0%	62	
1	03	02	04	02	33	Bench test PS Controller	31-May-07	31-May-07	SL_PCT2	Hrs	4			247	247	25.0%	62	
1	03	02	04	02	33	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCE2	Hrs	4			451	451	25.0%	113	
1	03	02	04	02	33	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCCA2	Hrs	4			263	263	25.0%	66	
1	03	02	04	02	33	Integrate cables	27-Sep-07	27-Sep-07	SL_TMUE2	Hrs	8			766	766	25.0%	191	
1	03	02	04	02	34	Power Supply QDMP1-2					24	15,260	1,973	16,360	18,333		3,872	
1	03	02	04	02	34	RCV: Power Supply	30-May-07	30-May-07	SL_MSEG2	\$\$		11,800			12,651	12,651	20.0%	2,530
1	03	02	04	02	34	RCV: Transducers	30-May-07	30-May-07	SL_MSEG2	\$\$		1,320			1,415	1,415	20.0%	283
1	03	02	04	02	34	RCV: PS Controller	30-May-07	30-May-07	SL_MSEG2	\$\$		2,000			2,144	2,144	25.0%	536
1	03	02	04	02	34	RCV: Intra-rack Cables and Connectors	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		40			43	43	20.0%	9
1	03	02	04	02	34	RCV: Circ brkr, 3-pole, 30 A, 480V, Series Trp	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		100			107	107	20.0%	21
1	03	02	04	02	34	Bench test and perform safety inspection of PS	31-May-07	1-Jun-07	SL_PCT2	Hrs	4			247	247	25.0%	62	
1	03	02	04	02	34	Bench test PS Controller	31-May-07	31-May-07	SL_PCT2	Hrs	4			247	247	25.0%	62	
1	03	02	04	02	34	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCE2	Hrs	4			451	451	25.0%	113	
1	03	02	04	02	34	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCCA2	Hrs	4			263	263	25.0%	66	
1	03	02	04	02	34	Integrate cables	27-Sep-07	27-Sep-07	SL_TMUE2	Hrs	8			766	766	25.0%	191	
1	03	02	04	02	35	Power Supply QUE1					24	13,260	1,973	14,216	16,189		3,336	
1	03	02	04	02	35	RCV: Power Supply	30-May-07	30-May-07	SL_MSEG2	\$\$		11,800			12,651	12,651	20.0%	2,530
1	03	02	04	02	35	RCV: Transducers	30-May-07	30-May-07	SL_MSEG2	\$\$		1,320			1,415	1,415	20.0%	283
1	03	02	04	02	35	RCV: Intra-rack Cables and Connectors	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		40			43	43	20.0%	9
1	03	02	04	02	35	RCV: Circ brkr, 3-pole, 30 A, 480V, Series Trp	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		100			107	107	20.0%	21
1	03	02	04	02	35	Bench test and perform safety inspection of PS	31-May-07	1-Jun-07	SL_PCT2	Hrs	4			247	247	25.0%	62	
1	03	02	04	02	35	Bench test PS Controller	31-May-07	1-May-07	SL_PCT2	Hrs	4			247	247	25.0%	62	
1	03	02	04	02	35	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCE2	Hrs	4			451	451	25.0%	113	
1	03	02	04	02	35	Pre-install Qual Test	4-Jun-07	6-Jun-07	SL_PCCA2	Hrs	4			263	263	25.0%	66	
1	03	02	04	02	35	Integrate cables	27-Sep-07	27-Sep-07	SL_TMUE2	Hrs	8			766	766	25.0%	191	
1	03	02	04	02	36	Power Supply QUE2					24	15,260	1,977	16,360	18,337		3,874	
1	03	02	04	02	36	RCV: Power Supply	30-May-07	30-May-07	SL_MSEG2	\$\$		11,800			12,651	12,651	20.0%	2,530
1	03	02	04	02	36	RCV: Transducers	30-May-07	30-May-07	SL_MSEG2	\$\$		1,320			1,415	1,415	20.0%	283
1	03	02	04	02	36	RCV: PS Controller	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		2,000			2,144	2,144	25.0%	536
1	03	02	04	02	36	RCV: Intra-rack Cables and Connectors	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		40			43	43	20.0%	9
1	03	02	04	02	36	RCV: Circ brkr, 3-pole, 30 A, 480V, Series Trp	26-Sep-07	26-Sep-07	SL_MSEG2	\$\$		100			107	107	20.0%	21
1	03	02	04	02	36	Bench test and perform safety inspection of PS	31-May-07	1-Jun-07	SL_PCT2	Hrs	4			247	247	25.0%	62	
1	03	02	04	02	36	Bench test PS Controller	27-Sep-07	27-Sep-07	SL_PCT2	Hrs	4			247	247	25.0%	62	
1	03	02	04	02	36	Pre-install Qual Test	28-Sep-07	2-Oct-07	SL_PCE2	Hrs	4			453	453	25.0%	113	
1	03	02	04	02	36	Pre-install Qual Test	28-Sep-07	2-Oct-07	SL_PCCA2	Hrs	4			264	264	25.0%	66	
1	03	02	04	02	36	Integrate cables	27-Sep-07	27-Sep-07	SL_TMUE2	Hrs	8			766	766	25.0%	191	
1	03	02	04	02	38	Rack Accessories - LI24					3	640	185	686	871		184	
1	03	02	04	02	38	RCV: Circuit Breaker, 100A 480V, 3-pole,25kAIC	13-Jun-07	13-Jun-07	SL_MSEG2	\$\$		640			686	686	20.0%	137
1	03	02	04	02	38	Assemble and test	14-Jun-07	14-Jun-07	SL_PCT2	Hrs	3			185	185	25.0%	46	
1	03	02	04	02	39	Rack Accessories - LI25					3	640	185	686	871		184	
1	03	02	04	02	39	RCV: Circuit Breaker, 100A 480V, 3-pole,25kAIC	13-Jun-07	13-Jun-07	SL_MSEG2	\$\$		640			686	686	20.0%	137
1	03	02	04	02	39	Assemble and test	14-Jun-07	14-Jun-07	SL_PCT2	Hrs	3			185	185	25.0%	46	
1	03	02	04	02	40	Rack Accessories - BSY					3	640	185	686	871		184	
1	03	02	04	02	40	RCV: Circuit Breaker, 100A 480V, 3-pole,25kAIC	13-Jun-07	13-Jun-07	SL_MSEG2	\$\$		640			686	686	20.0%	137
1	03	02	04	02	40	Assemble and test	14-Jun-07	14-Jun-07	SL_PCT2	Hrs	3			185	185	25.0%	46	
1	03	02	04	02	41	Rack Accessories - Dump					3	640	185	686	871		184	
1	03	02	04	02	41	RCV: Circuit Breaker, 100A 480V, 3-pole,25kAIC	13-Jun-07	13-Jun-07	SL_MSEG2	\$\$		640			686	686	20.0%	137
1	03	02	04	02	41	Assemble and test	14-Jun-07	14-Jun-07	SL_PCT2	Hrs	3			185	185	25.0%	46	
1	03	02	04	03		Beamline Power Supplies - (Trim Type)					1,366	389,304	142,187	417,374	559,561		125,392	
1	03	02	04	03	05	MCOR_5					28	26,725	2,677	28,652	31,329		6,400	
1	03	02	04	03	05	RCV: MCOR Chassis	30-May-07	30-May-07	SL_MSEG2	\$\$		2,850			3,055	3,055	20.0%	611
1	03	02	04	03	05	RCV: MCOR Blower	30-May-07	30-May-07	SL_MSEG2	\$\$		500			536	536	20.0%	107
1	03	02	04	03	05	RCV: MCOR Crate Accessories	30-May-07	30-May-07	SL_MSEG2	\$\$		500			536	536	20.0%	107
1	03	02	04	03	05	RCV: MCOR Controller Module	30-May-07	30-May-07	SL_MSEG2	\$\$		800			858	858	20.0%	172
1	03	02	04	03	05	RCV: 30Amp Pwr & Prog Modules - BX21 (Trim)	30-May-07	30-May-07	SL_MSEG2	\$\$		1,925			2,064	2,064	20.0%	413
1	03	02	04	03	05	RCV: 30Amp Pwr & Prog Modules - BX23 (Trim)	30-May-07	30-May-07	SL_MSEG2	\$\$		1,925			2,064	2,064	20.0%	413
1	03	02	04	03	05	RCV: 30Amp Pwr & Prog Modules - BX24 (Trim)	30-May-07	30-May-07	SL_MSEG2	\$\$		1,925			2,064	2,064	20.0%	413
1	03	02	04	03	05	RCV: 12Amp Pwr & Prog Modules - CQ21	30-May-07	30-May-07	SL_MSEG2	\$\$		1,925			2,064	2,064	20.0%	413
1	03	02	04	03	05	RCV: 12Amp Pwr & Prog Modules - CQ22	30-May-07	30-May-07	SL_MSEG2	\$\$		1,925			2,064	2,064	20.0%	413
1	03	02	04	03	05	RCV: 12Amp Pwr & Prog Modules - QM22	30-May-07	30-May-07	SL_MSEG2	\$\$		1,925			2,064	2,064	20.0%	413
1	03	02	04	03	05	RCV: 12Amp Pwr & Prog Modules - YC24900	30-May-07	30-May-07	SL_MSEG2	\$\$		1,925			2,064	2,064	20.0%	413
1	03	02	04	03	05	RCV: Analog to Digital Converter Module - 32 Ch	30-May-07	30-May-07	SL_MSEG2	\$\$		4,000			4,288	4,288	20.0%	858
1	03	02	04	03	05	RCV: Digital to Analog Converter Module - 16 Ch	30-May-07	30-May-07	SL_MSEG2	\$\$		2,200			2,359	2,359	20.0%	472
1	03	02	04	03	05	RCV: DI Module - 16 Chan	30-May-07	30-May-07	SL_MSEG2	\$\$		1,000			1,072	1,072	20.0%	214
1	03	02	04	03	05	RCV: IP Carrier Board	30-May-07	30-May-07	SL_MSEG2	\$\$		800			858	858	20.0%	172

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early	Early	Res	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont	Contingency	
						Description	Start	Finish	Code		Hours	\$	Labor	M&S	Total	%	\$	
1	03	02	04	03	05	RCV: IO Accessories	30-May-07	30-May-07	SL_MSEG2	\$\$		300			322	322	20.0%	64
1	03	02	04	03	05	RCV: ADC,DAC,DI cables and connectors	18-Sep-07	18-Sep-07	SL_MSEG2	\$\$		300			322	322	20.0%	64
1	03	02	04	03	05	Integrate Cables	19-Sep-07	16-Oct-07	SL_TMUE2	Hrs	12		1,164		1,164	25.0%	291	
1	03	02	04	03	05	MCOR Bench Test and Assembly	17-Oct-07	13-Nov-07	SL_TMUE2	Hrs	8		784		784	25.0%	196	
1	03	02	04	03	05	Pre-install Qual Test	14-Nov-07	20-Nov-07	SL_PCE2	Hrs	4		461		461	25.0%	115	
1	03	02	04	03	05	Pre-install Qual Test	14-Nov-07	20-Nov-07	SL_PCCA2	Hrs	4		269		269	25.0%	67	
1	03	02	04	03	06	MCOR_6					28	19,025	2,677	20,397	23,079		4,749	
1	03	02	04	03	06	RCV: MCOR Chassis	30-May-07	30-May-07	SL_MSEG2	\$\$		2,850		3,055	3,055	20.0%	611	
1	03	02	04	03	06	RCV: MCOR Blower	30-May-07	30-May-07	SL_MSEG2	\$\$		500		536	536	20.0%	107	
1	03	02	04	03	06	RCV: MCOR Crate Accessories	30-May-07	30-May-07	SL_MSEG2	\$\$		500		536	536	20.0%	107	
1	03	02	04	03	06	RCV: MCOR Controller Module	30-May-07	30-May-07	SL_MSEG2	\$\$		800		858	858	20.0%	172	
1	03	02	04	03	06	RCV: 12Amp Pwr & Prog Modules - XC25202	30-May-07	30-May-07	SL_MSEG2	\$\$		1,925		2,064	2,064	20.0%	413	
1	03	02	04	03	06	RCV: 12Amp Pwr & Prog Modules - XC25602	30-May-07	30-May-07	SL_MSEG2	\$\$		1,925		2,064	2,064	20.0%	413	
1	03	02	04	03	06	RCV: 12Amp Pwr & Prog Modules - YC25503	30-May-07	30-May-07	SL_MSEG2	\$\$		1,925		2,064	2,064	20.0%	413	
1	03	02	04	03	06	RCV: Analog to Digital Converter Module - 32 Ch	30-May-07	30-May-07	SL_MSEG2	\$\$		4,000		4,288	4,288	20.0%	858	
1	03	02	04	03	06	RCV: Digital to Analog Converter Module - 16 Ch	30-May-07	30-May-07	SL_MSEG2	\$\$		2,200		2,359	2,359	20.0%	472	
1	03	02	04	03	06	RCV: DI Module - 16 Chan	30-May-07	30-May-07	SL_MSEG2	\$\$		1,000		1,072	1,072	20.0%	214	
1	03	02	04	03	06	RCV: IP Carrier Board	30-May-07	30-May-07	SL_MSEG2	\$\$		800		858	858	20.0%	172	
1	03	02	04	03	06	RCV: IO Accessories	30-May-07	30-May-07	SL_MSEG2	\$\$		300		322	322	20.0%	64	
1	03	02	04	03	06	RCV: ADC,DAC,DI cables and connectors	18-Sep-07	18-Sep-07	SL_MSEG2	\$\$		300		322	322	20.0%	64	
1	03	02	04	03	06	Integrate Cables	19-Sep-07	16-Oct-07	SL_TMUE2	Hrs	12		1,164		1,164	25.0%	291	
1	03	02	04	03	06	MCOR Bench Test and Assembly	17-Oct-07	13-Nov-07	SL_TMUE2	Hrs	8		784		784	25.0%	196	
1	03	02	04	03	06	Pre-install Qual Test	14-Nov-07	20-Nov-07	SL_PCE2	Hrs	4		461		461	25.0%	115	
1	03	02	04	03	06	Pre-install Qual Test	14-Nov-07	20-Nov-07	SL_PCCA2	Hrs	4		269		269	25.0%	67	
1	03	02	04	03	07	MCOR_BSY1					28	20,950	2,677	22,461	25,137		5,161	
1	03	02	04	03	07	RCV: MCOR Chassis	30-May-07	30-May-07	SL_MSEG2	\$\$		2,850		3,055	3,055	20.0%	611	
1	03	02	04	03	07	RCV: MCOR Blower	30-May-07	30-May-07	SL_MSEG2	\$\$		500		536	536	20.0%	107	
1	03	02	04	03	07	RCV: MCOR Crate Accessories	30-May-07	30-May-07	SL_MSEG2	\$\$		500		536	536	20.0%	107	
1	03	02	04	03	07	RCV: MCOR Controller Module	30-May-07	30-May-07	SL_MSEG2	\$\$		800		858	858	20.0%	172	
1	03	02	04	03	07	RCV: 12Amp Pwr & Prog Modules - YC5	30-May-07	30-May-07	SL_MSEG2	\$\$		1,925		2,064	2,064	20.0%	413	
1	03	02	04	03	07	RCV: 12Amp Pwr & Prog Modules - XC6	30-May-07	30-May-07	SL_MSEG2	\$\$		1,925		2,064	2,064	20.0%	413	
1	03	02	04	03	07	RCV: 12Amp Pwr & Prog Modules - XCA0	30-May-07	30-May-07	SL_MSEG2	\$\$		1,925		2,064	2,064	20.0%	413	
1	03	02	04	03	07	RCV: 12Amp Pwr & Prog Modules - YCA0	30-May-07	30-May-07	SL_MSEG2	\$\$		1,925		2,064	2,064	20.0%	413	
1	03	02	04	03	07	RCV: Analog to Digital Converter Module - 32 Ch	18-Sep-07	18-Sep-07	SL_MSEG2	\$\$		4,000		4,288	4,288	20.0%	858	
1	03	02	04	03	07	RCV: Digital to Analog Converter Module - 16 Ch	18-Sep-07	18-Sep-07	SL_MSEG2	\$\$		2,200		2,359	2,359	20.0%	472	
1	03	02	04	03	07	RCV: DI Module - 16 Chan	18-Sep-07	18-Sep-07	SL_MSEG2	\$\$		1,000		1,072	1,072	20.0%	214	
1	03	02	04	03	07	RCV: IP Carrier Board	18-Sep-07	18-Sep-07	SL_MSEG2	\$\$		800		858	858	20.0%	172	
1	03	02	04	03	07	RCV: IO Accessories	18-Sep-07	18-Sep-07	SL_MSEG2	\$\$		300		322	322	20.0%	64	
1	03	02	04	03	07	RCV: ADC,DAC,DI cables and connectors	18-Sep-07	18-Sep-07	SL_MSEG2	\$\$		300		322	322	20.0%	64	
1	03	02	04	03	07	Integrate Cables	19-Sep-07	16-Oct-07	SL_TMUE2	Hrs	12		1,164		1,164	25.0%	291	
1	03	02	04	03	07	MCOR Bench Test and Assembly	17-Oct-07	13-Nov-07	SL_TMUE2	Hrs	8		784		784	25.0%	196	
1	03	02	04	03	07	Pre-install Qual Test	14-Nov-07	20-Nov-07	SL_PCE2	Hrs	4		461		461	25.0%	115	
1	03	02	04	03	07	Pre-install Qual Test	14-Nov-07	20-Nov-07	SL_PCCA2	Hrs	4		269		269	25.0%	67	
1	03	02	04	03	08	MCOR_LTU1					28	22,875	2,677	24,524	27,201		5,574	
1	03	02	04	03	08	RCV: MCOR Chassis	30-May-07	30-May-07	SL_MSEG2	\$\$		2,850		3,055	3,055	20.0%	611	
1	03	02	04	03	08	RCV: MCOR Blower	30-May-07	30-May-07	SL_MSEG2	\$\$		500		536	536	20.0%	107	
1	03	02	04	03	08	RCV: MCOR Crate Accessories	30-May-07	30-May-07	SL_MSEG2	\$\$		500		536	536	20.0%	107	
1	03	02	04	03	08	RCV: MCOR Controller Module	30-May-07	30-May-07	SL_MSEG2	\$\$		800		858	858	20.0%	172	
1	03	02	04	03	08	RCV: 12Amp Pwr & Prog Modules - YCVM1	30-May-07	30-May-07	SL_MSEG2	\$\$		1,925		2,064	2,064	20.0%	413	
1	03	02	04	03	08	RCV: 12Amp Pwr & Prog Modules - XCVM2	30-May-07	30-May-07	SL_MSEG2	\$\$		1,925		2,064	2,064	20.0%	413	
1	03	02	04	03	08	RCV: 12Amp Pwr & Prog Modules - BY1-BY2	30-May-07	30-May-07	SL_MSEG2	\$\$		1,925		2,064	2,064	20.0%	413	
1	03	02	04	03	08	RCV: 12Amp Pwr & Prog Modules - YCVB1	30-May-07	30-May-07	SL_MSEG2	\$\$		1,925		2,064	2,064	20.0%	413	
1	03	02	04	03	08	RCV: 12Amp Pwr & Prog Modules - XCVB2	30-May-07	30-May-07	SL_MSEG2	\$\$		1,925		2,064	2,064	20.0%	413	
1	03	02	04	03	08	RCV: Analog to Digital Converter Module - 32 Ch	30-May-07	30-May-07	SL_MSEG2	\$\$		4,000		4,288	4,288	20.0%	858	
1	03	02	04	03	08	RCV: Digital to Analog Converter Module - 16 Ch	30-May-07	30-May-07	SL_MSEG2	\$\$		2,200		2,359	2,359	20.0%	472	
1	03	02	04	03	08	RCV: DI Module - 16 Chan	30-May-07	30-May-07	SL_MSEG2	\$\$		1,000		1,072	1,072	20.0%	214	
1	03	02	04	03	08	RCV: IP Carrier Board	30-May-07	30-May-07	SL_MSEG2	\$\$		800		858	858	20.0%	172	
1	03	02	04	03	08	RCV: IO Accessories	30-May-07	30-May-07	SL_MSEG2	\$\$		300		322	322	20.0%	64	
1	03	02	04	03	08	RCV: ADC,DAC,DI cables and connectors	18-Sep-07	18-Sep-07	SL_MSEG2	\$\$		300		322	322	20.0%	64	
1	03	02	04	03	08	Integrate Cables	19-Sep-07	16-Oct-07	SL_TMUE2	Hrs	12		1,164		1,164	25.0%	291	
1	03	02	04	03	08	MCOR Bench Test and Assembly	17-Oct-07	13-Nov-07	SL_TMUE2	Hrs	8		784		784	25.0%	196	
1	03	02	04	03	08	Pre-install Qual Test	14-Nov-07	20-Nov-07	SL_PCE2	Hrs	4		461		461	25.0%	115	
1	03	02	04	03	08	Pre-install Qual Test	14-Nov-07	20-Nov-07	SL_PCCA2	Hrs	4		269		269	25.0%	67	
1	03	02	04	03	09	MCOR_LTU2					28	20,950	2,677	22,461	25,137		5,161	
1	03	02	04	03	09	RCV: MCOR Chassis	30-May-07	30-May-07	SL_MSEG2	\$\$		2,850		3,055	3,055	20.0%	611	
1	03	02	04	03	09	RCV: MCOR Blower	30-May-07	30-May-07	SL_MSEG2	\$\$		500		536	536	20.0%	107	
1	03	02	04	03	09	RCV: MCOR Crate Accessories	30-May-07	30-May-07	SL_MSEG2	\$\$		500		536	536	20.0%	107	
1	03	02	04	03	09	RCV: MCOR Controller Module	30-May-07	30-May-07	SL_MSEG2	\$\$		800		858	858	20.0%	172	
1	03	02	04	03	09	RCV: 12Amp Pwr & Prog Modules - YCVB2	30-May-07	30-May-07	SL_MSEG2	\$\$		1,925		2,064	2,064	20.0%	413	
1	03	02	04	03	09	RCV: 12Amp Pwr & Prog Modules - XCVM3	30-May-07	30-May-07	SL_MSEG2	\$\$		1,925		2,064	2,064	20.0%	413	
1	03	02	04	03	09	RCV: 12Amp Pwr & Prog Modules - YCVM4	30-May-07	30-May-07	SL_MSEG2	\$\$		1,925		2,064	2,064	20.0%	413	
1	03	02	04	03	09	RCV: 30Amp Pwr & Prog Modules - BX31 (Trim)	30-May-07	30-May-07	SL_MSEG2	\$\$		1,925		2,064	2,064	20.0%	413	

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escldt Cost			Cont %	Contingency \$
Description											Hours	\$	Labor	M&S	Total		
1	03	02	04	03	09	RCV: Analog to Digital Converter Module - 32 Ch	30-May-07	30-May-07	SL_MSEG2	\$\$		4,000		4,288	4,288	20.0%	858
1	03	02	04	03	09	RCV: Digital to Analog Converter Module - 16 Ch	30-May-07	30-May-07	SL_MSEG2	\$\$		2,200		2,359	2,359	20.0%	472
1	03	02	04	03	09	RCV: DI Module - 16 Chan	30-May-07	30-May-07	SL_MSEG2	\$\$		1,000		1,072	1,072	20.0%	214
1	03	02	04	03	09	RCV: IP Carrier Board	30-May-07	30-May-07	SL_MSEG2	\$\$		800		858	858	20.0%	172
1	03	02	04	03	09	RCV: IO Accessories	30-May-07	30-May-07	SL_MSEG2	\$\$		300		322	322	20.0%	64
1	03	02	04	03	09	RCV: ADC,DAC,DI cables and conectors	18-Sep-07	18-Sep-07	SL_MSEG2	\$\$		300		322	322	20.0%	64
1	03	02	04	03	09	Integrate Cables	19-Sep-07	16-Oct-07	SL_TMUE2	Hrs	12		1,164		1,164	25.0%	291
1	03	02	04	03	09	MCOR Bench Test and Assembly	17-Oct-07	13-Nov-07	SL_TMUE2	Hrs	8		784		784	25.0%	196
1	03	02	04	03	09	Pre-install Qual Test	14-Nov-07	20-Nov-07	SL_PCE2	Hrs	4		461		461	25.0%	115
1	03	02	04	03	09	Pre-install Qual Test	14-Nov-07	20-Nov-07	SL_PCCA2	Hrs	4		269		269	25.0%	67
1	03	02	04	03	10	MCOR_LTU3					28	19,025	2,677	20,397	23,074		4,749
1	03	02	04	03	10	RCV: MCOR Chassis	30-May-07	30-May-07	SL_MSEG2	\$\$		2,850		3,055	3,055	20.0%	611
1	03	02	04	03	10	RCV: MCOR Blower	30-May-07	30-May-07	SL_MSEG2	\$\$		500		536	536	20.0%	107
1	03	02	04	03	10	RCV: MCOR Crate Accessories	30-May-07	30-May-07	SL_MSEG2	\$\$		500		536	536	20.0%	107
1	03	02	04	03	10	RCV: MCOR Controller Module	30-May-07	30-May-07	SL_MSEG2	\$\$		800		858	858	20.0%	172
1	03	02	04	03	10	RCV: 30Amp Pwr & Prog Modules - BX35 (Trim)	30-May-07	30-May-07	SL_MSEG2	\$\$		1,925		2,064	2,064	20.0%	413
1	03	02	04	03	10	RCV: 30Amp Pwr & Prog Modules - BYW2 (Trim)	30-May-07	30-May-07	SL_MSEG2	\$\$		1,925		2,064	2,064	20.0%	413
1	03	02	04	03	10	RCV: 12Amp Pwr & Prog Modules - XCDL1	30-May-07	30-May-07	SL_MSEG2	\$\$		1,925		2,064	2,064	20.0%	413
1	03	02	04	03	10	RCV: Analog to Digital Converter Module - 32 Ch	30-May-07	30-May-07	SL_MSEG2	\$\$		4,000		4,288	4,288	20.0%	858
1	03	02	04	03	10	RCV: Digital to Analog Converter Module - 16 Ch	30-May-07	30-May-07	SL_MSEG2	\$\$		2,200		2,359	2,359	20.0%	472
1	03	02	04	03	10	RCV: DI Module - 16 Chan	30-May-07	30-May-07	SL_MSEG2	\$\$		1,000		1,072	1,072	20.0%	214
1	03	02	04	03	10	RCV: IP Carrier Board	30-May-07	30-May-07	SL_MSEG2	\$\$		800		858	858	20.0%	172
1	03	02	04	03	10	RCV: IO Accessories	30-May-07	30-May-07	SL_MSEG2	\$\$		300		322	322	20.0%	64
1	03	02	04	03	10	RCV: ADC,DAC,DI cables and conectors	18-Sep-07	18-Sep-07	SL_MSEG2	\$\$		300		322	322	20.0%	64
1	03	02	04	03	10	Integrate Cables	19-Sep-07	16-Oct-07	SL_TMUE2	Hrs	12		1,164		1,164	25.0%	291
1	03	02	04	03	10	MCOR Bench Test and Assembly	17-Oct-07	13-Nov-07	SL_TMUE2	Hrs	8		784		784	25.0%	196
1	03	02	04	03	10	Pre-install Qual Test	14-Nov-07	20-Nov-07	SL_PCE2	Hrs	4		461		461	25.0%	115
1	03	02	04	03	10	Pre-install Qual Test	14-Nov-07	20-Nov-07	SL_PCCA2	Hrs	4		269		269	25.0%	67
1	03	02	04	03	11	MCOR_LTU4					28	22,875	2,677	24,524	27,201		5,574
1	03	02	04	03	11	RCV: MCOR Chassis	30-May-07	30-May-07	SL_MSEG2	\$\$		2,850		3,055	3,055	20.0%	611
1	03	02	04	03	11	RCV: MCOR Blower	30-May-07	30-May-07	SL_MSEG2	\$\$		500		536	536	20.0%	107
1	03	02	04	03	11	RCV: MCOR Crate Accessories	30-May-07	30-May-07	SL_MSEG2	\$\$		500		536	536	20.0%	107
1	03	02	04	03	11	RCV: MCOR Controller Module	30-May-07	30-May-07	SL_MSEG2	\$\$		800		858	858	20.0%	172
1	03	02	04	03	11	RCV: 12Amp Pwr & Prog Modules - YCDL1	30-May-07	30-May-07	SL_MSEG2	\$\$		1,925		2,064	2,064	20.0%	413
1	03	02	04	03	11	RCV: 12Amp Pwr & Prog Modules - XCQT12	30-May-07	30-May-07	SL_MSEG2	\$\$		1,925		2,064	2,064	20.0%	413
1	03	02	04	03	11	RCV: 12Amp Pwr & Prog Modules - YCQT12	30-May-07	30-May-07	SL_MSEG2	\$\$		1,925		2,064	2,064	20.0%	413
1	03	02	04	03	11	RCV: 12Amp Pwr & Prog Modules - XCDL2	30-May-07	30-May-07	SL_MSEG2	\$\$		1,925		2,064	2,064	20.0%	413
1	03	02	04	03	11	RCV: 12Amp Pwr & Prog Modules - YCDL2	30-May-07	30-May-07	SL_MSEG2	\$\$		1,925		2,064	2,064	20.0%	413
1	03	02	04	03	11	RCV: Analog to Digital Converter Module - 32 Ch	30-May-07	30-May-07	SL_MSEG2	\$\$		4,000		4,288	4,288	20.0%	858
1	03	02	04	03	11	RCV: Digital to Analog Converter Module - 16 Ch	30-May-07	30-May-07	SL_MSEG2	\$\$		2,200		2,359	2,359	20.0%	472
1	03	02	04	03	11	RCV: DI Module - 16 Chan	30-May-07	30-May-07	SL_MSEG2	\$\$		1,000		1,072	1,072	20.0%	214
1	03	02	04	03	11	RCV: IP Carrier Board	30-May-07	30-May-07	SL_MSEG2	\$\$		800		858	858	20.0%	172
1	03	02	04	03	11	RCV: IO Accessories	30-May-07	30-May-07	SL_MSEG2	\$\$		300		322	322	20.0%	64
1	03	02	04	03	11	RCV: ADC,DAC,DI cables and conectors	18-Sep-07	18-Sep-07	SL_MSEG2	\$\$		300		322	322	20.0%	64
1	03	02	04	03	11	Integrate Cables	19-Sep-07	16-Oct-07	SL_TMUE2	Hrs	12		1,164		1,164	25.0%	291
1	03	02	04	03	11	MCOR Bench Test and Assembly	17-Oct-07	13-Nov-07	SL_TMUE2	Hrs	8		784		784	25.0%	196
1	03	02	04	03	11	Pre-install Qual Test	14-Nov-07	20-Nov-07	SL_PCE2	Hrs	4		461		461	25.0%	115
1	03	02	04	03	11	Pre-install Qual Test	14-Nov-07	20-Nov-07	SL_PCCA2	Hrs	4		269		269	25.0%	67
1	03	02	04	03	12	MCOR_LTU5					28	22,875	2,677	24,524	27,201		5,574
1	03	02	04	03	12	RCV: MCOR Chassis	30-May-07	30-May-07	SL_MSEG2	\$\$		2,850		3,055	3,055	20.0%	611
1	03	02	04	03	12	RCV: MCOR Blower	30-May-07	30-May-07	SL_MSEG2	\$\$		500		536	536	20.0%	107
1	03	02	04	03	12	RCV: MCOR Crate Accessories	30-May-07	30-May-07	SL_MSEG2	\$\$		500		536	536	20.0%	107
1	03	02	04	03	12	RCV: MCOR Controller Module	30-May-07	30-May-07	SL_MSEG2	\$\$		800		858	858	20.0%	172
1	03	02	04	03	12	RCV: 12Amp Pwr & Prog Modules - XCQT22	30-May-07	30-May-07	SL_MSEG2	\$\$		1,925		2,064	2,064	20.0%	413
1	03	02	04	03	12	RCV: 12Amp Pwr & Prog Modules - YCQT22	30-May-07	30-May-07	SL_MSEG2	\$\$		1,925		2,064	2,064	20.0%	413
1	03	02	04	03	12	RCV: 12Amp Pwr & Prog Modules - XCDL3	30-May-07	30-May-07	SL_MSEG2	\$\$		1,925		2,064	2,064	20.0%	413
1	03	02	04	03	12	RCV: 12Amp Pwr & Prog Modules - YCDL3	30-May-07	30-May-07	SL_MSEG2	\$\$		1,925		2,064	2,064	20.0%	413
1	03	02	04	03	12	RCV: 12Amp Pwr & Prog Modules - XCDL4	30-May-07	30-May-07	SL_MSEG2	\$\$		1,925		2,064	2,064	20.0%	413
1	03	02	04	03	12	RCV: Analog to Digital Converter Module - 32 Ch	30-May-07	30-May-07	SL_MSEG2	\$\$		4,000		4,288	4,288	20.0%	858
1	03	02	04	03	12	RCV: Digital to Analog Converter Module - 16 Ch	30-May-07	30-May-07	SL_MSEG2	\$\$		2,200		2,359	2,359	20.0%	472
1	03	02	04	03	12	RCV: DI Module - 16 Chan	30-May-07	30-May-07	SL_MSEG2	\$\$		1,000		1,072	1,072	20.0%	214
1	03	02	04	03	12	RCV: IP Carrier Board	30-May-07	30-May-07	SL_MSEG2	\$\$		800		858	858	20.0%	172
1	03	02	04	03	12	RCV: IO Accessories	30-May-07	30-May-07	SL_MSEG2	\$\$		300		322	322	20.0%	64
1	03	02	04	03	12	RCV: ADC,DAC,DI cables and conectors	18-Sep-07	18-Sep-07	SL_MSEG2	\$\$		300		322	322	20.0%	64
1	03	02	04	03	12	Integrate Cables	19-Sep-07	16-Oct-07	SL_TMUE2	Hrs	12		1,164		1,164	25.0%	291
1	03	02	04	03	12	MCOR Bench Test and Assembly	17-Oct-07	13-Nov-07	SL_TMUE2	Hrs	8		784		784	25.0%	196
1	03	02	04	03	12	Pre-install Qual Test	14-Nov-07	20-Nov-07	SL_PCE2	Hrs	4		461		461	25.0%	115
1	03	02	04	03	12	Pre-install Qual Test	14-Nov-07	20-Nov-07	SL_PCCA2	Hrs	4		269		269	25.0%	67
1	03	02	04	03	13	MCOR_LTU6					28	22,875	2,677	24,524	27,201		5,574
1	03	02	04	03	13	RCV: MCOR Chassis	18-Sep-07	18-Sep-07	SL_MSEG2	\$\$		2,850		3,055	3,055	20.0%	611
1	03	02	04	03	13	RCV: MCOR Blower	18-Sep-07	18-Sep-07	SL_MSEG2	\$\$		500		536	536	20.0%	107
1	03	02	04	03	13	RCV: MCOR Crate Accessories	18-Sep-07	18-Sep-07	SL_MSEG2	\$\$		500		536	536	20.0%	107

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont %	Contingency \$			
Description											Hours	\$	Labor	M&S	Total					
1	03	02	04	03	13	RCV: MCOR Controller Module	18-Sep-07	18-Sep-07	SL_MSEG2	\$\$					800		858	858	20.0%	172
1	03	02	04	03	13	RCV: 12Amp Pwr & Prog Modules - YCDL4	18-Sep-07	18-Sep-07	SL_MSEG2	\$\$		1,925			2,064		2,064	2,064	20.0%	413
1	03	02	04	03	13	RCV: 12Amp Pwr & Prog Modules - XCQT42	18-Sep-07	18-Sep-07	SL_MSEG2	\$\$		1,925			2,064		2,064	2,064	20.0%	413
1	03	02	04	03	13	RCV: 12Amp Pwr & Prog Modules - YCQT42	18-Sep-07	18-Sep-07	SL_MSEG2	\$\$		1,925			2,064		2,064	2,064	20.0%	413
1	03	02	04	03	13	RCV: 12Amp Pwr & Prog Modules - YCEM1	18-Sep-07	18-Sep-07	SL_MSEG2	\$\$		1,925			2,064		2,064	2,064	20.0%	413
1	03	02	04	03	13	RCV: 12Amp Pwr & Prog Modules - XCEM2	18-Sep-07	18-Sep-07	SL_MSEG2	\$\$		1,925			2,064		2,064	2,064	20.0%	413
1	03	02	04	03	13	RCV: Analog to Digital Converter Module - 32 Ch	18-Sep-07	18-Sep-07	SL_MSEG2	\$\$		4,000			4,288		4,288	4,288	20.0%	858
1	03	02	04	03	13	RCV: Digital to Analog Converter Module - 16 Ch	18-Sep-07	18-Sep-07	SL_MSEG2	\$\$		2,200			2,359		2,359	2,359	20.0%	472
1	03	02	04	03	13	RCV: DI Module - 16 Chan	18-Sep-07	18-Sep-07	SL_MSEG2	\$\$		1,000			1,072		1,072	1,072	20.0%	214
1	03	02	04	03	13	RCV: IP Carrier Board	18-Sep-07	18-Sep-07	SL_MSEG2	\$\$		800			858		858	858	20.0%	172
1	03	02	04	03	13	RCV: IO Accessories	18-Sep-07	18-Sep-07	SL_MSEG2	\$\$		300			322		322	322	20.0%	64
1	03	02	04	03	13	RCV: ADC,DAC,DI cables and connectors	18-Sep-07	18-Sep-07	SL_MSEG2	\$\$		300			322		322	322	20.0%	64
1	03	02	04	03	13	Integrate Cables	19-Sep-07	16-Oct-07	SL_TMUE2	Hrs	12			1,164		1,164	1,164	25.0%	291	
1	03	02	04	03	13	MCOR Bench Test and Assembly	17-Oct-07	13-Nov-07	SL_TMUE2	Hrs	8			784		784	784	25.0%	196	
1	03	02	04	03	13	Pre-install Qual Test	14-Nov-07	20-Nov-07	SL_PCE2	Hrs	4			461		461	461	25.0%	115	
1	03	02	04	03	13	Pre-install Qual Test	14-Nov-07	20-Nov-07	SL_PCCA2	Hrs	4			269		269	269	25.0%	67	
1	03	02	04	03	14	MCOR_LTU7					28	22,875	2,677	24,524	27,201				5,74	
1	03	02	04	03	14	RCV: MCOR Chassis	1-May-07	1-May-07	SL_MSEG2	\$\$		2,850			3,055		3,055	3,055	20.0%	611
1	03	02	04	03	14	RCV: MCOR Blower	1-May-07	1-May-07	SL_MSEG2	\$\$		500			536		536	536	20.0%	107
1	03	02	04	03	14	RCV: MCOR Crate Accessories	1-May-07	1-May-07	SL_MSEG2	\$\$		500			536		536	536	20.0%	107
1	03	02	04	03	14	RCV: MCOR Controller Module	1-May-07	1-May-07	SL_MSEG2	\$\$		800			858		858	858	20.0%	172
1	03	02	04	03	14	RCV: 12Amp Pwr & Prog Modules - YCCEM3	1-May-07	1-May-07	SL_MSEG2	\$\$		1,925			2,064		2,064	2,064	20.0%	413
1	03	02	04	03	14	RCV: 12Amp Pwr & Prog Modules - XCEM4	1-May-07	1-May-07	SL_MSEG2	\$\$		1,925			2,064		2,064	2,064	20.0%	413
1	03	02	04	03	14	RCV: 12Amp Pwr & Prog Modules - QEMV3	1-May-07	1-May-07	SL_MSEG2	\$\$		1,925			2,064		2,064	2,064	20.0%	413
1	03	02	04	03	14	RCV: 12Amp Pwr & Prog Modules - XCE31	1-May-07	1-May-07	SL_MSEG2	\$\$		1,925			2,064		2,064	2,064	20.0%	413
1	03	02	04	03	14	RCV: 12Amp Pwr & Prog Modules - YC32	1-May-07	1-May-07	SL_MSEG2	\$\$		1,925			2,064		2,064	2,064	20.0%	413
1	03	02	04	03	14	RCV: Analog to Digital Converter Module - 32 Ch	1-May-07	1-May-07	SL_MSEG2	\$\$		4,000			4,288		4,288	4,288	20.0%	858
1	03	02	04	03	14	RCV: Digital to Analog Converter Module - 16 Ch	1-May-07	1-May-07	SL_MSEG2	\$\$		2,200			2,359		2,359	2,359	20.0%	472
1	03	02	04	03	14	RCV: DI Module - 16 Chan	1-May-07	1-May-07	SL_MSEG2	\$\$		1,000			1,072		1,072	1,072	20.0%	214
1	03	02	04	03	14	RCV: IP Carrier Board	1-May-07	1-May-07	SL_MSEG2	\$\$		800			858		858	858	20.0%	172
1	03	02	04	03	14	RCV: IO Accessories	1-May-07	1-May-07	SL_MSEG2	\$\$		300			322		322	322	20.0%	64
1	03	02	04	03	14	RCV: ADC,DAC,DI cables and connectors	18-Sep-07	18-Sep-07	SL_MSEG2	\$\$		300			322		322	322	20.0%	64
1	03	02	04	03	14	Integrate Cables	19-Sep-07	16-Oct-07	SL_TMUE2	Hrs	12			1,164		1,164	1,164	25.0%	291	
1	03	02	04	03	14	MCOR Bench Test and Assembly	17-Oct-07	13-Nov-07	SL_TMUE2	Hrs	8			784		784	784	25.0%	196	
1	03	02	04	03	14	Pre-install Qual Test	14-Nov-07	20-Nov-07	SL_PCE2	Hrs	4			461		461	461	25.0%	115	
1	03	02	04	03	14	Pre-install Qual Test	14-Nov-07	20-Nov-07	SL_PCCA2	Hrs	4			269		269	269	25.0%	67	
1	03	02	04	03	15	MCOR_LTU8					28	22,875	2,677	24,524	27,201				5,74	
1	03	02	04	03	15	RCV: MCOR Chassis	1-May-07	1-May-07	SL_MSEG2	\$\$		2,850			3,055		3,055	3,055	20.0%	611
1	03	02	04	03	15	RCV: MCOR Blower	1-May-07	1-May-07	SL_MSEG2	\$\$		500			536		536	536	20.0%	107
1	03	02	04	03	15	RCV: MCOR Crate Accessories	1-May-07	1-May-07	SL_MSEG2	\$\$		500			536		536	536	20.0%	107
1	03	02	04	03	15	RCV: MCOR Controller Module	1-May-07	1-May-07	SL_MSEG2	\$\$		800			858		858	858	20.0%	172
1	03	02	04	03	15	RCV: 12Amp Pwr & Prog Modules - XCE33	1-May-07	1-May-07	SL_MSEG2	\$\$		1,925			2,064		2,064	2,064	20.0%	413
1	03	02	04	03	15	RCV: 12Amp Pwr & Prog Modules - YCE34	1-May-07	1-May-07	SL_MSEG2	\$\$		1,925			2,064		2,064	2,064	20.0%	413
1	03	02	04	03	15	RCV: 12Amp Pwr & Prog Modules - XCE35	1-May-07	1-May-07	SL_MSEG2	\$\$		1,925			2,064		2,064	2,064	20.0%	413
1	03	02	04	03	15	RCV: 12Amp Pwr & Prog Modules - YCE36	1-May-07	1-May-07	SL_MSEG2	\$\$		1,925			2,064		2,064	2,064	20.0%	413
1	03	02	04	03	15	RCV: 12Amp Pwr & Prog Modules - XCUM1	1-May-07	1-May-07	SL_MSEG2	\$\$		1,925			2,064		2,064	2,064	20.0%	413
1	03	02	04	03	15	RCV: Analog to Digital Converter Module - 32 Ch	1-May-07	1-May-07	SL_MSEG2	\$\$		4,000			4,288		4,288	4,288	20.0%	858
1	03	02	04	03	15	RCV: Digital to Analog Converter Module - 16 Ch	1-May-07	1-May-07	SL_MSEG2	\$\$		2,200			2,359		2,359	2,359	20.0%	472
1	03	02	04	03	15	RCV: DI Module - 16 Chan	1-May-07	1-May-07	SL_MSEG2	\$\$		1,000			1,072		1,072	1,072	20.0%	214
1	03	02	04	03	15	RCV: IP Carrier Board	1-May-07	1-May-07	SL_MSEG2	\$\$		800			858		858	858	20.0%	172
1	03	02	04	03	15	RCV: IO Accessories	1-May-07	1-May-07	SL_MSEG2	\$\$		300			322		322	322	20.0%	64
1	03	02	04	03	15	RCV: ADC,DAC,DI cables and connectors	18-Sep-07	18-Sep-07	SL_MSEG2	\$\$		300			322		322	322	20.0%	64
1	03	02	04	03	15	Integrate Cables	19-Sep-07	16-Oct-07	SL_TMUE2	Hrs	12			1,164		1,164	1,164	25.0%	291	
1	03	02	04	03	15	MCOR Bench Test and Assembly	17-Oct-07	13-Nov-07	SL_TMUE2	Hrs	8			784		784	784	25.0%	196	
1	03	02	04	03	15	Pre-install Qual Test	14-Nov-07	20-Nov-07	SL_PCE2	Hrs	4			461		461	461	25.0%	115	
1	03	02	04	03	15	Pre-install Qual Test	14-Nov-07	20-Nov-07	SL_PCCA2	Hrs	4			269		269	269	25.0%	67	
1	03	02	04	03	16	MCOR_LTU9					28	19,025	2,677	20,397	23,074				4,749	
1	03	02	04	03	16	RCV: MCOR Chassis	1-May-07	1-May-07	SL_MSEG2	\$\$		2,850			3,055		3,055	3,055	20.0%	611
1	03	02	04	03	16	RCV: MCOR Blower	1-May-07	1-May-07	SL_MSEG2	\$\$		500			536		536	536	20.0%	107
1	03	02	04	03	16	RCV: MCOR Crate Accessories	1-May-07	1-May-07	SL_MSEG2	\$\$		500			536		536	536	20.0%	107
1	03	02	04	03	16	RCV: MCOR Controller Module	1-May-07	1-May-07	SL_MSEG2	\$\$		800			858		858	858	20.0%	172
1	03	02	04	03	16	RCV: 12Amp Pwr & Prog Modules - YCUM2	1-May-07	1-May-07	SL_MSEG2	\$\$		1,925			2,064		2,064	2,064	20.0%	413
1	03	02	04	03	16	RCV: 12Amp Pwr & Prog Modules - YCUM3	1-May-07	1-May-07	SL_MSEG2	\$\$		1,925			2,064		2,064	2,064	20.0%	413
1	03	02	04	03	16	RCV: 12Amp Pwr & Prog Modules - XCUM4	1-May-07	1-May-07	SL_MSEG2	\$\$		1,925			2,064		2,064	2,064	20.0%	413
1	03	02	04	03	16	RCV: Analog to Digital Converter Module - 32 Ch	1-May-07	1-May-07	SL_MSEG2	\$\$		4,000			4,288		4,288	4,288	20.0%	858
1	03	02	04	03	16	RCV: Digital to Analog Converter Module - 16 Ch	1-May-07	1-May-07	SL_MSEG2	\$\$		2,200			2,359		2,359	2,359	20.0%	472
1	03	02	04	03	16	RCV: DI Module - 16 Chan	1-May-07	1-May-07	SL_MSEG2	\$\$		1,000			1,072		1,072	1,072	20.0%	214
1	03	02	04	03	16	RCV: IP Carrier Board	1-May-07	1-May-07	SL_MSEG2	\$\$		800			858		858	858	20.0%	172
1	03	02	04	03	16	RCV: IO Accessories	1-May-07	1-May-07	SL_MSEG2	\$\$		300			322		322	322	20.0%	64
1	03	02	04	03	16	RCV: ADC,DAC,DI cables and connectors	18-Sep-07	18-Sep-07	SL_MSEG2	\$\$		300			322		322	322	20.0%	64
1	03	02	04	03	16	Integrate Cables	19-Sep-07	16-Oct-07	SL_TMUE2	Hrs	12			1,164		1,164	1,164	25.0%	291	
1	03	02	04	03	16	MCOR Bench Test and Assembly	17-Oct-07	13-Nov-07	SL_TMUE2	Hrs	8			784		784	784	25.0%	196	

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline Description	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont %	Contingency \$
1	2	3	4	5	6						Hours	\$	Labor	M&S	Total		
1	03	02	04	03	16	Pre-install Qual Test	14-Nov-07	20-Nov-07	SL_PCE2	Hrs	4		461		461	25.0%	115
1	03	02	04	03	16	Pre-install Qual Test	14-Nov-07	20-Nov-07	SL_PCCA2	Hrs	4		269		269	25.0%	67
1	03	02	04	03	17	MCOR_DUMP1					28	24,800	2,677	26,588	29,265		5,987
1	03	02	04	03	17	RCV: MCOR Chassis	1-May-07	1-May-07	SL_MSEG2	\$\$		2,850		3,055	3,055	20.0%	611
1	03	02	04	03	17	RCV: MCOR Blower	1-May-07	1-May-07	SL_MSEG2	\$\$		500		536	536	20.0%	107
1	03	02	04	03	17	RCV: MCOR Crate Accessories	1-May-07	1-May-07	SL_MSEG2	\$\$		500		536	536	20.0%	107
1	03	02	04	03	17	RCV: MCOR Controller Module	1-May-07	1-May-07	SL_MSEG2	\$\$		800		858	858	20.0%	172
1	03	02	04	03	17	RCV: 12Amp Pwr & Prog Modules - YCUE1	1-May-07	1-May-07	SL_MSEG2	\$\$		1,925		2,064	2,064	20.0%	413
1	03	02	04	03	17	RCV: 12Amp Pwr & Prog Modules - XCUE1	1-May-07	1-May-07	SL_MSEG2	\$\$		1,925		2,064	2,064	20.0%	413
1	03	02	04	03	17	RCV: 12Amp Pwr & Prog Modules - XCD3	1-May-07	1-May-07	SL_MSEG2	\$\$		1,925		2,064	2,064	20.0%	413
1	03	02	04	03	17	RCV: 12Amp Pwr & Prog Modules - YCD3	1-May-07	1-May-07	SL_MSEG2	\$\$		1,925		2,064	2,064	20.0%	413
1	03	02	04	03	17	RCV: 12Amp Pwr & Prog Modules - YCDD	1-May-07	1-May-07	SL_MSEG2	\$\$		1,925		2,064	2,064	20.0%	413
1	03	02	04	03	17	RCV: 12Amp Pwr & Prog Modules - XCDD	1-May-07	1-May-07	SL_MSEG2	\$\$		1,925		2,064	2,064	20.0%	413
1	03	02	04	03	17	RCV: Analog to Digital Converter Module - 32 Ch	1-May-07	1-May-07	SL_MSEG2	\$\$		4,000		4,288	4,288	20.0%	858
1	03	02	04	03	17	RCV: Digital to Analog Converter Module - 16 Ch	1-May-07	1-May-07	SL_MSEG2	\$\$		2,200		2,359	2,359	20.0%	472
1	03	02	04	03	17	RCV: DI Module - 16 Chan	1-May-07	1-May-07	SL_MSEG2	\$\$		1,000		1,072	1,072	20.0%	214
1	03	02	04	03	17	RCV: IP Carrier Board	1-May-07	1-May-07	SL_MSEG2	\$\$		800		858	858	20.0%	172
1	03	02	04	03	17	RCV: IO Accessories	1-May-07	1-May-07	SL_MSEG2	\$\$		300		322	322	20.0%	64
1	03	02	04	03	17	RCV: ADC,DAC,DI cables and connectors	18-Sep-07	18-Sep-07	SL_MSEG2	\$\$		300		322	322	20.0%	64
1	03	02	04	03	17	Integrate Cables	19-Sep-07	16-Oct-07	SL_TMUE2	Hrs	12		1,164		1,164	25.0%	291
1	03	02	04	03	17	MCOR Bench Test and Assembly	17-Oct-07	13-Nov-07	SL_TMUE2	Hrs	8		784		784	25.0%	196
1	03	02	04	03	17	Pre-install Qual Test	14-Nov-07	20-Nov-07	SL_PCE2	Hrs	4		461		461	25.0%	115
1	03	02	04	03	17	Pre-install Qual Test	14-Nov-07	20-Nov-07	SL_PCCA2	Hrs	4		269		269	25.0%	67
1	03	02	04	03	20	MCOR Bulk PS - LI24					4	-	247	-	247		62
1	03	02	04	03	20	Bench test and safety inspection	1-May-07	7-May-07	SL_PCT2	Hrs	4		247		247	25.0%	62
1	03	02	04	03	21	MCOR Bulk PS - LI25					4	-	247	-	247		62
1	03	02	04	03	21	Bench test and safety inspection	1-May-07	7-May-07	SL_PCT2	Hrs	4		247		247	25.0%	62
1	03	02	04	03	22	MCOR Bulk PS - BSY					4	-	247	-	247		62
1	03	02	04	03	22	Bench test and safety inspection	1-May-07	7-May-07	SL_PCT2	Hrs	4		247		247	25.0%	62
1	03	02	04	03	23	MCOR Bulk PS - LTU_1					4	-	247	-	247		62
1	03	02	04	03	23	Bench test and safety inspection	1-May-07	7-May-07	SL_PCT2	Hrs	4		247		247	25.0%	62
1	03	02	04	03	24	MCOR Bulk PS - LTU_2					4	-	247	-	247		62
1	03	02	04	03	24	Bench test and safety inspection	1-May-07	7-May-07	SL_PCT2	Hrs	4		247		247	25.0%	62
1	03	02	04	03	25	MCOR Bulk PS - LTU_3					4	-	247	-	247		62
1	03	02	04	03	25	Bench test and safety inspection	1-May-07	7-May-07	SL_PCT2	Hrs	4		247		247	25.0%	62
1	03	02	04	03	26	MCOR Bulk PS - LTU_4					4	-	247	-	247		62
1	03	02	04	03	26	Bench test and safety inspection	1-May-07	7-May-07	SL_PCT2	Hrs	4		247		247	25.0%	62
1	03	02	04	03	27	MCOR PLC - LI21					16	-	1,803	-	1,803		180
1	03	02	04	03	27	Documentation	1-May-07	20-Sep-07	SL_PCE2	Hrs	16		1,803		1,803	10.0%	180
1	03	02	04	03	28	MCOR PLC - LI24					136	13,182	14,760	14,132	28,893		7,467
1	03	02	04	03	28	RCV: PLC Chasis	27-Jun-07	27-Jun-07	SL_MSEG2	\$\$		308		330	330	20.0%	66
1	03	02	04	03	28	RCV: PLC Power Supply	27-Jun-07	27-Jun-07	SL_MSEG2	\$\$		554		594	594	20.0%	119
1	03	02	04	03	28	RCV: PLC Chassis Accessories	27-Jun-07	27-Jun-07	SL_MSEG2	\$\$		150		161	161	20.0%	32
1	03	02	04	03	28	RCV: PLC Control Interface Module	27-Jun-07	27-Jun-07	SL_MSEG2	\$\$		3,450		3,699	3,699	20.0%	740
1	03	02	04	03	28	RCV: PLC EtherNet/IP Module	27-Jun-07	27-Jun-07	SL_MSEG2	\$\$		1,209		1,296	1,296	20.0%	259
1	03	02	04	03	28	RCV: Analog to Digital Converter Modules 12-ch	27-Jun-07	27-Jun-07	SL_MSEG2	\$\$		2,673		2,866	2,866	20.0%	573
1	03	02	04	03	28	RCV: Digital to Analog Converter Modules 6-ch	27-Jun-07	27-Jun-07	SL_MSEG2	\$\$		2,146		2,301	2,301	20.0%	460
1	03	02	04	03	28	RCV: Digital Input Modules +24V (32-chan)	27-Jun-07	27-Jun-07	SL_MSEG2	\$\$		292		313	313	20.0%	63
1	03	02	04	03	28	RCV: Digital Output Modules +24V 32-ch	27-Jun-07	27-Jun-07	SL_MSEG2	\$\$		415		445	445	20.0%	89
1	03	02	04	03	28	RCV: Touch Panel Display	27-Jun-07	27-Jun-07	SL_MSEG2	\$\$		1,685		1,806	1,806	20.0%	361
1	03	02	04	03	28	RCV: Intra-rack Cables and connectors	27-Jun-07	27-Jun-07	SL_MSEG2	\$\$		300		322	322	25.0%	80
1	03	02	04	03	28	Develop Ladder logic for application	28-Jun-07	26-Jul-07	SL_PCE2	Hrs	40		4,508		4,508	35.0%	1,578
1	03	02	04	03	28	Develop Touch Panel Displays	28-Jun-07	26-Jul-07	SL_PCE2	Hrs	16		1,803		1,803	35.0%	631
1	03	02	04	03	28	Debug Ladder logic and displays	27-Jul-07	2-Aug-07	SL_PCE2	Hrs	40		4,508		4,508	35.0%	1,578
1	03	02	04	03	28	Integrate Cables	3-Aug-07	28-Sep-07	SL_TMUE2	Hrs	12		1,149		1,149	20.0%	230
1	03	02	04	03	28	Documentation	28-Jun-07	19-Oct-07	SL_PCE2	Hrs	16		1,810		1,810	20.0%	362
1	03	02	04	03	28	Bench-test and assembly	1-Oct-07	5-Oct-07	SL_PCT2	Hrs	4		252		252	25.0%	63
1	03	02	04	03	28	Pre-install Qual Test	8-Oct-07	12-Oct-07	SL_PCE2	Hrs	4		461		461	25.0%	115
1	03	02	04	03	28	Pre-install Qual Test	8-Oct-07	12-Oct-07	SL_PCCA2	Hrs	4		269		269	25.0%	67
1	03	02	04	03	29	MCOR PLC - LI25					136	13,182	14,755	14,132	28,887		7,465
1	03	02	04	03	29	RCV: PLC Chasis	27-Jun-07	27-Jun-07	SL_MSEG2	\$\$		308		330	330	20.0%	66
1	03	02	04	03	29	RCV: PLC Power Supply	27-Jun-07	27-Jun-07	SL_MSEG2	\$\$		554		594	594	20.0%	119
1	03	02	04	03	29	RCV: PLC Chassis Accessories	27-Jun-07	27-Jun-07	SL_MSEG2	\$\$		150		161	161	20.0%	32
1	03	02	04	03	29	RCV: PLC Control Interface Module	27-Jun-07	27-Jun-07	SL_MSEG2	\$\$		3,450		3,699	3,699	20.0%	740
1	03	02	04	03	29	RCV: PLC EtherNet/IP Module	27-Jun-07	27-Jun-07	SL_MSEG2	\$\$		1,209		1,296	1,296	20.0%	259
1	03	02	04	03	29	RCV: Analog to Digital Converter Modules 12-ch	27-Jun-07	27-Jun-07	SL_MSEG2	\$\$		2,673		2,866	2,866	20.0%	573
1	03	02	04	03	29	RCV: Digital to Analog Converter Modules 6-ch	27-Jun-07	27-Jun-07	SL_MSEG2	\$\$		2,146		2,301	2,301	20.0%	460
1	03	02	04	03	29	RCV: Digital Input Modules +24V (32-chan)	27-Jun-07	27-Jun-07	SL_MSEG2	\$\$		292		313	313	20.0%	63
1	03	02	04	03	29	RCV: Digital Output Modules +24V 32-ch	27-Jun-07	27-Jun-07	SL_MSEG2	\$\$		415		445	445	20.0%	89
1	03	02	04	03	29	RCV: Touch Panel Display	27-Jun-07	27-Jun-07	SL_MSEG2	\$\$		1,685		1,806	1,806	20.0%	361
1	03	02	04	03	29	RCV: Intra-rack Cables and connectors	23-Aug-07	23-Aug-07	SL_MSEG2	\$\$		300		322	322	25.0%	80
1	03	02	04	03	29	Develop Ladder logic for application	28-Jun-07	26-Jul-07	SL_PCE2	Hrs	40		4,508		4,508	35.0%	1,578

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont %	Contingency \$	
Description						Hours					\$	Labor	M&S	Total				
1	2	3	4	5	6													
1	03	02	04	03	29	Develop Touch Panel Displays	28-Jun-07	26-Jul-07	SL_PCE2	Hrs	16		1,803		1,803	35.0%	631	
1	03	02	04	03	29	Debug Ladder logic and displays	27-Jul-07	2-Aug-07	SL_PCE2	Hrs	40		4,508		4,508	35.0%	1,578	
1	03	02	04	03	29	Integrate Cables	24-Aug-07	21-Sep-07	SL_TMUE2	Hrs	12		1,149		1,149	20.0%	230	
1	03	02	04	03	29	Documentation	28-Jun-07	19-Oct-07	SL_PCE2	Hrs	16		1,810		1,810	20.0%	362	
1	03	02	04	03	29	Bench-test and assembly	24-Sep-07	28-Sep-07	SL_PCT2	Hrs	4		247		247	25.0%	62	
1	03	02	04	03	29	Pre-install Qual Test	1-Oct-07	5-Oct-07	SL_PCE2	Hrs	4		461		461	25.0%	115	
1	03	02	04	03	29	Pre-install Qual Test	1-Oct-07	5-Oct-07	SL_PCCA2	Hrs	4		269		269	25.0%	67	
1	03	02	04	03	30	MCOR PLC - BSY					136	13,182	14,732	14,132	28,864		7,460	
1	03	02	04	03	30	RCV: PLC Chassis	30-May-07	30-May-07	SL_MSEG2	\$\$		308		330		330	20.0%	66
1	03	02	04	03	30	RCV: PLC Power Supply	30-May-07	30-May-07	SL_MSEG2	\$\$		554		594		594	20.0%	119
1	03	02	04	03	30	RCV: PLC Chassis Accessories	30-May-07	30-May-07	SL_MSEG2	\$\$		150		161		161	20.0%	32
1	03	02	04	03	30	RCV: PLC Control Interface Module	30-May-07	30-May-07	SL_MSEG2	\$\$		3,450		3,699		3,699	20.0%	740
1	03	02	04	03	30	RCV: PLC EtherNet/IP Module	30-May-07	30-May-07	SL_MSEG2	\$\$		1,209		1,296		1,296	20.0%	259
1	03	02	04	03	30	RCV: Analog to Digital Converter Modules 12-ch	30-May-07	30-May-07	SL_MSEG2	\$\$		2,673		2,866		2,866	20.0%	573
1	03	02	04	03	30	RCV: Digital to Analog Converter Modules 6-ch	30-May-07	30-May-07	SL_MSEG2	\$\$		2,146		2,301		2,301	20.0%	460
1	03	02	04	03	30	RCV: Digital Input Modules +24V (32-chan)	30-May-07	30-May-07	SL_MSEG2	\$\$		292		313		313	20.0%	63
1	03	02	04	03	30	RCV: Digital Output Modules +24V 32-ch	30-May-07	30-May-07	SL_MSEG2	\$\$		415		445		445	20.0%	89
1	03	02	04	03	30	RCV: Touch Panel Display	30-May-07	30-May-07	SL_MSEG2	\$\$		1,685		1,806		1,806	20.0%	361
1	03	02	04	03	30	RCV: Intra-rack Cables and connectors	30-May-07	30-May-07	SL_MSEG2	\$\$		300		322		322	25.0%	80
1	03	02	04	03	30	Develop Ladder logic for application	31-May-07	27-Jun-07	SL_PCE2	Hrs	40		4,508		4,508	35.0%	1,578	
1	03	02	04	03	30	Develop Touch Panel Displays	31-May-07	27-Jun-07	SL_PCE2	Hrs	16		1,803		1,803	35.0%	631	
1	03	02	04	03	30	Debug Ladder logic and displays	28-Jun-07	5-Jul-07	SL_PCE2	Hrs	40		4,508		4,508	35.0%	1,578	
1	03	02	04	03	30	Integrate Cables	6-Jul-07	30-Aug-07	SL_TMUE2	Hrs	12		1,149		1,149	20.0%	230	
1	03	02	04	03	30	Documentation	31-May-07	21-Sep-07	SL_PCE2	Hrs	16		1,803		1,803	20.0%	361	
1	03	02	04	03	30	Bench-test and assembly	31-Aug-07	7-Sep-07	SL_PCT2	Hrs	4		247		247	25.0%	62	
1	03	02	04	03	30	Pre-install Qual Test	10-Sep-07	14-Sep-07	SL_PCE2	Hrs	4		451		451	25.0%	113	
1	03	02	04	03	30	Pre-install Qual Test	10-Sep-07	14-Sep-07	SL_PCCA2	Hrs	4		263		263	25.0%	66	
1	03	02	04	03	31	MCOR PLC - LTU_1 (BLD 2.1)					136	13,182	14,810	14,132	28,942		7,477	
1	03	02	04	03	31	RCV: PLC Chassis	23-Aug-07	23-Aug-07	SL_MSEG2	\$\$		308		330		330	20.0%	66
1	03	02	04	03	31	RCV: PLC Power Supply	23-Aug-07	23-Aug-07	SL_MSEG2	\$\$		554		594		594	20.0%	119
1	03	02	04	03	31	RCV: PLC Chassis Accessories	23-Aug-07	23-Aug-07	SL_MSEG2	\$\$		150		161		161	20.0%	32
1	03	02	04	03	31	RCV: PLC Control Interface Module	23-Aug-07	23-Aug-07	SL_MSEG2	\$\$		3,450		3,699		3,699	20.0%	740
1	03	02	04	03	31	RCV: PLC EtherNet/IP Module	23-Aug-07	23-Aug-07	SL_MSEG2	\$\$		1,209		1,296		1,296	20.0%	259
1	03	02	04	03	31	RCV: Analog to Digital Converter Modules 12-ch	23-Aug-07	23-Aug-07	SL_MSEG2	\$\$		2,673		2,866		2,866	20.0%	573
1	03	02	04	03	31	RCV: Digital to Analog Converter Modules 6-ch	23-Aug-07	23-Aug-07	SL_MSEG2	\$\$		2,146		2,301		2,301	20.0%	460
1	03	02	04	03	31	RCV: Digital Input Modules +24V (32-chan)	23-Aug-07	23-Aug-07	SL_MSEG2	\$\$		292		313		313	20.0%	63
1	03	02	04	03	31	RCV: Digital Output Modules +24V 32-ch	23-Aug-07	23-Aug-07	SL_MSEG2	\$\$		415		445		445	20.0%	89
1	03	02	04	03	31	RCV: Touch Panel Display	23-Aug-07	23-Aug-07	SL_MSEG2	\$\$		1,685		1,806		1,806	20.0%	361
1	03	02	04	03	31	RCV: Intra-rack Cables and connectors	23-Aug-07	23-Aug-07	SL_MSEG2	\$\$		300		322		322	25.0%	80
1	03	02	04	03	31	Develop Ladder logic for application	24-Aug-07	21-Sep-07	SL_PCE2	Hrs	40		4,508		4,508	35.0%	1,578	
1	03	02	04	03	31	Develop Touch Panel Displays	24-Aug-07	21-Sep-07	SL_PCE2	Hrs	16		1,803		1,803	35.0%	631	
1	03	02	04	03	31	Debug Ladder logic and displays	24-Sep-07	28-Sep-07	SL_PCE2	Hrs	40		4,508		4,508	35.0%	1,578	
1	03	02	04	03	31	Integrate Cables	1-Oct-07	26-Oct-07	SL_TMUE2	Hrs	12		1,175		1,175	20.0%	235	
1	03	02	04	03	31	Documentation	24-Aug-07	3-Jan-08	SL_PCE2	Hrs	16		1,833		1,833	20.0%	367	
1	03	02	04	03	31	Bench-test and assembly	29-Oct-07	2-Nov-07	SL_PCT2	Hrs	4		252		252	25.0%	63	
1	03	02	04	03	31	Pre-install Qual Test	5-Nov-07	9-Nov-07	SL_PCE2	Hrs	4		461		461	25.0%	115	
1	03	02	04	03	31	Pre-install Qual Test	5-Nov-07	9-Nov-07	SL_PCCA2	Hrs	4		269		269	25.0%	67	
1	03	02	04	03	32	MCOR PLC - LTU_2 (BLD 2.2)					136	13,182	14,810	14,132	28,942		7,477	
1	03	02	04	03	32	RCV: PLC Chassis	23-Aug-07	23-Aug-07	SL_MSEG2	\$\$		308		330		330	20.0%	66
1	03	02	04	03	32	RCV: PLC Power Supply	23-Aug-07	23-Aug-07	SL_MSEG2	\$\$		554		594		594	20.0%	119
1	03	02	04	03	32	RCV: PLC Chassis Accessories	23-Aug-07	23-Aug-07	SL_MSEG2	\$\$		150		161		161	20.0%	32
1	03	02	04	03	32	RCV: PLC Control Interface Module	23-Aug-07	23-Aug-07	SL_MSEG2	\$\$		3,450		3,699		3,699	20.0%	740
1	03	02	04	03	32	RCV: PLC EtherNet/IP Module	23-Aug-07	23-Aug-07	SL_MSEG2	\$\$		1,209		1,296		1,296	20.0%	259
1	03	02	04	03	32	RCV: Analog to Digital Converter Modules 12-ch	23-Aug-07	23-Aug-07	SL_MSEG2	\$\$		2,673		2,866		2,866	20.0%	573
1	03	02	04	03	32	RCV: Digital to Analog Converter Modules 6-ch	23-Aug-07	23-Aug-07	SL_MSEG2	\$\$		2,146		2,301		2,301	20.0%	460
1	03	02	04	03	32	RCV: Digital Input Modules +24V (32-chan)	23-Aug-07	23-Aug-07	SL_MSEG2	\$\$		292		313		313	20.0%	63
1	03	02	04	03	32	RCV: Digital Output Modules +24V 32-ch	23-Aug-07	23-Aug-07	SL_MSEG2	\$\$		415		445		445	20.0%	89
1	03	02	04	03	32	RCV: Touch Panel Display	23-Aug-07	23-Aug-07	SL_MSEG2	\$\$		1,685		1,806		1,806	20.0%	361
1	03	02	04	03	32	RCV: Intra-rack Cables and connectors	23-Aug-07	23-Aug-07	SL_MSEG2	\$\$		300		322		322	25.0%	80
1	03	02	04	03	32	Develop Ladder logic for application	24-Aug-07	21-Sep-07	SL_PCE2	Hrs	40		4,508		4,508	35.0%	1,578	
1	03	02	04	03	32	Develop Touch Panel Displays	24-Aug-07	21-Sep-07	SL_PCE2	Hrs	16		1,803		1,803	35.0%	631	
1	03	02	04	03	32	Debug Ladder logic and displays	24-Sep-07	28-Sep-07	SL_PCE2	Hrs	40		4,508		4,508	35.0%	1,578	
1	03	02	04	03	32	Integrate Cables	1-Oct-07	27-Nov-07	SL_TMUE2	Hrs	12		1,175		1,175	20.0%	235	
1	03	02	04	03	32	Documentation	24-Aug-07	3-Jan-08	SL_PCE2	Hrs	16		1,833		1,833	20.0%	367	
1	03	02	04	03	32	Bench-test and assembly	28-Nov-07	4-Dec-07	SL_PCT2	Hrs	4		252		252	25.0%	63	
1	03	02	04	03	32	Pre-install Qual Test	5-Dec-07	11-Dec-07	SL_PCE2	Hrs	4		461		461	25.0%	115	
1	03	02	04	03	32	Pre-install Qual Test	5-Dec-07	11-Dec-07	SL_PCCA2	Hrs	4		269		269	25.0%	67	
1	03	02	04	03	33	MCOR PLC - LTU_3 (BLD 2.3)					136	13,182	14,810	14,132	28,942		7,477	
1	03	02	04	03	33	RCV: PLC Chassis	23-Aug-07	23-Aug-07	SL_MSEG2	\$\$		308		330		330	20.0%	66
1	03	02	04	03	33	RCV: PLC Power Supply	23-Aug-07	23-Aug-07	SL_MSEG2	\$\$		554		594		594	20.0%	119
1	03	02	04	03	33	RCV: PLC Chassis Accessories	23-Aug-07	23-Aug-07	SL_MSEG2	\$\$		150		161		161	20.0%	32
1	03																	

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline Description	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont %	Contingency \$
1	2	3	4	5	6						Hours	\$	Labor	M&S	Total		
1	03	02	04	03	33	RCV: PLC EtherNet/IP Module	23-Aug-07	23-Aug-07	SL_MSEG2	\$\$		1,209		1,296	1,296	20.0%	259
1	03	02	04	03	33	RCV: Analog to Digital Converter Modules 12-ch	23-Aug-07	23-Aug-07	SL_MSEG2	\$\$		2,673		2,866	2,866	20.0%	573
1	03	02	04	03	33	RCV: Digital to Analog Converter Modules 6-ch	23-Aug-07	23-Aug-07	SL_MSEG2	\$\$		2,146		2,301	2,301	20.0%	460
1	03	02	04	03	33	RCV: Digital Input Modules +24V (32-chan)	23-Aug-07	23-Aug-07	SL_MSEG2	\$\$		292		313	313	20.0%	63
1	03	02	04	03	33	RCV: Digital Output Modules +24V 32-ch	23-Aug-07	23-Aug-07	SL_MSEG2	\$\$		445		445	445	20.0%	89
1	03	02	04	03	33	RCV: Touch Panel Display	23-Aug-07	23-Aug-07	SL_MSEG2	\$\$		1,685		1,806	1,806	20.0%	361
1	03	02	04	03	33	RCV: Intra-rack Cables and connectors	23-Aug-07	23-Aug-07	SL_MSEG2	\$\$		300		322	322	25.0%	80
1	03	02	04	03	33	Develop Ladder logic for application	24-Aug-07	21-Sep-07	SL_PCE2	Hrs	40		4,508		4,508	35.0%	1,578
1	03	02	04	03	33	Develop Touch Panel Displays	24-Aug-07	21-Sep-07	SL_PCE2	Hrs	16		1,803		1,803	35.0%	631
1	03	02	04	03	33	Debug Ladder logic and displays	24-Sep-07	28-Sep-07	SL_PCE2	Hrs	40		4,508		4,508	35.0%	1,578
1	03	02	04	03	33	Integrate Cables	1-Oct-07	26-Oct-07	SL_TMUE2	Hrs	12		1,175		1,175	20.0%	235
1	03	02	04	03	33	Documentation	24-Aug-07	3-Jan-08	SL_PCE2	Hrs	16		1,833		1,833	20.0%	367
1	03	02	04	03	33	Bench-test and assembly	29-Oct-07	2-Nov-07	SL_PCT2	Hrs	4		252		252	25.0%	63
1	03	02	04	03	33	Pre-install Qual Test	5-Nov-07	9-Nov-07	SL_PCE2	Hrs	4		461		461	25.0%	115
1	03	02	04	03	33	Pre-install Qual Test	5-Nov-07	9-Nov-07	SL_PCCA2	Hrs	4		269		269	25.0%	67
1	03	02	04	03	34	MCOR PLC - Dump					136	13,182	14,812	14,132	28,944		7,477
1	03	02	04	03	34	RCV: PLC Chassis	23-Aug-07	23-Aug-07	SL_MSEG2	\$\$		308		330	330	20.0%	66
1	03	02	04	03	34	RCV: PLC Power Supply	23-Aug-07	23-Aug-07	SL_MSEG2	\$\$		554		594	594	20.0%	119
1	03	02	04	03	34	RCV: PLC Chassis Accessories	23-Aug-07	23-Aug-07	SL_MSEG2	\$\$		150		161	161	20.0%	32
1	03	02	04	03	34	RCV: PLC Control Interface Module	23-Aug-07	23-Aug-07	SL_MSEG2	\$\$		3,450		3,699	3,699	20.0%	740
1	03	02	04	03	34	RCV: PLC EtherNet/IP Module	23-Aug-07	23-Aug-07	SL_MSEG2	\$\$		1,209		1,296	1,296	20.0%	259
1	03	02	04	03	34	RCV: Analog to Digital Converter Modules 12-ch	23-Aug-07	23-Aug-07	SL_MSEG2	\$\$		2,673		2,866	2,866	20.0%	573
1	03	02	04	03	34	RCV: Digital to Analog Converter Modules 6-ch	23-Aug-07	23-Aug-07	SL_MSEG2	\$\$		2,146		2,301	2,301	20.0%	460
1	03	02	04	03	34	RCV: Digital Input Modules +24V (32-chan)	23-Aug-07	23-Aug-07	SL_MSEG2	\$\$		292		313	313	20.0%	63
1	03	02	04	03	34	RCV: Digital Output Modules +24V 32-ch	23-Aug-07	23-Aug-07	SL_MSEG2	\$\$		415		445	445	20.0%	89
1	03	02	04	03	34	RCV: Touch Panel Display	23-Aug-07	23-Aug-07	SL_MSEG2	\$\$		1,685		1,806	1,806	20.0%	361
1	03	02	04	03	34	RCV: Intra-rack Cables and connectors	23-Aug-07	23-Aug-07	SL_MSEG2	\$\$		300		322	322	25.0%	80
1	03	02	04	03	34	Develop Ladder logic for application	24-Aug-07	21-Sep-07	SL_PCE2	Hrs	40		4,508		4,508	35.0%	1,578
1	03	02	04	03	34	Develop Touch Panel Displays	24-Aug-07	21-Sep-07	SL_PCE2	Hrs	16		1,803		1,803	35.0%	631
1	03	02	04	03	34	Debug Ladder logic and displays	24-Sep-07	28-Sep-07	SL_PCE2	Hrs	40		4,508		4,508	35.0%	1,578
1	03	02	04	03	34	Integrate Cables	1-Oct-07	26-Oct-07	SL_TMUE2	Hrs	12		1,175		1,175	20.0%	235
1	03	02	04	03	34	Documentation	24-Aug-07	1-Feb-08	SL_PCE2	Hrs	16		1,835		1,835	20.0%	367
1	03	02	04	03	34	Bench-test and assembly	29-Oct-07	2-Nov-07	SL_PCT2	Hrs	4		252		252	25.0%	63
1	03	02	04	03	34	Pre-install Qual Test	5-Nov-07	9-Nov-07	SL_PCE2	Hrs	4		461		461	25.0%	115
1	03	02	04	03	34	Pre-install Qual Test	5-Nov-07	9-Nov-07	SL_PCCA2	Hrs	4		269		269	25.0%	67
1	03	02	04	03	35	MCOR Bulk Dump					4	8,000	247	8,577	8,824		1,777
1	03	02	04	03	35	RCV: MCOR Bulk PS - 10kw	30-May-07	30-May-07	SL_MSEG2	\$\$		8,000		8,577	8,577	20.0%	1,715
1	03	02	04	03	35	Bench test and safety inspection	31-May-07	6-Jun-07	SL_PCT2	Hrs	4		247		247	25.0%	62
1	03	02	04	03	37	Rack Accessories - L2U 2 (bld 2.2)					1	640	62	686	748		153
1	03	02	04	03	37	RCV: Circuit Breaker, 100A 480V, 3-pole,25kAIC	27-Sep-07	27-Sep-07	SL_MSEG2	\$\$		640		686	686	20.0%	137
1	03	02	04	03	37	Assemble and test	28-Sep-07	28-Sep-07	SL_PCT2	Hrs	1		62		62	25.0%	15
1	03	02	04	03	38	Rack Accessories - L2U 3 (bld 2.3)					1	640	62	686	748		153
1	03	02	04	03	38	RCV: Circuit Breaker, 100A 480V, 3-pole,25kAIC	27-Sep-07	27-Sep-07	SL_MSEG2	\$\$		640		686	686	20.0%	137
1	03	02	04	03	38	Assemble and test	28-Sep-07	28-Sep-07	SL_PCT2	Hrs	1		62		62	25.0%	15
1	03	02	04	04		Controls & Power Supply					9,472	942,725	632,931	1,010,699	1,643,630		410,908
1	03	02	04	04		Write Software to Integrate	1-May-07	29-May-07	SL_CP2	Hrs	140		11,504		11,504	25.0%	2,876
1	03	02	04	04		AWARD: L2-BC2 Cable Plant Contract	6-Jun-07	6-Jun-07	SL_AWARD	\$\$		189,000		217,432	217,432		
1	03	02	04	04		L2-BC2 Cable Plant Design	1-May-07	29-May-07	SL_ME2	Hrs	3		299		299	25.0%	75
1	03	02	04	04		L2-BC2 Cable Plant Design	1-May-07	29-May-07	SL_CE2	Hrs	64		7,213		7,213	25.0%	1,803
1	03	02	04	04		Prep L2-BC2 Cable Plant Bid Package	30-May-07	5-Jun-07	SL_PCE2	Hrs	32		3,606		3,606	25.0%	902
1	03	02	04	04		Vendor Fab L2-BC2 Cable Plant Hardware	7-Jun-07	2-Aug-07	SA_MSEG2	\$\$		180,000		192,979	192,979	25.0%	48,245
1	03	02	04	04		Intall & Integrate L2-BC2 Cable Plant	3-Aug-07	27-Nov-07	SL_PCEF2	Hrs	1,840		114,812		114,812	25.0%	28,703
1	03	02	04	04		Intall & Integrate L2-BC2 Cable Plant	3-Aug-07	27-Nov-07	SL_CT2	Hrs	56		3,494		3,494	25.0%	874
1	03	02	04	04		Intall & Integrate L2-BC2 Cable Plant	3-Aug-07	27-Nov-07	SL_CCA2	Hrs	880		58,412		58,412	25.0%	14,603
1	03	02	04	04		AWARD: LC2-BC2 Racks Contract	6-Jun-07	6-Jun-07	SL_AWARD	\$\$		141,461		162,742	162,742		
1	03	02	04	04		L2-BC2 Racks Design	1-May-07	29-May-07	SL_CE2	Hrs	128		14,426		14,426	25.0%	3,606
1	03	02	04	04		Prep LC2-BC2 Bid Package	30-May-07	5-Jun-07	SL_PCE2	Hrs	64		7,213		7,213	25.0%	1,803
1	03	02	04	04		Vendor Fab LC2-BC2 Racks	7-Jun-07	2-Aug-07	SA_MSEG2	\$\$		134,725		144,439	144,439	25.0%	36,110
1	03	02	04	04		Intall & Integrate L2-BC2 Racks	3-Aug-07	27-Nov-07	SL_PCEF2	Hrs	1,840		114,812		114,812	25.0%	28,703
1	03	02	04	04		Intall & Integrate L2-BC2 Racks	3-Aug-07	27-Nov-07	SL_CT2	Hrs	56		3,494		3,494	25.0%	874
1	03	02	04	04		Intall & Integrate L2-BC2 Racks	3-Aug-07	27-Nov-07	SL_CCA2	Hrs	880		58,412		58,412	25.0%	14,603
1	03	02	04	04		LTU Cable Plant Design	1-May-07	12-Jun-07	SL_ME2	Hrs	15		1,494		1,494	25.0%	373
1	03	02	04	04		LTU Cable Plant Design	1-May-07	12-Jun-07	SL_CE2	Hrs	36		4,057		4,057	25.0%	1,014
1	03	02	04	04		Prep LTLU Bid Package	13-Jun-07	19-Jun-07	SL_PCE2	Hrs	20		2,254		2,254	25.0%	564
1	03	02	04	04		AWARD: LTU Cable Plant Contract	20-Jun-07	20-Jun-07	SL_AWARD	\$\$		472,500		543,580	543,580		
1	03	02	04	04		Vendor Fab LTU Cable Plant Hardware	21-Jun-07	14-Sep-07	SA_MSEG2	\$\$		450,000		482,447	482,447	25.0%	120,612
1	03	02	04	04		Intall & Integrate LTU Cable Plant	17-Sep-07	8-Feb-08	SL_CT2	Hrs	990		62,352		62,352	25.0%	15,588
1	03	02	04	04		Intall & Integrate LTU Cable Plant	17-Sep-07	8-Feb-08	SL_CCA2	Hrs	540		36,179		36,179	25.0%	9,045
1	03	02	04	04		LTU Racks Design	1-May-07	12-Jun-07	SL_ME2	Hrs	30		2,987		2,987	25.0%	747
1	03	02	04	04		LTU Racks Design	1-May-07	12-Jun-07	SL_CE2	Hrs	36		4,057		4,057	25.0%	1,014
1	03	02	04	04		Prep LTU Bid Package	13-Jun-07	19-Jun-07	SL_PCE2	Hrs	20		2,254		2,254	25.0%	564
1	03	02	04	04		AWARD: LTU Racks Contract	20-Jun-07	20-Jun-07	SL_AWARD	\$\$		93,450		107,508	107,508		

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early	Early	Res	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont	Contingency
						Description	Start	Finish	Code		Hours	\$	Labor	M&S	Total	%	\$
1	03	02	04	04	6	Vendor Fab LTU/Undulator Racks	21-Jun-07	14-Sep-07	SA_MSEG2	\$\$		89,000		95,417	95,417	25.0%	23,854
1	03	02	04	04	Intall & Integrate LTU Racks	17-Sep-07	25-Jan-08	SL_PCEF2	Hrs	560			35,261	35,261	25.0%	8,815	
1	03	02	04	04	Intall & Integrate LTU Racks	17-Sep-07	25-Jan-08	SL_CT2	Hrs	18			1,133	1,133	25.0%	283	
1	03	02	04	04	Intall & Integrate LTU Racks	17-Sep-07	25-Jan-08	SL_CCA2	Hrs	280			18,755	18,755	25.0%	4,689	
1	03	02	04	04	Undulator Racks Design	1-May-07	12-Jun-07	SL_ME2	Hrs	30			2,987	2,987	25.0%	747	
1	03	02	04	04	Undulator Racks Design	1-May-07	12-Jun-07	SL_CE2	Hrs	36			4,057	4,057	25.0%	1,014	
1	03	02	04	04	Prep Undulator Bid Package	13-Jun-07	19-Jun-07	SL_PCE2	Hrs	20			2,254	2,254	25.0%	564	
1	03	02	04	04	AWARD: Undulator Racks Contract	20-Jun-07	20-Jun-07	SL_AWARD	\$\$		93,450			107,508	107,508		
1	03	02	04	04	Vendor Fab Undulator Racks	21-Jun-07	14-Sep-07	SA_MSEG2	\$\$		89,000			95,417	95,417	25.0%	23,854
1	03	02	04	04	Intall & Integrate Undulator Racks	17-Sep-07	25-Jan-08	SL_PCEF2	Hrs	560			35,261	35,261	25.0%	8,815	
1	03	02	04	04	Intall & Integrate Undulator Racks	17-Sep-07	25-Jan-08	SL_CT2	Hrs	18			1,133	1,133	25.0%	283	
1	03	02	04	04	Intall & Integrate Undulator Racks	17-Sep-07	25-Jan-08	SL_CCA2	Hrs	280			18,755	18,755	25.0%	4,689	
1	03	02	05		Controls - LLRF					5,473	375,000	484,015	408,327	892,342		223,085	
1	03	02	05	01	Solid State Sub-booster 5X					430	135,000	32,595	148,063	180,658		45,165	
1	03	02	05	01	Design: Solid State Sub-Booster 5x	1-May-07	12-Jun-07	SL_KE2	Hrs	78			8,791	8,791	25.0%	2,198	
1	03	02	05	01	FDR: Solid State Sub-Booster 5x	13-Jun-07	13-Jun-07	SL_KE2	Hrs	16			1,803	1,803	25.0%	451	
1	03	02	05	01	Prepare Bid Package: Solid State Sub-Booster 5X	14-Jun-07	27-Jun-07	SL_KE2	Hrs	16			1,803	1,803	25.0%	451	
1	03	02	05	01	RCV: Solid State Sub-Booster 5x	22-Oct-07	22-Oct-07	SL_MSEG2	\$\$		135,000			148,063	148,063	25.0%	37,016
1	03	02	05	01	Integrate & Test: Solid State Sub-Booster 5x	23-Oct-07	19-Nov-07	SL_KT2	Hrs	320			20,198	20,198	25.0%	5,050	
1	03	02	05	03	L2/L3 RF Distribution					1,561	120,000	136,758	131,611	268,370		67,092	
1	03	02	05	03	Design L2/L3 RF Distribution	1-May-07	26-Jun-07	SL_KT2	Hrs	400			24,680	24,680	25.0%	6,170	
1	03	02	05	03	Design L2/L3 RF Distribution	1-May-07	26-Jun-07	SL_KE2	Hrs	400			45,080	45,080	25.0%	11,270	
1	03	02	05	03	FDR: L2/L3 RF Distribution	27-Jun-07	27-Jun-07	SL_KE2	Hrs	8			902	902	25.0%	225	
1	03	02	05	03	RCV: L2/L3 RF Distribution	8-Oct-07	8-Oct-07	SL_MSEG2	\$\$		120,000			131,611	131,611	25.0%	32,903
1	03	02	05	03	In-house Assembly L2/L3 RF Distribution	9-Oct-07	5-Nov-07	SL_KT2	Hrs	200			12,624	12,624	25.0%	3,156	
1	03	02	05	03	In-house Assembly L2/L3 RF Distribution	9-Oct-07	5-Nov-07	SL_KE2	Hrs	200			23,059	23,059	25.0%	5,765	
1	03	02	05	03	Software Development: L2/L3 RF Distribution	1-May-07	26-Jul-07	SL_CP2	Hrs	153			12,572	12,572	25.0%	3,143	
1	03	02	05	03	Integrate & Test: L2/L3 RF Distribution	6-Nov-07	19-Nov-07	SL_KT2	Hrs	100			6,312	6,312	25.0%	1,578	
1	03	02	05	03	Integrate & Test: L2/L3 RF Distribution	6-Nov-07	19-Nov-07	SL_KE2	Hrs	100			11,529	11,529	25.0%	2,882	
1	03	02	05	04	Beam Phase Measurement 2x					710	25,000	63,177	26,803	89,980		22,495	
1	03	02	05	04	Design: Beam Phase Measurement 2x	1-Jun-07	13-Jul-07	SL_KE2	Hrs	210			23,667	23,667	25.0%	5,917	
1	03	02	05	04	FDR: Beam Phase Measurement 2x	16-Jul-07	16-Jul-07	SL_KE2	Hrs	10			1,127	1,127	25.0%	282	
1	03	02	05	04	RCV: Beam Phase Measurement 2x H/W	28-Aug-07	28-Aug-07	SL_MSEG2	\$\$		25,000			26,803	26,803	25.0%	6,701
1	03	02	05	04	Fabricate: Beam Phase Measurement 2x	29-Aug-07	10-Oct-07	SL_KT2	Hrs	150			9,301	9,301	25.0%	2,325	
1	03	02	05	04	Software Development: Beam Phase Measurement 2x	1-Jun-07	8-Oct-07	SL_CP2	Hrs	180			14,809	14,809	25.0%	3,702	
1	03	02	05	04	Integrate & Test: Beam Phase Measurement 2x	11-Oct-07	7-Nov-07	SL_KT2	Hrs	80			5,050	5,050	25.0%	1,262	
1	03	02	05	04	Integrate & Test: Beam Phase Measurement 2x	11-Oct-07	7-Nov-07	SL_KE2	Hrs	80			9,223	9,223	25.0%	2,306	
1	03	02	05	05	Sector 24 Rack Electrical Crate / IOC / EVG					420	70,000	38,458	75,047	113,505		28,376	
1	03	02	05	05	Design: Sector 24 Rack Electrical Crate IOC EVG	1-May-07	26-Jun-07	SL_KE2	Hrs	100			11,270	11,270	25.0%	2,818	
1	03	02	05	05	Design: Sector 24 Rack Electrical Crate IOC EVG	1-May-07	26-Jun-07	SL_CE2	Hrs	100			11,270	11,270	25.0%	2,818	
1	03	02	05	05	RCV: Sector 24 Rack Electrical Crate IOC EVG	21-Sep-07	21-Sep-07	SL_MSEG2	\$\$		70,000			75,047	75,047	25.0%	18,762
1	03	02	05	05	Assemble: Sector 24 Rack Electrical Crate IOC EV	24-Sep-07	19-Oct-07	SL_KT2	Hrs	140			8,781	8,781	25.0%	2,195	
1	03	02	05	05	Integrate & Test: Sector 24 Rack Electrical Crat	22-Oct-07	2-Nov-07	SL_KT2	Hrs	40			2,525	2,525	25.0%	631	
1	03	02	05	05	Integrate & Test: Sector 24 Rack Electrical Crat	22-Oct-07	2-Nov-07	SL_KE2	Hrs	40			4,612	4,612	25.0%	1,153	
1	03	02	05	06	Sector 24 T-Cav					440	15,000	33,893	16,082	49,974		12,494	
1	03	02	05	06	Design: Sector 24 - T-Cav	1-May-07	29-May-07	SL_KE2	Hrs	60			6,762	6,762	25.0%	1,691	
1	03	02	05	06	RCV: Sector 24 T-Cav Hardware	12-Jul-07	12-Jul-07	SL_MSEG2	\$\$		15,000			16,082	16,082	25.0%	4,020
1	03	02	05	06	Software Development: Sector 24 T-Cav Hardware	1-May-07	6-Sep-07	SL_CP2	Hrs	180			14,791	14,791	25.0%	3,698	
1	03	02	05	06	Fabricate: Sector 24 T-Cav Hardware	13-Jul-07	9-Aug-07	SL_KT2	Hrs	140			8,638	8,638	25.0%	2,160	
1	03	02	05	06	Integrate & Test Sector 24 T-Cav Hardware	10-Aug-07	23-Aug-07	SL_KT2	Hrs	60			3,702	3,702	25.0%	926	
1	03	02	05	07	Sector 29/30 Controls (PACs & PADS)					320	10,000	26,489	10,721	37,210		9,302	
1	03	02	05	07	Design: Sector 29/30 Control (Packs & Pads)	1-May-07	12-Jun-07	SL_KE2	Hrs	60			6,762	6,762	25.0%	1,691	
1	03	02	05	07	RCV: Sector 29/30 Control (Packs & Pads) H/W	26-Jul-07	26-Jul-07	SL_MSEG2	\$\$		10,000			10,721	10,721	25.0%	2,680
1	03	02	05	07	Software Development: Sector 29/30 Control	1-May-07	6-Sep-07	SL_CP2	Hrs	180			14,791	14,791	25.0%	3,698	
1	03	02	05	07	Fabricate: Sector 29/30 Control	27-Jul-07	23-Aug-07	SL_KT2	Hrs	50			3,085	3,085	25.0%	771	
1	03	02	05	07	Integrate & Test Sector 29/30 Control	24-Aug-07	7-Sep-07	SL_KT2	Hrs	30			1,851	1,851	25.0%	463	
1	03	02	05	10	RF Stability / Feedback					1,048	-	104,388	-	104,388		26,097	
1	03	02	05	10	Design: RF Stability / Feedback	4-Sep-07	17-Jul-08	SL_KE2	Hrs	520			59,838	59,838	25.0%	14,959	
1	03	02	05	10	FDR: RF Stability / Feedback	18-Jul-08	18-Jul-08	SL_KE2	Hrs	8			922	922	25.0%	231	
1	03	02	05	10	Software Development: RF Stability / Feedback	4-Sep-07	17-Jul-08	SL_CP2	Hrs	520			43,628	43,628	25.0%	10,907	
1	03	02	05	11	System Documentation					544	-	48,257	-	48,257		12,064	
1	03	02	05	11	System Documentation	1-May-07	20-Aug-08	SL_PHS2	Hrs	224			16,590	16,590	25.0%	4,148	
1	03	02	05	11	System Documentation	1-May-07	20-Aug-08	SL_KE2	Hrs	160			18,314	18,314	25.0%	4,578	
1	03	02	05	11	System Documentation	1-May-07	20-Aug-08	SL_CP2	Hrs	160			13,353	13,353	25.0%	3,338	
1	03	02	06		Controls - E-Beam Diagnostic					5,477	669,444	485,092	717,111	1,202,203		276,908	
1	03	02	06	01	Controls - Wire Scanners					1,040	68,520	88,958	73,461	162,419		32,484	
1	03	02	06	01	RCV: 10 PMTs	1-May-07	1-May-07	SL_MSEG2	\$\$		8,000			8,577	8,577	20.0%	1,715
1	03	02	06	01	RCV: 8 Motor Contrlr/Drives/Pwr Supplies	1-May-07	31-May-07	SL_MSEG2	\$\$		26,400			28,304	28,304	20.0%	5,661
1	03	02	06	01	RCV: 2 LVDTs	30-May-07	30-May-07	SL_MSEG2	\$\$		8,080			8,663	8,663	20.0%	1,733
1	03	02	06	01	LTU Rack Layout and Wiring	1-Jun-07	31-Aug-07	SL_CE2	Hrs	160			18,032	18,032	20.0%	3,606	
1	03	02	06	01	LTU Rack Layout and Wiring	1-Jun-07	31-Aug-07	SL_CCA2	Hrs	320			21,003	21,003	20.0%	4,201	
1	03	02	06	01	RCV: 5 PMTs	25-Sep-07	25-Sep-07	SL_MSEG2	\$\$		4,000			4,288	4,288	20.0%	858

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline Description	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escldt Cost			Cont %	Contingency \$
1	2	3	4	5	6						Hours	\$	Labor	M&S	Total		
1	03	02	06	01	6	RCV: 1 Charge Integ ADC	25-Sep-07	25-Sep-07	SL_MSEG2	\$\$		5,500		5,897	5,897	20.0%	1,179
1	03	02	06	01		RCV: 4 Motor Contrlr/Drives/Pwr Supplies	30-Jul-07	30-Jul-07	SL_MSEG2	\$\$		9,600		10,292	10,292	20.0%	2,058
1	03	02	06	01		RCV: 1 LVDT	29-Jun-07	29-Jun-07	SL_MSEG2	\$\$		4,040		4,331	4,331	20.0%	866
1	03	02	06	01		RCV: 1 EVR	29-Jun-07	29-Jun-07	SL_MSEG2	\$\$		2,900		3,109	3,109	20.0%	622
1	03	02	06	01		LTU Hardware Fab	26-Sep-07	2-Jan-08	SL_CT2	Hrs	160		10,088		10,088	20.0%	2,018
1	03	02	06	01		LTU Hardware Fab	26-Sep-07	2-Jan-08	SL_CE2	Hrs	160		18,426		18,426	20.0%	3,685
1	03	02	06	01		LTU ntegration and Test	3-Jan-08	29-Feb-08	SL_CT2	Hrs	120		7,574		7,574	20.0%	1,515
1	03	02	06	01		LTU ntegration and Test	3-Jan-08	29-Feb-08	SL_CE2	Hrs	120		13,835		13,835	20.0%	2,767
1	03	02	06	02		Controls - BPMs					2,977	370,305	268,150	397,005	665,155		166,289
1	03	02	06	02		L02-L03 Control Software	1-May-07	25-Jul-07	SL_CP2	Hrs	161		13,229		13,229	25.0%	3,307
1	03	02	06	02		RCV: 87 BPM Front End Electronics	26-Jul-07	26-Jul-07	SL_MSEG2	\$\$		116,389		124,781	124,781	25.0%	31,195
1	03	02	06	02		RCV: 44 Echotek	26-Jul-07	26-Jul-07	SL_MSEG2	\$\$		116,389		124,781	124,781	25.0%	31,195
1	03	02	06	02		RCV: 9 EVRs	27-Jun-07	27-Jun-07	SL_MSEG2	\$\$		17,458		18,717	18,717	25.0%	4,679
1	03	02	06	02		RCV: 9 Interrack Cables	30-May-07	30-May-07	SL_MSEG2	\$\$		1,338		1,434	1,434	25.0%	359
1	03	02	06	02		RCV: 9 Binary I/Os	30-May-07	30-May-07	SL_MSEG2	\$\$		2,408		2,582	2,582	25.0%	645
1	03	02	06	02		L02-L03 Hardware Fab	27-Jul-07	21-Sep-07	SL_CT2	Hrs	321		19,806		19,806	25.0%	4,951
1	03	02	06	02		L02-L03 Hardware Fab	27-Jul-07	21-Sep-07	SL_CE2	Hrs	435		49,025		49,025	25.0%	12,256
1	03	02	06	02		L02-L03 ntegration and Test	24-Sep-07	16-Nov-07	SL_CT2	Hrs	214		13,468		13,468	25.0%	3,367
1	03	02	06	02		L02-L03 ntegration and Test	24-Sep-07	16-Nov-07	SL_CP2	Hrs	107		8,968		8,968	25.0%	2,242
1	03	02	06	02		L02-L03 ntegration and Test	24-Sep-07	16-Nov-07	SL_CE2	Hrs	274		31,497		31,497	25.0%	7,874
1	03	02	06	02		LTU Control Software	1-Jun-07	24-Aug-07	SL_CP2	Hrs	187		15,366		15,366	25.0%	3,841
1	03	02	06	02		RCV: 42 BPM Front End Electronics	25-Sep-07	25-Sep-07	SL_MSEG2	\$\$		56,188		60,239	60,239	25.0%	15,060
1	03	02	06	02		RCV: 21 Echotek	25-Sep-07	25-Sep-07	SL_MSEG2	\$\$		56,188		60,239	60,239	25.0%	15,060
1	03	02	06	02		RCV: 5 EVRs	30-Jul-07	30-Jul-07	SL_MSEG2	\$\$		1,940		2,080	2,080	25.0%	520
1	03	02	06	02		RCV: 5 Interrack Cables	29-Jun-07	29-Jun-07	SL_MSEG2	\$\$		669		717	717	25.0%	179
1	03	02	06	02		RCV: 5 Binary I/Os	29-Jun-07	29-Jun-07	SL_MSEG2	\$\$		1,338		1,434	1,434	25.0%	359
1	03	02	06	02		LTU Hardware Fab	26-Sep-07	2-Jan-08	SL_CT2	Hrs	375		23,643		23,643	25.0%	5,911
1	03	02	06	02		LTU Hardware Fab	26-Sep-07	2-Jan-08	SL_CE2	Hrs	468		53,895		53,895	25.0%	13,474
1	03	02	06	02		LTU ntegration and Test	3-Jan-08	29-Feb-08	SL_CT2	Hrs	161		10,162		10,162	25.0%	2,541
1	03	02	06	02		LTU ntegration and Test	3-Jan-08	29-Feb-08	SL_CP2	Hrs	80		6,725		6,725	25.0%	1,681
1	03	02	06	02		LTU ntegration and Test	3-Jan-08	29-Feb-08	SL_CE2	Hrs	194		22,367		22,367	25.0%	5,592
1	03	02	06	03		Controls - Toroids					288	51,400	25,240	55,106	80,346		20,086
1	03	02	06	03		L02-L03 Rack Layout and Wiring	1-May-07	26-Jun-07	SL_CE2	Hrs	16		1,803		1,803	25.0%	451
1	03	02	06	03		L02-L03 Rack Layout and Wiring	1-May-07	26-Jun-07	SL_CCA2	Hrs	16		1,050		1,050	25.0%	263
1	03	02	06	03		RCV: 2 EVRs	30-May-07	30-May-07	SL_MSEG2	\$\$		8,000		8,577	8,577	25.0%	2,144
1	03	02	06	03		RCV: 1 Crate/CPU/PMC Spa n	30-May-07	30-May-07	SL_MSEG2	\$\$		8,000		8,577	8,577	25.0%	2,144
1	03	02	06	03		RCV: 1 I/O	30-May-07	30-May-07	SL_MSEG2	\$\$		6,700		7,183	7,183	25.0%	1,796
1	03	02	06	03		RCV: L02-L03 Interrack Cables	30-May-07	30-May-07	SL_MSEG2	\$\$		1,000		1,072	1,072	25.0%	268
1	03	02	06	03		L02-L03 Hardware Fab	31-May-07	26-Jul-07	SL_CT2	Hrs	16		987		987	25.0%	247
1	03	02	06	03		L02-L03 Hardware Fab	31-May-07	26-Jul-07	SL_CE2	Hrs	16		1,803		1,803	25.0%	451
1	03	02	06	03		L02-L03 Integration and Test	27-Jul-07	9-Aug-07	SL_CT2	Hrs	40		2,468		2,468	25.0%	617
1	03	02	06	03		L02-L03 Integration and Test	27-Jul-07	9-Aug-07	SL_CE2	Hrs	40		4,508		4,508	25.0%	1,127
1	03	02	06	03		LTU Rack Layout and Wiring	1-Jun-07	27-Jul-07	SL_CE2	Hrs	16		1,803		1,803	25.0%	451
1	03	02	06	03		LTU Rack Layout and Wiring	1-Jun-07	27-Jul-07	SL_CCA2	Hrs	16		1,050		1,050	25.0%	263
1	03	02	06	03		RCV: 3 EVRs	29-Jun-07	29-Jun-07	SL_MSEG2	\$\$		12,000		12,865	12,865	25.0%	3,216
1	03	02	06	03		RCV: 1 Crate/CPU/PMC Spa n	29-Jun-07	29-Jun-07	SL_MSEG2	\$\$		8,000		8,577	8,577	25.0%	2,144
1	03	02	06	03		RCV: 1 I/O	29-Jun-07	29-Jun-07	SL_MSEG2	\$\$		6,700		7,183	7,183	25.0%	1,796
1	03	02	06	03		RCV: LTU Interrack Cables	29-Jun-07	29-Jun-07	SL_MSEG2	\$\$		1,000		1,072	1,072	25.0%	268
1	03	02	06	03		LTU Hardware Fab	2-Jul-07	27-Aug-07	SL_CT2	Hrs	16		987		987	25.0%	247
1	03	02	06	03		LTU Hardware Fab	2-Jul-07	27-Aug-07	SL_CE2	Hrs	16		1,803		1,803	25.0%	451
1	03	02	06	03		LTU Integration and Test	28-Aug-07	11-Sep-07	SL_CT2	Hrs	40		2,468		2,468	25.0%	617
1	03	02	06	03		LTU Integration and Test	28-Aug-07	11-Sep-07	SL_CE2	Hrs	40		4,508		4,508	25.0%	1,127
1	03	02	06	04		Controls - Stoppers					160	10,000	14,078	10,721	24,799		5,717
1	03	02	06	04		L02-L03 Rack Layout and Wiring	1-May-07	29-May-07	SL_CE2	Hrs	16		1,803		1,803	25.0%	451
1	03	02	06	04		L02-L03 Rack Layout and Wiring	1-May-07	29-May-07	SL_CCA2	Hrs	16		1,050		1,050	25.0%	263
1	03	02	06	04		RCV: L02-L03 Crate/CPU/PMC Spac	30-May-07	30-May-07	SL_MSEG2	\$\$		7,000		7,505	7,505	20.0%	1,501
1	03	02	06	04		RCV: L02-L03 I/Os	30-May-07	30-May-07	SL_MSEG2	\$\$		2,000		2,144	2,144	20.0%	429
1	03	02	06	04		RCV: L02-L03 Interrack Cables	30-May-07	30-May-07	SL_MSEG2	\$\$		500		536	536	25.0%	134
1	03	02	06	04		L02-L03 Hardware Fab	31-May-07	13-Jun-07	SL_CT2	Hrs	16		987		987	25.0%	247
1	03	02	06	04		L02-L03 Hardware Fab	31-May-07	13-Jun-07	SL_CE2	Hrs	16		1,803		1,803	25.0%	451
1	03	02	06	04		L02-L03 Integration and Test	14-Jun-07	20-Jun-07	SL_CT2	Hrs	8		494		494	25.0%	123
1	03	02	06	04		L02-L03 Integration and Test	14-Jun-07	20-Jun-07	SL_CE2	Hrs	8		902		902	25.0%	225
1	03	02	06	04		LTU Rack Layout and Wiring	1-Jun-07	28-Jun-07	SL_CE2	Hrs	16		1,803		1,803	25.0%	451
1	03	02	06	04		LTU Rack Layout and Wiring	1-Jun-07	28-Jun-07	SL_CCA2	Hrs	16		1,050		1,050	25.0%	263
1	03	02	06	04		RCV: LTU Interrack Cables	29-Jun-07	29-Jun-07	SL_MSEG2	\$\$		500		536	536	25.0%	134
1	03	02	06	04		LTU Hardware Fab	2-Jul-07	16-Jul-07	SL_CT2	Hrs	16		987		987	25.0%	247
1	03	02	06	04		LTU Hardware Fab	2-Jul-07	16-Jul-07	SL_CE2	Hrs	16		1,803		1,803	25.0%	451
1	03	02	06	04		LTU Integration and Test	17-Jul-07	23-Jul-07	SL_CT2	Hrs	8		494		494	25.0%	123
1	03	02	06	04		LTU Integration and Test	17-Jul-07	23-Jul-07	SL_CE2	Hrs	8		902		902	25.0%	225
1	03	02	06	05		Controls - Profile Monitors					216	65,859	19,201	70,005	89,207		13,610
1	03	02	06	05		L02-L03 Rack Layout and Wiring	1-May-07	27-Jul-07	SL_CE2	Hrs	18		2,029		2,029	25.0%	507
1	03	02	06	05		L02-L03 Rack Layout and Wiring	1-May-07	27-Jul-07	SL_CCA2	Hrs	18		1,181		1,181	25.0%	295

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline Description	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont %	Contingency \$	
1	2	3	4	5	6						Hours	\$	Labor	M&S	Total			
1	03	02	06	05		RCV: 2 L02-L03 Profile Monitor Cameras	29-Jun-07	29-Jun-07	SL_MSEG2	\$\$		6,825		7,317	7,317	20.0%	1,463	
1	03	02	06	05		RCV: 2 PMC Interfaced Cables	30-May-07	30-May-07	SL_MSEG2	\$\$		7,098		7,610	7,610	20.0%	1,522	
1	03	02	06	05		RCV: 1 Smart Lens	30-May-07	30-May-07	SL_MSEG2	\$\$		546		585	585	20.0%	117	
1	03	02	06	05		RCV: 4 Intertrack Cables	30-May-07	30-May-07	SL_MSEG2	\$\$		455		488	488	25.0%	122	
1	03	02	06	05		RCV: IOCs CPU/EVR/Span	30-May-07	30-May-07	SL_MSEG2	\$\$		10,192		10,927	10,927	20.0%	2,185	
1	03	02	06	05		RCV: Misc Equipment	30-May-07	30-May-07	SL_MSPF2	\$\$		25,000		26,200	26,200	0.0%	0	
1	03	02	06	05		L02-L03 Hardware Fab	2-Jul-07	26-Oct-07	SL_CT2	Hrs	9		558		558	25.0%	140	
1	03	02	06	05		L02-L03 Hardware Fab	2-Jul-07	26-Oct-07	SL_CE2	Hrs	9		1,019		1,019	25.0%	255	
1	03	02	06	05		L02-L03 Integration and Test	29-Oct-07	2-Nov-07	SL_CT2	Hrs	36		2,272		2,272	25.0%	568	
1	03	02	06	05		L02-L03 Integration and Test	29-Oct-07	2-Nov-07	SL_CE2	Hrs	36		4,151		4,151	25.0%	1,038	
1	03	02	06	05		LTU Rack Layout and Wiring	1-Jun-07	31-Aug-07	SL_CE2	Hrs	18		2,029		2,029	25.0%	507	
1	03	02	06	05		LTU Rack Layout and Wiring	1-Jun-07	31-Aug-07	SL_CCA2	Hrs	18		1,181		1,181	25.0%	295	
1	03	02	06	05		RCV: 2 LTU Profile Monitor Cameras	29-Jun-07	29-Jun-07	SL_MSEG2	\$\$		5,460		5,854	5,854	20.0%	1,171	
1	03	02	06	05		RCV: 2 PMC Interfaced Cables	29-Jun-07	29-Jun-07	SL_MSEG2	\$\$		4,732		5,073	5,073	20.0%	1,015	
1	03	02	06	05		RCV: 4 Intertrack Cables	29-Jun-07	29-Jun-07	SL_MSEG2	\$\$		455		488	488	25.0%	122	
1	03	02	06	05		RCV: IOCs CPU/EVR/Span	29-Jun-07	29-Jun-07	SL_MSEG2	\$\$		5,096		5,463	5,463	20.0%	1,093	
1	03	02	06	05		LTU Hardware Fab	2-Jul-07	28-Sep-07	SL_CT2	Hrs	9		555		555	25.0%	139	
1	03	02	06	05		LTU Hardware Fab	2-Jul-07	28-Sep-07	SL_CE2	Hrs	9		1,014		1,014	25.0%	254	
1	03	02	06	05		LTU Integration and Test	1-Nov-07	7-Nov-07	SL_CT2	Hrs	18		1,136		1,136	25.0%	284	
1	03	02	06	05		LTU Integration and Test	1-Nov-07	7-Nov-07	SL_CE2	Hrs	18		2,075		2,075	25.0%	519	
1	03	02	06	07		Controls - Bunch Length Monitors						264	12,800	22,480	13,723	36,203		8,391
1	03	02	06	07		L02-L03 BLM Rack Layout and Wiring	1-May-07	29-May-07	SL_CE2	Hrs	16		1,803		1,803	25.0%	451	
1	03	02	06	07		L02-L03 BLM Rack Layout and Wiring	1-May-07	29-May-07	SL_CCA2	Hrs	16		1,050		1,050	25.0%	263	
1	03	02	06	07		L02-L03 BLM Control Software	1-May-07	29-May-07	SL_CP2	Hrs	40		3,287		3,287	25.0%	822	
1	03	02	06	07		RCV: L02-L03 BLM Crate/CPU/EVR	30-May-07	30-May-07	SL_MSEG2	\$\$		7,000		7,505	7,505	20.0%	1,501	
1	03	02	06	07		RCV: L02-L03 BLM I/Os	30-May-07	30-May-07	SL_MSEG2	\$\$		2,000		2,144	2,144	20.0%	429	
1	03	02	06	07		RCV: L02-L03 BLM Charge ADC	30-May-07	30-May-07	SL_MSEG2	\$\$		3,300		3,538	3,538	20.0%	708	
1	03	02	06	07		RCV: L02-L03 Intertrack Cables	30-May-07	30-May-07	SL_MSEG2	\$\$		500		536	536	25.0%	134	
1	03	02	06	07		L02-L03 BLM Hardware Fab	31-May-07	13-Jun-07	SL_CT2	Hrs	16		987		987	25.0%	247	
1	03	02	06	07		L02-L03 BLM Hardware Fab	31-May-07	13-Jun-07	SL_CE2	Hrs	16		1,803		1,803	25.0%	451	
1	03	02	06	07		L02-L03 BLM Integration and Test	14-Jun-07	20-Jun-07	SL_CT2	Hrs	40		2,468		2,468	25.0%	617	
1	03	02	06	07		L02-L03 BLM Integration and Test	14-Jun-07	20-Jun-07	SL_CP2	Hrs	80		6,574		6,574	25.0%	1,643	
1	03	02	06	07		L02-L03 BLM Integration and Test	14-Jun-07	20-Jun-07	SL_CE2	Hrs	40		4,508		4,508	25.0%	1,127	
1	03	02	06	09		Controls - Single Beam Dump						160	10,000	14,078	10,721	24,799		5,717
1	03	02	06	09		L02-L03 Rack Layout and Wiring	1-May-07	29-May-07	SL_CE2	Hrs	16		1,803		1,803	25.0%	451	
1	03	02	06	09		L02-L03 Rack Layout and Wiring	1-May-07	29-May-07	SL_CCA2	Hrs	16		1,050		1,050	25.0%	263	
1	03	02	06	09		RCV: L02-L03 Crate/CPU/PMC Spac	30-May-07	30-May-07	SL_MSEG2	\$\$		7,000		7,505	7,505	20.0%	1,501	
1	03	02	06	09		RCV: L02-L03 I/Os	30-May-07	30-May-07	SL_MSEG2	\$\$		2,000		2,144	2,144	20.0%	429	
1	03	02	06	09		RCV: L02-L03 Intertrack Cables	30-May-07	30-May-07	SL_MSEG2	\$\$		500		536	536	25.0%	134	
1	03	02	06	09		L02-L03 Hardware Fab	31-May-07	13-Jun-07	SL_CT2	Hrs	16		987		987	25.0%	247	
1	03	02	06	09		L02-L03 Hardware Fab	31-May-07	13-Jun-07	SL_CE2	Hrs	16		1,803		1,803	25.0%	451	
1	03	02	06	09		L02-L03 Integration and Test	14-Jun-07	20-Jun-07	SL_CT2	Hrs	8		494		494	25.0%	123	
1	03	02	06	09		L02-L03 Integration and Test	14-Jun-07	20-Jun-07	SL_CE2	Hrs	8		902		902	25.0%	225	
1	03	02	06	09		LTU Rack Layout and Wiring	1-Jun-07	28-Jun-07	SL_CE2	Hrs	16		1,803		1,803	25.0%	451	
1	03	02	06	09		LTU Rack Layout and Wiring	1-Jun-07	28-Jun-07	SL_CCA2	Hrs	16		1,050		1,050	25.0%	263	
1	03	02	06	09		RCV: LTU Intertrack Cables	29-Jun-07	29-Jun-07	SL_MSEG2	\$\$		500		536	536	25.0%	134	
1	03	02	06	09		LTU Hardware Fab	2-Jul-07	16-Jul-07	SL_CT2	Hrs	16		987		987	25.0%	247	
1	03	02	06	09		LTU Hardware Fab	2-Jul-07	16-Jul-07	SL_CE2	Hrs	16		1,803		1,803	25.0%	451	
1	03	02	06	09		LTU Integration and Test	17-Jul-07	23-Jul-07	SL_CT2	Hrs	8		494		494	25.0%	123	
1	03	02	06	09		LTU Integration and Test	17-Jul-07	23-Jul-07	SL_CE2	Hrs	8		902		902	25.0%	225	
1	03	02	06	10		Controls - E Beam Dump						160	10,000	14,078	10,721	24,799		5,717
1	03	02	06	10		L02-L03 Rack Layout and Wiring	1-May-07	29-May-07	SL_CE2	Hrs	16		1,803		1,803	25.0%	451	
1	03	02	06	10		L02-L03 Rack Layout and Wiring	1-May-07	29-May-07	SL_CCA2	Hrs	16		1,050		1,050	25.0%	263	
1	03	02	06	10		RCV: L02-L03 Crate/CPU/PMC Spac	30-May-07	30-May-07	SL_MSEG2	\$\$		7,000		7,505	7,505	20.0%	1,501	
1	03	02	06	10		RCV: L02-L03 I/Os	30-May-07	30-May-07	SL_MSEG2	\$\$		2,000		2,144	2,144	20.0%	429	
1	03	02	06	10		RCV: L02-L03 Intertrack Cables	30-May-07	30-May-07	SL_MSEG2	\$\$		500		536	536	25.0%	134	
1	03	02	06	10		L02-L03 Hardware Fab	31-May-07	13-Jun-07	SL_CT2	Hrs	16		987		987	25.0%	247	
1	03	02	06	10		L02-L03 Hardware Fab	31-May-07	13-Jun-07	SL_CE2	Hrs	16		1,803		1,803	25.0%	451	
1	03	02	06	10		L02-L03 Integration and Test	14-Jun-07	20-Jun-07	SL_CT2	Hrs	8		494		494	25.0%	123	
1	03	02	06	10		L02-L03 Integration and Test	14-Jun-07	20-Jun-07	SL_CE2	Hrs	8		902		902	25.0%	225	
1	03	02	06	10		LTU Rack Layout and Wiring	1-Jun-07	28-Jun-07	SL_CE2	Hrs	16		1,803		1,803	25.0%	451	
1	03	02	06	10		LTU Rack Layout and Wiring	1-Jun-07	28-Jun-07	SL_CCA2	Hrs	16		1,050		1,050	25.0%	263	
1	03	02	06	10		RCV: LTU Intertrack Cables	29-Jun-07	29-Jun-07	SL_MSEG2	\$\$		500		536	536	25.0%	134	
1	03	02	06	10		LTU Hardware Fab	2-Jul-07	16-Jul-07	SL_CT2	Hrs	16		987		987	25.0%	247	
1	03	02	06	10		LTU Hardware Fab	2-Jul-07	16-Jul-07	SL_CE2	Hrs	16		1,803		1,803	25.0%	451	
1	03	02	06	10		LTU Integration and Test	17-Jul-07	23-Jul-07	SL_CT2	Hrs	8		494		494	25.0%	123	
1	03	02	06	10		LTU Integration and Test	17-Jul-07	23-Jul-07	SL_CE2	Hrs	8		902		902	25.0%	225	
1	03	02	06	12		Controls - Movable Collimator						212	70,560	18,828	75,648	94,476		18,895
1	03	02	06	12		RCV: 19 Motor Contrlr/Drives/Pwr Supplies	27-Jun-07	27-Jun-07	SL_MSEG2	\$\$		38,304		41,066	41,066	20.0%	8,213	
1	03	02	06	12		L02-L03 Hardware Fab	27-Jul-07	21-Sep-07	SL_CT2	Hrs	15		926		926	20.0%	185	
1	03	02	06	12		L02-L03 Hardware Fab	27-Jul-07	21-Sep-07	SL_CE2	Hrs	15		1,691		1,691	20.0%	338	
1	03	02	06	12		L02-L03 HW/SW Integration and Test	24-Sep-07	16-Nov-07	SL_CT2	Hrs	38		2,391		2,391	20.0%	478	

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early	Early	Res	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont	Contingency	
						Description	Start	Finish	Code		Hours	\$	Labor	M&S	Total	%	\$	
1	03	02	06	12	6	L02-L03 HW/SW Integration and Test	24-Sep-07	16-Nov-07	SL_CE2	Hrs		38		4,368		4,368	20.0%	874
1	03	02	06	12		RCV: 16 Motor Contrlr/Drives/Pwr Supplies	30-Jul-07	30-Jul-07	SL_MSEG2	\$\$		32,256			34,582	34,582	20.0%	6,916
1	03	02	06	12		LTU Hardware Fab	26-Sep-07	2-Jan-08	SL_CT2	Hrs	15		946		946	20.0%	189	
1	03	02	06	12		LTU Hardware Fab	26-Sep-07	2-Jan-08	SL_CE2	Hrs	15		1,727		1,727	20.0%	345	
1	03	02	06	12		LTU HW/SW Integration and Test	3-Jan-08	29-Feb-08	SL_CT2	Hrs	38		2,399		2,399	20.0%	480	
1	03	02	06	12		LTU HW/SW Integration and Test	3-Jan-08	29-Feb-08	SL_CE2	Hrs	38		4,381		4,381	20.0%	876	
1	03	02	08			Controls - Timing						129,800		139,159	139,159		34,790	
1	03	02	08			RCV: 13 EVRs	30-May-07	30-May-07	SL_MSEG2	\$\$		37,700		40,418	40,418	25.0%	10,105	
1	03	02	08			RCV: 26 EVR Transition Modules	30-May-07	30-May-07	SL_MSEG2	\$\$		39,000		41,812	41,812	25.0%	10,453	
1	03	02	08			RCV: 9 EVRs	29-Jun-07	29-Jun-07	SL_MSEG2	\$\$		26,100		27,982	27,982	25.0%	6,995	
1	03	02	08			RCV: 18 EVR Transition Modules	29-Jun-07	29-Jun-07	SL_MSEG2	\$\$		27,000		28,947	28,947	25.0%	7,237	
1	03	02	09			Controls - Vacuum					2,248	119,698	191,733	128,329	320,061		74,847	
1	03	02	09	01		Controls - Vacuum Instrumentation & Interlocks					2,248	119,698	191,733	128,329	320,061		74,847	
1	03	02	09	01		L02-L03 Control Vacuum Software	1-May-07	6-Sep-07	SL_CP2	Hrs	349		28,678		28,678	25.0%	7,169	
1	03	02	09	01		L02-L03 Control Vacuum H/W in House FAB	1-May-07	6-Sep-07	SL_CT2	Hrs	155		9,564		9,564	25.0%	2,391	
1	03	02	09	01		L02-L03 Control Vacuum H/W in House FAB	1-May-07	6-Sep-07	SL_CE2	Hrs	155		17,469		17,469	25.0%	4,367	
1	03	02	09	01		L02-L03 Vacuum Integration and Test	7-Sep-07	4-Oct-07	SL_CT2	Hrs	116		7,176		7,176	25.0%	1,794	
1	03	02	09	01		L02-L03 Vacuum Integration and Test	7-Sep-07	4-Oct-07	SL_CP2	Hrs	233		19,195		19,195	25.0%	4,799	
1	03	02	09	01		L02-L03 Vacuum Integration and Test	7-Sep-07	4-Oct-07	SL_CE2	Hrs	116		13,107		13,107	25.0%	3,277	
1	03	02	09	01		LTU Control Vacuum Software	1-Jun-07	2-Jan-08	SL_CP2	Hrs	349		28,963		28,963	25.0%	7,241	
1	03	02	09	01		LTU Control Vacuum H/W in House FAB	1-Jun-07	2-Jan-08	SL_CT2	Hrs	155		9,659		9,659	25.0%	2,415	
1	03	02	09	01		LTU Control Vacuum H/W in House FAB	1-Jun-07	2-Jan-08	SL_CE2	Hrs	155		17,642		17,642	25.0%	4,411	
1	03	02	09	01		RCV: 8 LTU Ion Guage Controllers	29-Jun-07	29-Jun-07	SL_MSEG2	\$\$		19,400		20,799	20,799	20.0%	4,160	
1	03	02	09	01		RCV: 12 LTU Ion Pump Power Supplies	29-Jun-07	29-Jun-07	SL_MSEG2	\$\$		43,068		46,173	46,173	20.0%	9,235	
1	03	02	09	01		RCV: 6 LTU Vacuum Valve Controllers	29-Jun-07	29-Jun-07	SL_MSEG2	\$\$		23,280		24,959	24,959	25.0%	6,240	
1	03	02	09	01		RCV: 1 LTU Vacuum Control I/O (PLC)	29-Jun-07	29-Jun-07	SL_MSEG2	\$\$		33,950		36,398	36,398	20.0%	7,280	
1	03	02	09	01		LTU Vacuum Integration and Test	3-Jan-08	3-Mar-08	SL_CT2	Hrs	116		7,322		7,322	25.0%	1,830	
1	03	02	09	01		LTU Vacuum Integration and Test	3-Jan-08	3-Mar-08	SL_CP2	Hrs	233		19,586		19,586	25.0%	4,897	
1	03	02	09	01		LTU Vacuum Integration and Test	3-Jan-08	3-Mar-08	SL_CE2	Hrs	116		13,374		13,374	25.0%	3,344	
1	03	02	10			Software & Controls Infrastructure					223	319,000	22,873	342,001	364,874		200,681	
1	03	02	10	05		Computers					223	319,000	22,873	342,001	364,874		200,681	
1	03	02	10	05		Provide Hardware Engineer & Systems Integ Sup	1-May-07	11-Jul-07	SL_CE2	Hrs	175		19,723		19,723	55.0%	10,847	
1	03	02	10	05		Prep Bid Pak - MVME6100-0163 PowerPC Processor	12-Jul-07	18-Jul-07	SL_CCA2	Hrs	16		1,050		1,050	55.0%	578	
1	03	02	10	05		Evaluate Vendors Proposals	26-Jul-07	1-Aug-07	SL_CCA2	Hrs	16		1,050		1,050	55.0%	578	
1	03	02	10	05		AWARD: Contract MVME6100-0163 PowerPC Processor	2-Aug-07	2-Aug-07	SL_AWARD	\$\$		282,450		324,940	324,940			
1	03	02	10	05		RCV: MVME6100-0163 PowerPC Processor	31-Aug-07	31-Aug-07	SA_MSEG2	\$\$		269,000		288,396	288,396	55.0%	158,618	
1	03	02	10	05		Procure LINAC Computers/VME Crates	12-Jul-07	18-Jul-07	SL_CCA2	Hrs	16		1,050		1,050	55.0%	578	
1	03	02	10	05		RCV: (B280) VME 64X Mini Crate, 195X,64X,P0 - 7	19-Jul-07	19-Jul-07	SL_MSEG2	\$\$		40,000		42,884	42,884	55.0%	23,586	
1	03	02	10	05		RCV: B280 - BiRa Model 7305 VSAM	20-Jul-07	20-Jul-07	SL_MSEG2	\$\$		10,000		10,721	10,721	55.0%	5,897	
1	03	03				Linac Magnets & Supports					4,415	1,218,435	394,904	1,271,689	1,666,592		442,019	
1	03	03	02			Bend Magnet (BX3 - LTU)					1,018	94,750	89,326	99,607	188,933		37,787	
1	03	03	02			BX3 Engr Suppt Magnet Refurbish (BCR_90%)	1-May-07	29-May-07	SL_ME2	Hrs	1		100		100	20.0%	20	
1	03	03	02			BX3 Perform Magnetic Meas (BCR_25%)	1-May-07	29-May-07	SL_MES2	Hrs	45		3,603		3,603	20.0%	721	
1	03	03	02			BX3 Support Design (BCR_10%)	1-May-07	25-Jul-07	SL_ME2	Hrs	180		17,924		17,924	20.0%	3,585	
1	03	03	02			BX3 Support Design (BCR_10%)	1-May-07	25-Jul-07	SL_MDD2	Hrs	360		30,056		30,056	20.0%	6,011	
1	03	03	02			Award - BX3	22-May-07	22-May-07	SL_AWARD	\$\$		52,500		60,398	60,398	20.0%	12,080	
1	03	03	02			RCV: BX3 Fabricate Magnet	26-Jul-07	26-Jul-07	SA_MSEG2	\$\$		50,000		53,605	53,605	20.0%	10,721	
1	03	03	02			RCV: BX3 Supports	1-Oct-07	1-Oct-07	SL_MSSY2	\$\$		28,000		28,000	20.0%	5,600		
1	03	03	02			BX3 Design Safety Cover	1-May-07	21-Aug-07	SL_ME2	Hrs	87		8,663		8,663	20.0%	1,733	
1	03	03	02			BX3 Design Safety Cover	1-May-07	21-Aug-07	SL_MDD2	Hrs	305		25,464		25,464	20.0%	5,093	
1	03	03	02			BX3 Fabricate Safety Cover	22-Aug-07	8-Oct-07	SL_MSEG2	\$\$		12,000		12,909	12,909	20.0%	2,582	
1	03	03	02			BX3 Misc Hardware	1-May-07	30-Aug-07	SL_MSEG2	\$\$		4,750		5,092	5,092	20.0%	1,018	
1	03	03	02			BX3 Final Assembly/Kit for Installation	9-Oct-07	22-Oct-07	SL_MFAT2	Hrs	40		3,516		3,516	20.0%	703	
1	03	03	03			Bend Magnet (BX2 - BC2)					160	97,400	13,590	104,423	118,013		28,824	
1	03	03	03			RCV: BX2 - BC2 Magnets from Vendor	3-Jul-07	3-Jul-07	SL_MSEG2	\$\$		97,400		104,423	104,423	25.0%	26,106	
1	03	03	03			BX2 Perform Magnetic Measurement	5-Jul-07	1-Aug-07	SL_MES2	Hrs	120		9,607		9,607	20.0%	1,921	
1	03	03	03			Perform Magnet Pre-Instlation Qual	2-Aug-07	15-Aug-07	SL_ME2	Hrs	40		3,983		3,983	20.0%	797	
1	03	03	04			Bend Magnet (BY - LTU)					220	69,000	19,160	75,455	94,615		14,192	
1	03	03	04			BYLTU Refurbish Magnets from FFTB (BCR_90%)	1-May-07	2-May-07	SL_MFAT2	Hrs	1		86		86	15.0%	13	
1	03	03	04			BYLTU Perform Magnetic Measurement	1-May-07	2-May-07	SL_MES2	Hrs	4		320		320	15.0%	48	
1	03	03	04			BYLTU Support Design (BCR_10%)	1-May-07	29-May-07	SL_ME2	Hrs	22		2,191		2,191	15.0%	329	
1	03	03	04			BYLTU Support Design (BCR_10%)	1-May-07	29-May-07	SL_MDD2	Hrs	43		3,590		3,590	15.0%	539	
1	03	03	04			Award - BYLTU Supports	9-Aug-07	9-Aug-07	SL_AWARD	\$\$		64,200		73,858	73,858	15.0%	11,079	
1	03	03	04			RCV:BYLTU Fabricate Supports	8-Oct-07	8-Oct-07	SA_MSEG2	\$\$		60,000		65,806	65,806	15.0%	9,871	
1	03	03	04			BYLTU Design Safety Covers	1-May-07	25-May-07	SL_ME2	Hrs	6		597		597	15.0%	90	
1	03	03	04			BYLTU Design Safety Covers	1-May-07	25-May-07	SL_MDD2	Hrs	64		5,343		5,343	15.0%	801	
1	03	03	04			BYLTU Fabricate Safety Covers	1-May-07	25-May-07	SL_MSEG2	\$\$		4,000		4,288	4,288	15.0%	643	
1	03	03	04			BYLTU Misc Hardware	1-May-07	1-Oct-07	SL_MSEG2	\$\$		5,000		5,361	5,361	15.0%	804	
1	03	03	04			BYLTU Final Assembly/Kit for Installation	9-Oct-07	22-Oct-07	SL_MFAT2	Hrs	80		7,033		7,033	15.0%	1,055	
1	03	03	05			Quad Magnet (Quad - LTU)					320	638,775	26,960	650,944	677,904		84,049	
1	03	03	05			RCV: Quad - LTU Supports	4-Sep-07	4-Sep-07	SL_MSSY2	\$\$		470,000		470,000	470,000	15.0%	70,500	
1	03	03	05			Engineering Support Magnet Refurb (BCR_90%)	1-May-07	2-May-07	SL_ME2	Hrs	6		597		597	15.0%	90	

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont %	Contingency \$	
Description											Hours	\$	Labor	M&S	Total			
1	03	03	05	5	6	Refurbish Quad 0.91Q17.72 (qty 27)BCR_90%	1-May-07	2-May-07	SL_MFAT2	Hrs	20			1,719		1,719	15.0%	258
1	03	03	05	Measure Quad 0.91Q17.72 (qty 27)BCR_25%	1-May-07	31-May-07	SL_MSEG2	Hrs	54		4,323		4,323		4,323	15.0%	648	
1	03	03	05	Misc Matl for Quad 0.91Q17.72 (qty 27)BCR_10%	1-May-07	25-May-07	SL_MSEG2	\$\$			4,275		4,583		4,583	15.0%	687	
1	03	03	05	RCV: Everson Tesla Quad (req # 121416, qty 14)	1-May-07	1-May-07	SL_MSEG2	\$\$			164,500		176,361		176,361	5.0%	8,818	
1	03	03	05	Measure Everson Tesla Quad (req #121416, qty 14)	2-May-07	30-May-07	SL_MSEG2	Hrs	80				6,405		6,405	15.0%	961	
1	03	03	05	Final Assembly LTU Quads	5-Sep-07	30-Oct-07	SL_MFAT2	Hrs	160				13,916		13,916	15.0%	2,087	
1	03	03	08	Corrector Magnet (Type 4_LTUE-Dump)							380	55,000	32,724	57,640	90,364		18,073	
1	03	03	08	Engineering Support Corrector Fabrication	1-Aug-07	30-Aug-07	SL_ME2	Hrs	88				8,763		8,763	20.0%	1,753	
1	03	03	08	Engineering Support Corrector Fabrication	1-Aug-07	30-Aug-07	SL_MDD2	Hrs	132				11,021		11,021	20.0%	2,204	
1	03	03	08	Fabricate Correctors	1-Aug-07	30-Aug-07	SL_MSSF2	\$\$			55,000		57,640		57,640	20.0%	11,528	
1	03	03	08	Magnetic Measure Correctors	31-Aug-07	26-Oct-07	SL_MSEG2	Hrs	160				12,941		12,941	20.0%	2,588	
1	03	03	09	Bend Magnet (BYD_E-Dump)							105	200,000	9,264	219,352	228,616		218,873	
1	03	03	09	Prep Bid Pak - Magnets	1-May-07	29-Jun-07	SL_ME2	Hrs	2				199		199	20.0%	40	
1	03	03	09	Prep Bid Pak - Magnets	1-May-07	29-Jun-07	SL_MDD2	Hrs	1				83		83	20.0%	17	
1	03	03	09	Evaluate Vendor Proposals - Magnets	1-Aug-07	14-Aug-07	SL_ME2	Hrs	8				797		797	20.0%	159	
1	03	03	09	AWARD: BYD Magnet	15-Aug-07	15-Aug-07	SL_AWARD	\$\$			160,500		184,645		184,645	30.0%	55,393	
1	03	03	09	RCV: BYD Magnets	14-Jan-08	14-Jan-08	SA_MSEG2	\$\$			150,000		164,514		164,514	100.0%	164,514	
1	03	03	09	BYD Magnetic Measurement	15-Jan-08	12-Feb-08	SL_ME2	Hrs	40				3,276		3,276	25.0%	819	
1	03	03	09	BYD Design Magnet Support	12-Oct-07	11-Jan-08	SL_ME2	Hrs	18				1,834		1,834	25.0%	458	
1	03	03	09	BYD Design Magnet Support	12-Oct-07	11-Jan-08	SL_MDD2	Hrs	36				3,075		3,075	25.0%	769	
1	03	03	09	AWARD - BYD Supports	12-Feb-08	12-Feb-08	SL_AWARD	\$\$			53,500		63,148		63,148	25.0%	15,787	
1	03	03	09	RCV: BYD Fabricate Supports	10-Apr-08	10-Apr-08	SA_MSEG2	\$\$			50,000		54,838		54,838	95.0%	52,096	
1	03	03	10	Quad Magnet (E-Dump)							130	-	11,757	-	11,757		1,764	
1	03	03	10	Measure Quadrupoles 3.25Q20 (qty 4)	1-Apr-08	18-Apr-08	SL_ME2	Hrs	20				1,638		1,638	15.0%	246	
1	03	03	10	Dump Quad Support Design	1-Apr-08	14-Apr-08	SL_ME2	Hrs	44				4,482		4,482	15.0%	672	
1	03	03	10	Dump Quad Support Design	1-Apr-08	14-Apr-08	SL_MDD2	Hrs	66				5,637		5,637	15.0%	846	
1	03	03	11	Bend Magnet (BYPM_LTU)							691	53,010	62,269	53,010	115,279		17,292	
1	03	03	11	BXPM Engr Support Magnet Refurb (BCR_20%)	1-May-07	11-May-07	SL_ME2	Hrs	61				6,074		6,074	15.0%	911	
1	03	03	11	BXPM Refurb FFTB Dump Bends (qty 4)BCR_20%	1-May-07	1-Jun-07	SL_MFAT2	Hrs	122				10,484		10,484	15.0%	1,573	
1	03	03	11	BXPM Modify Gap FFTB Dump Bends (qty 4)BCR_25%	1-May-07	1-Jun-07	SL_MFMS2	Hrs	57				6,269		6,269	15.0%	940	
1	03	03	11	BXPM Modify Gap FFTB Dump Bends (qty 4)BCR_25%	1-May-07	1-Jun-07	SL_MFAT2	Hrs	114				9,796		9,796	15.0%	1,469	
1	03	03	11	BXPM Measure Regapped Bends (qty 4)BCR_25%	1-May-07	29-Jun-07	SL_ME2	Hrs	85				6,805		6,805	15.0%	1,021	
1	03	03	11	BXPM Support Design	1-May-07	30-Jul-07	SL_ME2	Hrs	112				11,153		11,153	15.0%	1,673	
1	03	03	11	BXPM Support Design	1-May-07	30-Jul-07	SL_MDD2	Hrs	140				11,688		11,688	15.0%	1,753	
1	03	03	11	Award - BXPM Support	28-Aug-07	28-Aug-07	SL_AWARD	\$\$			53,010		60,985		60,985	15.0%	9,148	
1	03	03	11	RCV: BXPM Fabricate Supports	25-Oct-07	25-Oct-07	SA_MSSY2	\$\$			53,010		53,010		53,010	15.0%	7,952	
1	03	03	12	Bend Magnet (BYKIK_LTU)							775	6,000	71,968	6,433	78,401		11,760	
1	03	03	12	BYKIK Design Kicker and Support	1-May-07	7-Jun-07	SL_ME2	Hrs	54				5,377		5,377	15.0%	807	
1	03	03	12	BYKIK Design Kicker and Support	1-May-07	7-Jun-07	SL_MDD2	Hrs	81				6,763		6,763	15.0%	1,014	
1	03	03	12	BYKIK Fabricate Kicker and Support	8-Jun-07	31-Aug-07	SL_MFMS2	Hrs	240				26,395		26,395	15.0%	3,959	
1	03	03	12	BYKIK Fabricate Kicker and Support	8-Jun-07	31-Aug-07	SL_MFAT2	Hrs	240				20,624		20,624	15.0%	3,094	
1	03	03	12	BYKIK Misc Materials for BYKIK	1-May-07	25-Jun-07	SL_MSEG2	\$\$			6,000		6,433		6,433	15.0%	965	
1	03	03	12	BYKIK Measure Kicker	9-Jul-07	31-Aug-07	SL_ME2	Hrs	160				12,809		12,809	15.0%	1,921	
1	03	03	14	BXKIK LINAC TCAV Screen Kicker							616	4,500	57,886	4,824	62,710		9,407	
1	03	03	14	BXKIK Perform Pulse Test	1-May-07	14-May-07	SL_ME2	Hrs	28				2,242		2,242	15.0%	336	
1	03	03	14	BXKIK Perform Pulse Test	1-May-07	14-May-07	SL_ME2	Hrs	56				5,576		5,576	15.0%	836	
1	03	03	14	BXKIK Design Kicker and Support	1-May-07	25-May-07	SL_ME2	Hrs	144				14,339		14,339	15.0%	2,151	
1	03	03	14	BXKIK Design Kicker and Support	1-May-07	25-May-07	SL_MDD2	Hrs	108				9,017		9,017	15.0%	1,353	
1	03	03	14	BXKIK Fabricate Kicker and Support	30-May-07	25-Jul-07	SL_MFMS2	Hrs	120				13,198		13,198	15.0%	1,980	
1	03	03	14	BXKIK Fabricate Kicker and Support	30-May-07	25-Jul-07	SL_MFAT2	Hrs	120				10,312		10,312	15.0%	1,547	
1	03	03	14	BXKIK Misc Materials	1-May-07	25-Jul-07	SL_MSEG2	\$\$			4,500		4,824		4,824	15.0%	724	
1	03	03	14	BXKIK Measure Kicker	26-Jul-07	9-Aug-07	SL_ME2	Hrs	40				3,202		3,202	15.0%	480	
1	03	04		Linac Vacuum Subsystem							6,573	1,054,229	610,519	1,126,803	1,737,322		356,257	
1	03	04	02	Linac Beamline Vacuum System							322	59,000	29,455	63,254	92,710		9,271	
1	03	04	02	Engineering Fabrication Support L2 Vacuum	1-May-07	5-Jun-07	SL_ME2	Hrs	48				4,780		4,780	10.0%	478	
1	03	04	02	RCV: L2 Vacuum Drifts and Supports	1-May-07	6-Jun-07	SL_MSEG2	\$\$			24,000		25,730		25,730	10.0%	2,573	
1	03	04	02	Vacuum Process L2 Drifts	1-May-07	2-Aug-07	SL_MFAT2	Hrs	64				5,500		5,500	10.0%	550	
1	03	04	02	Design L3 Vacuum Drifts and Supports	1-May-07	14-May-07	SL_ME2	Hrs	30				2,987		2,987	10.0%	299	
1	03	04	02	Design L3 Vacuum Drifts and Supports	1-May-07	14-May-07	SL_MDD2	Hrs	40				3,340		3,340	10.0%	334	
1	03	04	02	Engineering Fabrication Support L3 Vacuum	1-May-07	25-May-07	SL_ME2	Hrs	60				5,975		5,975	10.0%	597	
1	03	04	02	RCV: L3 Vacuum Drifts and Supports	29-May-07	29-May-07	SL_MSEG2	\$\$			30,000		32,163		32,163	10.0%	3,216	
1	03	04	02	Vacuum Process L3 Drifts	30-May-07	25-Jul-07	SL_MFAT2	Hrs	80				6,875		6,875	10.0%	687	
1	03	04	02	L2/L3 Misc Girder Hardware	29-May-07	24-Jul-07	SL_MSEG2	\$\$			5,000		5,361		5,361	10.0%	536	
1	03	04	04	BC2 Vacuum System							576	275,000	51,739	294,829	346,568		86,642	
1	03	04	04	Engineering Fab Support BC2 Vac & Articulation	1-May-07	15-Aug-07	SL_ME2	Hrs	96				9,559		9,559	25.0%	2,390	
1	03	04	04	Award - BC2 Vac & Articulation	30-May-07	30-May-07	SL_AWARD	\$\$			288,750		332,188		332,188	25.0%	83,047	
1	03	04	04	RCV: BC2 Vac & Articulation	17-Aug-07	17-Aug-07	SA_MSEG2	\$\$			275,000		294,829		294,829	25.0%	73,707	
1	03	04	04	Process Vacuum Chamber	20-Aug-07	21-Aug-07	SL_MFAT2	Hrs	120				10,312		10,312	25.0%	2,578	
1	03	04	04	Perform QC and Inspection	22-Aug-07	23-Aug-07	SL_ME2	Hrs	120				9,607		9,607	25.0%	2,402	
1	03	04	04	Perform Pre-Installation Qual Test	24-Aug-07	27-Aug-07	SL_MFAT2	Hrs	120				10,312		10,312	25.0%	2,578	
1	03	04	04	Perform Pre-Installation Qual Test	24-Aug-07	27-Aug-07	SL_ME2	Hrs	120				11,949		11,949	25.0%	2,987	
1	03	04	05	Linac to Undulator (LTU) Vacuum System							2,938	365,612	271,972	381,951	653,923		130,785	

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont %	Contingency \$
Description										Hours	\$	Labor	M&S	Total			
1	03	04	05	5	6	Design Undulator IN Assembly	1-May-07	31-Jul-07	SL_ME2	Hrs	6		597		597	20.0%	119
1	03	04	05			Design Undulator IN Assembly	1-May-07	31-Jul-07	SL_MDD2	Hrs	5		417		417	20.0%	83
1	03	04	05			Procure Undulator IN Assembly	1-Aug-07	26-Sep-07	SL_MSEG2	\$\$		7,654		8,206	8,206	20.0%	1,641
1	03	04	05			Vacuum Process Undulator IN Assembly	27-Sep-07	24-Oct-07	SL_MFAT2	Hrs	21		1,840		1,840	20.0%	368
1	03	04	05			Model Vacuum System (BCR_60%)	1-May-07	26-Jun-07	SL_ME2	Hrs	80		7,966		7,966	20.0%	1,593
1	03	04	05			Design Drifts (BCR_30%)	1-May-07	25-Jul-07	SL_ME2	Hrs	72		7,170		7,170	20.0%	1,434
1	03	04	05			Design Drifts (BCR_30%)	1-May-07	25-Jul-07	SL_MDD2	Hrs	180		15,028		15,028	20.0%	3,006
1	03	04	05			Design Drift Supports (BCR_30%)	1-May-07	2-Jul-07	SL_ME2	Hrs	49		4,879		4,879	20.0%	976
1	03	04	05			Design Drift Supports (BCR_30%)	1-May-07	2-Jul-07	SL_MDD2	Hrs	98		8,182		8,182	20.0%	1,636
1	03	04	05			Design Pump Supports	1-May-07	30-May-07	SL_ME2	Hrs	42		4,182		4,182	20.0%	836
1	03	04	05			Design Pump Supports	1-May-07	30-May-07	SL_MDD2	Hrs	105		8,766		8,766	20.0%	1,753
1	03	04	05			Engineering Support Purchasing	1-May-07	28-Aug-07	SL_ME2	Hrs	128		12,746		12,746	20.0%	2,549
1	03	04	05			Award - LTU Vacuum System	11-Sep-07	11-Sep-07	SL_AWARD	\$\$		236,250		271,790	271,790	20.0%	54,358
1	03	04	05			RCV: Vacuum Hardware	9-Oct-07	9-Oct-07	SA_MSEG2	\$\$		100,000		109,676	109,676	20.0%	21,935
1	03	04	05			RCV: Vacuum Drifts	9-Oct-07	9-Oct-07	SA_MSEG2	\$\$		50,000		54,838	54,838	20.0%	10,968
1	03	04	05			RCV: Drift Supports	9-Oct-07	9-Oct-07	SA_MSSY2	\$\$		75,750		75,750	75,750	20.0%	15,150
1	03	04	05			Purchase Pump Supports	12-Sep-07	8-Oct-07	SL_MSSY2	\$\$		56,400		56,400	56,400	20.0%	11,280
1	03	04	05			Vacuum Process Vacuum Hardware	10-Oct-07	30-Oct-07	SL_MFAT2	Hrs	280		24,614		24,614	20.0%	4,923
1	03	04	05			Vacuum Process Vacuum Hardware	10-Oct-07	30-Oct-07	SL_ME2	Hrs	240		24,448		24,448	20.0%	4,890
1	03	04	05			Vacuum Process Drifts	10-Oct-07	30-Oct-07	SL_MFAT2	Hrs	280		24,614		24,614	20.0%	4,923
1	03	04	05			Vacuum Process Drifts	10-Oct-07	30-Oct-07	SL_ME2	Hrs	240		24,448		24,448	20.0%	4,890
1	03	04	05			Design Dump Kicker Chamber	1-May-07	29-May-07	SL_ME2	Hrs	160		15,932		15,932	20.0%	3,186
1	03	04	05			Design Dump Kicker Chamber	1-May-07	29-May-07	SL_MDD2	Hrs	160		13,358		13,358	20.0%	2,672
1	03	04	05			Design Dump Kicker Chamber Supports	30-May-07	1-Aug-07	SL_ME2	Hrs	40		3,983		3,983	20.0%	797
1	03	04	05			Design Dump Kicker Chamber Supports	30-May-07	1-Aug-07	SL_MDD2	Hrs	120		10,019		10,019	20.0%	2,004
1	03	04	05			Fabricate Dump Kicker Chamber	30-May-07	20-Sep-07	SL_MFMS2	Hrs	80		8,798		8,798	20.0%	1,760
1	03	04	05			Fabricate Dump Kicker Chamber	30-May-07	20-Sep-07	SL_MFAT2	Hrs	80		6,875		6,875	20.0%	1,375
1	03	04	05			Dump Kicker Chamber Material	30-May-07	20-Sep-07	SL_MSEG2	\$\$		10,000		10,721	10,721	20.0%	2,144
1	03	04	05			Fabricate Dump Kicker Chamber Supports	2-Aug-07	1-Oct-07	SL_MSSY2	\$\$		58,154		58,154	58,154	20.0%	11,631
1	03	04	05			Fabricate Dump Kicker Chamber Supports	2-Aug-07	1-Oct-07	SL_MFMS2	Hrs	80		8,798		8,798	20.0%	1,760
1	03	04	05			Fabricate Dump Kicker Chamber Supports	2-Aug-07	1-Oct-07	SL_MFAT2	Hrs	80		6,875		6,875	20.0%	1,375
1	03	04	05			Vacuum Process Dump Chamber	2-Oct-07	22-Oct-07	SL_MFAT2	Hrs	280		24,614		24,614	20.0%	4,923
1	03	04	05			Design Undulator IN Assembly (BCR_20%)	1-May-07	30-May-07	SL_ME2	Hrs	6		597		597	20.0%	119
1	03	04	05			Design Undulator IN Assembly (BCR_20%)	1-May-07	30-May-07	SL_MDD2	Hrs	5		417		417	20.0%	83
1	03	04	05			Procure Undulator IN Assembly	31-May-07	26-Jul-07	SL_MSEG2	\$\$		7,654		8,206	8,206	20.0%	1,641
1	03	04	05			Vacuum Process Undulator IN Assembly	27-Jul-07	23-Aug-07	SL_MFAT2	Hrs	21		1,805		1,805	20.0%	361
1	03	04	06			Dumpline Vacuum System					2,200	87,654	206,861	93,974	300,836		60,189
1	03	04	06			Model Dump Vacuum System	1-May-07	14-May-07	SL_ME2	Hrs	18		1,792		1,792	15.0%	269
1	03	04	06			Design Dump Drifts	1-May-07	1-May-07	SL_ME2	Hrs	16		1,593		1,593	15.0%	239
1	03	04	06			Design Dump Drifts	1-May-07	1-May-07	SL_MDD2	Hrs	40		3,340		3,340	15.0%	501
1	03	04	06			Design Dump Drift Supports	1-May-07	27-Jun-07	SL_ME2	Hrs	44		4,381		4,381	15.0%	657
1	03	04	06			Design Dump Drift Supports	1-May-07	27-Jun-07	SL_MDD2	Hrs	66		5,510		5,510	15.0%	827
1	03	04	06			Design Dump Pump Supports	1-May-07	27-Jun-07	SL_ME2	Hrs	44		4,381		4,381	15.0%	657
1	03	04	06			Design Dump Pump Supports	1-May-07	27-Jun-07	SL_MDD2	Hrs	66		5,510		5,510	15.0%	827
1	03	04	06			Engineering Support Dump Vacuum Purchasing	1-May-07	25-Jul-07	SL_ME2	Hrs	64		6,373		6,373	15.0%	956
1	03	04	06			Purchase Dump Vacuum Hardware	1-May-07	25-Jul-07	SL_MSEG2	\$\$		40,000		42,884	42,884	15.0%	6,433
1	03	04	06			Purchase Dump Vacuum Drifts	2-May-07	26-Jul-07	SL_MSEG2	\$\$		15,000		16,082	16,082	15.0%	2,412
1	03	04	06			Purchase Dump Drift Supports	28-Jun-07	21-Sep-07	SL_MSEG2	\$\$		10,000		10,721	10,721	15.0%	1,608
1	03	04	06			Purchase Dump Pump Supports	28-Jun-07	21-Sep-07	SL_MSEG2	\$\$		10,000		10,721	10,721	15.0%	1,608
1	03	04	06			Vacuum Process Dump Vacuum Hardware	26-Jul-07	16-Nov-07	SL_MFAT2	Hrs	120		10,408		10,408	15.0%	1,561
1	03	04	06			Vacuum Process Dump Vacuum Hardware	26-Jul-07	16-Nov-07	SL_ME2	Hrs	80		8,041		8,041	15.0%	1,206
1	03	04	06			Vacuum Process Dump Drifts	27-Jul-07	19-Nov-07	SL_MFAT2	Hrs	120		10,413		10,413	15.0%	1,562
1	03	04	06			Vacuum Process Dump Drifts	27-Jul-07	19-Nov-07	SL_ME2	Hrs	80		8,044		8,044	15.0%	1,207
1	03	04	06			Design Dump Chamber	1-May-07	1-May-07	SL_ME2	Hrs	42		4,182		4,182	25.0%	1,046
1	03	04	06			Design Dump Chamber	1-May-07	1-May-07	SL_MDD2	Hrs	70		5,844		5,844	25.0%	1,461
1	03	04	06			Design Dump Chamber Supports	1-May-07	26-Jun-07	SL_ME2	Hrs	44		4,381		4,381	25.0%	1,095
1	03	04	06			Design Dump Chamber Supports	1-May-07	26-Jun-07	SL_MDD2	Hrs	88		7,347		7,347	25.0%	1,837
1	03	04	06			Fabricate Dump Chamber	27-Jun-07	20-Sep-07	SL_MFMS2	Hrs	160		17,597		17,597	25.0%	4,399
1	03	04	06			Fabricate Dump Chamber	27-Jun-07	20-Sep-07	SL_MFAT2	Hrs	120		10,312		10,312	25.0%	2,578
1	03	04	06			Dump Kicker Chamber Materials	2-May-07	26-Jul-07	SL_MSEG2	\$\$		2,500		2,680	2,680	25.0%	670
1	03	04	06			Fabricate Dump Chamber Supports	27-Jun-07	22-Aug-07	SL_MFMS2	Hrs	80		8,798		8,798	25.0%	2,200
1	03	04	06			Fabricate Dump Chamber Supports	27-Jun-07	22-Aug-07	SL_MFAT2	Hrs	80		6,875		6,875	25.0%	1,719
1	03	04	06			Vacuum Process Dump Chamber	21-Sep-07	18-Oct-07	SL_MFAT2	Hrs	40		3,487		3,487	25.0%	872
1	03	04	06			Design Safety Dump Chamber	1-May-07	1-Aug-07	SL_ME2	Hrs	18		1,792		1,792	25.0%	448
1	03	04	06			Design Safety Dump Chamber	1-May-07	1-Aug-07	SL_MDD2	Hrs	30		2,505		2,505	25.0%	626
1	03	04	06			Design Safety Dump Chamber Supports	6-Jun-07	1-Aug-07	SL_ME2	Hrs	52		5,178		5,178	25.0%	1,295
1	03	04	06			Design Safety Dump Chamber Supports	6-Jun-07	1-Aug-07	SL_MDD2	Hrs	104		8,683		8,683	25.0%	2,171
1	03	04	06			Fabricate Safety Dump Chamber	2-Aug-07	27-Sep-07	SL_MFMS2	Hrs	160		17,597		17,597	25.0%	4,399
1	03	04	06			Fabricate Safety Dump Chamber	2-Aug-07	27-Sep-07	SL_MFAT2	Hrs	120		10,312		10,312	25.0%	2,578
1	03	04	06			Safety Dump Chamber Materials	2-Aug-07	27-Sep-07	SL_MSEG2	\$\$		2,500		2,680	2,680	25.0%	670
1	03	04	06			Fabricate Safety Dump Chamber Supports	2-Aug-07	27-Sep-07	SL_MFMS2	Hrs	80		8,798		8,798	25.0%	2,200
1	03	04	06			Fabricate Safety Dump Chamber Supports	2-Aug-07	27-Sep-07	SL_MFAT2	Hrs	80		6,875		6,875	25.0%	1,719

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont %	Contingency \$	
Description											Hours	\$	Labor	M&S	Total			
1	03	04	06	5	6	Vacuum Process Safety Dump Chamber	28-Sep-07	25-Oct-07	SL_MFAT2	Hrs	40			3,508		3,508	25.0%	877
1	03	04	06			Design Undulator OUT Assembly	1-May-07	25-May-07	SL_ME2	Hrs	7			697		697	25.0%	174
1	03	04	06			Design Undulator OUT Assembly	1-May-07	25-May-07	SL_MDD2	Hrs	6			501		501	25.0%	125
1	03	04	06			Procure Undulator OUT Assembly	29-May-07	24-Jul-07	SL_MSEG2	\$\$		7,654		8,206		8,206	25.0%	2,051
1	03	04	06			Vacuum Process Undulator OUT Assembly	25-Jul-07	21-Aug-07	SL_MFAT2	Hrs	21			1,805		1,805	25.0%	451
1	03	04	07			Vacuum System Undulator Interface					159	-	14,259	-	14,259		3,565	
1	03	04	07	01		Entrance Section Assembly					78	-	6,986	-	6,986		1,747	
1	03	04	07	01		Prelim Design Ent Sec	1-May-07	12-Jun-07	SL_PHS2	Hrs	6			438		438	25.0%	109
1	03	04	07	01		Prelim Design Ent Sec	1-May-07	12-Jun-07	SL_MVE2	Hrs	24			2,541		2,541	25.0%	635
1	03	04	07	01		Prelim Design Ent Sec	1-May-07	12-Jun-07	SL_MDD2	Hrs	48			4,007		4,007	25.0%	1,002
1	03	04	07	02		Exit Section Assembly					81	-	7,273	-	7,273		1,818	
1	03	04	07	02		Prelim Prototype Design Exit Sec	1-May-07	14-May-07	SL_PHS2	Hrs	11			802		802	25.0%	201
1	03	04	07	02		Prelim Prototype Design Exit Sec	1-May-07	14-May-07	SL_MVE2	Hrs	28			2,965		2,965	25.0%	741
1	03	04	07	02		Prelim Prototype Design Exit Sec	1-May-07	14-May-07	SL_MDD2	Hrs	42			3,507		3,507	25.0%	877
1	03	04	08			LTU/BSY& Cold Trap Vacuum System					378	266,963	36,231	292,795	329,026		65,805	
1	03	04	08			Generate Cold Trap Specifications	1-May-07	1-Jun-07	SL_ME2	Hrs	18			1,792		1,792	20.0%	358
1	03	04	08			Purchase Cold Trap and Support	2-Oct-07	28-Nov-07	SL_ME2	Hrs	40			4,075		4,075	20.0%	815
1	03	04	08			RCV: Cold Trap from Vendor	28-Mar-08	28-Mar-08	SL_MSEG2	\$\$		261,963		287,311		287,311	20.0%	57,462
1	03	04	08			Misc Materials Cold Trap	31-Mar-08	25-Apr-08	SL_MSEG2	\$\$		5,000		5,484		5,484	20.0%	1,097
1	03	04	08			Test & Process Cold Trap	31-Mar-08	23-May-08	SL_MFAT2	Hrs	80			7,033		7,033	20.0%	1,407
1	03	04	08			Test & Process Cold Trap	31-Mar-08	23-May-08	SL_ME2	Hrs	80			8,149		8,149	20.0%	1,630
1	03	04	08			Field Qualify Cold Trap (thru LTU Install)	27-May-08	3-Sep-08	SL_MFAT2	Hrs	80			7,033		7,033	20.0%	1,407
1	03	04	08			Field Qualify Cold Trap (thru LTU Install)	27-May-08	3-Sep-08	SL_ME2	Hrs	80			8,149		8,149	20.0%	1,630
1	03	05				Linac Electron Diagnostics Summary					11,445	1,403,029	1,116,587	1,457,546	2,574,133		483,324	
1	03	05	01			Wire Scanners (11) Summary					154	138,279	14,779	148,249	163,028		8,151	
1	03	05	01			RCV: Wire Scanner Components from Vendor	11-Jun-07	11-Jun-07	SL_MSEG2	\$\$		124,000		132,941		132,941	5.0%	6,647
1	03	05	01			Procure Misc Materials - Wire Scanners	1-May-07	25-May-07	SL_MSEG2	\$\$		7,873		8,441		8,441	5.0%	422
1	03	05	01			Component Fab & Assembly - Wire Scanners	29-May-07	13-Jun-07	SL_MFPC2	Hrs	18			3,108		3,108	5.0%	155
1	03	05	01			Component Fab & Assembly - Wire Scanners	29-May-07	13-Jun-07	SL_MFMS2	Hrs	12			1,320		1,320	5.0%	66
1	03	05	01			Component Fab & Assembly - Wire Scanners	29-May-07	13-Jun-07	SL_MFAT2	Hrs	70			6,015		6,015	5.0%	301
1	03	05	01			Vendor Fab Supports	1-May-07	4-Jun-07	SL_MSEG2	\$\$		4,659		4,995		4,995	5.0%	250
1	03	05	01			Procure Misc. Materials - Wire Scanner Support	1-May-07	4-Jun-07	SL_MSEG2	\$\$		1,747		1,873		1,873	5.0%	94
1	03	05	01			Perform Functional Testing - Wire Scanners	1-May-07	27-Jun-07	SL_CCA2	Hrs	15			985		985	5.0%	49
1	03	05	01			Post Process & Test	1-May-07	12-Jul-07	SL_MFAT2	Hrs	39			3,351		3,351	5.0%	168
1	03	05	02			Beam Position Monitors					497	195,000	51,749	195,721	247,470		49,494	
1	03	05	02	03		BPM - FFTB (12) Summary					497	195,000	51,749	195,721	247,470		49,494	
1	03	05	02	03		Create / Remodel / Revise Dsn Documentation	1-May-07	29-May-07	SL_MDD2	Hrs	16			1,336		1,336	20.0%	267
1	03	05	02	03		Design Check	1-May-07	29-May-07	SL_MDD2	Hrs	7			584		584	20.0%	117
1	03	05	02	03		Write Component Traveler	25-May-07	29-May-07	SL_ME2	Hrs	17			1,693		1,693	20.0%	339
1	03	05	02	03		Conduct Prelim Design Review (PDR) - FFTB BPMs	29-May-07	29-May-07	SL_ME2	Hrs	1			100		100	20.0%	20
1	03	05	02	03		Generate Detailed Procurement Plan	30-May-07	12-Jun-07	SL_ME2	Hrs	5			498		498	20.0%	100
1	03	05	02	03		Conduct Final Design Review (FDR) - FFTB BPMs	13-Jun-07	13-Jun-07	SL_ME2	Hrs	3			299		299	20.0%	60
1	03	05	02	03		Procure Component Material - BPMs	15-Jun-07	21-Jun-07	SL_MSEG2	\$\$		10,000		10,721		10,721	20.0%	2,144
1	03	05	02	03		Component Fab & Assembly - BPMs	22-Jun-07	17-Aug-07	SL_MSSY2	\$\$		185,000		185,000		185,000	20.0%	37,000
1	03	05	02	03		Component Fab & Assembly - BPMs	22-Jun-07	17-Aug-07	SL_MFPC2	Hrs	40			6,906		6,906	20.0%	1,381
1	03	05	02	03		Component Fab & Assembly - BPMs	22-Jun-07	17-Aug-07	SL_MFMS2	Hrs	240			26,395		26,395	20.0%	5,279
1	03	05	02	03		Component Fab & Assembly - BPMs	22-Jun-07	17-Aug-07	SL_MFAT2	Hrs	80			6,875		6,875	20.0%	1,375
1	03	05	02	03		Perform QC / Metrology	20-Aug-07	24-Aug-07	SL_MES2	Hrs	33			2,642		2,642	20.0%	528
1	03	05	02	03		Perform Functional Testing - BPMs	27-Aug-07	28-Aug-07	SL_CCA2	Hrs	15			985		985	20.0%	197
1	03	05	02	03		Post Process & Test	29-Aug-07	5-Sep-07	SL_MFAT2	Hrs	40			3,437		3,437	20.0%	687
1	03	05	03			Toroid Beam Current Monitor (10) Summary					92	51,400	7,847	56,092	63,939		12,788	
1	03	05	03			Receive Toroids	29-May-07	29-May-07	SL_MSEG2	\$\$		11,400		12,222		12,222	20.0%	2,444
1	03	05	03			Perform Functional Testing - Toroids	22-May-07	29-May-07	SL_CCA2	Hrs	6			394		394	20.0%	79
1	03	05	03			Post Process & Test	22-May-07	29-May-07	SL_MFAT2	Hrs	10			859		859	20.0%	172
1	03	05	03			Purchase Dump Toroid	1-May-07	25-May-07	SL_ME2	Hrs	22			2,191		2,191	20.0%	438
1	03	05	03			Coat Dump Toroid Ceramic	1-May-07	21-Aug-07	SL_MFAT2	Hrs	6			516		516	20.0%	103
1	03	05	03			Receive Dump Toroid	15-Nov-07	15-Nov-07	SL_MSEG2	\$\$		40,000		43,870		43,870	20.0%	8,774
1	03	05	03			Perform Functional Testing Dump Toroid	16-Nov-07	3-Dec-07	SL_CCA2	Hrs	16			1,074		1,074	20.0%	215
1	03	05	03			Post Process & Test Dump Toroid	4-Dec-07	19-Dec-07	SL_MFAT2	Hrs	32			2,813		2,813	20.0%	563
1	03	05	04			Beam Stoppers (4) Summary					472	17,000	50,935	18,226	69,161		13,832	
1	03	05	04			Conduct Stoppers FDR	1-Aug-07	3-Aug-07	SL_ME2	Hrs	12			1,195		1,195	20.0%	239
1	03	05	04			Procure Component Material - Stoppers	6-Aug-07	31-Aug-07	SL_MSEG2	\$\$		12,000		12,865		12,865	20.0%	2,573
1	03	05	04			Component Fab & Assembly - Stoppers	4-Sep-07	1-Oct-07	SL_MFPC2	Hrs	60			10,360		10,360	20.0%	2,072
1	03	05	04			Component Fab & Assembly - Stoppers	4-Sep-07	1-Oct-07	SL_MFMS2	Hrs	200			21,996		21,996	20.0%	4,399
1	03	05	04			Component Fab & Assembly - Stoppers	4-Sep-07	1-Oct-07	SL_MFAT2	Hrs	100			8,593		8,593	20.0%	1,719
1	03	05	04			Perform Functional Testing - Stoppers	2-Oct-07	15-Oct-07	SL_MFAT2	Hrs	50			4,395		4,395	20.0%	879
1	03	05	04			Post Process & Test	16-Oct-07	29-Oct-07	SL_MFAT2	Hrs	50			4,395		4,395	20.0%	879
1	03	05	04			Vendor Fab 1st Lot - Supports	14-Aug-07	11-Sep-07	SL_MSEG2	\$\$		4,000		4,288		4,288	20.0%	858
1	03	05	04			Procure Misc Materials - Diagnostics Supports	6-Aug-07	17-Aug-07	SL_MSEG2	\$\$		1,000		1,072		1,072	20.0%	214
1	03	05	05			Profile Monitors (7 OTR-3 PHOSPHOR SCREEN-1 YAG)					1,560	554,460	149,699	570,392	720,091		144,018	
1	03	05	05			Conduct Profile Monitors FDR	5-Jun-07	11-Jun-07	SL_ME2	Hrs	40			3,983		3,983	20.0%	797
1	03	05	05			Prep Bid Pak - Profile Monitors	1-May-07	7-May-07	SL_ME2	Hrs	40			3,983		3,983	20.0%	797

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early	Early	Res	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont	Contingency
						Description	Start	Finish	Code		Hours	\$	Labor	M&S	Total	%	\$
1	03	05	05	5	6	AWARD: Contract - Profile Monitor L03-LTU	8-May-07	8-May-07	SL_AWARD	\$\$		478,400		550,368	550,368	25.0%	137,592
1	03	05	05	RCV: Profile Monitors 1st Lot	29-May-07	29-May-07	SA_MSEG2	\$\$		69,000		73,975	73,975	20.0%	14,795		
1	03	05	05	RCV: Profile Monitors Final Lot	6-Jul-07	6-Jul-07	SA_MSSY2	\$\$		333,500		333,500	333,500	20.0%	66,700		
1	03	05	05	RCV: Profile Monitors Final Lot	6-Jul-07	6-Jul-07	SA_MSEG2	\$\$		69,000		73,975	73,975	20.0%	14,795		
1	03	05	05	Procure Profile Monitor Components	14-May-07	11-Jun-07	SL_MSEG2	\$\$		57,000		61,110	61,110	20.0%	12,222		
1	03	05	05	Procure Component Material - Profile Monitors	14-May-07	11-Jun-07	SL_MSEG2	\$\$		6,080		6,518	6,518	20.0%	1,304		
1	03	05	05	Component Fab & Assembly - Profile Monitors	9-Jul-07	3-Aug-07	SL_MFPC2	Hrs	160		27,626		27,626	20.0%	5,525		
1	03	05	05	Component Fab & Assembly - Profile Monitors	9-Jul-07	3-Aug-07	SL_MFMS2	Hrs	160		17,597		17,597	20.0%	3,519		
1	03	05	05	Component Fab & Assembly - Profile Monitors	9-Jul-07	3-Aug-07	SL_MFAT2	Hrs	400		34,373		34,373	20.0%	6,875		
1	03	05	05	Perform QC / Metrology	6-Aug-07	10-Aug-07	SL_MES2	Hrs	80		6,405		6,405	20.0%	1,281		
1	03	05	05	Perform Functional Testing - Profile Monitors	13-Aug-07	17-Aug-07	SL_CCA2	Hrs	160		10,502		10,502	20.0%	2,100		
1	03	05	05	Post Process & Test	20-Aug-07	24-Aug-07	SL_MFAT2	Hrs	160		13,749		13,749	20.0%	2,750		
1	03	05	05	Procure Misc Materials - Diagnostics Supports	12-Jun-07	10-Jul-07	SL_MSEG2	\$\$		2,400		2,573	2,573	20.0%	515		
1	03	05	05	Prep Bid Bak - Supports	12-Jun-07	18-Jun-07	SL_ME2	Hrs	40		3,983		3,983	20.0%	797		
1	03	05	05	AWARD: Contract for Supports L03-LTU	19-Jun-07	19-Jun-07	SL_AWARD	\$\$		18,354		21,115	21,115	25.0%	5,279		
1	03	05	05	RCV: Supports from Vendor	26-Jul-07	26-Jul-07	SA_MSEG2	\$\$		17,480		18,740	18,740	20.0%	3,748		
1	03	05	05	Assemble Supports	27-Jul-07	23-Aug-07	SL_MFAT2	Hrs	320		27,498		27,498	20.0%	5,500		
1	03	05	07	CSR/OTR/CTR Bunch Length Monitors (5) Summary						1,237	50,000	118,239	53,605	171,844		34,369	
1	03	05	07	BL21 Develop Specifications/Analysis	1-May-07	30-May-07	SL_PHSS2	Hrs	80		7,425		7,425	20.0%	1,485		
1	03	05	07	BL21 Develop Specifications/Analysis	1-May-07	30-May-07	SL_ME2	Hrs	40		3,983		3,983	20.0%	797		
1	03	05	07	BL21 Develop Specifications/Analysis	1-May-07	30-May-07	SL_MDD2	Hrs	20		1,670		1,670	20.0%	334		
1	03	05	07	BL21 Engineering & Design	23-May-07	30-May-07	SL_PHSS2	Hrs	64		5,940		5,940	20.0%	1,188		
1	03	05	07	BL21 Engineering & Design	23-May-07	30-May-07	SL_ME2	Hrs	128		12,746		12,746	20.0%	2,549		
1	03	05	07	BL21 Engineering & Design	23-May-07	30-May-07	SL_MDD2	Hrs	160		13,358		13,358	20.0%	2,672		
1	03	05	07	BL21 Materials & Hardware	31-May-07	13-Jun-07	SL_MSEG2	\$\$		50,000		53,605	53,605	20.0%	10,721		
1	03	05	07	BL21 Fabrication Vacuum Assembly	14-Jun-07	9-Aug-07	SL_PHSS2	Hrs	16		1,485		1,485	20.0%	297		
1	03	05	07	BL21 Fabrication Vacuum Assembly	14-Jun-07	9-Aug-07	SL_MFPC2	Hrs	8		1,381		1,381	20.0%	276		
1	03	05	07	BL21 Fabrication Vacuum Assembly	14-Jun-07	9-Aug-07	SL_MFMS2	Hrs	80		8,798		8,798	20.0%	1,760		
1	03	05	07	BL21 Fabrication Vacuum Assembly	14-Jun-07	9-Aug-07	SL_MFAT2	Hrs	80		6,875		6,875	20.0%	1,375		
1	03	05	07	BL21 Fabrication Vacuum Assembly	14-Jun-07	9-Aug-07	SL_MES2	Hrs	20		1,601		1,601	20.0%	320		
1	03	05	07	BL21 Fabrication Vacuum Assembly	14-Jun-07	9-Aug-07	SL_ME2	Hrs	16		1,593		1,593	20.0%	319		
1	03	05	07	BL21 Fabrication Optics Assembly	31-May-07	26-Jul-07	SL_PHSS2	Hrs	16		1,485		1,485	20.0%	297		
1	03	05	07	BL21 Fabrication Optics Assembly	31-May-07	26-Jul-07	SL_MFPC2	Hrs	24		4,144		4,144	20.0%	829		
1	03	05	07	BL21 Fabrication Optics Assembly	31-May-07	26-Jul-07	SL_MFMS2	Hrs	80		8,798		8,798	20.0%	1,760		
1	03	05	07	BL21 Fabrication Optics Assembly	31-May-07	26-Jul-07	SL_MFAT2	Hrs	80		6,875		6,875	20.0%	1,375		
1	03	05	07	BL21 Fabrication Optics Assembly	31-May-07	26-Jul-07	SL_MES2	Hrs	40		3,202		3,202	20.0%	640		
1	03	05	07	BL21 Fabrication Optics Assembly	31-May-07	26-Jul-07	SL_ME2	Hrs	16		1,593		1,593	20.0%	319		
1	03	05	07	BL21 Fabricate Supports	31-May-07	26-Jul-07	SL_MFMS2	Hrs	40		4,399		4,399	20.0%	880		
1	03	05	07	BL21 Fabricate Supports	31-May-07	26-Jul-07	SL_MFAT2	Hrs	40		3,437		3,437	20.0%	687		
1	03	05	07	BL21 QC/Fiducialization	10-Aug-07	23-Aug-07	SL_PHSS2	Hrs	8		743		743	20.0%	149		
1	03	05	07	BL21 QC/Fiducialization	10-Aug-07	23-Aug-07	SL_MES2	Hrs	40		3,202		3,202	20.0%	640		
1	03	05	07	BL21 Vacuum Prep	10-Aug-07	23-Aug-07	SL_MFAT2	Hrs	40		3,437		3,437	20.0%	687		
1	03	05	07	BL21 Vacuum Prep	10-Aug-07	23-Aug-07	SL_ME2	Hrs	8		797		797	20.0%	159		
1	03	05	07	BL21 Testing	27-Jul-07	23-Aug-07	SL_PHSS2	Hrs	40		3,713		3,713	20.0%	743		
1	03	05	07	BL21 Testing	27-Jul-07	23-Aug-07	SL_ME2	Hrs	40		3,983		3,983	20.0%	797		
1	03	05	07	Component Fab & Assembly - Bunch Length Monit	1-May-07	14-May-07	SL_MFPC2	Hrs	5		863		863	20.0%	173		
1	03	05	07	Component Fab & Assembly - Bunch Length Monit	1-May-07	14-May-07	SL_MFMS2	Hrs	1		110		110	20.0%	22		
1	03	05	07	Component Fab & Assembly - Bunch Length Monit	1-May-07	14-May-07	SL_MFAT2	Hrs	7		602		602	20.0%	120		
1	03	05	08	Beam Loss Monitors						1,439	52,640	145,791	56,436	202,227		30,334	
1	03	05	08	PIC Beam Loss Monitors (10) Summary						533	29,320	48,529	31,434	79,963		11,994	
1	03	05	08	01	Produce Common Layout	1-May-07	7-May-07	SL_MDD2	Hrs	50		4,174		4,174	15.0%	626	
1	03	05	08	01	Develop General Specifications / Analysis	8-May-07	21-May-07	SL_ME2	Hrs	30		2,987		2,987	15.0%	448	
1	03	05	08	01	Revise Design Documentation	8-May-07	21-May-07	SL_MDD2	Hrs	50		4,174		4,174	15.0%	626	
1	03	05	08	01	Write Component Traveler	22-May-07	29-May-07	SL_ME2	Hrs	15		1,494		1,494	15.0%	224	
1	03	05	08	01	Generate Detailed Procurement Plan	30-May-07	5-Jun-07	SL_ME2	Hrs	20		1,992		1,992	15.0%	299	
1	03	05	08	01	Conduct Beam Loss Monitors FDR	6-Jun-07	12-Jun-07	SL_ME2	Hrs	20		1,992		1,992	15.0%	299	
1	03	05	08	01	Procure Component Material - Beam Loss Monitors	13-Jun-07	18-Jul-07	SL_MSEG2	\$\$		24,000		25,730	25,730	15.0%	3,860	
1	03	05	08	01	Component Fab & Assembly - Beam Loss Monitors	19-Jul-07	15-Aug-07	SL_MFMS2	Hrs	100		10,998		10,998	15.0%	1,650	
1	03	05	08	01	Component Fab & Assembly - Beam Loss Monitors	19-Jul-07	15-Aug-07	SL_MFAT2	Hrs	80		6,875		6,875	15.0%	1,031	
1	03	05	08	01	Perform Functional Testing - Beam Loss Monit	2-Aug-07	15-Aug-07	SL_CCA2	Hrs	40		2,625		2,625	15.0%	394	
1	03	05	08	01	Post Process & Test	2-Aug-07	15-Aug-07	SL_MFAT2	Hrs	40		3,437		3,437	15.0%	516	
1	03	05	08	01	Prep Bid Pak - Diagnostics Supports	13-Jun-07	13-Jun-07	SL_ME2	Hrs	16		1,593		1,593	15.0%	239	
1	03	05	08	01	Vendor Fab Supports	15-Jun-07	6-Jul-07	SL_MSEG2	\$\$		4,320		4,631	4,631	15.0%	695	
1	03	05	08	01	Procure Misc Materials - Diagnostics Supports	9-Jul-07	1-Aug-07	SL_MSEG2	\$\$		1,000		1,072	1,072	15.0%	161	
1	03	05	08	01	Assemble Supports	2-Aug-07	27-Aug-07	SL_MFAT2	Hrs	72		6,187		6,187	15.0%	928	
1	03	05	08	02	PLIC Beam Loss Monitors (2) Summary					906	23,320	97,263	25,001	122,264		18,340	
1	03	05	08	02	Revise Design Documentation	1-May-07	7-May-07	SL_MDD2	Hrs	80		6,679		6,679	15.0%	1,002	
1	03	05	08	02	Write Component Traveler	8-May-07	14-May-07	SL_ME2	Hrs	20		1,992		1,992	15.0%	299	
1	03	05	08	02	Conduct Beam Loss Monitors PDR	15-May-07	21-May-07	SL_ME2	Hrs	20		1,992		1,992	15.0%	299	
1	03	05	08	02	Generate Detailed Procurement Plan	22-May-07	22-May-07	SL_ME2	Hrs	10		996		996	15.0%	149	
1	03	05	08	02	Conduct Beam Loss Monitors FDR	23-May-07	30-May-07	SL_ME2	Hrs	20		1,992		1,992	15.0%	299	
1	03	05	08	02	Procure Component Material - Beam Loss Monitors	31-May-07	20-Jun-07	SL_MSEG2	\$\$		18,000		19,298	19,298	15.0%	2,895	

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont %	Contingency \$
Description											Hours	\$	Labor	M&S	Total		
1	03	05	08	02	6	Component Fab & Assembly - Beam Loss Monitors	21-Jun-07	23-Aug-07	SL_MFPC2	Hrs	180		31,079		31,079	15.0%	4,662
1	03	05	08	02	Component Fab & Assembly - Beam Loss Monitors	21-Jun-07	23-Aug-07	SL_MFMS2	Hrs	180		19,797		19,797	15.0%	2,969	
1	03	05	08	02	Component Fab & Assembly - Beam Loss Monitors	21-Jun-07	23-Aug-07	SL_MFAT2	Hrs	180		15,468		15,468	15.0%	2,320	
1	03	05	08	02	Perform Functional Testing - Beam Loss Monito	24-Aug-07	21-Sep-07	SL_CCA2	Hrs	80		5,251		5,251	15.0%	788	
1	03	05	08	02	Post Process & Test	24-Sep-07	19-Oct-07	SL_MFAT2	Hrs	80		6,988		6,988	15.0%	1,048	
1	03	05	08	02	Prep Bid Pak - Diagnostics Supports	31-May-07	31-May-07	SL_ME2	Hrs	16		1,593		1,593	15.0%	239	
1	03	05	08	02	Vendor Fab Supports	4-Jun-07	30-Jul-07	SL_MSEG2	\$\$		4,320		4,631	4,631	15.0%	695	
1	03	05	08	02	Procure Misc Materials - Diagnostics Supports	31-Jul-07	27-Aug-07	SL_MSEG2	\$\$		1,000		1,072	1,072	15.0%	161	
1	03	05	08	02	Assemble Supports	28-Aug-07	11-Sep-07	SL_MFAT2	Hrs	40		3,437		3,437	15.0%	516	
1	03	05	09	Single Beam Dump (1) Summary							1,090	11,200	98,921	12,008	110,928		38,825
1	03	05	09	Produce Common Layout	1-May-07	29-May-07	SL_MDD2	Hrs	200		16,698		16,698	35.0%	5,844		
1	03	05	09	Develop General Specifications / Analysis	15-May-07	29-May-07	SL_ME2	Hrs	120		11,949		11,949	35.0%	4,182		
1	03	05	09	Create / Remodel / Revise Dsn Documentation	30-May-07	12-Jun-07	SL_MDD2	Hrs	320		26,716		26,716	35.0%	9,351		
1	03	05	09	Design Check	13-Jun-07	18-Jul-07	SL_MDD2	Hrs	100		8,349		8,349	35.0%	2,922		
1	03	05	09	Write Component Traveler	13-Jun-07	19-Jun-07	SL_ME2	Hrs	50		4,979		4,979	35.0%	1,743		
1	03	05	09	Generate Detailed Procurement Plan	20-Jun-07	20-Jun-07	SL_ME2	Hrs	10		996		996	35.0%	349		
1	03	05	09	Procure Component Material - Single Beam Dump	19-Jul-07	15-Aug-07	SL_MSEG2	\$\$		7,200		7,719	7,719	35.0%	2,702		
1	03	05	09	Component Fab & Assembly - Single Beam Dump	16-Aug-07	29-Aug-07	SL_MFPC2	Hrs	40		6,906		6,906	35.0%	2,417		
1	03	05	09	Component Fab & Assembly - Single Beam Dump	16-Aug-07	29-Aug-07	SL_MFMS2	Hrs	40		4,399		4,399	35.0%	1,540		
1	03	05	09	Post Process & Test	30-Aug-07	13-Sep-07	SL_MFAT2	Hrs	120		10,312		10,312	35.0%	3,609		
1	03	05	09	Vendor Fab Supports	25-Jun-07	30-Jul-07	SL_MSEG2	\$\$		3,000		3,216	3,216	35.0%	1,126		
1	03	05	09	Procure Misc Materials - Diagnostics Supports	31-Jul-07	27-Aug-07	SL_MSEG2	\$\$		1,000		1,072	1,072	35.0%	375		
1	03	05	09	Perform QC & Inspection - Diagnostic Supports	28-Aug-07	4-Sep-07	SL_MES2	Hrs	20		1,601		1,601	35.0%	560		
1	03	05	09	Assemble Supports	5-Sep-07	11-Sep-07	SL_MFAT2	Hrs	70		6,015		6,015	35.0%	2,105		
1	03	05	10	Electron Beam Dump (1) Summary							1,194	16,000	114,091	17,154	131,245		26,249
1	03	05	10	Engineering Analysis	1-May-07	29-May-07	SL_ME2	Hrs	80		7,966		7,966	20.0%	1,593		
1	03	05	10	Produce Common Layout	1-May-07	29-May-07	SL_MDD2	Hrs	80		6,679		6,679	20.0%	1,336		
1	03	05	10	Develop General Specifications / Analysis	1-May-07	5-Jun-07	SL_ME2	Hrs	100		9,958		9,958	20.0%	1,992		
1	03	05	10	Create / Remodel / Revise Dsn Documentation	1-May-07	14-May-07	SL_MDD2	Hrs	180		15,028		15,028	20.0%	3,006		
1	03	05	10	Write Component Traveler	1-May-07	1-May-07	SL_ME2	Hrs	16		1,593		1,593	20.0%	319		
1	03	05	10	Conduct Electron Beam Dump PDR	2-May-07	2-May-07	SL_ME2	Hrs	10		996		996	20.0%	199		
1	03	05	10	Generate Detailed Procurement Plan	3-May-07	3-May-07	SL_ME2	Hrs	16		1,593		1,593	20.0%	319		
1	03	05	10	Conduct Electron Beam Dump FDR	2-Jul-07	2-Jul-07	SL_ME2	Hrs	10		996		996	20.0%	199		
1	03	05	10	Procure Component Material - Electron Beam Dump	3-Jul-07	31-Jul-07	SL_MSEG2	\$\$		12,000		12,865	12,865	20.0%	2,573		
1	03	05	10	Component Fab & Assembly - Electron Beam Dump	1-Aug-07	28-Aug-07	SL_MFPC2	Hrs	80		13,813		13,813	20.0%	2,763		
1	03	05	10	Component Fab & Assembly - Electron Beam Dump	1-Aug-07	28-Aug-07	SL_MFMS2	Hrs	80		8,798		8,798	20.0%	1,760		
1	03	05	10	Component Fab & Assembly - Electron Beam Dump	1-Aug-07	28-Aug-07	SL_MFAT2	Hrs	320		27,498		27,498	20.0%	5,500		
1	03	05	10	Perform QC / Metrology	29-Aug-07	5-Sep-07	SL_MES2	Hrs	30		2,402		2,402	20.0%	480		
1	03	05	10	Post Process & Test	6-Sep-07	19-Sep-07	SL_MFAT2	Hrs	80		6,875		6,875	20.0%	1,375		
1	03	05	10	Prep Bid Pak - Diagnostics Supports	3-Jul-07	3-Jul-07	SL_ME2	Hrs	16		1,593		1,593	20.0%	319		
1	03	05	10	Evaluate Vendor Proposals - Supports	5-Jul-07	5-Jul-07	SL_ME2	Hrs	10		996		996	20.0%	199		
1	03	05	10	Vendor Fab Diagnostics Supports	9-Jul-07	3-Aug-07	SL_MSEG2	\$\$		3,000		3,216	3,216	20.0%	643		
1	03	05	10	Procure Misc Materials - Diagnostics Supports	6-Aug-07	17-Sep-07	SL_MSEG2	\$\$		1,000		1,072	1,072	20.0%	214		
1	03	05	10	Perform QC & Inspection - Diagnostic Supports	18-Sep-07	18-Sep-07	SL_MES2	Hrs	16		1,281		1,281	20.0%	256		
1	03	05	10	Assemble Supports	19-Sep-07	2-Oct-07	SL_MFAT2	Hrs	70		6,026		6,026	20.0%	1,205		
1	03	05	11	Protection Collimators (5) Summary							1,936	89,000	177,370	94,164	271,535		40,730
1	03	05	11	Create / Remodel / Revise Dsn Documentation	1-Jun-07	27-Jul-07	SL_MDD2	Hrs	480		40,075		40,075	15.0%	6,011		
1	03	05	11	Design Check	1-Jun-07	27-Jul-07	SL_MDD2	Hrs	480		40,075		40,075	15.0%	6,011		
1	03	05	11	Write Component Traveler	30-Jul-07	2-Aug-07	SL_ME2	Hrs	32		3,186		3,186	15.0%	478		
1	03	05	11	Conduct Protection Collimator PDR	3-Aug-07	3-Aug-07	SL_ME2	Hrs	8		797		797	15.0%	119		
1	03	05	11	Generate Detailed Procurement Plan	6-Aug-07	6-Aug-07	SL_ME2	Hrs	10		996		996	15.0%	149		
1	03	05	11	Conduct Protection Collimator FDR	7-Aug-07	7-Aug-07	SL_ME2	Hrs	4		398		398	15.0%	60		
1	03	05	11	Prep Bid Pak - Protection Collimator	8-Aug-07	9-Aug-07	SL_ME2	Hrs	10		996		996	15.0%	149		
1	03	05	11	Evaluate Vendor Proposals	24-Aug-07	29-Aug-07	SL_ME2	Hrs	20		1,992		1,992	15.0%	299		
1	03	05	11	AWARD: Contract - Protection Collimator	30-Aug-07	30-Aug-07	SL_AWARD	\$\$		69,600		80,070	80,070	25.0%	20,018		
1	03	05	11	RCV: 1st Lot Diagnostics Equip from Vendor	17-Sep-07	17-Sep-07	SA_MSSY2	\$\$		19,200		19,200	19,200	15.0%	2,880		
1	03	05	11	RCV: 1st Lot Diagnostics Equip from Vendor	17-Sep-07	17-Sep-07	SA_MSEG2	\$\$		48,000		51,461	51,461	15.0%	7,719		
1	03	05	11	Procure Component Material - Protection Collimat	8-Aug-07	5-Sep-07	SL_MSEG2	\$\$		6,000		6,433	6,433	15.0%	965		
1	03	05	11	Component Fab & Assembly - Protection Collimat	18-Sep-07	15-Oct-07	SL_MFPC2	Hrs	80		13,978		13,978	15.0%	2,097		
1	03	05	11	Component Fab & Assembly - Protection Collimat	18-Sep-07	15-Oct-07	SL_MFMS2	Hrs	160		17,807		17,807	15.0%	2,671		
1	03	05	11	Component Fab & Assembly - Protection Collimat	18-Sep-07	15-Oct-07	SL_MFAT2	Hrs	480		41,739		41,739	15.0%	6,261		
1	03	05	11	Post Process & Test	16-Oct-07	29-Oct-07	SL_MFAT2	Hrs	80		7,033		7,033	15.0%	1,055		
1	03	05	11	Prep Bid Pak - Diagnostics Supports	8-Aug-07	8-Aug-07	SL_ME2	Hrs	6		597		597	15.0%	90		
1	03	05	11	Prep Bid Pak - Diagnostics Supports	8-Aug-07	8-Aug-07	SL_MDD2	Hrs	10		835		835	15.0%	125		
1	03	05	11	Evaluate Vendor Proposals - Supports	7-Sep-07	12-Sep-07	SL_ME2	Hrs	16		1,593		1,593	15.0%	239		
1	03	05	11	Vendor Fab 1st Lot - Supports	14-Sep-07	11-Oct-07	SL_MSEG2	\$\$		14,400		15,570	15,570	15.0%	2,335		
1	03	05	11	Procure Misc Materials - Diagnostics Supports	8-Aug-07	5-Sep-07	SL_MSEG2	\$\$		1,400		1,501	1,501	15.0%	225		
1	03	05	11	Assemble Supports	12-Oct-07	19-Oct-07	SL_MFAT2	Hrs	60		5,275		5,275	15.0%	791		
1	03	05	12	Movable Collimators (7x.3y) Summary							1,445	204,800	157,824	210,568	368,392		73,678
1	03	05	12	Perform Func Test - Movable Collimat (BCR_50%)	1-May-07	14-May-07	SL_CCA2	Hrs	40		2,625		2,625	20.0%	525		
1	03	05	12	Post Process & Test (BCR_50%)	1-May-07	15-May-07	SL_MFAT2	Hrs	44		3,781		3,781	20.0%	756		
1	03	05	12	AWARD: Contract - LTU Movable Collimator	1-May-07	1-May-07	SL_AWARD	\$\$		195,360		224,749	224,749	25.0%	56,187		

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WBS Level						May 2007 CR Rebaseline	Early	Early	Res	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont	Contingency	
						Description	Start	Finish	Code		Hours	\$	Labor	M&S	Total	%	\$	
1	03	05	12	5	6	RCV: 1st Lot Diagnostics Equip from Vendor	1-May-07	1-May-07	SA_MSSY2	\$\$			124,800		124,800	124,800	20.0%	24,960
1	03	05	12			RCV: 1st Lot Diagnostics Equip from Vendor	1-May-07	1-May-07	SA_MSEG2	\$\$		67,200		72,045	72,045	20.0%	14,400	
1	03	05	12			Procure Component Material - Movable Collimator	2-May-07	26-Jul-07	SL_MSEG2	\$\$		1,000		1,072	1,072	20.0%	214	
1	03	05	12			Component Fab & Assembly - Movable Collimator	31-May-07	21-Sep-07	SL_MFPC2	Hrs	320		55,252		55,252	20.0%	11,050	
1	03	05	12			Component Fab & Assembly - Movable Collimator	31-May-07	21-Sep-07	SL_MFMS2	Hrs	320		35,194		35,194	20.0%	7,039	
1	03	05	12			Component Fab & Assembly - Movable Collimator	31-May-07	21-Sep-07	SL_MFAT2	Hrs	320		27,498		27,498	20.0%	5,500	
1	03	05	12			Perform QC / Metrology	24-Sep-07	5-Oct-07	SL_MES2	Hrs	80		6,458		6,458	20.0%	1,292	
1	03	05	12			Perform Functional Testing - Movable Collimat	8-Oct-07	12-Oct-07	SL_CCA2	Hrs	60		4,029		4,029	20.0%	806	
1	03	05	12			Post Process & Test	15-Oct-07	17-Oct-07	SL_MFAT2	Hrs	60		5,275		5,275	20.0%	1,055	
1	03	05	12			Evaluate Vendor Proposals - Supports	1-May-07	4-May-07	SL_ME2	Hrs	16		1,593		1,593	20.0%	319	
1	03	05	12			Vendor Fab 1st Lot - Supports	7-May-07	4-Jun-07	SL_MSEG2	\$\$		10,800		11,579	11,579	20.0%	2,316	
1	03	05	12			Procure Misc Materials - Diagnostics Supports	7-May-07	4-Jun-07	SL_MSEG2	\$\$		1,000		1,072	1,072	20.0%	214	
1	03	05	12			Assemble Supports	5-Jun-07	18-Jun-07	SL_MFAT2	Hrs	180		15,468		15,468	20.0%	3,094	
1	03	05	12			Component Fab & Assembly - Movable Collimator	1-May-07	30-May-07	SL_MFPC2	Hrs	2		345		345	20.0%	69	
1	03	05	12			Component Fab & Assembly - Movable Collimator	1-May-07	30-May-07	SL_MFMS2	Hrs	2		220		220	20.0%	44	
1	03	05	12			Component Fab & Assembly - Movable Collimator	1-May-07	30-May-07	SL_MFAT2	Hrs	1		86		86	20.0%	17	
1	03	05	13			Safety Electron Dump (1) Summary					329	23,250	29,342	24,931	54,273		10,855	
1	03	05	13			Write ICD - Single Beam Dump	1-May-07	14-May-07	SL_ME2	Hrs	4		398		398	20.0%	80	
1	03	05	13			Produce Common Layout	1-May-07	14-May-07	SL_MDD2	Hrs	2		167		167	20.0%	33	
1	03	05	13			Develop General Specifications / Analysis	1-May-07	14-May-07	SL_ME2	Hrs	2		199		199	20.0%	40	
1	03	05	13			Create / Remodel / Revise Dsn Documentation	1-May-07	29-May-07	SL_MDD2	Hrs	72		6,011		6,011	20.0%	1,202	
1	03	05	13			Design Check	30-May-07	25-Jul-07	SL_MDD2	Hrs	40		3,340		3,340	20.0%	668	
1	03	05	13			Write Component Traveler	30-May-07	5-Jun-07	SL_ME2	Hrs	8		797		797	20.0%	159	
1	03	05	13			Conduct Single Beam Dump PDR	6-Jun-07	12-Jun-07	SL_ME2	Hrs	3		299		299	20.0%	60	
1	03	05	13			Generate Detailed Procurement Plan	13-Jun-07	13-Jun-07	SL_ME2	Hrs	5		498		498	20.0%	100	
1	03	05	13			Conduct Single Beam Dump FDR	14-Jun-07	20-Jun-07	SL_ME2	Hrs	3		299		299	20.0%	60	
1	03	05	13			Prep Bid Pak - Safety Dump	26-Jul-07	26-Jul-07	SL_ME2	Hrs	5		498		498	20.0%	100	
1	03	05	13			AWARD: Contract for Safety Dump	27-Jul-07	27-Jul-07	SL_AWARD	\$\$		21,000		24,159	24,159	25.0%	6,040	
1	03	05	13			RCV: Safety Dump from Vendor	25-Sep-07	25-Sep-07	SA_MSEG2	\$\$		20,000		21,442	21,442	20.0%	4,288	
1	03	05	13			Procure Component Material - Single Beam Dump	26-Jul-07	22-Aug-07	SL_MSEG2	\$\$		1,000		1,072	1,072	20.0%	214	
1	03	05	13			Component Fab & Assembly - Single Beam Dump	26-Sep-07	23-Oct-07	SL_MFMS2	Hrs	25		2,801		2,801	20.0%	560	
1	03	05	13			Component Fab & Assembly - Single Beam Dump	26-Sep-07	23-Oct-07	SL_MFAT2	Hrs	80		7,003		7,003	20.0%	1,401	
1	03	05	13			Post Process & Test	24-Oct-07	6-Nov-07	SL_MFAT2	Hrs	40		3,516		3,516	20.0%	703	
1	03	05	13			Assemble Supports	22-Oct-07	2-Nov-07	SL_MFAT2	Hrs	40		3,516		3,516	20.0%	703	
1	03	05	13			Vendor Fab Diagnostics Supports	26-Jul-07	20-Sep-07	SL_MSEG2	\$\$		2,000		2,144	2,144	20.0%	429	
1	03	05	13			Procure Misc Materials - Diagnostics Supports	24-Sep-07	19-Oct-07	SL_MSEG2	\$\$		250		272	272	20.0%	54	
1	03	07				Linac Installation & Alignment					24,764	1,145,000	2,280,002	1,214,893	3,494,895		2,694,191	
1	03	07	06			Linac LTU System Installation & Alignment					7,688	156,250	691,371	171,369	862,740		828,005	
1	03	07	06			Network & Monumentation- BTH	9-Jan-08	23-Jan-08	SL_MFAT2	Hrs	240		21,098		21,098	50.0%	10,549	
1	03	07	06			Network & Monumentation- BTH	9-Jan-08	23-Jan-08	SL_MES2	Hrs	240		19,656		19,656	50.0%	9,828	
1	03	07	06			Install Racks & cable plant BTH (SB 2.1.2.2)	5-Dec-07	10-Mar-08	SL_TMUE2	Hrs	1,500		146,914		146,914	100.0%	146,914	
1	03	07	06			Install Racks & cable plant BTH (SB 2.1.2.2)	5-Dec-07	10-Mar-08	SL_PCT2	Hrs	216		13,634		13,634	100.0%	13,634	
1	03	07	06			Install Racks & cable plant BTH (SB 2.1.2.2)	5-Dec-07	10-Mar-08	SL_PCE2	Hrs	540		62,258		62,258	100.0%	62,258	
1	03	07	06			Install Racks & cable plant BTH (SB 2.1.2.2)	5-Dec-07	10-Mar-08	SL_PCCA2	Hrs	540		36,258		36,258	100.0%	36,258	
1	03	07	06			Install Racks & cable plant BTH (SB 2.1.2.2)	5-Dec-07	10-Mar-08	SL_CT2	Hrs	60		3,787		3,787	100.0%	3,787	
1	03	07	06			Install Racks & cable plant BTH (SB 2.1.2.2)	5-Dec-07	10-Mar-08	SL_CE2	Hrs	60		6,918		6,918	100.0%	6,918	
1	03	07	06			Install Racks & cable plant BTH (SB 2.1.2.2)	5-Dec-07	10-Mar-08	SL_CCA2	Hrs	360		24,172		24,172	100.0%	24,172	
1	03	07	06			Install LTU to EBD components	20-Mar-08	12-Jun-08	SL_MSEG2	\$\$		156,250		171,369	171,369	100.0%	171,369	
1	03	07	06			Install LTU to EBD components	20-Mar-08	12-Jun-08	SL_MFAT2	Hrs	1,320		116,039		116,039	100.0%	116,039	
1	03	07	06			Install LTU to EBD components	20-Mar-08	12-Jun-08	SL_ME2	Hrs	1,764		179,695		179,695	100.0%	179,695	
1	03	07	06			Install LTU to EBD components	20-Mar-08	12-Jun-08	SL_CT2	Hrs	360		22,723		22,723	100.0%	22,723	
1	03	07	06			Install LTU to EBD components	20-Mar-08	12-Jun-08	SL_CE2	Hrs	30		3,459		3,459	100.0%	3,459	
1	03	07	06			Install LTU to EBD components	20-Mar-08	12-Jun-08	SL_CCA2	Hrs	90		6,043		6,043	100.0%	6,043	
1	03	07	06			Checkout LTU	4-Sep-08	1-Oct-08	SL_MFAT2	Hrs	120		10,549		10,549	50.0%	5,275	
1	03	07	06			Checkout LTU	4-Sep-08	1-Oct-08	SL_ME2	Hrs	40		4,075		4,075	50.0%	2,037	
1	03	07	06			Checkout LTU	4-Sep-08	1-Oct-08	SL_CT2	Hrs	160		10,099		10,099	50.0%	5,050	
1	03	07	06			Checkout LTU	4-Sep-08	1-Oct-08	SL_CE2	Hrs	16		1,845		1,845	50.0%	922	
1	03	07	06			Checkout LTU	4-Sep-08	1-Oct-08	SL_CCA2	Hrs	32		2,149		2,149	50.0%	1,074	
1	03	07	07			Linac E-Dump System Installation & Alignment					5,804	150,000	509,448	164,514	673,962		336,981	
1	03	07	07			Install, align & grout supports: Dump	4-Feb-08	15-Feb-08	SL_TMUP2	Hrs	48		4,502		4,502	50.0%	2,251	
1	03	07	07			Install, align & grout supports: Dump	4-Feb-08	15-Feb-08	SL_MFAT2	Hrs	480		42,196		42,196	50.0%	21,098	
1	03	07	07			Install, align & grout supports: Dump	4-Feb-08	15-Feb-08	SL_MES2	Hrs	384		31,449		31,449	50.0%	15,725	
1	03	07	07			Install, align & grout supports: Dump	4-Feb-08	15-Feb-08	SL_ME2	Hrs	288		29,338		29,338	50.0%	14,669	
1	03	07	07			Install Dump components - LN	21-Apr-08	15-Jul-08	SL_MSEG2	\$\$		150,000		164,514	164,514	50.0%	82,257	
1	03	07	07			Install Dump components - LN	21-Apr-08	15-Jul-08	SL_MFAT2	Hrs	1,320		116,039		116,039	50.0%	58,020	
1	03	07	07			Install Dump components - LN	21-Apr-08	15-Jul-08	SL_ME2	Hrs	420		42,785		42,785	50.0%	21,392	
1	03	07	07			Install Dump components - LN	21-Apr-08	15-Jul-08	SL_CT2	Hrs	360		22,723		22,723	50.0%	11,362	
1	03	07	07			Install Dump components - LN	21-Apr-08	15-Jul-08	SL_CE2	Hrs	30		3,459		3,459	50.0%	1,729	
1	03	07	07			Install Dump components - LN	21-Apr-08	15-Jul-08	SL_CCA2	Hrs	90		6,043		6,043	50.0%	3,022	
1	03	07	07			Terminate cable plant Dump (SB3.1)	16-Jul-08	20-Aug-08	SL_TMUE2	Hrs	1,500		146,914		146,914	50.0%	73,457	
1	03	07	07			Terminate cable plant Dump (SB3.1)	16-Jul-08	20-Aug-08	SL_PCT2	Hrs	16		1,010		1,010	50.0%	505	
1	03	07	07			Terminate cable plant Dump (SB3.1)	16-Jul-08	20-Aug-08	SL_PCE2	Hrs	20		2,306		2,306	50.0%	1,153	

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escldt Cost			Cont %	Contingency \$
Description										Hours	\$	Labor	M&S	Total			
1	03	07	07	5	6	Terminate cable plant Dump (SB3.1)	16-Jul-08	20-Aug-08	SL_PCCA2	Hrs	20		1,343		1,343	50.0%	671
1	03	07	07			Terminate cable plant Dump (SB3.1)	16-Jul-08	20-Aug-08	SL_CT2	Hrs	400	25,248		25,248	50.0%	12,624	
1	03	07	07			Terminate cable plant Dump (SB3.1)	16-Jul-08	20-Aug-08	SL_CE2	Hrs	12	1,384		1,384	50.0%	692	
1	03	07	07			Terminate cable plant Dump (SB3.1)	16-Jul-08	20-Aug-08	SL_CCA2	Hrs	48	3,223		3,223	50.0%	1,611	
1	03	07	07			Checkout Dump System	21-Aug-08	18-Sep-08	SL_MFAT2	Hrs	120	10,549		10,549	50.0%	5,275	
1	03	07	07			Checkout Dump System	21-Aug-08	18-Sep-08	SL_ME2	Hrs	40	4,075		4,075	50.0%	2,037	
1	03	07	07			Checkout Dump System	21-Aug-08	18-Sep-08	SL_CT2	Hrs	160	10,099		10,099	50.0%	5,050	
1	03	07	07			Checkout Dump System	21-Aug-08	18-Sep-08	SL_CE2	Hrs	32	3,689		3,689	50.0%	1,845	
1	03	07	07			Checkout Dump System	21-Aug-08	18-Sep-08	SL_CCA2	Hrs	16	1,074		1,074	50.0%	537	
1	03	07	20			LINAC Installation 2007 Shut Down					11,272	838,750	1,079,183	879,010	1,958,193	1,529,205	
1	03	07	20	01		Beamline Equip Removal L02, L03 and BC2					2,908	-	272,819	-	272,819	136,410	
1	03	07	20	01		Linac Integration Oversight 2007 Shut Down	4-Sep-07	28-Nov-07	SL_ME2	Hrs	1,360	137,551		137,551	50.0%	68,776	
1	03	07	20	01		Planning, preparation and staging prior to downt	4-Sep-07	28-Sep-07	SL_MFAT2	Hrs	320	27,498		27,498	50.0%	13,749	
1	03	07	20	01		Vent Sector 20	1-Oct-07	1-Oct-07	SL_MFAT2	Hrs	32	2,813		2,813	50.0%	1,407	
1	03	07	20	01		Vent sector 21	2-Oct-07	2-Oct-07	SL_MFAT2	Hrs	32	2,813		2,813	50.0%	1,407	
1	03	07	20	01		Drain Water	3-Oct-07	4-Oct-07	SL_TMUO2	Hrs	32	2,590		2,590	50.0%	1,295	
1	03	07	20	01		Disconnect Water from Structures and Loads	5-Oct-07	8-Oct-07	SL_MFAT2	Hrs	32	2,813		2,813	50.0%	1,407	
1	03	07	20	01		Remove Magnet Power Leads	9-Oct-07	9-Oct-07	SL_MFAT2	Hrs	48	4,220		4,220	50.0%	2,110	
1	03	07	20	01		Remove Klixon Leads	10-Oct-07	10-Oct-07	SL_MFAT2	Hrs	4	352		352	50.0%	176	
1	03	07	20	01		Remove LLRF	11-Oct-07	11-Oct-07	SL_KT2	Hrs	16	1,010		1,010	50.0%	505	
1	03	07	20	01		Remove Waveguide and Loads from Structure	12-Oct-07	17-Oct-07	SL_MFAT2	Hrs	64	5,626		5,626	50.0%	2,813	
1	03	07	20	01		Remove fast valve between sector 20 and 21	18-Oct-07	18-Oct-07	SL_MFAT2	Hrs	8	703		703	50.0%	352	
1	03	07	20	01		Grind upstream and downstream eyelets	19-Oct-07	19-Oct-07	SL_MFAT2	Hrs	16	1,407		1,407	50.0%	703	
1	03	07	20	01		Remove Accelerator Section LI21 120 1B	22-Oct-07	22-Oct-07	SL_MFAT2	Hrs	32	2,813		2,813	50.0%	1,407	
1	03	07	20	01		Remove Waveguide and Loads from Structure	12-Oct-07	17-Oct-07	SL_MFAT2	Hrs	64	5,626		5,626	50.0%	2,813	
1	03	07	20	01		Grind upstream and downstream eyelets	18-Oct-07	18-Oct-07	SL_MFAT2	Hrs	16	1,407		1,407	50.0%	703	
1	03	07	20	01		Remove Accelerator Section LI21 130 1C	19-Oct-07	19-Oct-07	SL_MFAT2	Hrs	32	2,813		2,813	50.0%	1,407	
1	03	07	20	01		Remove BPM Cables from BPM 201 and BPM 301	2-Oct-07	3-Oct-07	SL_CE2	Hrs	16	1,845		1,845	50.0%	922	
1	03	07	20	01		Remove Quad LI21 20 QEF 201	22-Oct-07	22-Oct-07	SL_MFAT2	Hrs	16	1,407		1,407	50.0%	703	
1	03	07	20	01		Remove Waveguide and Loads from Structure	12-Oct-07	17-Oct-07	SL_MFAT2	Hrs	64	5,626		5,626	50.0%	2,813	
1	03	07	20	01		Grind upstream and downstream eyelets	18-Oct-07	18-Oct-07	SL_MFAT2	Hrs	16	1,407		1,407	50.0%	703	
1	03	07	20	01		Remove Accelerator Section LI21 210 2A	19-Oct-07	19-Oct-07	SL_MFAT2	Hrs	32	2,813		2,813	50.0%	1,407	
1	03	07	20	01		Remove Waveguide and Loads from Structure	12-Oct-07	17-Oct-07	SL_MFAT2	Hrs	64	5,626		5,626	50.0%	2,813	
1	03	07	20	01		Grind upstream and downstream eyelets	18-Oct-07	18-Oct-07	SL_MFAT2	Hrs	16	1,407		1,407	50.0%	703	
1	03	07	20	01		Remove Accelerator Section LI21 220 2B	19-Oct-07	19-Oct-07	SL_MFAT2	Hrs	64	5,626		5,626	50.0%	2,813	
1	03	07	20	01		Remove Waveguide and Loads from Structure	12-Oct-07	17-Oct-07	SL_MFAT2	Hrs	64	5,626		5,626	50.0%	2,813	
1	03	07	20	01		Grind upstream and downstream eyelets	18-Oct-07	18-Oct-07	SL_MFAT2	Hrs	16	1,407		1,407	50.0%	703	
1	03	07	20	01		Remove Accelerator Section LI21 230 2C	19-Oct-07	19-Oct-07	SL_MFAT2	Hrs	64	5,626		5,626	50.0%	2,813	
1	03	07	20	01		Remove Waveguide and Loads from Structure	12-Oct-07	17-Oct-07	SL_MFAT2	Hrs	64	5,626		5,626	50.0%	2,813	
1	03	07	20	01		Grind upstream and downstream eyelets	18-Oct-07	18-Oct-07	SL_MFAT2	Hrs	16	1,407		1,407	50.0%	703	
1	03	07	20	01		Remove Accelerator Section LI21 240 2D	19-Oct-07	19-Oct-07	SL_MFAT2	Hrs	64	5,626		5,626	50.0%	2,813	
1	03	07	20	01		Remove Waveguide and Loads from Structure	12-Oct-07	17-Oct-07	SL_MFAT2	Hrs	64	5,626		5,626	50.0%	2,813	
1	03	07	20	01		Remove vacuum header for BC1 chican table	18-Oct-07	22-Oct-07	SL_MFAT2	Hrs	48	4,220		4,220	50.0%	2,110	
1	03	07	20	01		Grind upstream and downstream eyelets	23-Oct-07	23-Oct-07	SL_MFAT2	Hrs	16	1,407		1,407	50.0%	703	
1	03	07	20	01		Remove Quad LI21 30 QED 301	24-Oct-07	24-Oct-07	SL_MFAT2	Hrs	16	1,407		1,407	50.0%	703	
1	03	07	20	01		Remove Accelerator Section LI21 310 3A	25-Oct-07	25-Oct-07	SL_MFAT2	Hrs	64	5,626		5,626	50.0%	2,813	
1	03	07	20	01		Secure Vacuum System	26-Oct-07	26-Oct-07	SL_MFAT2	Hrs	16	1,407		1,407	50.0%	703	
1	03	07	20	02		Beamline Equip Installation L02, L03 and BC2					3,492	72,750	304,058	76,242	380,300	190,150	
1	03	07	20	02		Planning, preparation and staging prior to downt	1-May-07	25-May-07	SL_MFAT2	Hrs	312	26,811		26,811	50.0%	13,405	
1	03	07	20	02		Install Accelerator Section LI21 120 1B	23-Oct-07	24-Oct-07	SL_MFAT2	Hrs	96	8,439		8,439	50.0%	4,220	
1	03	07	20	02		Install Accelerator Section LI21 130 1C	25-Oct-07	26-Oct-07	SL_MFAT2	Hrs	96	8,439		8,439	50.0%	4,220	
1	03	07	20	02		Install QA11/BPMA11	29-Oct-07	29-Oct-07	SL_MFAT2	Hrs	12	1,055		1,055	50.0%	527	
1	03	07	20	02		Install QA12/BPMA12	30-Oct-07	30-Oct-07	SL_MFAT2	Hrs	12	1,055		1,055	50.0%	527	
1	03	07	20	02		Align Structures 1B and 1Cand Quad Magnets QA11	31-Oct-07	31-Oct-07	SL_MES2	Hrs	24	1,966		1,966	50.0%	983	
1	03	07	20	02		Weld Upstream BPM Eyelet between 1B and 1C	1-Nov-07	1-Nov-07	SL_MFAT2	Hrs	6	527		527	50.0%	264	
1	03	07	20	02		Weld Downstream BPM Eyelet between 1B and 1C	1-Nov-07	1-Nov-07	SL_MFAT2	Hrs	6	527		527	50.0%	264	
1	03	07	20	02		Weld Upstream BPM Eyelet between 1C and 1D	1-Nov-07	1-Nov-07	SL_MFAT2	Hrs	6	527		527	50.0%	264	
1	03	07	20	02		Weld Downstream BPM Eyelet between 1C and 1D	1-Nov-07	1-Nov-07	SL_MFAT2	Hrs	6	527		527	50.0%	264	
1	03	07	20	02		Weld Adapter Eyelet to 2 3/4 CFF to downstream e	1-Nov-07	1-Nov-07	SL_MFAT2	Hrs	6	527		527	50.0%	264	
1	03	07	20	02		Install Input Waveguide to Structure 120 1B	2-Nov-07	2-Nov-07	SL_MFAT2	Hrs	24	2,110		2,110	50.0%	1,055	
1	03	07	20	02		Weld Wavguide to Manifold Eyelet	5-Nov-07	5-Nov-07	SL_MFAT2	Hrs	6	527		527	50.0%	264	
1	03	07	20	02		Install Output Load to 120 1B	5-Nov-07	5-Nov-07	SL_MFAT2	Hrs	24	2,110		2,110	50.0%	1,055	
1	03	07	20	02		Install Input Waveguide to Structure 130 1C	5-Nov-07	6-Nov-07	SL_MFAT2	Hrs	72	6,329		6,329	50.0%	3,165	
1	03	07	20	02		Install Output Loads to 130 1C	5-Nov-07	5-Nov-07	SL_MFAT2	Hrs	24	2,110		2,110	50.0%	1,055	
1	03	07	20	02		Install XY Correctors on Structures 1B, 1C and 1	1-Nov-07	1-Nov-07	SL_MFAT2	Hrs	24	2,110		2,110	50.0%	1,055	
1	03	07	20	02		Install X Band Support	4-Sep-07	6-Sep-07	SL_MSPF2	\$\$		8,880		9,306	50.0%	4,653	
1	03	07	20	02		Install X Band Structure	19-Sep-07	19-Sep-07	SL_MFAT2	Hrs	36		3,094		3,094	50.0%	1,547
1	03	07	20	02		Align X Band Structure	20-Sep-07	20-Sep-07	SL_MES2	Hrs	24		1,921		1,921	50.0%	961
1	03	07	20	02		Install Upstream Slowvalve	21-Sep-07	21-Sep-07	SL_MFAT2	Hrs	12		1,031		1,031	50.0%	516
1	03	07	20	02		Install Downstream Slowvalve	24-Sep-07	24-Sep-07	SL_MFAT2	Hrs	12		1,031		1,031	50.0%	516
1	03	07	20	02		Install X Band Waveguide	25-Sep-07	1-Oct-07	SL_MFAT2	Hrs	180	15,468		15,468	50.0%	7,734	
1	03	07	20	02		Pumpdown and Leakcheck	2-Oct-07	3-Oct-07	SL_MFAT2	Hrs	96		8,439		8,439	50.0%	4,220

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early	Early	Res	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont	Contingency
						Description	Start	Finish	Code		Hours	\$	Labor	M&S	Total	%	\$
1	03	07	20	02	6	Install X Band LLRF	4-Oct-07	5-Oct-07	SL_KT2	Hrs	48		3,030		3,030	50.0%	1,515
1	03	07	20	02	Install X Band Water	8-Oct-07	8-Oct-07	SL_MSPF2	\$\$			3,210		3,364	3,364	50.0%	1,682
1	03	07	20	02	Mark BC1 stand location	4-Sep-07	4-Sep-07	SL_MES2	Hrs	24			1,921		1,921	50.0%	961
1	03	07	20	02	Install BC1 Chicane Supports	5-Sep-07	10-Sep-07	SL_MSPF2	\$\$			14,550		15,248	15,248	50.0%	7,624
1	03	07	20	02	Install BC1 Input Supports	11-Sep-07	12-Sep-07	SL_MSPF2	\$\$			4,170		4,370	4,370	50.0%	2,185
1	03	07	20	02	Install BC1 Output Supports	13-Sep-07	13-Sep-07	SL_MSPF2	\$\$			4,170		4,370	4,370	50.0%	2,185
1	03	07	20	02	Align BC1 Supports	14-Sep-07	14-Sep-07	SL_MES2	Hrs	24			1,921		1,921	50.0%	961
1	03	07	20	02	GROUT Supports	17-Sep-07	18-Sep-07	SL_MSPF2	\$\$			5,670		5,942	5,942	50.0%	2,971
1	03	07	20	02	Install BX11 and CQ11	19-Sep-07	19-Sep-07	SL_MFAT2	Hrs	36			3,094		3,094	50.0%	1,547
1	03	07	20	02	Install BC1 Table Middle Vacuum Assy	20-Sep-07	21-Sep-07	SL_MFAT2	Hrs	72			6,187		6,187	50.0%	3,094
1	03	07	20	02	Install BC1 Table Downstream Vacuum Assy	24-Sep-07	25-Sep-07	SL_MFAT2	Hrs	72			6,187		6,187	50.0%	3,094
1	03	07	20	02	Install BC1 Table Upstream Vacuum Assy	26-Sep-07	27-Sep-07	SL_MFAT2	Hrs	72			6,187		6,187	50.0%	3,094
1	03	07	20	02	Install BC1 CQ12 and BX14	28-Sep-07	1-Oct-07	SL_MFAT2	Hrs	72			6,187		6,187	50.0%	3,094
1	03	07	20	02	Align BC1 Chicane Area	2-Oct-07	3-Oct-07	SL_MES2	Hrs	48			3,931		3,931	50.0%	1,966
1	03	07	20	02	Install Quad Magnet QM12	4-Oct-07	4-Oct-07	SL_MFAT2	Hrs	24			2,110		2,110	50.0%	1,055
1	03	07	20	02	Install Corrector YCM12	5-Oct-07	5-Oct-07	SL_MFAT2	Hrs	24			2,110		2,110	50.0%	1,055
1	03	07	20	02	Install B11	8-Oct-07	9-Oct-07	SL_MFAT2	Hrs	96			8,439		8,439	50.0%	4,220
1	03	07	20	02	Install BPMM12	10-Oct-07	10-Oct-07	SL_MFAT2	Hrs	24			2,110		2,110	50.0%	1,055
1	03	07	20	02	Install Quad Magnet QM13	11-Oct-07	11-Oct-07	SL_MFAT2	Hrs	36			3,165		3,165	50.0%	1,582
1	03	07	20	02	Install Corrector XCM13	12-Oct-07	15-Oct-07	SL_MFAT2	Hrs	72			6,329		6,329	50.0%	3,165
1	03	07	20	02	Install IMBC10	16-Oct-07	16-Oct-07	SL_MFAT2	Hrs	24			2,110		2,110	50.0%	1,055
1	03	07	20	02	Install Wire Scanner WS11	17-Oct-07	17-Oct-07	SL_MFAT2	Hrs	24			2,110		2,110	50.0%	1,055
1	03	07	20	02	Install wire scanner lead stand and lead	18-Oct-07	24-Oct-07	SL_MFAT2	Hrs	120			10,549		10,549	50.0%	5,275
1	03	07	20	02	Install Current Monitor OTR12	18-Oct-07	18-Oct-07	SL_MFAT2	Hrs	24			2,110		2,110	50.0%	1,055
1	03	07	20	02	Install Wire Scanner WS12	19-Oct-07	19-Oct-07	SL_MFAT2	Hrs	24			2,110		2,110	50.0%	1,055
1	03	07	20	02	Install wire scanner lead stand and lead	22-Oct-07	26-Oct-07	SL_MFAT2	Hrs	120			10,549		10,549	50.0%	5,275
1	03	07	20	02	Install Wire Scanner WS13	29-Oct-07	29-Oct-07	SL_MFAT2	Hrs	24			2,110		2,110	50.0%	1,055
1	03	07	20	02	Install wire scanner lead stand and lead	30-Oct-07	5-Nov-07	SL_MFAT2	Hrs	120			10,549		10,549	50.0%	5,275
1	03	07	20	02	Install Corrector XC21301	6-Nov-07	6-Nov-07	SL_MFAT2	Hrs	12			1,055		1,055	50.0%	527
1	03	07	20	02	Install BPM21301	7-Nov-07	7-Nov-07	SL_MFAT2	Hrs	12			1,055		1,055	50.0%	527
1	03	07	20	02	Install Quad Magnet Q21301	8-Nov-07	8-Nov-07	SL_MFAT2	Hrs	24			2,110		2,110	50.0%	1,055
1	03	07	20	02	Install PRD11/TD11	9-Nov-07	13-Nov-07	SL_MFAT2	Hrs	144			12,659		12,659	50.0%	6,329
1	03	07	20	02	Install lead stand and lead	14-Nov-07	20-Nov-07	SL_MFAT2	Hrs	120			10,549		10,549	50.0%	5,275
1	03	07	20	02	Install Corrector XCM14	9-Nov-07	9-Nov-07	SL_MFAT2	Hrs	24			2,110		2,110	50.0%	1,055
1	03	07	20	02	Install Quad Magnet QM14/BPM14	12-Nov-07	12-Nov-07	SL_MFAT2	Hrs	24			2,110		2,110	50.0%	1,055
1	03	07	20	02	Install Quad Magnet QM15	13-Nov-07	13-Nov-07	SL_MFAT2	Hrs	36			3,165		3,165	50.0%	1,582
1	03	07	20	02	Align BC1 Output Components	14-Nov-07	16-Nov-07	SL_MES2	Hrs	180			14,742		14,742	50.0%	7,371
1	03	07	20	02	Install Beamline Drifts and Tighten all Flanges	19-Nov-07	26-Nov-07	SL_MFAT2	Hrs	192			16,878		16,878	50.0%	8,439
1	03	07	20	02	Pumpdown and Leack Check Sector 20 and 21	27-Nov-07	29-Nov-07	SL_MFAT2	Hrs	300			26,373		26,373	50.0%	13,186
1	03	07	20	02	BC1, S20/S21 Install power supply	4-Sep-07	4-Sep-07	SL_CE2	Hrs	12			1,352		1,352	50.0%	676
1	03	07	20	02	Reconfigure SLC quadrupole to LCLS	4-Sep-07	6-Sep-07	SL_CE2	Hrs	72			8,114		8,114	50.0%	4,057
1	03	07	20	02	Install plumbing to all devices	19-Nov-07	27-Nov-07	SL_MSPF2	\$\$			32,100		33,641	33,641	50.0%	16,820
1	03	07	20	03	2007 Linac Controlls Install and Checkout						2,748	766,000	297,449	802,768	1,100,217		1,100,217
1	03	07	20	03	Phase III Cable Installation Support	24-Sep-07	21-May-08	SL_UTR2	Hrs	2,198			237,916		237,916	100.0%	237,916
1	03	07	20	03	Phase III Cable Installation Support	24-Sep-07	21-May-08	SL_IPM2	Hrs	550			59,533		59,533	100.0%	59,533
1	03	07	20	03	Phase III Cable Installation	9-Aug-07	9-Nov-07	SL_MSPF2	\$\$			766,000		802,768	802,768	100.0%	802,768
1	03	07	20	04	Linac Undulator Interface						2,124	-	204,857	-	204,857		102,428
1	03	07	20	04	Exit Section Supts Transport & Install	3-Jan-08	4-Jan-08	SL_TMUO2	Hrs	32			2,590		2,590	50.0%	1,295
1	03	07	20	04	Exit Section Supports Transport & Install	3-Jan-08	3-Jan-08	SL_TMUO2	Hrs	16			1,295		1,295	50.0%	648
1	03	07	20	04	Entrance Section Assy & Support Arrive at SLAC	1-Jun-07	14-Jun-07	SL_SEE2	Hrs	16			1,694		1,694	50.0%	847
1	03	07	20	04	Entrance Section Assy & Support Arrive at SLAC	1-Jun-07	14-Jun-07	SL_MVE2	Hrs	16			1,694		1,694	50.0%	847
1	03	07	20	04	Entrance Section Assy & Support Arrive at SLAC	1-Jun-07	14-Jun-07	SL_MFAT2	Hrs	40			3,437		3,437	50.0%	1,719
1	03	07	20	04	Install Entrance Section Components	4-Jan-08	10-Jan-08	SL_SEE2	Hrs	50			5,416		5,416	50.0%	2,708
1	03	07	20	04	Install Entrance Section Components	4-Jan-08	10-Jan-08	SL_MFAT2	Hrs	80			7,033		7,033	50.0%	3,516
1	03	07	20	04	Exit Section Assembly & Support Arrive at SLAC	5-Dec-07	17-Dec-07	SL_SEE2	Hrs	16			1,733		1,733	50.0%	867
1	03	07	20	04	Exit Section Assembly & Support Arrive at SLAC	5-Dec-07	17-Dec-07	SL_MVE2	Hrs	16			1,733		1,733	50.0%	867
1	03	07	20	04	Exit Section Assembly & Support Arrive at SLAC	5-Dec-07	17-Dec-07	SL_MFAT2	Hrs	40			3,516		3,516	50.0%	1,758
1	03	07	20	04	Install Exit Section Components	18-Dec-07	2-Jan-08	SL_SEE2	Hrs	50			5,416		5,416	50.0%	2,708
1	03	07	20	04	Install Exit Section Components	18-Dec-07	2-Jan-08	SL_MFAT2	Hrs	80			7,033		7,033	50.0%	3,516
1	03	07	20	04	EOU Arrive at SLAC	1-May-07	15-May-07	SL_SEE2	Hrs	16			1,694		1,694	50.0%	847
1	03	07	20	04	EOU Arrive at SLAC	1-May-07	15-May-07	SL_MFAT2	Hrs	16			1,375		1,375	50.0%	687
1	03	07	20	04	EOU Arrive at SLAC	1-May-07	15-May-07	SL_ME2	Hrs	8			797		797	50.0%	398
1	03	07	20	04	Pre-Align EOU at SLAC	16-May-07	14-Jun-07	SL_SEE2	Hrs	88			9,317		9,317	50.0%	4,659
1	03	07	20	04	Pre-Align EOU at SLAC	16-May-07	14-Jun-07	SL_MES2	Hrs	120			9,607		9,607	50.0%	4,803
1	03	07	20	04	Pre-Align EOU at SLAC	16-May-07	14-Jun-07	SL_ME2	Hrs	24			2,390		2,390	50.0%	1,195
1	03	07	20	04	Install EOU	5-Dec-07	11-Jan-08	SL_SEE2	Hrs	104			11,265		11,265	50.0%	5,632
1	03	07	20	04	Install EOU	5-Dec-07	11-Jan-08	SL_PHS2	Hrs	24			1,790		1,790	50.0%	895
1	03	07	20	04	Install EOU	5-Dec-07	11-Jan-08	SL_MFAT2	Hrs	120			10,549		10,549	50.0%	5,275
1	03	07	20	04	Install EOU	5-Dec-07	11-Jan-08	SL_ME2	Hrs	48			4,890		4,890	50.0%	2,445
1	03	07	20	04	Install EOU	5-Dec-07	11-Jan-08	SL_CE2	Hrs	40			4,612		4,612	50.0%	2,306
1	03	07	20	04	Align EOU	14-Jan-08	18-Jan-08	SL_SEE2	Hrs	72			7,799		7,799	50.0%	3,899
1	03	07	20	04	Align EOU	14-Jan-08	18-Jan-08	SL_MES2	Hrs	80			6,552		6,552	50.0%	3,276

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont %	Contingency \$
Description											Hours	\$	Labor	M&S	Total		
1	03	07	20	04	6	Align EOU	14-Jan-08	18-Jan-08	SL_ME2	Hrs	32		3,260		3,260	50.0%	1,630
1	03	07	20	04		Validate EOU	21-Jan-08	30-Jan-08	SL_SEE2	Hrs	56		6,066		6,066	50.0%	3,033
1	03	07	20	04		Validate EOU	21-Jan-08	30-Jan-08	SL_PHS2	Hrs	16		1,194		1,194	50.0%	597
1	03	07	20	04		Validate EOU	21-Jan-08	30-Jan-08	SL_ME2	Hrs	24		2,445		2,445	50.0%	1,222
1	03	07	20	04		Validate EOU	21-Jan-08	30-Jan-08	SL_CE2	Hrs	16		1,845		1,845	50.0%	922
1	03	07	20	04		Integrate EOU	31-Jan-08	13-Feb-08	SL_SEE2	Hrs	96		10,398		10,398	50.0%	5,199
1	03	07	20	04		Integrate EOU	31-Jan-08	13-Feb-08	SL_PHS2	Hrs	16		1,194		1,194	50.0%	597
1	03	07	20	04		Integrate EOU	31-Jan-08	13-Feb-08	SL_ME2	Hrs	24		2,445		2,445	50.0%	1,222
1	03	07	20	04		Integrate EOU	31-Jan-08	13-Feb-08	SL_CT2	Hrs	120		7,574		7,574	50.0%	3,787
1	03	07	20	04		Integrate EOU	31-Jan-08	13-Feb-08	SL_CE2	Hrs	136		15,680		15,680	50.0%	7,840
1	03	07	20	04		Test EOU	14-Feb-08	27-Feb-08	SL_SEE2	Hrs	96		10,398		10,398	50.0%	5,199
1	03	07	20	04		Test EOU	14-Feb-08	27-Feb-08	SL_PHS2	Hrs	16		1,194		1,194	50.0%	597
1	03	07	20	04		Test EOU	14-Feb-08	27-Feb-08	SL_ME2	Hrs	24		2,445		2,445	50.0%	1,222
1	03	07	20	04		Test EOU	14-Feb-08	27-Feb-08	SL_CT2	Hrs	80		5,050		5,050	50.0%	2,525
1	03	07	20	04		Test EOU	14-Feb-08	27-Feb-08	SL_CE2	Hrs	160		18,447		18,447	50.0%	9,223
1	04					UNDULATOR SYSTEM					82,068	10,546,963	7,475,265	10,935,990	18,411,255		3,775,831
1	04	01				Undulator System Management & Integration					15,853	236,362	1,553,772	332,470	1,886,242		14,107
1	04	01	01			Undulator System Management					15,853	107,742	1,553,772	117,738	1,671,510		0
1	04	01	01	01		Undulator System Management - Technical					14,435	30,612	1,397,539	38,081	1,435,620		0
1	04	01	01	01		Project Management	1-May-07	28-Sep-07	AN_PM2	Hrs	742		81,752		81,752	0.0%	0
1	04	01	01	01		Undulator Documentation	1-May-07	28-Sep-07	AN_PM2	Hrs	742		81,752		81,752	0.0%	0
1	04	01	01	01		Design/Drafter/Integration	1-May-07	28-Sep-07	AN_MDD2	Hrs	371		23,999		23,999	0.0%	0
1	04	01	01	01		Engineering Oversight	1-May-07	28-Sep-07	AN_PM2	Hrs	566		62,361		62,361	0.0%	0
1	04	01	01	01		Integration Engineer	1-May-07	28-Sep-07	AN_PM2	Hrs	742		81,752		81,752	0.0%	0
1	04	01	01	01		Und Magnet & Support Engr Oversight	1-May-07	28-Sep-07	AN_PM2	Hrs	742		81,752		81,752	0.0%	0
1	04	01	01	01		Vacuum/Diagnostics Engineering Oversight	1-May-07	28-Sep-07	AN_PM2	Hrs	371		40,876		40,876	0.0%	0
1	04	01	01	01		Controls System Engineering Oversight	1-May-07	28-Sep-07	AN_PM2	Hrs	371		40,876		40,876	0.0%	0
1	04	01	01	01		Quality Assurance Oversight	1-May-07	28-Sep-07	AN_PM2	Hrs	1,484		163,505		163,505	0.0%	0
1	04	01	01	01		Undulator Designer @ SLAC I	1-May-07	31-Mar-08	SL_MDD2	Hrs	1,547		130,771		130,771	0.0%	0
1	04	01	01	01		Undulator Designer @ SLAC II	1-Apr-08	31-Oct-08	SL_MDD2	Hrs	529		45,328		45,328	0.0%	0
1	04	01	01	01		Undulator Document Control @ SLAC(600 hrs/yr)	1-May-07	31-Oct-08	SL_MDD2	Hrs	1,020		86,681		86,681	0.0%	0
1	04	01	01	01		Undulator POC/AM @ SLAC (1500 hrs/yr)	1-May-07	31-Oct-08	SL_MES2	Hrs	2,604		212,197		212,197	0.0%	0
1	04	01	01	01		SLAC Travel (30 trips@\$1250/trip)	1-May-07	30-Apr-08	SL_MSTR2	\$\$		30,612			38,081	0.0%	0
1	04	01	01	01		Undulator Mgmt/Engr @ SLAC	1-May-07	31-Oct-08	SL_ME2	Hrs	2,604		263,936		263,936	0.0%	0
1	04	01	01	02		ANL Project Support					1,418	77,130	156,233	79,657	235,890		0
1	04	01	01	02		ANL Indirect Cost Allocation - FY07 (CNST)	1-May-07	28-Sep-07	AN_MSXX2	\$\$		45,130		46,168	0.0%	0	
1	04	01	01	02		ANL Indirect Cost Allocation - FY08 (CNST)	1-Oct-07	31-Jan-08	AN_MSXX2	\$\$		2,000		2,093	0.0%	0	
1	04	01	01	02		Secretarial/Administrative/IT	1-May-07	28-Sep-07	AN_ADMN2	Hrs	490		53,987		53,987	0.0%	0
1	04	01	01	02		Monitor Budget, Schedule and Contracts	1-May-07	28-Sep-07	AN_ADMN2	Hrs	742		81,752		81,752	0.0%	0
1	04	01	01	02		ANL Division - PMCS Support	1-May-07	28-Sep-07	AN_ADMN2	Hrs	186		20,493		20,493	0.0%	0
1	04	01	01	02		SLAC Indirect Tax - FY08 (CNST)	2-Oct-07	30-Sep-08	SL_MSXX2	\$\$				31,396	31,396	0.0%	0
1	04	01	02			Undulator System Materials & Supplies					-	123,870	-	209,817	209,817		14,107
1	04	01	02	01		Undulator System M&S - General					-	43,947	-	68,748	68,748		0
1	04	01	02	01		Office Supplies and Misc Materials	1-May-07	29-Feb-08	AN_MSXS2	\$\$		2,742		2,837	2,837	0.0%	0
1	04	01	02	01		Tele/Video Conferencing	1-May-07	29-Feb-08	AN_MSEG2	\$\$		1,106		1,144	1,144	0.0%	0
1	04	01	02	01		CPUs and Software	1-May-07	29-Feb-08	AN_MSEG2	\$\$		8,230		8,515	8,515	0.0%	0
1	04	01	02	01		Shipping and Storage	1-May-07	29-Feb-08	AN_MSTR2	\$\$		31,869		56,251	56,251	0.0%	0
1	04	01	02	02		Undulator System Travel					-	79,923	-	141,070	141,070		14,107
1	04	01	02	02		Domestic Travel	1-May-07	29-Feb-08	AN_MSTR2	\$\$		73,750		130,174	130,174	10.0%	13,017
1	04	01	02	02		Foreign Travel	1-May-07	29-Feb-08	AN_MSTR2	\$\$		6,173		10,896	10,896	10.0%	1,090
1	04	01	03			Undulator System Reviews and Workshops					-	4,750	-	4,915	4,915		0
1	04	01	03			Review and Workshop Costs	1-May-07	29-Feb-08	AN_MSXS2	\$\$		4,750		4,915	4,915	0.0%	0
1	04	02				Controls					9,934	2,189,738	948,688	2,300,571	3,249,260		543,775
1	04	02	08			Power Supply Controls					1,390	173,638	138,693	186,414	325,107		41,792
1	04	02	08	01		Software					80	-	6,725	-	6,725		2,017
1	04	02	08	01		DBs and Displays	12-Nov-07	27-Nov-07	SL_CP2	Hrs	80		6,725		6,725	30.0%	2,017
1	04	02	08	02		Beam Line Power Supplies (Trim Type)					904	171,268	96,171	183,834	280,005		35,937
1	04	02	08	02	01	CPUs and Crates					-	28,000	-	30,236	30,236		6,474
1	04	02	08	02	01	Procure CPUs	1-May-07	18-Oct-07	SL_MSEG2	\$\$		8,000		8,597	8,597	10.0%	860
1	04	02	08	02	01	RCV: CPUs	19-Oct-07	19-Oct-07	SL_MSEG2	\$\$		8,000		8,774	8,774	20.0%	1,755
1	04	02	08	02	01	RCV: VME Crates	26-Jul-07	26-Jul-07	SL_MSEG2	\$\$		12,000		12,865	12,865	30.0%	3,860
1	04	02	08	02	02	Bulk Power Supplies					8	200	494	214	708		71
1	04	02	08	02	02	RCV: Circ brkr, 3-pole, 30 A, 480V, Series Trp	27-Jun-07	27-Jun-07	SL_MSEG2	\$\$		100		107	107	10.0%	11
1	04	02	08	02	02	Safety Inspection - EEIP	28-Jun-07	28-Jun-07	SL_PCT2	Hrs	2		123		123	10.0%	12
1	04	02	08	02	02	Bench Test	29-Jun-07	29-Jun-07	SL_PCT2	Hrs	2		123		123	10.0%	12
1	04	02	08	02	02	RCV: Circ brkr, 3-pole, 30 A, 480V, Series Trp	27-Jun-07	27-Jun-07	SL_MSEG2	\$\$		100		107	107	10.0%	11
1	04	02	08	02	02	Safety Inspection - EEIP	28-Jun-07	28-Jun-07	SL_PCT2	Hrs	2		123		123	10.0%	12
1	04	02	08	02	02	Bench Test	29-Jun-07	29-Jun-07	SL_PCT2	Hrs	2		123		123	10.0%	12
1	04	02	08	02	03	PLC Power Supply Protection					832	27,602	90,190	29,592	119,782		16,143
1	04	02	08	02	03	RCV: PLC Chassis	19-Jul-07	19-Jul-07	SL_MSEG2	\$\$		400		429	429	10.0%	43
1	04	02	08	02	03	RCV: PLC Power Supply	19-Jul-07	19-Jul-07	SL_MSEG2	\$\$		600		643	643	10.0%	64
1	04	02	08	02	03	RCV: PLC Chassis Accessories	19-Jul-07	19-Jul-07	SL_MSEG2	\$\$		200		214	214	10.0%	21

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early	Early	Res	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escldt Cost			Cont	Contingency
						Description	Start	Finish	Code		Hours	\$	Labor	M&S	Total	%	\$
1	04	02	08	02	03	RCV: PLC Control Interface Module	19-Jul-07	19-Jul-07	SL_MSEG2	\$\$		3,500		3,752	3,752	10.0%	375
1	04	02	08	02	03	RCV: PLC EtherNet/IP Module	19-Jul-07	19-Jul-07	SL_MSEG2	\$\$		1,250		1,340	1,340	10.0%	134
1	04	02	08	02	03	RCV: Analog to Digital Converter Modules 12-ch	19-Jul-07	19-Jul-07	SL_MSEG2	\$\$		2,500		2,680	2,680	10.0%	268
1	04	02	08	02	03	RCV: Digital to Analog Converter Modules 6-ch	19-Jul-07	19-Jul-07	SL_MSEG2	\$\$		3,000		3,216	3,216	10.0%	322
1	04	02	08	02	03	RCV: Digital Input Modules +24V - 32-ch	19-Jul-07	19-Jul-07	SL_MSEG2	\$\$		500		536	536	10.0%	54
1	04	02	08	02	03	RCV: Digital Output Modules +24V - 32-ch	19-Jul-07	19-Jul-07	SL_MSEG2	\$\$		500		536	536	10.0%	54
1	04	02	08	02	03	RCV: Touch Panel Display	19-Jul-07	19-Jul-07	SL_MSEG2	\$\$		2,000		2,144	2,144	10.0%	214
1	04	02	08	02	03	RCV: Intra-rack cables and Conectors	20-Jul-07	20-Jul-07	SL_MSEG2	\$\$		352		377	377	10.0%	38
1	04	02	08	02	03	Design PLC Chassis Rack Interface	23-Jul-07	30-Jul-07	SL_PCE2	Hrs	48		5,410		5,410	10.0%	541
1	04	02	08	02	03	Integrate cables	1-May-07	2-May-07	SL_TMUE2	Hrs	16		1,532		1,532	10.0%	153
1	04	02	08	02	03	Bench-test and assembly	20-Jul-07	20-Jul-07	SL_PCT2	Hrs	8		494		494	10.0%	49
1	04	02	08	02	03	Pre-intall Qual Test	23-Jul-07	25-Jul-07	SL_PCE2	Hrs	8		902		902	10.0%	90
1	04	02	08	02	03	Pre-intall Qual Test	23-Jul-07	25-Jul-07	SL_PCCA2	Hrs	8		525		525	10.0%	53
1	04	02	08	02	03	Develop Ladder Logic	1-May-07	26-Jun-07	SL_PCE2	Hrs	40		4,508		4,508	10.0%	451
1	04	02	08	02	03	Develop Touch Panel Displays	27-Jun-07	31-Jul-07	SL_PCE2	Hrs	192		21,639		21,639	10.0%	2,164
1	04	02	08	02	03	Documentation	1-May-07	10-May-07	SL_PCE2	Hrs	64		7,213		7,213	10.0%	721
1	04	02	08	02	03	Pre-install Qual Test and Integration	27-Sep-07	1-Oct-07	SL_PCE2	Hrs	24		2,705		2,705	10.0%	270
1	04	02	08	02	03	Pre-install Qual Test and Integration	27-Sep-07	1-Oct-07	SL_CP2	Hrs	24		1,972		1,972	10.0%	197
1	04	02	08	02	03	RCV: PLC Chassis	19-Jul-07	19-Jul-07	SL_MSEG2	\$\$		400		429	429	10.0%	43
1	04	02	08	02	03	RCV: PLC Power Supply	19-Jul-07	19-Jul-07	SL_MSEG2	\$\$		600		643	643	10.0%	64
1	04	02	08	02	03	RCV: PLC Chassis Accessories	19-Jul-07	19-Jul-07	SL_MSEG2	\$\$		200		214	214	10.0%	21
1	04	02	08	02	03	RCV: PLC Control Interface Module	19-Jul-07	19-Jul-07	SL_MSEG2	\$\$		3,500		3,752	3,752	10.0%	375
1	04	02	08	02	03	RCV: PLC EtherNet/IP Module	19-Jul-07	19-Jul-07	SL_MSEG2	\$\$		1,250		1,340	1,340	10.0%	134
1	04	02	08	02	03	RCV: Analog to Digital Converter Modules 12-ch	19-Jul-07	19-Jul-07	SL_MSEG2	\$\$		3,000		3,216	3,216	10.0%	322
1	04	02	08	02	03	RCV: Digital to Analog Converter Modules 6-ch	19-Jul-07	19-Jul-07	SL_MSEG2	\$\$		500		536	536	10.0%	54
1	04	02	08	02	03	RCV: Digital Input Modules +24V - 32-ch	19-Jul-07	19-Jul-07	SL_MSEG2	\$\$		500		536	536	10.0%	54
1	04	02	08	02	03	RCV: Digital Output Modules +24V - 32-ch	19-Jul-07	19-Jul-07	SL_MSEG2	\$\$		500		536	536	10.0%	54
1	04	02	08	02	03	RCV: Touch Panel Display	19-Jul-07	19-Jul-07	SL_MSEG2	\$\$		2,000		2,144	2,144	10.0%	214
1	04	02	08	02	03	RCV: Intra-rack cables and Conectors	20-Jul-07	20-Jul-07	SL_MSEG2	\$\$		350		375	375	10.0%	38
1	04	02	08	02	03	Design PLC Chassis Rack Interface	23-Jul-07	30-Jul-07	SL_PCE2	Hrs	48		5,410		5,410	30.0%	1,623
1	04	02	08	02	03	Integrate cables	1-May-07	2-May-07	SL_TMUE2	Hrs	16		1,532		1,532	10.0%	153
1	04	02	08	02	03	Bench-test and assembly	20-Jul-07	20-Jul-07	SL_PCT2	Hrs	8		494		494	10.0%	49
1	04	02	08	02	03	Pre-intall Qual Test	23-Jul-07	24-Jul-07	SL_PCE2	Hrs	8		902		902	10.0%	90
1	04	02	08	02	03	Pre-intall Qual Test	23-Jul-07	24-Jul-07	SL_PCCA2	Hrs	8		525		525	10.0%	53
1	04	02	08	02	03	Develop Ladder Logic	1-May-07	26-Jun-07	SL_PCE2	Hrs	40		4,508		4,508	20.0%	902
1	04	02	08	02	03	Develop Touch Panel Displays	27-Jun-07	31-Jul-07	SL_PCE2	Hrs	192		21,639		21,639	20.0%	4,328
1	04	02	08	02	03	Documentation	1-May-07	4-May-07	SL_PCE2	Hrs	32		3,606		3,606	10.0%	361
1	04	02	08	02	03	Pre-install Qual Test and Integration	27-Sep-07	1-Oct-07	SL_PCE2	Hrs	24		2,705		2,705	20.0%	541
1	04	02	08	02	03	Pre-install Qual Test and Integration	27-Sep-07	1-Oct-07	SL_CP2	Hrs	24		1,972		1,972	20.0%	394
1	04	02	08	02	04	MCOR					64	115,466	5,488	123,792	129,279		13,250
1	04	02	08	02	04	RCV: MCOR Chassis	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		2,850		3,055	3,055	10.0%	306
1	04	02	08	02	04	RCV: MCOR Blower	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		500		536	536	10.0%	54
1	04	02	08	02	04	RCV: MCOR Crate Accessories	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		500		536	536	10.0%	54
1	04	02	08	02	04	RCV: MCOR Controller Module	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		800		858	858	10.0%	86
1	04	02	08	02	04	RCV: 12Amp Pwr & Prog Modules - QD10	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		2,098		2,249	2,249	10.0%	225
1	04	02	08	02	04	RCV: 12Amp Pwr & Prog Modules - QD12	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		2,098		2,249	2,249	10.0%	225
1	04	02	08	02	04	RCV: 12Amp Pwr & Prog Modules - QD14	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		2,098		2,249	2,249	10.0%	225
1	04	02	08	02	04	RCV: 12Amp Pwr & Prog Modules - QD16	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		2,098		2,249	2,249	10.0%	225
1	04	02	08	02	04	RCV: 12Amp Pwr & Prog Modules - QD2	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		2,098		2,249	2,249	10.0%	225
1	04	02	08	02	04	RCV: 12Amp Pwr & Prog Modules - QD4	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		2,098		2,249	2,249	10.0%	225
1	04	02	08	02	04	RCV: 12Amp Pwr & Prog Modules - QD6	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		2,098		2,249	2,249	10.0%	225
1	04	02	08	02	04	RCV: 12Amp Pwr & Prog Modules - QD8	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		2,098		2,249	2,249	10.0%	225
1	04	02	08	02	04	RCV: 12Amp Pwr & Prog Modules - QF1	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		2,098		2,249	2,249	10.0%	225
1	04	02	08	02	04	RCV: 12Amp Pwr & Prog Modules - QF11	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		2,098		2,249	2,249	10.0%	225
1	04	02	08	02	04	RCV: 12Amp Pwr & Prog Modules - QF13	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		2,098		2,249	2,249	10.0%	225
1	04	02	08	02	04	RCV: 12Amp Pwr & Prog Modules - QF15	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		2,098		2,249	2,249	10.0%	225
1	04	02	08	02	04	RCV: AWG #2 Cables (1/pwr module)	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		1,680		1,801	1,801	10.0%	180
1	04	02	08	02	04	RCV: Cable Accessories - Lugs, Splices, etc	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		480		515	515	10.0%	51
1	04	02	08	02	04	RCV: Amp-36 Pin Connectors	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		150		161	161	10.0%	16
1	04	02	08	02	04	MCOR Safety Inspection - EEIP	7-Aug-07	7-Aug-07	SL_PCT2	Hrs	4		247		247	10.0%	25
1	04	02	08	02	04	MCOR Bench Test and Assembly	8-Aug-07	8-Aug-07	SL_TMUE2	Hrs	8		766		766	10.0%	77
1	04	02	08	02	04	RCV: Analog to Digital Converter Module - 16 Ch	1-May-07	1-May-07	SL_MSEG2	\$\$		2,500		2,680	2,680	10.0%	268
1	04	02	08	02	04	RCV: Digital to Analog Converter Module - 16 Ch	1-May-07	1-May-07	SL_MSEG2	\$\$		800		858	858	10.0%	86
1	04	02	08	02	04	RCV: IP Carrier Board	1-May-07	1-May-07	SL_MSEG2	\$\$		800		858	858	10.0%	86
1	04	02	08	02	04	RCV: Transition Module	1-May-07	1-May-07	SL_MSEG2	\$\$		300		322	322	10.0%	32
1	04	02	08	02	04	RCV: Cables and connectors	1-May-07	1-May-07	SL_MSEG2	\$\$		300		322	322	10.0%	32
1	04	02	08	02	04	Bench Test and Assembly	2-May-07	2-May-07	SL_CE2	Hrs	4		451		451	10.0%	45
1	04	02	08	02	04	RCV: MCOR Chassis	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		3,000		3,216	3,216	10.0%	322
1	04	02	08	02	04	RCV: MCOR Blower	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		500		536	536	10.0%	54
1	04	02	08	02	04	RCV: MCOR Crate Accessories	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		500		536	536	10.0%	54
1	04	02	08	02	04	RCV: MCOR Controller Module	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		800		858	858	10.0%	86
1	04	02	08	02	04	RCV: 12Amp Pwr & Prog Modules - QF17	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		2,098		2,249	2,249	10.0%	225

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escldt Cost			Cont %	Contingency \$	
Description											Hours	\$	Labor	M&S	Total			
1	04	02	08	02	04	RCV: 12Amp Pwr & Prog Modules - QF3	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		2,098			2,249	2,249	10.0%	225
1	04	02	08	02	04	RCV: 12Amp Pwr & Prog Modules - QF5	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		2,098			2,249	2,249	10.0%	225
1	04	02	08	02	04	RCV: 12Amp Pwr & Prog Modules - QF7	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		2,098			2,249	2,249	10.0%	225
1	04	02	08	02	04	RCV: AWG #2 Cables (1/pwr module)	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		1,680			1,801	1,801	10.0%	180
1	04	02	08	02	04	RCV: Cable Accessories - Lugs, Splices, etc	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		560			600	600	10.0%	60
1	04	02	08	02	04	RCV: Amp-36 Pin Connectors	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		150			161	161	10.0%	16
1	04	02	08	02	04	MCOR Safety Inspection - EEIP	7-Aug-07	7-Aug-07	SL_PCT2	Hrs	4			247		247	10.0%	25
1	04	02	08	02	04	MCOR Bench Test and Assembly	8-Aug-07	8-Aug-07	SL_TMUE2	Hrs	8			766		766	10.0%	77
1	04	02	08	02	04	RCV: Analog to Digital Converter Module - 16 Ch	1-May-07	1-May-07	SL_MSEG2	\$\$		2,500			2,680	2,680	10.0%	268
1	04	02	08	02	04	RCV: Digital to Analog Converter Module - 16 Ch	1-May-07	1-May-07	SL_MSEG2	\$\$		1,500			1,608	1,608	10.0%	161
1	04	02	08	02	04	RCV: IP Carrier Board	1-May-07	1-May-07	SL_MSEG2	\$\$		800			858	858	10.0%	86
1	04	02	08	02	04	RCV: Transition Module	1-May-07	1-May-07	SL_MSEG2	\$\$		300			322	322	10.0%	32
1	04	02	08	02	04	RCV: Cables and connectors	1-May-07	1-May-07	SL_MSEG2	\$\$		300			322	322	10.0%	32
1	04	02	08	02	04	Bench Test and Assembly	13-Jun-07	13-Jun-07	SL_CP2	Hrs	4			329		329	10.0%	33
1	04	02	08	02	04	RCV: MCOR Chassis	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		2,850			3,055	3,055	10.0%	306
1	04	02	08	02	04	RCV: MCOR Blower	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		500			536	536	10.0%	54
1	04	02	08	02	04	RCV: MCOR Crate Accessories	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		500			536	536	10.0%	54
1	04	02	08	02	04	RCV: MCOR Controller Module	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		800			858	858	10.0%	86
1	04	02	08	02	04	RCV: 12Amp Pwr & Prog Modules - QD18	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		2,098			2,249	2,249	10.0%	225
1	04	02	08	02	04	RCV: 12Amp Pwr & Prog Modules - QD20	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		2,098			2,249	2,249	10.0%	225
1	04	02	08	02	04	RCV: 12Amp Pwr & Prog Modules - QD22	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		2,098			2,249	2,249	10.0%	225
1	04	02	08	02	04	RCV: 12Amp Pwr & Prog Modules - QD24	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		2,098			2,249	2,249	10.0%	225
1	04	02	08	02	04	RCV: 12Amp Pwr & Prog Modules - QD26	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		2,098			2,249	2,249	10.0%	225
1	04	02	08	02	04	RCV: 12Amp Pwr & Prog Modules - QD28	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		2,098			2,249	2,249	10.0%	225
1	04	02	08	02	04	RCV: 12Amp Pwr & Prog Modules - QD30	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		2,098			2,249	2,249	10.0%	225
1	04	02	08	02	04	RCV: 12Amp Pwr & Prog Modules - QD32	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		2,098			2,249	2,249	10.0%	225
1	04	02	08	02	04	RCV: 12Amp Pwr & Prog Modules - QF19	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		2,098			2,249	2,249	10.0%	225
1	04	02	08	02	04	RCV: 12Amp Pwr & Prog Modules - QF21	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		2,098			2,249	2,249	10.0%	225
1	04	02	08	02	04	RCV: 12Amp Pwr & Prog Modules - QF23	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		2,098			2,249	2,249	10.0%	225
1	04	02	08	02	04	RCV: 12Amp Pwr & Prog Modules - QF25	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		2,098			2,249	2,249	10.0%	225
1	04	02	08	02	04	RCV: 12Amp Pwr & Prog Modules - QF27	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		2,098			2,249	2,249	10.0%	225
1	04	02	08	02	04	RCV: 12Amp Pwr & Prog Modules - QF29	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		2,098			2,249	2,249	10.0%	225
1	04	02	08	02	04	RCV: AWG #2 Cables (1/pwr module)	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		1,680			1,801	1,801	10.0%	180
1	04	02	08	02	04	RCV: Cable Accessories - Lugs, Splices, etc	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		560			600	600	10.0%	60
1	04	02	08	02	04	RCV: Amp-36 Pin Connectors	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		150			161	161	10.0%	16
1	04	02	08	02	04	MCOR Safety Inspection - EEIP	7-Aug-07	7-Aug-07	SL_PCT2	Hrs	4			247		247	10.0%	25
1	04	02	08	02	04	MCOR Bench Test and Assembly	8-Aug-07	8-Aug-07	SL_TMUE2	Hrs	8			766		766	10.0%	77
1	04	02	08	02	04	RCV: Digital to Analog Converter Module - 16 Ch	1-May-07	1-May-07	SL_MSEG2	\$\$		2,500			2,680	2,680	10.0%	268
1	04	02	08	02	04	RCV: Analog to Digital Converter Module - 16 Ch	1-May-07	1-May-07	SL_MSEG2	\$\$		1,500			1,608	1,608	30.0%	482
1	04	02	08	02	04	RCV: Transition Module	1-May-07	1-May-07	SL_MSEG2	\$\$		300			322	322	10.0%	32
1	04	02	08	02	04	RCV: Cables and connectors	1-May-07	1-May-07	SL_MSEG2	\$\$		300			322	322	10.0%	32
1	04	02	08	02	04	Bench Test and Assembly	13-Jun-07	13-Jun-07	SL_CP2	Hrs	4			329		329	10.0%	33
1	04	02	08	02	04	RCV: MCOR Chassis	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		2,850			3,055	3,055	10.0%	306
1	04	02	08	02	04	RCV: MCOR Blower	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		500			536	536	10.0%	54
1	04	02	08	02	04	RCV: MCOR Crate Accessories	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		500			536	536	10.0%	54
1	04	02	08	02	04	RCV: MCOR Controller Module	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		800			858	858	10.0%	86
1	04	02	08	02	04	RCV: 12Amp Pwr & Prog Modules - QF31	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		2,098			2,249	2,249	10.0%	225
1	04	02	08	02	04	RCV: 12Amp Pwr & Prog Modules - QF33	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		2,098			2,249	2,249	10.0%	225
1	04	02	08	02	04	RCV: AWG #2 Cables (1/pwr module)	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		1,680			1,801	1,801	10.0%	180
1	04	02	08	02	04	RCV: Cable Accessories - Lugs, Splices, etc	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		560			600	600	10.0%	60
1	04	02	08	02	04	RCV: Amp-36 Pin Connectors	6-Aug-07	6-Aug-07	SL_MSEG2	\$\$		150			161	161	10.0%	16
1	04	02	08	02	04	MCOR Safety Inspection - EEIP	7-Aug-07	7-Aug-07	SL_PCT2	Hrs	4			247		247	10.0%	25
1	04	02	08	02	04	MCOR Bench Test and Assembly	8-Aug-07	8-Aug-07	SL_TMUE2	Hrs	8			766		766	10.0%	77
1	04	02	08	02	04	RCV: Analog to Digital Converter Module - 16 Ch	1-May-07	1-May-07	SL_MSEG2	\$\$		2,500			2,680	2,680	10.0%	268
1	04	02	08	02	04	RCV: Digital to Analog Converter Module - 16 Ch	1-May-07	1-May-07	SL_MSEG2	\$\$		1,500			1,608	1,608	10.0%	161
1	04	02	08	02	04	RCV: IP Carrier Board	1-May-07	1-May-07	SL_MSEG2	\$\$		800			858	858	10.0%	86
1	04	02	08	02	04	RCV: Transition Module	1-May-07	1-May-07	SL_MSEG2	\$\$		300			322	322	10.0%	32
1	04	02	08	02	04	RCV: Cables and connectors	1-May-07	1-May-07	SL_MSEG2	\$\$		300			322	322	10.0%	32
1	04	02	08	02	04	Bench Test and Assembly	13-Jun-07	13-Jun-07	SL_CP2	Hrs	4			329		329	10.0%	33
1	04	02	08	03		Rack Assembly					350	2,370	31,086	2,580	33,666		3,367	
1	04	02	08	03		RCV: Circuit Breaker, 100A 480V, 3-pole,25kAIC -	7-Sep-07	7-Sep-07	SL_MSEG2	\$\$		640			686	686	10.0%	69
1	04	02	08	03		RCV: Panel	7-Sep-07	7-Sep-07	SL_MSEG2	\$\$		50			54	54	10.0%	5
1	04	02	08	03		RCV: Cables	7-Sep-07	7-Sep-07	SL_MSEG2	\$\$		100			107	107	10.0%	11
1	04	02	08	03		Assembly	15-Feb-08	22-Feb-08	SL_TMUE2	Hrs	40			3,918		3,918	10.0%	392
1	04	02	08	03		Assembly	15-Feb-08	22-Feb-08	SL_PCT2	Hrs	40			2,525		2,525	10.0%	252
1	04	02	08	03		Integrate Cables	25-Feb-08	29-Feb-08	SL_TMUE2	Hrs	40			3,918		3,918	10.0%	392
1	04	02	08	03		Pre-install Qual Test	3-Mar-08	5-Mar-08	SL_PCT2	Hrs	24			1,515		1,515	10.0%	151
1	04	02	08	03		Pre-install Qual Test	3-Mar-08	5-Mar-08	SL_PCE2	Hrs	24			2,767		2,767	10.0%	277
1	04	02	08	03		Pre-install Qual Test	3-Mar-08	5-Mar-08	SL_PCCA2	Hrs	1			67		67	10.0%	7
1	04	02	08	03		Pre-install Qual Test	3-Mar-08	5-Mar-08	SL_CE2	Hrs	24			2,767		2,767	10.0%	277
1	04	02	08	03		RCV: Circuit Breaker, 100A 480V, 3-pole,25kAIC -	2-Jan-08	2-Jan-08	SL_MSEG2	\$\$		640			702	702	10.0%	70
1	04	02	08	03		RCV: Panel	2-Jan-08	2-Jan-08	SL_MSEG2	\$\$		50			55	55	10.0%	5

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline Description	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont %	Contingency \$
1	2	3	4	5	6						Hours	\$	Labor	M&S	Total		
1	04	02	08	03	6						RCV: Cables	2-Jan-08	2-Jan-08	SL_MSEG2	\$\$		
1	04	02	08	03		Integrate Cables	4-May-07	8-May-07	SL_TMUE2	Hrs	24	2,298		2,298	10.0%	230	
1	04	02	08	03		Pre-install Qual Test	9-May-07	15-May-07	SL_PCT2	Hrs	40	2,468		2,468	10.0%	247	
1	04	02	08	03		Pre-install Qual Test	9-May-07	15-May-07	SL_PCE2	Hrs	40	4,508		4,508	10.0%	451	
1	04	02	08	03		Pre-install Qual Test	9-May-07	15-May-07	SL_PCCA2	Hrs	5	328		328	10.0%	33	
1	04	02	08	03		Pre-install Qual Test	9-May-07	15-May-07	SL_CP2	Hrs	40	3,287		3,287	10.0%	329	
1	04	02	08	03		RCV: Circuit Breaker, 100A 480V, 3-pole,25kAIC -	2-Jan-08	2-Jan-08	SL_MSEG2	\$\$	640		702	702	10.0%	70	
1	04	02	08	03		RCV: Panel	2-Jan-08	2-Jan-08	SL_MSEG2	\$\$	50		55	55	10.0%	5	
1	04	02	08	03		RCV: Cables	2-Jan-08	2-Jan-08	SL_MSEG2	\$\$	100		110	110	10.0%	11	
1	04	02	08	03		Integrate Cables	4-Jan-08	4-Jan-08	SL_TMUE2	Hrs	2	196		196	10.0%	20	
1	04	02	08	03		Pre-install Qual Test	7-Jan-08	7-Jan-08	SL_PCT2	Hrs	2	126		126	10.0%	13	
1	04	02	08	03		Pre-install Qual Test	7-Jan-08	7-Jan-08	SL_PCE2	Hrs	2	231		231	10.0%	23	
1	04	02	08	03		Pre-install Qual Test	7-Jan-08	7-Jan-08	SL_CP2	Hrs	2	168		168	10.0%	17	
1	04	02	08	04		System Checkout					56	-	4,711	-	4,711		471
1	04	02	08	04		Intra-rack cable connections	17-Mar-08	18-Mar-08	SL_TMUE2	Hrs	5	490		490	10.0%	49	
1	04	02	08	04		Intra-rack cable connections	17-Mar-08	18-Mar-08	SL_CP2	Hrs	2	168		168	10.0%	17	
1	04	02	08	04		Integration Testing	1-Apr-08	14-Apr-08	SL_PCT2	Hrs	27	1,704		1,704	10.0%	170	
1	04	02	08	04		Integration Testing	1-Apr-08	14-Apr-08	SL_PCE2	Hrs	16	1,845		1,845	10.0%	184	
1	04	02	08	04		Integration Testing	1-Apr-08	14-Apr-08	SL_CP2	Hrs	6	504		504	10.0%	50	
1	04	02	10			Undualtor Controls Module					2,147	980,000	207,705	1,006,658	1,214,362		256,088
1	04	02	10	01		UCM Hardware Design					203	-	22,366	-	22,366		4,826
1	04	02	10	01		Create ESD	1-May-07	7-May-07	AN_CE2	Hrs	109	12,009		12,009	20.0%	2,402	
1	04	02	10	01		Prepare for PDR	8-May-07	10-May-07	AN_CE2	Hrs	5	551		551	20.0%	110	
1	04	02	10	01		Conduct PDR	11-May-07	11-May-07	AN_CE2	Hrs	9	992		992	20.0%	198	
1	04	02	10	01		UCM Design	14-May-07	25-May-07	AN_CE2	Hrs	32	3,526		3,526	30.0%	1,058	
1	04	02	10	01		Prepare for FDR	29-May-07	4-Jun-07	AN_CE2	Hrs	40	4,407		4,407	20.0%	881	
1	04	02	10	01		Conduct FDR	5-Jun-07	5-Jun-07	AN_CE2	Hrs	8	881		881	20.0%	176	
1	04	02	10	02		UCM EPICS Development					256	-	28,206	-	28,206		6,963
1	04	02	10	02		Prepare for PDR	1-May-07	7-May-07	AN_CE2	Hrs	40	4,407		4,407	20.0%	881	
1	04	02	10	02		Conduct PDR	8-May-07	8-May-07	AN_CE2	Hrs	8	881		881	20.0%	176	
1	04	02	10	02		Software design	9-May-07	30-May-07	AN_CE2	Hrs	120	13,221		13,221	30.0%	3,966	
1	04	02	10	02		Prepare for FDR	31-May-07	6-Jun-07	AN_CE2	Hrs	40	4,407		4,407	20.0%	881	
1	04	02	10	02		Conduct FDR	7-Jun-07	7-Jun-07	AN_CE2	Hrs	8	881		881	20.0%	176	
1	04	02	10	02		Integrate UCM Software with SLAC	9-Jul-07	13-Jul-07	AN_CE2	Hrs	40	4,407		4,407	20.0%	881	
1	04	02	10	03		Procure UCMI Prototype					48	5,000	5,289	5,115	10,404		2,504
1	04	02	10	03		Vendor search for UCMI assy vendor	6-Jun-07	12-Jun-07	AN_CE2	Hrs	40	4,407		4,407	20.0%	881	
1	04	02	10	03		Prepare requisition for UCMI Prototype	13-Jun-07	13-Jun-07	AN_CE2	Hrs	8	881		881	10.0%	88	
1	04	02	10	03		RCV First article UCMI	10-Aug-07	10-Aug-07	AN_MSEG2	\$\$		5,000		5,115	30.0%	1,535	
1	04	02	10	04		UCMI Proto H/W Assembly					80	-	5,175	-	5,175		1,552
1	04	02	10	04		Assemble first prototype	13-Aug-07	24-Aug-07	AN_CT2	Hrs	80	5,175		5,175	30.0%	1,552	
1	04	02	10	05		UCMI Prototype Testing					232	-	24,898	-	24,898		5,420
1	04	02	10	05		Assemble prototype rack	27-Aug-07	28-Aug-07	AN_CE2	Hrs	16	1,763		1,763	20.0%	353	
1	04	02	10	05		Installation in LTT	29-Aug-07	30-Aug-07	AN_CT2	Hrs	16	1,035		1,035	20.0%	207	
1	04	02	10	05		Software integration	31-Aug-07	7-Sep-07	AN_CE2	Hrs	40	4,407		4,407	30.0%	1,322	
1	04	02	10	05		Integrated testing	10-Sep-07	5-Oct-07	AN_CE2	Hrs	160	17,693		17,693	20.0%	3,539	
1	04	02	10	06		UCMI Blade IOC First Article					8	10,000	881	10,230	11,111		3,157
1	04	02	10	06		Prepare req. for blade IOC	14-Jun-07	14-Jun-07	AN_ME2	Hrs	8	881		881	10.0%	88	
1	04	02	10	06		RCV proto blade IOC	15-Jun-07	15-Jun-07	AN_MSEG2	\$\$		10,000		10,230	30.0%	3,069	
1	04	02	10	07		Procure UCMI First Article					72	5,000	8,115	5,233	13,348		3,013
1	04	02	10	07		Prepare bid package for UCM Interface	8-Oct-07	16-Oct-07	AN_ME2	Hrs	56	6,312		6,312	20.0%	1,262	
1	04	02	10	07		Evaluate vendor proposals UCMI	7-Nov-07	8-Nov-07	AN_ME2	Hrs	16	1,803		1,803	10.0%	180	
1	04	02	10	07		RCV First article UCMI	4-Jan-08	4-Jan-08	AN_MSEG2	\$\$		5,000		5,233	30.0%	1,570	
1	04	02	10	08		UCM First Article Testing and QA					96	-	10,820	-	10,820		1,082
1	04	02	10	08		Validation of UCMI First Article	7-Jan-08	18-Jan-08	AN_ME2	Hrs	48	5,410		5,410	10.0%	541	
1	04	02	10	08		Validation of UCMI First Article	7-Jan-08	18-Jan-08	AN_CE2	Hrs	32	3,607		3,607	10.0%	361	
1	04	02	10	08		Write QA Procedure for UCMI	7-Jan-08	8-Jan-08	AN_ME2	Hrs	16	1,803		1,803	10.0%	180	
1	04	02	10	09		Procure Production UCMI					248	170,000	22,368	177,910	200,278		39,965
1	04	02	10	09		Prepare req for production UCMI	21-Jan-08	21-Jan-08	AN_ME2	Hrs	8	902		902	10.0%	90	
1	04	02	10	09		RCV production UCMI	19-Feb-08	19-Feb-08	AN_MSEG2	\$\$		170,000		177,910	20.0%	35,582	
1	04	02	10	09		Production UCMI unit tests	20-Feb-08	11-Mar-08	AN_CT2	Hrs	120	7,941		7,941	20.0%	1,588	
1	04	02	10	09		Production UCMI unit tests	20-Feb-08	11-Mar-08	AN_CE2	Hrs	120	13,526		13,526	20.0%	2,705	
1	04	02	10	10		Procure Production Blade IOC					160	340,000	13,989	347,820	361,809		72,362
1	04	02	10	10		RCV production IOC	10-Aug-07	10-Aug-07	AN_MSEG2	\$\$		340,000		347,820	20.0%	69,564	
1	04	02	10	10		Production IOC units tested	13-Aug-07	24-Aug-07	AN_CT2	Hrs	80	5,175		5,175	20.0%	1,035	
1	04	02	10	10		Production IOC units tested	13-Aug-07	24-Aug-07	AN_CE2	Hrs	80	8,814		8,814	20.0%	1,763	
1	04	02	10	11		Procure Production Motors					248	350,000	21,865	358,050	379,915		75,983
1	04	02	10	11		RCV production Motors	6-Jul-07	6-Jul-07	AN_MSEG2	\$\$		350,000		358,050	20.0%	71,610	
1	04	02	10	11		Production Motors unit tests	9-Jul-07	27-Jul-07	AN_CT2	Hrs	120	7,762		7,762	20.0%	1,552	
1	04	02	10	11		Production Motors unit tests	9-Jul-07	27-Jul-07	AN_CE2	Hrs	120	13,221		13,221	20.0%	2,644	
1	04	02	10	11		Ship Motors to Und. Assy Vendors	30-Jul-07	30-Jul-07	AN_ME2	Hrs	8	881		881	20.0%	176	
1	04	02	10	12		Procure Production Potentiometers					248	75,000	21,865	76,725	98,590		27,302
1	04	02	10	12		RCV production Potentiometers	5-Jun-07	5-Jun-07	AN_MSEG2	\$\$		75,000		76,725	30.0%	23,018	

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early	Early	Res	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont	Contingency
						Description	Start	Finish	Code		Hours	\$	Labor	M&S	Total	%	\$
1	04	02	10	12	6	Production Potentiometers unit tests	6-Jun-07	26-Jun-07	AN_CT2	Hrs	120		7,762		7,762	20.0%	1,552
1	04	02	10	12		Production Potentiometers unit tests	6-Jun-07	26-Jun-07	AN_CE2	Hrs	120		13,221		13,221	20.0%	2,644
1	04	02	10	12		Ship Potentiometers to Und. Assy Vendors	27-Jun-07	27-Jun-07	AN_ME2	Hrs	8		881		881	10.0%	88
1	04	02	10	13		Procure Production RTD					248	25,000	21,865	25,575	47,440		11,957
1	04	02	10	13		RCV production RTD	5-Jun-07	5-Jun-07	AN_MSEG2	\$\$		25,000		25,575	25,575	30.0%	7,673
1	04	02	10	13		Production RTD unit tests	6-Jun-07	26-Jun-07	AN_CT2	Hrs	120		7,762		7,762	20.0%	1,552
1	04	02	10	13		Production RTD unit tests	6-Jun-07	26-Jun-07	AN_CE2	Hrs	120		13,221		13,221	20.0%	2,644
1	04	02	10	13		Ship RTDs to Und. Assy Vendors	27-Jun-07	27-Jun-07	AN_ME2	Hrs	8		881		881	10.0%	88
1	04	02	12			Rack and Cables					1,384	647,000	99,626	687,336	786,962		99,779
1	04	02	12	01		Undulator Racks					1,084	120,000	79,310	125,348	204,658		29,976
1	04	02	12	01		Undulator rack design	1-May-07	14-May-07	AN_CT2	Hrs	80		5,175		5,175	30.0%	1,552
1	04	02	12	01		Complete ESD	15-May-07	29-May-07	AN_CT2	Hrs	38		2,458		2,458	20.0%	492
1	04	02	12	01		Complete ESD	15-May-07	29-May-07	AN_CE2	Hrs	38		4,187		4,187	20.0%	837
1	04	02	12	01		Motor power supply design	30-May-07	5-Jun-07	AN_CT2	Hrs	40		2,587		2,587	30.0%	776
1	04	02	12	01		AC Interrupt chassis design	6-Jun-07	12-Jun-07	AN_CT2	Hrs	40		2,587		2,587	30.0%	776
1	04	02	12	01		Cable tray layout/routing	13-Jun-07	11-Jul-07	AN_MDD2	Hrs	160		10,350		10,350	20.0%	2,070
1	04	02	12	01		Cable tray layout/routing	13-Jun-07	11-Jul-07	AN_CT2	Hrs	160		10,350		10,350	20.0%	2,070
1	04	02	12	01		Tray loading and design	12-Jul-07	8-Aug-07	AN_CT2	Hrs	160		10,350		10,350	10.0%	1,035
1	04	02	12	01		Prepare LTT rack order	9-Aug-07	15-Aug-07	AN_ME2	Hrs	40		4,407		4,407	20.0%	881
1	04	02	12	01		Prepare LTT rack order	9-Aug-07	15-Aug-07	AN_CT2	Hrs	40		2,587		2,587	20.0%	517
1	04	02	12	01		RCV LTT RACKS	28-Sep-07	28-Sep-07	AN_MSEG2	\$\$		10,000		10,230	10,230	30.0%	3,069
1	04	02	12	01		Install rack in LTT and populate	1-Oct-07	5-Oct-07	AN_CT2	Hrs	40		2,647		2,647	30.0%	794
1	04	02	12	01		Install rack in LTT and populate	1-Oct-07	5-Oct-07	AN_CE2	Hrs	40		4,509		4,509	30.0%	1,353
1	04	02	12	01		FDR Rack Layout	8-Oct-07	12-Oct-07	AN_CT2	Hrs	40		2,647		2,647	10.0%	265
1	04	02	12	01		FDR Rack Layout	8-Oct-07	12-Oct-07	AN_CE2	Hrs	40		4,509		4,509	10.0%	451
1	04	02	12	01		Prepare req for production SBR	15-Oct-07	15-Oct-07	AN_ME2	Hrs	8		902		902	10.0%	90
1	04	02	12	01		RCV Production Service Building Racks	29-Nov-07	29-Nov-07	AN_MSEG2	\$\$		55,000		57,559	57,559	10.0%	5,756
1	04	02	12	01		Prepare req for production ITR	30-Nov-07	30-Nov-07	AN_ME2	Hrs	8		902		902	10.0%	90
1	04	02	12	01		RCV Production In Tunnel Racks	23-Jan-08	23-Jan-08	AN_MSEG2	\$\$		55,000		57,559	57,559	10.0%	5,756
1	04	02	12	01		Assemble production components	12-Mar-08	25-Mar-08	AN_CT2	Hrs	80		5,294		5,294	20.0%	1,059
1	04	02	12	01		Ship loaded racks to SLAC	26-Mar-08	27-Mar-08	AN_ME2	Hrs	16		1,803		1,803	10.0%	180
1	04	02	12	01		Ship loaded racks to SLAC	26-Mar-08	27-Mar-08	AN_CT2	Hrs	16		1,059		1,059	10.0%	106
1	04	02	12	02		Intra-Undulator Cabling					212	105,000	14,260	107,415	121,675		16,274
1	04	02	12	02		Prepare requests for cable components	1-May-07	14-May-07	AN_ME2	Hrs	4		441		441	10.0%	44
1	04	02	12	02		RCV Cable components	5-Jun-07	5-Jun-07	AN_MSEG2	\$\$		55,000		56,265	56,265	15.0%	8,440
1	04	02	12	02		Inspect cable components	6-Jun-07	12-Jun-07	AN_CT2	Hrs	40		2,587		2,587	20.0%	517
1	04	02	12	02		Prepare bid package for cable fab	13-Jun-07	11-Jul-07	AN_CT2	Hrs	160		10,350		10,350	20.0%	2,070
1	04	02	12	02		Prepare req for production Cables	12-Jul-07	12-Jul-07	AN_ME2	Hrs	8		881		881	10.0%	88
1	04	02	12	02		RCV production Cables	17-Sep-07	17-Sep-07	AN_MSEG2	\$\$		50,000		51,150	51,150	10.0%	5,115
1	04	02	12	03		Electronics Interface Assembly					88	112,000	6,056	114,576	120,632		19,529
1	04	02	12	03		EIA Drawings	1-May-07	7-May-07	AN_MDD2	Hrs	40		2,587		2,587	30.0%	776
1	04	02	12	03		EIA Drawings	1-May-07	7-May-07	AN_CT2	Hrs	40		2,587		2,587	30.0%	776
1	04	02	12	03		RCV: First Article EIA	26-Jun-07	26-Jun-07	AN_MSEG2	\$\$		4,000		4,092	4,092	30.0%	1,228
1	04	02	12	03		Prepare req for production EIA	27-Jun-07	27-Jun-07	AN_ME2	Hrs	8		881		881	20.0%	176
1	04	02	12	03		RCV production EIA	31-Aug-07	31-Aug-07	AN_MSEG2	\$\$		108,000		110,484	110,484	15.0%	16,573
1	04	02	12	04		Undulator Cableplant					-	310,000	-	339,996	339,996		34,000
1	04	02	12	04		RCV: Undulator Cableplant	10-Apr-08	10-Apr-08	SL_MSEG2	\$\$		310,000		339,996	339,996	10.0%	34,000
1	04	02	13			BPM					192	-	21,154	-	21,154		5,112
1	04	02	13	01		APS Testing					192	-	21,154	-	21,154		5,112
1	04	02	13	01		Algorithm Development	1-May-07	14-May-07	AN_CE2	Hrs	80		8,814		8,814	30.0%	2,644
1	04	02	13	01		BPM Test support	1-May-07	14-May-07	AN_CE2	Hrs	80		8,814		8,814	20.0%	1,763
1	04	02	13	01		EPICS support	1-May-07	4-May-07	AN_CE2	Hrs	32		3,526		3,526	20.0%	705
1	04	02	14			Long Term Test Prep					560	-	43,555	-	43,555		8,711
1	04	02	14			Hardware Layout Support	1-May-07	14-May-07	AN_CT2	Hrs	80		5,175		5,175	20.0%	1,035
1	04	02	14			Software Support - Vendor CAM test	1-May-07	29-May-07	AN_CP1	Hrs	160		17,680		17,680	20.0%	3,536
1	04	02	14			Hardware Support - Vendor CAM test	1-May-07	25-May-07	AN_CT2	Hrs	320		20,700		20,700	20.0%	4,140
1	04	02	17			Undulator Controls Management					2,117	-	236,945	-	236,945		23,694
1	04	02	17			Technical Management TEC	1-May-07	31-Mar-08	AN_CE2	Hrs	1,596		178,042		178,042	10.0%	17,804
1	04	02	17			Technical Management - OPC	1-Apr-08	29-Oct-08	AN_CE2	Hrs	521		58,902		58,902	10.0%	5,890
1	04	02	20			Undulator Controls - MPS					1,216	99,000	105,549	108,579	214,129		57,819
1	04	02	20	02		Undulator MPS - IMUX					480	51,000	41,460	55,935	97,394		27,537
1	04	02	20	02		Software design	2-Jan-08	23-Jan-08	SL_CP2	Hrs	40		3,362		3,362	30.0%	1,009
1	04	02	20	02		Integrate MPS IMUX software with SLAC	19-Feb-08	17-Mar-08	SL_CP2	Hrs	200		16,812		16,812	20.0%	3,362
1	04	02	20	02		RCV: MPS IMUX Hardware	1-Apr-08	1-Apr-08	SL_MSEG2	\$\$		51,000		55,935	55,935	30.0%	16,780
1	04	02	20	02		Assemble & Pre-install MPS IMUX Production Units	2-Apr-08	15-Apr-08	SL_TMUE2	Hrs	80		7,835		7,835	30.0%	2,351
1	04	02	20	02		Integrate & Test MPS IMUX Hardware	16-Apr-08	29-Apr-08	SL_CP2	Hrs	160		13,450		13,450	30.0%	4,035
1	04	02	20	03		Undulator MPS - TIU					280	5,000	24,647	5,484	30,131		6,026
1	04	02	20	03		Integrate MPS TIU software with SLAC	4-Jan-08	1-Feb-08	SL_CP2	Hrs	80		6,725		6,725	20.0%	1,345
1	04	02	20	03		RCV: MPS TIU Hardware	19-Feb-08	19-Feb-08	SL_MSEG2	\$\$		5,000		5,484	5,484	20.0%	1,097
1	04	02	20	03		Assemble & Pre-install MPS TIU Production Units	20-Feb-08	4-Mar-08	SL_TMUE2	Hrs	80		7,835		7,835	20.0%	1,567
1	04	02	20	03		Integrate & Test MPS TIU Hardware	5-Mar-08	18-Mar-08	SL_CP2	Hrs	120		10,087		10,087	20.0%	2,017
1	04	02	20	04		Undulator MPS - PLIC					456	15,000	39,442	16,451	55,894		15,043

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early	Early	Res	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont	Contingency	
						Description	Start	Finish	Code		Hours	\$	Labor	M&S	Total	%	\$	
1	04	02	20	04	6	Software design	1-Nov-07	21-Nov-07	SL_CP2	Hrs	120		10,087		10,087	30.0%	3,026	
1	04	02	20	04	Prototype testing	26-Nov-07	7-Dec-07	SL_CP2	Hrs	80		6,725		6,725	30.0%	2,017		
1	04	02	20	04	Prepare for FDR	10-Dec-07	14-Dec-07	SL_CP2	Hrs	40		3,362		3,362	10.0%	336		
1	04	02	20	04	Conduct FDR	2-Jan-08	3-Jan-08	SL_CP2	Hrs	16		1,345		1,345	10.0%	134		
1	04	02	20	04	RCV: MPS PLIC Hardware	19-Feb-08	19-Feb-08	SL_MSEG2	\$\$		15,000		16,451		16,451	30.0%	4,935	
1	04	02	20	04	Assemble & Pre-install MPS PLIC Production Units	20-Feb-08	4-Mar-08	SL_TMUE2	Hrs	80		7,835		7,835	20.0%	1,567		
1	04	02	20	04	Integrate & Test MPS PLIC Hardware	5-Mar-08	18-Mar-08	SL_CP2	Hrs	120		10,087		10,087	30.0%	3,026		
1	04	02	20	05	Undulator Controls MPS -Toroids							28,000		30,709		30,709		9,213
1	04	02	20	05	RCV: MPS TOROIDS Hardware	15-Jan-08	15-Jan-08	SL_MSEG2	\$\$			28,000		30,709		30,709	30.0%	9,213
1	04	02	21	Undulator Controls - Timing							128	23,096	10,871	25,226		36,096		6,735
1	04	02	21	DBs and Displays	2-Jan-08	27-Mar-08	SL_CP2	Hrs	96			8,070		8,070	30.0%	2,421		
1	04	02	21	RCV: 10 EVRs	14-Feb-08	14-Feb-08	SL_MSEG2	\$\$			12,000		13,161		13,161	10.0%	1,316	
1	04	02	21	RCV: 3 Fanouts	14-Feb-08	14-Feb-08	SL_MSEG2	\$\$			6,000		6,581		6,581	20.0%	1,316	
1	04	02	21	RCV: 8 Transition Modules	14-Feb-08	14-Feb-08	SL_MSEG2	\$\$			4,000		4,387		4,387	20.0%	877	
1	04	02	21	RCV: Connector and Cables	14-Feb-08	14-Feb-08	SL_MSEG2	\$\$			1,000		1,097		1,097	10.0%	110	
1	04	02	21	Assemble & Pre-install Production Units	15-Feb-08	29-Feb-08	SL_TMUE2	Hrs	8			784		784	20.0%	157		
1	04	02	21	Assemble & Pre-install Production Units	15-Feb-08	29-Feb-08	SL_CP2	Hrs	8			672		672	20.0%	134		
1	04	02	21	Integration & Test	28-Mar-08	10-Apr-08	SL_CP2	Hrs	16			1,345		1,345	30.0%	403		
1	04	02	22	Undulator Controls - BPM							560	104,900	63,876	112,464		176,339		22,565
1	04	02	22	Algorithm Development	1-May-07	14-May-07	SL_CE2	Hrs	32			3,606		3,606	40.0%	1,443		
1	04	02	22	Test Support	16-May-07	30-May-07	SL_CE2	Hrs	32			3,606		3,606	40.0%	1,443		
1	04	02	22	DBs and Displays	2-Jan-08	28-Feb-08	SL_CE2	Hrs	192			22,136		22,136	20.0%	4,427		
1	04	02	22	Procure: BPMs Hardware	1-Jun-07	24-Sep-07	SL_CE2	Hrs	10			1,127		1,127	20.0%	225		
1	04	02	22	RCV: 33 PADS	25-Sep-07	25-Sep-07	SL_MSEG2	\$\$			22,000		23,586		23,586	30.0%	7,076	
1	04	02	22	RCV: 4 Transition Pannels	25-Sep-07	25-Sep-07	SL_MSEG2	\$\$			600		643		643	20.0%	129	
1	04	02	22	RCV: 99 Jumpers PADS to Transition panel 3/BPM	25-Sep-07	25-Sep-07	SL_MSEG2	\$\$			5,000		5,361		5,361	0.0%	0	
1	04	02	22	RCV: 33 Dgitizers Chassis	25-Sep-07	25-Sep-07	SL_MSEG2	\$\$			33,000		35,379		35,379	0.0%	0	
1	04	02	22	RCV: 4 VME Crates & CPUs	25-Sep-07	25-Sep-07	SL_MSEG2	\$\$			36,000		38,596		38,596	0.0%	0	
1	04	02	22	RCV: Bracket for Tunnel - 33	25-Sep-07	25-Sep-07	SL_MSEG2	\$\$			1,650		1,769		1,769	0.0%	0	
1	04	02	22	RCV: Jumper Cables for tunner - 100	25-Sep-07	25-Sep-07	SL_MSEG2	\$\$			5,000		5,361		5,361	0.0%	0	
1	04	02	22	RCV: LO Sync (Timing) Distrib Cables (tunnel)	25-Sep-07	25-Sep-07	SL_MSEG2	\$\$			1,650		1,769		1,769	20.0%	354	
1	04	02	22	Fabricate Undulator BPM Hardware	26-Sep-07	20-Nov-07	SL_CE2	Hrs	160			18,409		18,409	20.0%	3,682		
1	04	02	22	Assemble & Pre-install Production Units	14-Jan-08	28-Jan-08	SL_TMUE2	Hrs	16			1,567		1,567	20.0%	313		
1	04	02	22	Assemble & Pre-install Production Units	14-Jan-08	28-Jan-08	SL_CE2	Hrs	16			1,845		1,845	20.0%	369		
1	04	02	22	Integration & Test	29-Feb-08	27-Mar-08	SL_CE2	Hrs	32			3,689		3,689	20.0%	738		
1	04	02	22	Test Data Analysis and Algorithm Specification	31-May-07	13-Jun-07	SL_CE2	Hrs	70			7,889		7,889	30.0%	2,367		
1	04	02	23	Undulator Controls - Vacuum							160	162,200	13,990	173,895		187,885		18,789
1	04	02	23	DBs and Displays	2-Jan-08	15-Jan-08	SL_CP2	Hrs	80			6,725		6,725	10.0%	672		
1	04	02	23	Procure: Vacuum Hardware	1-Jun-07	24-Aug-07	SL_CP2	Hrs	8			657		657	10.0%	66		
1	04	02	23	RCV: 17 Ion Pump Controllers	27-Aug-07	27-Aug-07	SL_MSEG2	\$\$			61,200		65,613		65,613	10.0%	6,561	
1	04	02	23	RCV: Vacuum Gauge Controllers	27-Aug-07	27-Aug-07	SL_MSEG2	\$\$			8,000		8,577		8,577	10.0%	858	
1	04	02	23	RCV: 2 Valve Controllers	27-Aug-07	27-Aug-07	SL_MSEG2	\$\$			8,000		8,577		8,577	10.0%	858	
1	04	02	23	RCV: 2 PLC Interfaces	27-Aug-07	27-Aug-07	SL_MSEG2	\$\$			68,000		72,903		72,903	10.0%	7,290	
1	04	02	23	RCV: Connector and Cables	27-Aug-07	27-Aug-07	SL_MSEG2	\$\$			5,000		5,361		5,361	10.0%	536	
1	04	02	23	RCV: ILC	27-Aug-07	27-Aug-07	SL_MSEG2	\$\$			12,000		12,865		12,865	10.0%	1,287	
1	04	02	23	Assemble & Pre-install Production Units	2-Jan-08	15-Jan-08	SL_TMUE2	Hrs	40			3,918		3,918	10.0%	392		
1	04	02	23	Assemble & Pre-install Production Units	2-Jan-08	15-Jan-08	SL_CP2	Hrs	16			1,345		1,345	10.0%	134		
1	04	02	23	Integration & Test	16-Jan-08	23-Jan-08	SL_CP2	Hrs	16			1,345		1,345	10.0%	134		
1	04	02	24	Undulator Controls - ADS System							80	-	6,725	-	6,725		2,690	
1	04	02	24	Software Integration	4-Mar-08	31-Mar-08	SL_CP2	Hrs	80			6,725		6,725	40.0%	2,690		
1	04	03	Undulator Magnet & Support							31,682	5,134,489	2,785,366	5,212,780		7,998,146		2,069,759	
1	04	03	03	1st Article Undulators & Long Lead Procurements						2,534	659,581	226,255	667,200		893,455		118,619	
1	04	03	03	04	Magnet Assembly & Supports - 1st Articles					644	529,581	64,586	531,659		596,246		89,437	
1	04	03	03	04	03	Support/Mover System - Articles 1 & 2				644	529,581	64,586	531,659		596,246		89,437	
1	04	03	03	04	03	AWARD: Support/Mover System 1st Art (2 units)	8-May-07	8-May-07	AN_AWARD	\$\$		440,000		477,539		477,539	15.0%	71,631
1	04	03	03	04	03	Vendor Prep & Documentation-Support/Mover System	9-May-07	22-May-07	AN_ME2	Hrs	16		1,763		1,763	15.0%	264	
1	04	03	03	04	03	Vendor Prep & Documentation-Support/Mover System	9-May-07	22-May-07	AN_CE2	Hrs	16		1,763		1,763	15.0%	264	
1	04	03	03	04	03	Construction 1st Two Articles - Supt/Mover Sys	23-May-07	14-Sep-07	AN_ME2	Hrs	80		8,814		8,814	15.0%	1,322	
1	04	03	03	04	03	Construction 1st Two Articles - Supt/Mover Sys	23-May-07	14-Sep-07	AN_CE2	Hrs	80		8,814		8,814	15.0%	1,322	
1	04	03	03	04	03	Factory Accept Testing 1st Art - Supt/Mover Sys	20-Jul-07	24-Jul-07	AN_PHS2	Hrs	24		2,644		2,644	15.0%	397	
1	04	03	03	04	03	Factory Accept Testing 1st Art - Supt/Mover Sys	20-Jul-07	24-Jul-07	AN_ME2	Hrs	24		2,644		2,644	15.0%	397	
1	04	03	03	04	03	Factory Accept Testing 1st Art - Supt/Mover Sys	20-Jul-07	24-Jul-07	AN_CE2	Hrs	24		2,644		2,644	15.0%	397	
1	04	03	03	04	03	REC: 1st Articles Support/Mover System at ANL	1-Aug-07	1-Aug-07	AA_MSSF2	\$\$		250,000		250,000		250,000	15.0%	37,500
1	04	03	03	04	03	Evaluate 1st Articles Support/Mover	2-Aug-07	30-Aug-07	AN_MSSC2	\$\$		60,000		61,380		61,380	15.0%	9,207
1	04	03	03	04	03	Evaluate 1st Articles Support/Mover	2-Aug-07	30-Aug-07	AN_MFAT2	Hrs	80		5,175		5,175	15.0%	776	
1	04	03	03	04	03	Evaluate 1st Articles Support/Mover	2-Aug-07	30-Aug-07	AN_ME2	Hrs	60		6,611		6,611	15.0%	992	
1	04	03	03	04	03	Evaluate 1st Articles Support/Mover	2-Aug-07	30-Aug-07	AN_CT2	Hrs	60		3,881		3,881	15.0%	582	
1	04	03	03	04	03	Evaluate 1st Articles Support/Mover	2-Aug-07	30-Aug-07	AN_CE2	Hrs	20		2,204		2,204	15.0%	331	
1	04	03	03	04	03	Ship 1st Articles to SLAC	31-Aug-07	5-Sep-07	AN_MSEG2	\$\$		5,000		5,115		5,115	15.0%	767
1	04	03	03	04	03	Factory Accept Testing 2nd Art - Supt/Mover Sys	17-Sep-07	19-Sep-07	AN_PHS2	Hrs	24		2,644		2,644	15.0%	397	
1	04	03	03	04	03	Factory Accept Testing 2nd Art - Supt/Mover Sys	17-Sep-07	19-Sep-07	AN_ME2	Hrs	24		2,644		2,644	15.0%	397	
1	04	03	03	04	03	Factory Accept Testing 2nd Art - Supt/Mover Sys	17-Sep-07	19-Sep-07	AN_CE2	Hrs	24		2,644		2,644	15.0%	397	

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early	Early	Res	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont	Contingency	
						Description	Start	Finish	Code		Hours	\$	Labor	M&S	Total	%	\$	
1	04	03	03	04	03	REC: 2nd Articles Support/Mover System at ANL	4-Oct-07	4-Oct-07	AA_MSSF2	\$\$		190,000			190,000	190,000	15.0%	28,500
1	04	03	03	04	03	Ship 2nd Articles to SLAC	20-Sep-07	3-Oct-07	AN_MSEG2	\$\$		5,000			5,133	5,133	15.0%	770
1	04	03	03	04	03	Survey & Align/Prep for Accept Msmts	1-May-07	28-Sep-07	AN_MSEG2	\$\$		831			850	850	15.0%	128
1	04	03	03	04	03	Survey & Align/Prep for Accept Msmts	1-May-07	28-Sep-07	AN_MES2	Hrs	82			9,035	9,035	15.0%	1,355	
1	04	03	03	04	03	Evaluate Bids - Support/Mover System	1-May-07	7-May-07	AN_PHS2	Hrs	2			220	220	15.0%	33	
1	04	03	03	04	03	Evaluate Bids - Support/Mover System	1-May-07	7-May-07	AN_ME2	Hrs	2			220	220	15.0%	33	
1	04	03	03	04	03	Evaluate Bids - Support/Mover System	1-May-07	7-May-07	AN_CE2	Hrs	2			220	220	15.0%	33	
1	04	03	03	04	03	Const Camshaft Mvr Test Apparatus for 2 Vendors	1-May-07	21-Jun-07	AN_MSEG2	\$\$		18,750			19,181	19,181	15.0%	2,877
1	04	03	03	05		Magnetic Measurement (ANL)					80	5,000	5,416	5,353	10,769		538	
1	04	03	03	05	01	Magnetic Measurement (ANL) - Vendor A Und #1					80	5,000	5,416	5,353	10,769		538	
1	04	03	03	05	01	Ship Hi-Tech Und Article 01 (1st Art) to SLAC	20-Oct-08	27-Oct-08	AN_MSCS2	\$\$		5,000			5,353	5,353	5.0%	268
1	04	03	03	05	01	Disassemble/pack Undulator Hi-Tech Article 01	10-Oct-08	17-Oct-08	AN_MFAT2	Hrs	80			5,416	5,416	5.0%	271	
1	04	03	03	06		Integrated Single-Undulator Module Test					1,810	125,000	156,253	130,188	286,441		28,644	
1	04	03	03	06		Long-Term Stability Single Und Test	11-Jun-07	9-Oct-08	AN_PHS2	Hrs	50			5,609	5,609	10.0%	561	
1	04	03	03	06		Long-Term Stability Single Und Test	11-Jun-07	9-Oct-08	AN_MSEG2	\$\$		50,000			52,075	52,075	10.0%	5,208
1	04	03	03	06		Long-Term Stability Single Und Test	11-Jun-07	9-Oct-08	AN_MFAT2	Hrs	560			36,880	36,880	10.0%	3,688	
1	04	03	03	06		Long-Term Stability Single Und Test	11-Jun-07	9-Oct-08	AN_ME2	Hrs	700			78,520	78,520	10.0%	7,852	
1	04	03	03	06		Long-Term Stability Single Und Test	11-Jun-07	9-Oct-08	AN_MDD2	Hrs	450			29,636	29,636	10.0%	2,964	
1	04	03	03	06		Long-Term Stability Single Und Test	11-Jun-07	9-Oct-08	AN_CE2	Hrs	50			5,609	5,609	10.0%	561	
1	04	03	03	06		LTT-Specific Control Equipment	11-Jun-07	9-Oct-08	AN_MSEG2	\$\$		75,000			78,113	78,113	10.0%	7,811
1	04	03	04			Production Undulator Magnet Assembly & Supports					860	2,626,694	87,213	2,627,078	2,714,291		675,157	
1	04	03	04	01		Production Undulator Assembly - Vendor A					-	16,694	-	17,078	17,078		854	
1	04	03	04	01		Acceptance Measmt and Verif of Und Assy	1-May-07	1-Jun-07	AN_MSEG2	\$\$		2,444			2,500	2,500	5.0%	125
1	04	03	04	01		Misc. Assembly and Tuning Items	1-May-07	28-Sep-07	AN_MSEG2	\$\$		14,250			14,578	14,578	5.0%	729
1	04	03	04	03		Production Support/Mover Fabrication/Assembly					860	2,610,000	87,213	2,610,000	2,697,213		674,303	
1	04	03	04	03		AWARD: Support/Mover Production Units (34)	31-Aug-07	31-Aug-07	AN_AWARD	\$\$		2,610,000			2,832,672	2,832,672	25.0%	708,168
1	04	03	04	03		Vendor Fab Support/Mover Production Units	4-Sep-07	11-Jan-08	AN_PHS2	Hrs	50			5,609	5,609	25.0%	1,402	
1	04	03	04	03		Vendor Fab Support/Mover Production Units	4-Sep-07	11-Jan-08	AN_ME2	Hrs	510			57,213	57,213	25.0%	14,303	
1	04	03	04	03		Vendor Fab Support/Mover Production Units	4-Sep-07	11-Jan-08	AN_MDD2	Hrs	200			13,173	13,173	25.0%	3,293	
1	04	03	04	03		Vendor Fab Support/Mover Production Units	4-Sep-07	11-Jan-08	AN_CE2	Hrs	100			11,218	11,218	25.0%	2,805	
1	04	03	04	03		RCV: 2 Support/Movers	11-Sep-07	11-Sep-07	AA_MSSF2	\$\$		180,000			180,000	180,000	25.0%	45,000
1	04	03	04	03		RCV: 2 Support/Movers	18-Sep-07	18-Sep-07	AA_MSSF2	\$\$		180,000			180,000	180,000	25.0%	45,000
1	04	03	04	03		RCV: 2 Support/Movers	25-Sep-07	25-Sep-07	AA_MSSF2	\$\$		180,000			180,000	180,000	25.0%	45,000
1	04	03	04	03		RCV: 2 Support/Movers	2-Oct-07	2-Oct-07	AA_MSSF2	\$\$		180,000			180,000	180,000	25.0%	45,000
1	04	03	04	03		RCV: 2 Support/Movers	9-Oct-07	9-Oct-07	AA_MSSF2	\$\$		180,000			180,000	180,000	25.0%	45,000
1	04	03	04	03		RCV: 2 Support/Movers	16-Oct-07	16-Oct-07	AA_MSSF2	\$\$		180,000			180,000	180,000	25.0%	45,000
1	04	03	04	03		RCV: 2 Support/Movers	23-Oct-07	23-Oct-07	AA_MSSF2	\$\$		180,000			180,000	180,000	25.0%	45,000
1	04	03	04	03		RCV: 2 Support/Movers	30-Oct-07	30-Oct-07	AA_MSSF2	\$\$		180,000			180,000	180,000	25.0%	45,000
1	04	03	04	03		RCV: 2 Support/Movers	6-Nov-07	6-Nov-07	AA_MSSF2	\$\$		180,000			180,000	180,000	25.0%	45,000
1	04	03	04	03		RCV: 2 Support/Movers	13-Nov-07	13-Nov-07	AA_MSSF2	\$\$		180,000			180,000	180,000	25.0%	45,000
1	04	03	04	03		RCV: 2 Support/Movers	20-Nov-07	20-Nov-07	AA_MSSF2	\$\$		180,000			180,000	180,000	25.0%	45,000
1	04	03	04	03		RCV: 2 Support/Movers	29-Nov-07	29-Nov-07	AA_MSSF2	\$\$		180,000			180,000	180,000	25.0%	45,000
1	04	03	04	03		RCV: 2 Support/Movers	6-Dec-07	6-Dec-07	AA_MSSF2	\$\$		180,000			180,000	180,000	25.0%	45,000
1	04	03	04	03		RCV: 2 Support/Movers	13-Dec-07	13-Dec-07	AA_MSSF2	\$\$		180,000			180,000	180,000	25.0%	45,000
1	04	03	04	03		RCV: 1 Support/Mover	20-Dec-07	20-Dec-07	AA_MSSF2	\$\$		90,000			90,000	90,000	25.0%	22,500
1	04	03	05			Quadrupole Focusing Magnets					806	332,382	81,819	334,311	416,130		66,427	
1	04	03	05	01		Quadrupole Magnets					568	276,332	59,044	276,947	335,991		50,399	
1	04	03	05	01		Vendor Fab/Assy - Quad Magnet 1st Article (Q1)	1-May-07	23-May-07	AN_MSSF2	\$\$		19,000			19,000	19,000	15.0%	2,850
1	04	03	05	01		Vendor Fab/Assy - Quad Mag (Q2)	24-May-07	19-Jul-07	AN_MSSF2	\$\$		10,000			10,000	10,000	15.0%	1,500
1	04	03	05	01		Vendor Fab/Assy - Quad Mag (Q3)	23-Jul-07	4-Sep-07	AN_MSSF2	\$\$		15,000			15,000	15,000	15.0%	2,250
1	04	03	05	01		Vendor Fab/Assy - Quad Mag (Q4,Q5)	5-Sep-07	14-Sep-07	AN_MSSF2	\$\$		15,000			15,000	15,000	15.0%	2,250
1	04	03	05	01		Vendor Fab/Assy - Quad Mag (Q6,Q7)	17-Sep-07	28-Sep-07	AN_MSSF2	\$\$		15,000			15,000	15,000	15.0%	2,250
1	04	03	05	01		Vendor Fab/Assy - Quad Mag (Q8,Q9)	1-Oct-07	11-Oct-07	AN_MSSF2	\$\$		15,000			15,000	15,000	15.0%	2,250
1	04	03	05	01		Vendor Fab/Assy - Quad Mag (Q10,Q11)	12-Oct-07	30-Oct-07	AN_MSSF2	\$\$		15,000			15,000	15,000	15.0%	2,250
1	04	03	05	01		Vendor Fab/Assy - Quad Mag (Q12,Q13,Q14,Q15)	31-Oct-07	8-Nov-07	AN_MSSF2	\$\$		15,000			15,000	15,000	15.0%	2,250
1	04	03	05	01		Vendor Fab/Assy - Quad Mag (Q16,Q17,Q18,Q19)	9-Nov-07	26-Nov-07	AN_MSSF2	\$\$		15,000			15,000	15,000	15.0%	2,250
1	04	03	05	01		Vendor Fab/Assy - Quad Mag (Q20,Q21,Q22,Q23)	27-Nov-07	10-Dec-07	AN_MSSF2	\$\$		15,000			15,000	15,000	15.0%	2,250
1	04	03	05	01		Vendor Fab/Assy - Quad Mag (Q24,Q25,Q26,Q27)	11-Dec-07	2-Jan-08	AN_MSSF2	\$\$		15,000			15,000	15,000	15.0%	2,250
1	04	03	05	01		Vendor Fab/Assy - Quad Mag (Q28,Q29,Q30,Q31)	3-Jan-08	14-Jan-08	AN_MSSF2	\$\$		15,000			15,000	15,000	15.0%	2,250
1	04	03	05	01		Vendor Fab/Assy - Quad Mag (Q32,Q33,Q34,Q35)	15-Jan-08	28-Jan-08	AN_MSSF2	\$\$		15,000			15,000	15,000	15.0%	2,250
1	04	03	05	01		Vendor Fab/Assy - Quad Mag (Q36,Q37,2 Coils)	29-Jan-08	30-Jan-08	AN_MSSF2	\$\$		15,000			15,000	15,000	15.0%	2,250
1	04	03	05	01		Vendor Engineering Design	1-May-07	28-Jun-07	AN_ME2	Hrs	8			881	881	15.0%	132	
1	04	03	05	01		Vendor Anneal Laminations & Strips	1-May-07	28-Jun-07	AN_MSSF2	\$\$		456			456	456	15.0%	68
1	04	03	05	01		Vendor Procure Laminations and Conductor	1-May-07	28-Jun-07	AN_MSSF2	\$\$		20,350			20,350	20,350	15.0%	3,053
1	04	03	05	01		Vendor Fabricate Tooling	1-May-07	28-Jun-07	AN_MSSF2	\$\$		29,901			29,901	29,901	15.0%	4,485
1	04	03	05	01		ANL Vendor Management & 1st/2nd Art Testing	1-May-07	12-May-08	AN_PHS2	Hrs	127			14,184	14,184	15.0%	2,128	
1	04	03	05	01		ANL Vendor Management & 1st/2nd Art Testing	1-May-07	12-May-08	AN_MSEG2	\$\$		16,625			17,240	17,240	15.0%	2,586
1	04	03	05	01		ANL Vendor Management & 1st/2nd Art Testing	1-May-07	12-May-08	AN_MFAT2	Hrs	95			6,229	6,229	15.0%	934	
1	04	03	05	01		ANL Vendor Management & 1st/2nd Art Testing	1-May-07	12-May-08	AN_ME2	Hrs	338			37,749	37,749	15.0%	5,662	
1	04	03	05	03		Quadrupole Stages & Stands					238	56,050	22,775	57,365	80,140		16,028	
1	04	03	05	03		Vendor Fab/Assy - Stages, Stands, etc.	1-May-07	4-Oct-07	AN_MSSC2	\$\$		56,050			57,365			

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WBS Level						May 2007 CR Rebaseline Description	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont %	Contingency \$
1	2	3	4	5	6						Hours	\$	Labor	M&S	Total		
1	04	03	05	03	6	ANL Vendor Mgmt & 1st Art Test - Stages & Stands	1-May-07	4-Oct-07	AN_ME2	Hrs	162		17,857		17,857	20.0%	3,571
1	04	03	06			Undulator Magnetic Measurement Facility (SLAC)					25,858	894,832	2,224,721	961,696	3,186,417		1,034,294
1	04	03	06	01		Undulator MMF Setup					3,208	60,912	271,738	65,304	337,042		106,347
1	04	03	06	01	09	Undulator Handling					3,208	60,912	271,738	65,304	337,042		106,347
1	04	03	06	01	09	Install and Test Undulator Handling	1-May-07	13-Jul-07	SL_PHS2	Hrs	40		2,917		2,917	10.0%	292
1	04	03	06	01	09	Install and Test Undulator Handling	1-May-07	13-Jul-07	SL_MFAT2	Hrs	940		80,776		80,776	10.0%	8,078
1	04	03	06	01	09	Install and Test Undulator Handling	1-May-07	13-Jul-07	SL_MES2	Hrs	140		11,208		11,208	10.0%	1,121
1	04	03	06	01	09	RCV: Girder Assy & Install Equip	1-May-07	14-Sep-07	SL_MSEQ2	\$\$		60,912		65,304	40.0%	26,122	
1	04	03	06	01	09	Girder Assy & Install Prep	17-Jul-07	15-Nov-07	SL_MFAT2	Hrs	1,392		120,641		120,641	40.0%	48,256
1	04	03	06	01	09	Girder Assy & Install Prep	17-Jul-07	15-Nov-07	SL_MES2	Hrs	696		56,197		56,197	40.0%	22,479
1	04	03	06	02		Fiducialization and Magnetic Measurements (F/MM)					16,028	29,520	1,378,078	31,649	1,409,727		576,186
1	04	03	06	02	01	F/MM Undulator Magnet Sections					14,267	-	1,228,367	-	1,228,367		518,544
1	04	03	06	02	01	Undulator Shimming Design	14-May-07	29-May-07	SL_PHSS2	Hrs	40		3,713		3,713	45.0%	1,671
1	04	03	06	02	01	Undulator Shimming Design	14-May-07	29-May-07	SL_MES2	Hrs	40		3,202		3,202	45.0%	1,441
1	04	03	06	02	01	Undulator Shimming Design	14-May-07	29-May-07	SL_MDD2	Hrs	80		6,679		6,679	45.0%	3,006
1	04	03	06	02	01	Undulator Shimming Prototype	30-May-07	8-Jun-07	SL_MFAT2	Hrs	20		1,719		1,719	45.0%	773
1	04	03	06	02	01	Undulator Shimming Prototype	30-May-07	8-Jun-07	SL_MES2	Hrs	40		3,202		3,202	45.0%	1,441
1	04	03	06	02	01	Undulator Shimming Prototype	30-May-07	8-Jun-07	SL_MDD2	Hrs	20		1,670		1,670	45.0%	751
1	04	03	06	02	01	Assemble Girder - 01	5-Mar-08	1-Apr-08	SL_SEE2	Hrs	8		867		867	45.0%	390
1	04	03	06	02	01	Assemble Girder - 01	5-Mar-08	1-Apr-08	SL_MFAT2	Hrs	102		8,967		8,967	45.0%	4,035
1	04	03	06	02	01	Assemble Girder - 01	5-Mar-08	1-Apr-08	SL_MES2	Hrs	70		5,733		5,733	45.0%	2,580
1	04	03	06	02	01	Shim Undulator - 01	11-Jun-07	13-Jun-07	SL_MFAT2	Hrs	16		1,375		1,375	45.0%	619
1	04	03	06	02	01	Shim Undulator - 01	11-Jun-07	13-Jun-07	SL_MES2	Hrs	8		640		640	45.0%	288
1	04	03	06	02	01	Shim Undulator - 02	11-Jun-07	13-Jun-07	SL_MFAT2	Hrs	16		1,375		1,375	45.0%	619
1	04	03	06	02	01	Shim Undulator - 02	11-Jun-07	13-Jun-07	SL_MES2	Hrs	8		640		640	45.0%	288
1	04	03	06	02	01	Shim Undulator - 03	11-Jun-07	13-Jun-07	SL_MFAT2	Hrs	16		1,375		1,375	45.0%	619
1	04	03	06	02	01	Shim Undulator - 03	11-Jun-07	13-Jun-07	SL_MES2	Hrs	8		640		640	45.0%	288
1	04	03	06	02	01	Assemble Girder - 02	19-Mar-08	15-Apr-08	SL_SEE2	Hrs	8		867		867	45.0%	390
1	04	03	06	02	01	Assemble Girder - 02	19-Mar-08	15-Apr-08	SL_MFAT2	Hrs	102		8,967		8,967	45.0%	4,035
1	04	03	06	02	01	Assemble Girder - 02	19-Mar-08	15-Apr-08	SL_MES2	Hrs	70		5,733		5,733	45.0%	2,580
1	04	03	06	02	01	Shim Undulator - 04	11-Jun-07	13-Jun-07	SL_MFAT2	Hrs	16		1,375		1,375	45.0%	619
1	04	03	06	02	01	Shim Undulator - 04	11-Jun-07	13-Jun-07	SL_MES2	Hrs	8		640		640	45.0%	288
1	04	03	06	02	01	Shim Undulator - 05	11-Jun-07	13-Jun-07	SL_MFAT2	Hrs	16		1,375		1,375	45.0%	619
1	04	03	06	02	01	Shim Undulator - 05	11-Jun-07	13-Jun-07	SL_MES2	Hrs	8		640		640	45.0%	288
1	04	03	06	02	01	Assemble Girder - 03	2-Apr-08	29-Apr-08	SL_SEE2	Hrs	8		867		867	45.0%	390
1	04	03	06	02	01	Assemble Girder - 03	2-Apr-08	29-Apr-08	SL_MFAT2	Hrs	102		8,967		8,967	45.0%	4,035
1	04	03	06	02	01	Assemble Girder - 03	2-Apr-08	29-Apr-08	SL_MES2	Hrs	70		5,733		5,733	45.0%	2,580
1	04	03	06	02	01	Assemble Girder - 04	7-Apr-08	2-May-08	SL_SEE2	Hrs	8		867		867	45.0%	390
1	04	03	06	02	01	Assemble Girder - 04	7-Apr-08	2-May-08	SL_MFAT2	Hrs	102		8,967		8,967	45.0%	4,035
1	04	03	06	02	01	Assemble Girder - 04	7-Apr-08	2-May-08	SL_MES2	Hrs	70		5,733		5,733	45.0%	2,580
1	04	03	06	02	01	Fiducialize Undulator - 05	1-May-07	4-May-07	SL_PHSS2	Hrs	12		1,114		1,114	40.0%	446
1	04	03	06	02	01	Fiducialize Undulator - 05	1-May-07	4-May-07	SL_MFAT2	Hrs	18		1,547		1,547	40.0%	619
1	04	03	06	02	01	Fiducialize Undulator - 05	1-May-07	4-May-07	SL_MES2	Hrs	30		2,402		2,402	40.0%	961
1	04	03	06	02	01	Assemble Girder - 05	10-Apr-08	7-May-08	SL_SEE2	Hrs	8		867		867	45.0%	390
1	04	03	06	02	01	Assemble Girder - 05	10-Apr-08	7-May-08	SL_MFAT2	Hrs	102		8,967		8,967	45.0%	4,035
1	04	03	06	02	01	Assemble Girder - 05	10-Apr-08	7-May-08	SL_MES2	Hrs	70		5,733		5,733	45.0%	2,580
1	04	03	06	02	01	Tune Undulator - 06	1-May-07	4-May-07	SL_MFAT2	Hrs	135		11,601		11,601	40.0%	4,640
1	04	03	06	02	01	Fiducialize Undulator - 06	7-May-07	14-May-07	SL_PHSS2	Hrs	16		1,485		1,485	40.0%	594
1	04	03	06	02	01	Fiducialize Undulator - 06	7-May-07	14-May-07	SL_MFAT2	Hrs	40		3,437		3,437	40.0%	1,375
1	04	03	06	02	01	Fiducialize Undulator - 06	7-May-07	14-May-07	SL_MES2	Hrs	48		3,843		3,843	40.0%	1,537
1	04	03	06	02	01	Assemble Girder - 06	15-Apr-08	12-May-08	SL_SEE2	Hrs	8		867		867	45.0%	390
1	04	03	06	02	01	Assemble Girder - 06	15-Apr-08	12-May-08	SL_MFAT2	Hrs	102		8,967		8,967	45.0%	4,035
1	04	03	06	02	01	Assemble Girder - 06	15-Apr-08	12-May-08	SL_MES2	Hrs	70		5,733		5,733	45.0%	2,580
1	04	03	06	02	01	Tune Undulator - 07	8-May-07	21-May-07	SL_MFAT2	Hrs	180		15,468		15,468	40.0%	6,187
1	04	03	06	02	01	Fiducialize Undulator - 07	22-May-07	30-May-07	SL_PHSS2	Hrs	16		1,485		1,485	40.0%	594
1	04	03	06	02	01	Fiducialize Undulator - 07	22-May-07	30-May-07	SL_MFAT2	Hrs	40		3,437		3,437	40.0%	1,375
1	04	03	06	02	01	Fiducialize Undulator - 07	22-May-07	30-May-07	SL_MES2	Hrs	48		3,843		3,843	40.0%	1,537
1	04	03	06	02	01	Assemble Girder - 07	18-Apr-08	15-May-08	SL_SEE2	Hrs	8		867		867	45.0%	390
1	04	03	06	02	01	Assemble Girder - 07	18-Apr-08	15-May-08	SL_MFAT2	Hrs	102		8,967		8,967	45.0%	4,035
1	04	03	06	02	01	Assemble Girder - 07	18-Apr-08	15-May-08	SL_MES2	Hrs	70		5,733		5,733	45.0%	2,580
1	04	03	06	02	01	Tune Undulator - 08	15-May-07	22-May-07	SL_MFAT2	Hrs	180		15,468		15,468	40.0%	6,187
1	04	03	06	02	01	Fiducialize Undulator - 08	23-May-07	28-Jun-07	SL_PHSS2	Hrs	16		1,485		1,485	40.0%	594
1	04	03	06	02	01	Fiducialize Undulator - 08	23-May-07	28-Jun-07	SL_MFAT2	Hrs	40		3,437		3,437	40.0%	1,375
1	04	03	06	02	01	Fiducialize Undulator - 08	23-May-07	28-Jun-07	SL_MES2	Hrs	48		3,843		3,843	40.0%	1,537
1	04	03	06	02	01	Assemble Girder - 08	23-Apr-08	20-May-08	SL_SEE2	Hrs	8		867		867	45.0%	390
1	04	03	06	02	01	Assemble Girder - 08	23-Apr-08	20-May-08	SL_MFAT2	Hrs	102		8,967		8,967	45.0%	4,035
1	04	03	06	02	01	Assemble Girder - 08	23-Apr-08	20-May-08	SL_MES2	Hrs	70		5,733		5,733	45.0%	2,580
1	04	03	06	02	01	Tune Undulator - 09	22-May-07	30-May-07	SL_MFAT2	Hrs	180		15,468		15,468	40.0%	6,187
1	04	03	06	02	01	Fiducialize Undulator - 09	31-May-07	6-Jun-07	SL_PHSS2	Hrs	16		1,485		1,485	40.0%	594
1	04	03	06	02	01	Fiducialize Undulator - 09	31-May-07	6-Jun-07	SL_MFAT2	Hrs	40		3,437		3,437	40.0%	1,375
1	04	03	06	02	01	Fiducialize Undulator - 09	31-May-07	6-Jun-07	SL_MES2	Hrs	48		3,843		3,843	40.0%	1,537
1	04	03	06	02	01												

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline Description	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont %	Contingency \$
1	2	3	4	5	6						Hours	\$	Labor	M&S	Total		
1	04	03	06	02	01	Assemble Girder - 09	28-Apr-08	23-May-08	SL_MFAT2	Hrs	102		8,967		8,967	45.0%	4,035
1	04	03	06	02	01	Assemble Girder - 09	28-Apr-08	23-May-08	SL_MES2	Hrs	70		5,733		5,733	45.0%	2,580
1	04	03	06	02	01	Tune Undulator - 10	30-May-07	5-Jun-07	SL_MFAT2	Hrs	180		15,468		15,468	40.0%	6,187
1	04	03	06	02	01	Fiducialize Undulator - 10	6-Jun-07	13-Jun-07	SL_PHSS2	Hrs	16		1,485		1,485	40.0%	594
1	04	03	06	02	01	Fiducialize Undulator - 10	6-Jun-07	13-Jun-07	SL_MFAT2	Hrs	40		3,437		3,437	40.0%	1,375
1	04	03	06	02	01	Fiducialize Undulator - 10	6-Jun-07	13-Jun-07	SL_MES2	Hrs	48		3,843		3,843	40.0%	1,537
1	04	03	06	02	01	Assemble Girder - 10	1-May-08	29-May-08	SL_SEE2	Hrs	8		867		867	45.0%	390
1	04	03	06	02	01	Assemble Girder - 10	1-May-08	29-May-08	SL_MFAT2	Hrs	102		8,967		8,967	45.0%	4,035
1	04	03	06	02	01	Assemble Girder - 10	1-May-08	29-May-08	SL_MES2	Hrs	70		5,733		5,733	45.0%	2,580
1	04	03	06	02	01	Tune Undulator - 11	6-Jun-07	13-Jun-07	SL_MFAT2	Hrs	180		15,468		15,468	40.0%	6,187
1	04	03	06	02	01	Fiducialize Undulator - 11	14-Jun-07	21-Jun-07	SL_PHSS2	Hrs	16		1,485		1,485	40.0%	594
1	04	03	06	02	01	Fiducialize Undulator - 11	14-Jun-07	21-Jun-07	SL_MFAT2	Hrs	40		3,437		3,437	40.0%	1,375
1	04	03	06	02	01	Fiducialize Undulator - 11	14-Jun-07	21-Jun-07	SL_MES2	Hrs	48		3,843		3,843	40.0%	1,537
1	04	03	06	02	01	Assemble Girder - 11	6-May-08	3-Jun-08	SL_SEE2	Hrs	8		867		867	45.0%	390
1	04	03	06	02	01	Assemble Girder - 11	6-May-08	3-Jun-08	SL_MFAT2	Hrs	102		8,967		8,967	45.0%	4,035
1	04	03	06	02	01	Assemble Girder - 11	6-May-08	3-Jun-08	SL_MES2	Hrs	70		5,733		5,733	45.0%	2,580
1	04	03	06	02	01	Tune Undulator - 12	13-Jun-07	20-Jun-07	SL_MFAT2	Hrs	180		15,468		15,468	40.0%	6,187
1	04	03	06	02	01	Fiducialize Undulator - 12	21-Jun-07	25-Jun-07	SL_PHSS2	Hrs	16		1,485		1,485	40.0%	594
1	04	03	06	02	01	Fiducialize Undulator - 12	21-Jun-07	25-Jun-07	SL_MFAT2	Hrs	40		3,437		3,437	40.0%	1,375
1	04	03	06	02	01	Fiducialize Undulator - 12	21-Jun-07	25-Jun-07	SL_MES2	Hrs	48		3,843		3,843	40.0%	1,537
1	04	03	06	02	01	Assemble Girder - 12	9-May-08	6-Jun-08	SL_SEE2	Hrs	8		867		867	45.0%	390
1	04	03	06	02	01	Assemble Girder - 12	9-May-08	6-Jun-08	SL_MFAT2	Hrs	102		8,967		8,967	45.0%	4,035
1	04	03	06	02	01	Assemble Girder - 12	9-May-08	6-Jun-08	SL_MES2	Hrs	70		5,733		5,733	45.0%	2,580
1	04	03	06	02	01	Tune Undulator - 13	20-Jun-07	27-Jun-07	SL_MFAT2	Hrs	180		15,468		15,468	40.0%	6,187
1	04	03	06	02	01	Fiducialize Undulator - 13	28-Jun-07	2-Jul-07	SL_PHSS2	Hrs	16		1,485		1,485	40.0%	594
1	04	03	06	02	01	Fiducialize Undulator - 13	28-Jun-07	2-Jul-07	SL_MFAT2	Hrs	40		3,437		3,437	40.0%	1,375
1	04	03	06	02	01	Fiducialize Undulator - 13	28-Jun-07	2-Jul-07	SL_MES2	Hrs	48		3,843		3,843	40.0%	1,537
1	04	03	06	02	01	Assemble Girder - 13	14-May-08	11-Jun-08	SL_SEE2	Hrs	8		867		867	45.0%	390
1	04	03	06	02	01	Assemble Girder - 13	14-May-08	11-Jun-08	SL_MFAT2	Hrs	102		8,967		8,967	45.0%	4,035
1	04	03	06	02	01	Assemble Girder - 13	14-May-08	11-Jun-08	SL_MES2	Hrs	70		5,733		5,733	45.0%	2,580
1	04	03	06	02	01	Tune Undulator - 14	27-Jun-07	11-Jul-07	SL_MFAT2	Hrs	180		15,468		15,468	40.0%	6,187
1	04	03	06	02	01	Fiducialize Undulator - 14	12-Jul-07	16-Jul-07	SL_PHSS2	Hrs	16		1,485		1,485	40.0%	594
1	04	03	06	02	01	Fiducialize Undulator - 14	12-Jul-07	16-Jul-07	SL_MFAT2	Hrs	40		3,437		3,437	40.0%	1,375
1	04	03	06	02	01	Fiducialize Undulator - 14	12-Jul-07	16-Jul-07	SL_MES2	Hrs	48		3,843		3,843	40.0%	1,537
1	04	03	06	02	01	Assemble Girder - 14	19-May-08	16-Jun-08	SL_SEE2	Hrs	8		867		867	45.0%	390
1	04	03	06	02	01	Assemble Girder - 14	19-May-08	16-Jun-08	SL_MFAT2	Hrs	102		8,967		8,967	45.0%	4,035
1	04	03	06	02	01	Assemble Girder - 14	19-May-08	16-Jun-08	SL_MES2	Hrs	70		5,733		5,733	45.0%	2,580
1	04	03	06	02	01	Tune Undulator - 15	5-Jul-07	18-Jul-07	SL_MFAT2	Hrs	180		15,468		15,468	40.0%	6,187
1	04	03	06	02	01	Fiducialize Undulator - 15	19-Jul-07	23-Jul-07	SL_PHSS2	Hrs	16		1,485		1,485	40.0%	594
1	04	03	06	02	01	Fiducialize Undulator - 15	19-Jul-07	23-Jul-07	SL_MFAT2	Hrs	40		3,437		3,437	40.0%	1,375
1	04	03	06	02	01	Fiducialize Undulator - 15	19-Jul-07	23-Jul-07	SL_MES2	Hrs	48		3,843		3,843	40.0%	1,537
1	04	03	06	02	01	Assemble Girder - 15	22-May-08	19-Jun-08	SL_SEE2	Hrs	8		867		867	45.0%	390
1	04	03	06	02	01	Assemble Girder - 15	22-May-08	19-Jun-08	SL_MFAT2	Hrs	102		8,967		8,967	45.0%	4,035
1	04	03	06	02	01	Assemble Girder - 15	22-May-08	19-Jun-08	SL_MES2	Hrs	70		5,733		5,733	45.0%	2,580
1	04	03	06	02	01	Tune Undulator - 16	12-Jul-07	25-Jul-07	SL_MFAT2	Hrs	180		15,468		15,468	40.0%	6,187
1	04	03	06	02	01	Fiducialize Undulator - 16	26-Jul-07	30-Jul-07	SL_PHSS2	Hrs	16		1,485		1,485	40.0%	594
1	04	03	06	02	01	Fiducialize Undulator - 16	26-Jul-07	30-Jul-07	SL_MFAT2	Hrs	40		3,437		3,437	40.0%	1,375
1	04	03	06	02	01	Fiducialize Undulator - 16	26-Jul-07	30-Jul-07	SL_MES2	Hrs	48		3,843		3,843	40.0%	1,537
1	04	03	06	02	01	Assemble Girder - 16	28-May-08	24-Jun-08	SL_SEE2	Hrs	8		867		867	45.0%	390
1	04	03	06	02	01	Assemble Girder - 16	28-May-08	24-Jun-08	SL_MFAT2	Hrs	102		8,967		8,967	45.0%	4,035
1	04	03	06	02	01	Assemble Girder - 16	28-May-08	24-Jun-08	SL_MES2	Hrs	70		5,733		5,733	45.0%	2,580
1	04	03	06	02	01	Tune Undulator - 17	19-Jul-07	1-Aug-07	SL_MFAT2	Hrs	180		15,468		15,468	40.0%	6,187
1	04	03	06	02	01	Fiducialize Undulator - 17	2-Aug-07	6-Aug-07	SL_PHSS2	Hrs	16		1,485		1,485	40.0%	594
1	04	03	06	02	01	Fiducialize Undulator - 17	2-Aug-07	6-Aug-07	SL_MFAT2	Hrs	40		3,437		3,437	40.0%	1,375
1	04	03	06	02	01	Fiducialize Undulator - 17	2-Aug-07	6-Aug-07	SL_MES2	Hrs	48		3,843		3,843	40.0%	1,537
1	04	03	06	02	01	Assemble Girder - 17	2-Jun-08	27-Jun-08	SL_SEE2	Hrs	8		867		867	45.0%	390
1	04	03	06	02	01	Assemble Girder - 17	2-Jun-08	27-Jun-08	SL_MFAT2	Hrs	102		8,967		8,967	45.0%	4,035
1	04	03	06	02	01	Assemble Girder - 17	2-Jun-08	27-Jun-08	SL_MES2	Hrs	70		5,733		5,733	45.0%	2,580
1	04	03	06	02	01	Tune Undulator - 18	2-Aug-07	15-Aug-07	SL_MFAT2	Hrs	180		15,468		15,468	40.0%	6,187
1	04	03	06	02	01	Fiducialize Undulator - 18	16-Aug-07	20-Aug-07	SL_PHSS2	Hrs	16		1,485		1,485	40.0%	594
1	04	03	06	02	01	Fiducialize Undulator - 18	16-Aug-07	20-Aug-07	SL_MFAT2	Hrs	40		3,437		3,437	40.0%	1,375
1	04	03	06	02	01	Fiducialize Undulator - 18	16-Aug-07	20-Aug-07	SL_MES2	Hrs	48		3,843		3,843	40.0%	1,537
1	04	03	06	02	01	Assemble Girder - 18	5-Jun-08	2-Jul-08	SL_SEE2	Hrs	8		867		867	45.0%	390
1	04	03	06	02	01	Assemble Girder - 18	5-Jun-08	2-Jul-08	SL_MFAT2	Hrs	102		8,967		8,967	45.0%	4,035
1	04	03	06	02	01	Assemble Girder - 18	5-Jun-08	2-Jul-08	SL_MES2	Hrs	70		5,733		5,733	45.0%	2,580
1	04	03	06	02	01	Tune Undulator - 19	9-Aug-07	22-Aug-07	SL_MFAT2	Hrs	180		15,468		15,468	40.0%	6,187
1	04	03	06	02	01	Fiducialize Undulator - 19	23-Aug-07	27-Aug-07	SL_PHSS2	Hrs	16		1,485		1,485	40.0%	594
1	04	03	06	02	01	Fiducialize Undulator - 19	23-Aug-07	27-Aug-07	SL_MFAT2	Hrs	40		3,437		3,437	40.0%	1,375
1	04	03	06	02	01	Fiducialize Undulator - 19	23-Aug-07	27-Aug-07	SL_MES2	Hrs	48		3,843		3,843	40.0%	1,537
1	04	03	06	02	01	Assemble Girder - 19	10-Jun-08	8-Jul-08	SL_SEE2	Hrs	8		867		867	45.0%	390
1	04	03	06	02	01	Assemble Girder - 19	10-Jun-08	8-Jul-08	SL_MFAT2	Hrs	102		8,967		8,967	45.0%	4,035
1	04	03	06	02	01	Assemble Girder - 19	10-Jun-08	8-Jul-08	SL_MES2	Hrs	70		5,733		5,733	45.0%	2,580

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline Description	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont %	Contingency \$
1	2	3	4	5	6						Hours	\$	Labor	M&S	Total		
1	04	03	06	02	01	Tune Undulator - 20	16-Aug-07	29-Aug-07	SL_MFAT2	Hrs	180		15,468		15,468	40.0%	6,187
1	04	03	06	02	01	Fiducialize Undulator - 20	30-Aug-07	4-Sep-07	SL_PHSS2	Hrs	16		1,485		1,485	40.0%	594
1	04	03	06	02	01	Fiducialize Undulator - 20	30-Aug-07	4-Sep-07	SL_MFAT2	Hrs	40		3,437		3,437	40.0%	1,375
1	04	03	06	02	01	Fiducialize Undulator - 20	30-Aug-07	4-Sep-07	SL_MES2	Hrs	48		3,843		3,843	40.0%	1,537
1	04	03	06	02	01	Assemble Girder - 20	13-Jun-08	11-Jul-08	SL_SEE2	Hrs	8		867		867	45.0%	390
1	04	03	06	02	01	Assemble Girder - 20	13-Jun-08	11-Jul-08	SL_MFAT2	Hrs	102		8,967		8,967	45.0%	4,035
1	04	03	06	02	01	Assemble Girder - 20	13-Jun-08	11-Jul-08	SL_MES2	Hrs	70		5,733		5,733	45.0%	2,580
1	04	03	06	02	01	Tune Undulator - 21	23-Aug-07	6-Sep-07	SL_MFAT2	Hrs	180		15,468		15,468	40.0%	6,187
1	04	03	06	02	01	Fiducialize Undulator - 21	7-Sep-07	11-Sep-07	SL_PHSS2	Hrs	16		1,485		1,485	40.0%	594
1	04	03	06	02	01	Fiducialize Undulator - 21	7-Sep-07	11-Sep-07	SL_MFAT2	Hrs	40		3,437		3,437	40.0%	1,375
1	04	03	06	02	01	Fiducialize Undulator - 21	7-Sep-07	11-Sep-07	SL_MES2	Hrs	48		3,843		3,843	40.0%	1,537
1	04	03	06	02	01	Assemble Girder - 21	18-Jun-08	16-Jul-08	SL_SEE2	Hrs	8		867		867	45.0%	390
1	04	03	06	02	01	Assemble Girder - 21	18-Jun-08	16-Jul-08	SL_MFAT2	Hrs	102		8,967		8,967	45.0%	4,035
1	04	03	06	02	01	Assemble Girder - 21	18-Jun-08	16-Jul-08	SL_MES2	Hrs	70		5,733		5,733	45.0%	2,580
1	04	03	06	02	01	Tune Undulator - 22	30-Aug-07	13-Sep-07	SL_MFAT2	Hrs	180		15,468		15,468	40.0%	6,187
1	04	03	06	02	01	Fiducialize Undulator - 22	14-Sep-07	18-Sep-07	SL_PHSS2	Hrs	16		1,485		1,485	40.0%	594
1	04	03	06	02	01	Fiducialize Undulator - 22	14-Sep-07	18-Sep-07	SL_MFAT2	Hrs	40		3,437		3,437	40.0%	1,375
1	04	03	06	02	01	Fiducialize Undulator - 22	14-Sep-07	18-Sep-07	SL_MES2	Hrs	48		3,843		3,843	40.0%	1,537
1	04	03	06	02	01	Assemble Girder - 22	23-Jun-08	21-Jul-08	SL_SEE2	Hrs	8		867		867	45.0%	390
1	04	03	06	02	01	Assemble Girder - 22	23-Jun-08	21-Jul-08	SL_MFAT2	Hrs	102		8,967		8,967	45.0%	4,035
1	04	03	06	02	01	Assemble Girder - 22	23-Jun-08	21-Jul-08	SL_MES2	Hrs	70		5,733		5,733	45.0%	2,580
1	04	03	06	02	01	Tune Undulator - 23	7-Sep-07	20-Sep-07	SL_MFAT2	Hrs	180		15,468		15,468	40.0%	6,187
1	04	03	06	02	01	Fiducialize Undulator - 23	21-Sep-07	25-Sep-07	SL_PHSS2	Hrs	16		1,485		1,485	40.0%	594
1	04	03	06	02	01	Fiducialize Undulator - 23	21-Sep-07	25-Sep-07	SL_MFAT2	Hrs	40		3,437		3,437	40.0%	1,375
1	04	03	06	02	01	Fiducialize Undulator - 23	21-Sep-07	25-Sep-07	SL_MES2	Hrs	48		3,843		3,843	40.0%	1,537
1	04	03	06	02	01	Assemble Girder - 23	26-Jun-08	24-Jul-08	SL_SEE2	Hrs	8		867		867	45.0%	390
1	04	03	06	02	01	Assemble Girder - 23	26-Jun-08	24-Jul-08	SL_MFAT2	Hrs	102		8,967		8,967	45.0%	4,035
1	04	03	06	02	01	Assemble Girder - 23	26-Jun-08	24-Jul-08	SL_MES2	Hrs	70		5,733		5,733	45.0%	2,580
1	04	03	06	02	01	Tune Undulator - 24	14-Sep-07	27-Sep-07	SL_MFAT2	Hrs	180		15,468		15,468	40.0%	6,187
1	04	03	06	02	01	Fiducialize Undulator - 24	28-Sep-07	2-Oct-07	SL_PHSS2	Hrs	16		1,494		1,494	40.0%	597
1	04	03	06	02	01	Fiducialize Undulator - 24	28-Sep-07	2-Oct-07	SL_MFAT2	Hrs	40		3,457		3,457	40.0%	1,383
1	04	03	06	02	01	Fiducialize Undulator - 24	28-Sep-07	2-Oct-07	SL_MES2	Hrs	48		3,865		3,865	40.0%	1,546
1	04	03	06	02	01	Assemble Girder - 24	1-Jul-08	29-Jul-08	SL_SEE2	Hrs	8		867		867	45.0%	390
1	04	03	06	02	01	Assemble Girder - 24	1-Jul-08	29-Jul-08	SL_MFAT2	Hrs	102		8,967		8,967	45.0%	4,035
1	04	03	06	02	01	Assemble Girder - 24	1-Jul-08	29-Jul-08	SL_MES2	Hrs	70		5,733		5,733	45.0%	2,580
1	04	03	06	02	01	Tune Undulator - 25	21-Sep-07	4-Oct-07	SL_MFAT2	Hrs	180		15,550		15,550	40.0%	6,220
1	04	03	06	02	01	Fiducialize Undulator - 25	5-Oct-07	9-Oct-07	SL_PHSS2	Hrs	16		1,519		1,519	40.0%	608
1	04	03	06	02	01	Fiducialize Undulator - 25	5-Oct-07	9-Oct-07	SL_MFAT2	Hrs	40		3,516		3,516	40.0%	1,407
1	04	03	06	02	01	Fiducialize Undulator - 25	5-Oct-07	9-Oct-07	SL_MES2	Hrs	48		3,931		3,931	40.0%	1,572
1	04	03	06	02	01	Assemble Girder - 25	7-Jul-08	1-Aug-08	SL_SEE2	Hrs	8		867		867	45.0%	390
1	04	03	06	02	01	Assemble Girder - 25	7-Jul-08	1-Aug-08	SL_MFAT2	Hrs	102		8,967		8,967	45.0%	4,035
1	04	03	06	02	01	Assemble Girder - 25	7-Jul-08	1-Aug-08	SL_MES2	Hrs	70		5,733		5,733	45.0%	2,580
1	04	03	06	02	01	Tune Undulator - 26	28-Sep-07	11-Oct-07	SL_MFAT2	Hrs	180		15,741		15,741	40.0%	6,297
1	04	03	06	02	01	Fiducialize Undulator - 26	12-Oct-07	16-Oct-07	SL_PHSS2	Hrs	16		1,519		1,519	40.0%	608
1	04	03	06	02	01	Fiducialize Undulator - 26	12-Oct-07	16-Oct-07	SL_MFAT2	Hrs	40		3,516		3,516	40.0%	1,407
1	04	03	06	02	01	Fiducialize Undulator - 26	12-Oct-07	16-Oct-07	SL_MES2	Hrs	48		3,931		3,931	40.0%	1,572
1	04	03	06	02	01	Assemble Girder - 26	10-Jul-08	6-Aug-08	SL_SEE2	Hrs	8		867		867	45.0%	390
1	04	03	06	02	01	Assemble Girder - 26	10-Jul-08	6-Aug-08	SL_MFAT2	Hrs	102		8,967		8,967	45.0%	4,035
1	04	03	06	02	01	Assemble Girder - 26	10-Jul-08	6-Aug-08	SL_MES2	Hrs	70		5,733		5,733	45.0%	2,580
1	04	03	06	02	01	Tune Undulator - 27	5-Oct-07	18-Oct-07	SL_MFAT2	Hrs	180		15,824		15,824	40.0%	6,329
1	04	03	06	02	01	Fiducialize Undulator - 27	19-Oct-07	23-Oct-07	SL_PHSS2	Hrs	16		1,519		1,519	40.0%	608
1	04	03	06	02	01	Fiducialize Undulator - 27	19-Oct-07	23-Oct-07	SL_MFAT2	Hrs	40		3,516		3,516	40.0%	1,407
1	04	03	06	02	01	Fiducialize Undulator - 27	19-Oct-07	23-Oct-07	SL_MES2	Hrs	48		3,931		3,931	40.0%	1,572
1	04	03	06	02	01	Assemble Girder - 27	15-Jul-08	11-Aug-08	SL_SEE2	Hrs	8		867		867	45.0%	390
1	04	03	06	02	01	Assemble Girder - 27	15-Jul-08	11-Aug-08	SL_MFAT2	Hrs	102		8,967		8,967	45.0%	4,035
1	04	03	06	02	01	Assemble Girder - 27	15-Jul-08	11-Aug-08	SL_MES2	Hrs	70		5,733		5,733	45.0%	2,580
1	04	03	06	02	01	Tune Undulator - 28	12-Oct-07	25-Oct-07	SL_MFAT2	Hrs	180		15,824		15,824	40.0%	6,329
1	04	03	06	02	01	Fiducialize Undulator - 28	26-Oct-07	30-Oct-07	SL_PHSS2	Hrs	16		1,519		1,519	40.0%	608
1	04	03	06	02	01	Fiducialize Undulator - 28	26-Oct-07	30-Oct-07	SL_MFAT2	Hrs	40		3,516		3,516	40.0%	1,407
1	04	03	06	02	01	Fiducialize Undulator - 28	26-Oct-07	30-Oct-07	SL_MES2	Hrs	48		3,931		3,931	40.0%	1,572
1	04	03	06	02	01	Assemble Girder - 28	18-Jul-08	14-Aug-08	SL_SEE2	Hrs	8		867		867	45.0%	390
1	04	03	06	02	01	Assemble Girder - 28	18-Jul-08	14-Aug-08	SL_MFAT2	Hrs	102		8,967		8,967	45.0%	4,035
1	04	03	06	02	01	Assemble Girder - 28	18-Jul-08	14-Aug-08	SL_MES2	Hrs	70		5,733		5,733	45.0%	2,580
1	04	03	06	02	01	Tune Undulator - 29	19-Oct-07	1-Nov-07	SL_MFAT2	Hrs	180		15,824		15,824	40.0%	6,329
1	04	03	06	02	01	Fiducialize Undulator - 29	2-Nov-07	6-Nov-07	SL_PHSS2	Hrs	16		1,519		1,519	40.0%	608
1	04	03	06	02	01	Fiducialize Undulator - 29	2-Nov-07	6-Nov-07	SL_MFAT2	Hrs	40		3,516		3,516	40.0%	1,407
1	04	03	06	02	01	Fiducialize Undulator - 29	2-Nov-07	6-Nov-07	SL_MES2	Hrs	48		3,931		3,931	40.0%	1,572
1	04	03	06	02	01	Assemble Girder - 29	23-Jul-08	19-Aug-08	SL_SEE2	Hrs	8		867		867	45.0%	390
1	04	03	06	02	01	Assemble Girder - 29	23-Jul-08	19-Aug-08	SL_MFAT2	Hrs	102		8,967		8,967	45.0%	4,035
1	04	03	06	02	01	Assemble Girder - 29	23-Jul-08	19-Aug-08	SL_MES2	Hrs	70		5,733		5,733	45.0%	2,580
1	04	03	06	02	01	Tune Undulator - 30	26-Oct-07	8-Nov-07	SL_MFAT2	Hrs	180		15,824		15,824	40.0%	6,329
1	04	03	06	02	01	Fiducialize Undulator - 30	9-Nov-07	13-Nov-07	SL_PHSS2	Hrs	16		1,519		1,519	40.0%	608

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont %	Contingency \$
Description											Hours	\$	Labor	M&S	Total		
1	04	03	06	02	01	Fiducialize Undulator - 30	9-Nov-07	13-Nov-07	SL_MFAT2	Hrs	40		3,516		3,516	40.0%	1,407
1	04	03	06	02	01	Fiducialize Undulator - 30	9-Nov-07	13-Nov-07	SL_MES2	Hrs	48	3,931		3,931	40.0%	1,572	
1	04	03	06	02	01	Assemble Girder - 30	28-Jul-08	22-Aug-08	SL_SEE2	Hrs	8	867		867	45.0%	390	
1	04	03	06	02	01	Assemble Girder - 30	28-Jul-08	22-Aug-08	SL_MFAT2	Hrs	102	8,967		8,967	45.0%	4,035	
1	04	03	06	02	01	Assemble Girder - 30	28-Jul-08	22-Aug-08	SL_MES2	Hrs	70	5,733		5,733	45.0%	2,580	
1	04	03	06	02	01	Tune Undulator - 31	2-Nov-07	15-Nov-07	SL_MFAT2	Hrs	180	15,824		15,824	40.0%	6,329	
1	04	03	06	02	01	Fiducialize Undulator - 31	16-Nov-07	20-Nov-07	SL_PHSS2	Hrs	16	1,519		1,519	40.0%	608	
1	04	03	06	02	01	Fiducialize Undulator - 31	16-Nov-07	20-Nov-07	SL_MFAT2	Hrs	40	3,516		3,516	40.0%	1,407	
1	04	03	06	02	01	Fiducialize Undulator - 31	16-Nov-07	20-Nov-07	SL_MES2	Hrs	48	3,931		3,931	40.0%	1,572	
1	04	03	06	02	01	Assemble Girder - 31	31-Jul-08	27-Aug-08	SL_SEE2	Hrs	8	867		867	45.0%	390	
1	04	03	06	02	01	Assemble Girder - 31	31-Jul-08	27-Aug-08	SL_MFAT2	Hrs	102	8,967		8,967	45.0%	4,035	
1	04	03	06	02	01	Assemble Girder - 31	31-Jul-08	27-Aug-08	SL_MES2	Hrs	70	5,733		5,733	45.0%	2,580	
1	04	03	06	02	01	Tune Undulator - 32	9-Nov-07	26-Nov-07	SL_MFAT2	Hrs	180	15,824		15,824	40.0%	6,329	
1	04	03	06	02	01	Fiducialize Undulator - 32	27-Nov-07	29-Nov-07	SL_PHSS2	Hrs	16	1,519		1,519	40.0%	608	
1	04	03	06	02	01	Fiducialize Undulator - 32	27-Nov-07	29-Nov-07	SL_MFAT2	Hrs	40	3,516		3,516	40.0%	1,407	
1	04	03	06	02	01	Fiducialize Undulator - 32	27-Nov-07	29-Nov-07	SL_MES2	Hrs	48	3,931		3,931	40.0%	1,572	
1	04	03	06	02	01	Assemble Girder - 32	5-Aug-08	2-Sep-08	SL_SEE2	Hrs	8	867		867	45.0%	390	
1	04	03	06	02	01	Assemble Girder - 32	5-Aug-08	2-Sep-08	SL_MFAT2	Hrs	102	8,967		8,967	45.0%	4,035	
1	04	03	06	02	01	Assemble Girder - 32	5-Aug-08	2-Sep-08	SL_MES2	Hrs	70	5,733		5,733	45.0%	2,580	
1	04	03	06	02	01	Tune Undulator - 33	16-Nov-07	3-Dec-07	SL_MFAT2	Hrs	180	15,824		15,824	40.0%	6,329	
1	04	03	06	02	01	Fiducialize Undulator - 33	4-Dec-07	6-Dec-07	SL_PHSS2	Hrs	16	1,519		1,519	40.0%	608	
1	04	03	06	02	01	Fiducialize Undulator - 33	4-Dec-07	6-Dec-07	SL_MFAT2	Hrs	40	3,516		3,516	40.0%	1,407	
1	04	03	06	02	01	Fiducialize Undulator - 33	4-Dec-07	6-Dec-07	SL_MES2	Hrs	48	3,931		3,931	40.0%	1,572	
1	04	03	06	02	01	Assemble Girder - 33	8-Aug-08	5-Sep-08	SL_SEE2	Hrs	8	867		867	45.0%	390	
1	04	03	06	02	01	Assemble Girder - 33	8-Aug-08	5-Sep-08	SL_MFAT2	Hrs	102	8,967		8,967	45.0%	4,035	
1	04	03	06	02	01	Assemble Girder - 33	8-Aug-08	5-Sep-08	SL_MES2	Hrs	70	5,733		5,733	45.0%	2,580	
1	04	03	06	02	02	F/MM Quadrupoles					1,508	-	127,970	-	127,970		44,790
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 01	5-Nov-07	7-Nov-07	SL_PHSS2	Hrs	84	7,976		7,976	35.0%	2,791	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 01	5-Nov-07	7-Nov-07	SL_PHS2	Hrs	20	1,492		1,492	35.0%	522	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 01	5-Nov-07	7-Nov-07	SL_MFAT2	Hrs	8	703		703	35.0%	246	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 01	5-Nov-07	7-Nov-07	SL_MES2	Hrs	84	6,880		6,880	35.0%	2,408	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 01	5-Nov-07	7-Nov-07	AN_PHS2	Hrs	80	9,017		9,017	35.0%	3,156	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 01	5-Nov-07	7-Nov-07	AN_ME2	Hrs	80	9,017		9,017	35.0%	3,156	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 02	8-Nov-07	12-Nov-07	SL_PHSS2	Hrs	4	380		380	35.0%	133	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 02	8-Nov-07	12-Nov-07	SL_PHS2	Hrs	20	1,492		1,492	35.0%	522	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 02	8-Nov-07	12-Nov-07	SL_MFAT2	Hrs	8	703		703	35.0%	246	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 02	8-Nov-07	12-Nov-07	SL_MES2	Hrs	4	328		328	35.0%	115	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 03	13-Nov-07	15-Nov-07	SL_PHSS2	Hrs	4	380		380	35.0%	133	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 03	13-Nov-07	15-Nov-07	SL_PHS2	Hrs	20	1,492		1,492	35.0%	522	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 03	13-Nov-07	15-Nov-07	SL_MFAT2	Hrs	8	703		703	35.0%	246	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 03	13-Nov-07	15-Nov-07	SL_MES2	Hrs	4	328		328	35.0%	115	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 04	16-Nov-07	20-Nov-07	SL_PHSS2	Hrs	4	380		380	35.0%	133	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 04	16-Nov-07	20-Nov-07	SL_PHS2	Hrs	20	1,492		1,492	35.0%	522	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 04	16-Nov-07	20-Nov-07	SL_MFAT2	Hrs	8	703		703	35.0%	246	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 04	16-Nov-07	20-Nov-07	SL_MES2	Hrs	4	328		328	35.0%	115	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 05	21-Nov-07	27-Nov-07	SL_PHSS2	Hrs	4	380		380	35.0%	133	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 05	21-Nov-07	27-Nov-07	SL_PHS2	Hrs	20	1,492		1,492	35.0%	522	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 05	21-Nov-07	27-Nov-07	SL_MFAT2	Hrs	8	703		703	35.0%	246	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 05	21-Nov-07	27-Nov-07	SL_MES2	Hrs	4	328		328	35.0%	115	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 06	28-Nov-07	30-Nov-07	SL_PHSS2	Hrs	4	380		380	35.0%	133	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 06	28-Nov-07	30-Nov-07	SL_PHS2	Hrs	20	1,492		1,492	35.0%	522	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 06	28-Nov-07	30-Nov-07	SL_MFAT2	Hrs	8	703		703	35.0%	246	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 06	28-Nov-07	30-Nov-07	SL_MES2	Hrs	4	328		328	35.0%	115	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 07	3-Dec-07	5-Dec-07	SL_PHSS2	Hrs	4	380		380	35.0%	133	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 07	3-Dec-07	5-Dec-07	SL_PHS2	Hrs	20	1,492		1,492	35.0%	522	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 07	3-Dec-07	5-Dec-07	SL_MFAT2	Hrs	8	703		703	35.0%	246	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 07	3-Dec-07	5-Dec-07	SL_MES2	Hrs	4	328		328	35.0%	115	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 08	6-Dec-07	10-Dec-07	SL_PHSS2	Hrs	4	380		380	35.0%	133	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 08	6-Dec-07	10-Dec-07	SL_PHS2	Hrs	20	1,492		1,492	35.0%	522	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 08	6-Dec-07	10-Dec-07	SL_MFAT2	Hrs	8	703		703	35.0%	246	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 08	6-Dec-07	10-Dec-07	SL_MES2	Hrs	4	328		328	35.0%	115	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 09	11-Dec-07	13-Dec-07	SL_PHSS2	Hrs	4	380		380	35.0%	133	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 09	11-Dec-07	13-Dec-07	SL_PHS2	Hrs	20	1,492		1,492	35.0%	522	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 09	11-Dec-07	13-Dec-07	SL_MFAT2	Hrs	8	703		703	35.0%	246	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 09	11-Dec-07	13-Dec-07	SL_MES2	Hrs	4	328		328	35.0%	115	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 10	14-Dec-07	2-Jan-08	SL_PHSS2	Hrs	4	380		380	35.0%	133	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 10	14-Dec-07	2-Jan-08	SL_PHS2	Hrs	20	1,492		1,492	35.0%	522	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 10	14-Dec-07	2-Jan-08	SL_MFAT2	Hrs	8	703		703	35.0%	246	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 10	14-Dec-07	2-Jan-08	SL_MES2	Hrs	4	328		328	35.0%	115	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 11	3-Jan-08	4-Jan-08	SL_PHSS2	Hrs	4	380		380	35.0%	133	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 11	3-Jan-08	4-Jan-08	SL_PHS2	Hrs	20	1,492		1,492	35.0%	522	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 11	3-Jan-08	4-Jan-08	SL_MFAT2	Hrs	8	703		703	35.0%	246	

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont %	Contingency \$	
Description										Hours	\$	Labor	M&S	Total				
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 29	11-Feb-08	11-Feb-08	SL_MES2	Hrs	4		328		328	35.0%	115	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 30	12-Feb-08	12-Feb-08	SL_PHSS2	Hrs	4		380		380	35.0%	133	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 30	12-Feb-08	12-Feb-08	SL_PHSS2	Hrs	20		1,492		1,492	35.0%	522	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 30	12-Feb-08	12-Feb-08	SL_MFAT2	Hrs	8		703		703	35.0%	246	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 30	12-Feb-08	12-Feb-08	SL_MES2	Hrs	4		328		328	35.0%	115	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 31	13-Feb-08	13-Feb-08	SL_PHSS2	Hrs	4		380		380	35.0%	133	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 31	13-Feb-08	13-Feb-08	SL_PHSS2	Hrs	20		1,492		1,492	35.0%	522	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 31	13-Feb-08	13-Feb-08	SL_MFAT2	Hrs	8		703		703	35.0%	246	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 31	13-Feb-08	13-Feb-08	SL_MES2	Hrs	4		328		328	35.0%	115	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 32	14-Feb-08	14-Feb-08	SL_PHSS2	Hrs	4		380		380	35.0%	133	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 32	14-Feb-08	14-Feb-08	SL_PHSS2	Hrs	20		1,492		1,492	35.0%	522	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 32	14-Feb-08	14-Feb-08	SL_MFAT2	Hrs	8		703		703	35.0%	246	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 32	14-Feb-08	14-Feb-08	SL_MES2	Hrs	4		328		328	35.0%	115	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 33	15-Feb-08	15-Feb-08	SL_PHSS2	Hrs	4		380		380	35.0%	133	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 33	15-Feb-08	15-Feb-08	SL_PHSS2	Hrs	20		1,492		1,492	35.0%	522	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 33	15-Feb-08	15-Feb-08	SL_MFAT2	Hrs	8		703		703	35.0%	246	
1	04	03	06	02	02	Measure and Fiducialize Quadrupole - 33	15-Feb-08	15-Feb-08	SL_MES2	Hrs	4		328		328	35.0%	115	
1	04	03	06	02	03	FMM BPMs												
1	04	03	06	02	03	Procure Fiducialization and Mag Meas Hardware	1-May-07	19-Jul-07	SL_MSEG2	\$\$			29,520		31,649		6,330	
1	04	03	06	02	06	FMM Photon Diagnostics Components												
1	04	03	06	02	06	CAM Mover Assembly & Fiducialization	1-May-07	15-Jun-07	SL_MFAT2	Hrs	253		21,741		21,741	20.0%	6,522	
1	04	03	06	03	Undulator Monitoring													
1	04	03	06	03	01	Stretched Wire System												
1	04	03	06	03	01	Develop Data Acquisition Software	8-Aug-07	10-Dec-07	SL_CE2	Hrs	480		54,799		54,799	25.0%	13,700	
1	04	03	06	03	01	Develop Local Control Program	8-Aug-07	25-Feb-08	SL_CE2	Hrs	320		36,671		36,671	25.0%	9,168	
1	04	03	06	03	01	Specs of WPM Installation at U-Hall	8-Aug-07	27-Apr-08	SL_MES2	Hrs	120		9,779		9,779	25.0%	2,445	
1	04	03	06	03	01	Control of WPM Installation at U-Hall	31-Jan-08	27-Feb-08	SL_MES2	Hrs	80		6,552		6,552	25.0%	1,638	
1	04	03	06	03	01	System Startup of WPM at U-Hall	8-Apr-08	8-Jul-08	SL_MES2	Hrs	120		9,828		9,828	25.0%	2,457	
1	04	03	06	03	01	System Measurements at Test Facility	2-Jul-07	14-Dec-07	SL_EE2	Hrs	240		22,538		22,538	25.0%	5,634	
1	04	03	06	03	01	Wire Monitor Calibration	10-Oct-07	7-Apr-08	SL_EE2	Hrs	200		19,017		19,017	25.0%	4,754	
1	04	03	06	03	01	Design & Specs Electronics	1-May-07	31-May-07	SL_EE2	Hrs	47		4,369		4,369	25.0%	1,092	
1	04	03	06	03	01	RCV: Wire Monitors	9-Jul-07	9-Jul-07	SL_MSEG2	\$\$		68,800		73,761		73,761	35.0%	25,816
1	04	03	06	03	01	RCV: Wire Monitor Supports	9-Jul-07	9-Jul-07	SL_MSEG2	\$\$		1,800		1,930		1,930	35.0%	675
1	04	03	06	03	01	RCV: Wire Tubes	9-Jul-07	9-Jul-07	SL_MSEG2	\$\$		73,000		78,264		78,264	35.0%	27,392
1	04	03	06	03	01	RCV: Wire Tube Supports	9-Jul-07	9-Jul-07	SL_MSEG2	\$\$		15,500		16,618		16,618	35.0%	5,816
1	04	03	06	03	01	RCV: Quad ADC	9-Jul-07	9-Jul-07	SL_MSEG2	\$\$		44,000		47,173		47,173	35.0%	16,510
1	04	03	06	03	01	RCV: RF Signal Processing	8-Oct-07	8-Oct-07	SL_MSEG2	\$\$		19,000		20,838		20,838	35.0%	7,293
1	04	03	06	03	01	RCV: RF Signal Distribution	8-Oct-07	8-Oct-07	SL_MSEG2	\$\$		20,000		21,935		21,935	35.0%	7,677
1	04	03	06	03	01	RCV: RF Power Amplifier	8-Oct-07	8-Oct-07	SL_MSEG2	\$\$		8,000		8,774		8,774	35.0%	3,071
1	04	03	06	03	01	RCV: Cables	10-Dec-07	10-Dec-07	SL_MSEG2	\$\$		25,000		27,419		27,419	35.0%	9,597
1	04	03	06	03	01	RCV: Crates	8-Oct-07	8-Oct-07	SL_MSEG2	\$\$		23,000		25,226		25,226	35.0%	8,829
1	04	03	06	03	01	RCV: Data Acquisition System	2-Aug-07	2-Aug-07	SL_MSEG2	\$\$		40,000		42,884		42,884	35.0%	15,009
1	04	03	06	03	01	WPM Systems Engineering (CNST)	1-May-07	31-Oct-08	SL_MES2	Hrs	2,604		212,197		212,197	25.0%	53,049	
1	04	03	06	03	01	Drawings and Documentation	1-May-07	1-Jul-08	SL_MDD2	Hrs	21		1,779		1,779	25.0%	445	
1	04	03	06	03	02	Hydrostatic Level System												
1	04	03	06	03	02	Detail and Layout Drawings	1-May-07	16-Jul-07	SL_MDD2	Hrs	48		4,007		4,007	20.0%	801	
1	04	03	06	03	02	PP: Capacitive/Acoustic Sensors	1-May-07	31-May-07	SL_MSEG2	\$\$		36,800		39,453		39,453	10.0%	3,945
1	04	03	06	03	02	Develop Control System Connection	1-May-07	16-Jul-07	SL_CE2	Hrs	96		10,819		10,819	20.0%	2,164	
1	04	03	06	03	02	PP: Capacitive/Acoustic Sensors	21-Sep-07	21-Sep-07	SL_MSEG2	\$\$		51,000		54,677		54,677	10.0%	5,468
1	04	03	06	03	02	PP: Capacitive/Acoustic Sensors	1-Jun-07	1-Jun-07	SL_MSEG2	\$\$		111,000		119,004		119,004	10.0%	11,900
1	04	03	06	03	02	PP: Capacitive/Acoustic Sensors	23-Jul-07	23-Jul-07	SL_MSEG2	\$\$		56,000		60,038		60,038	10.0%	6,004
1	04	03	06	03	02	PP: Capacitive/Acoustic Sensors	22-Aug-07	22-Aug-07	SL_MSEG2	\$\$		56,000		60,038		60,038	10.0%	6,004
1	04	03	06	03	02	RCV: Support System	18-Jun-07	18-Jun-07	SL_MSEG2	\$\$		34,000		36,452		36,452	30.0%	10,935
1	04	03	06	03	02	RCV: Re-Fill Station	4-Sep-07	4-Sep-07	SL_MSEG2	\$\$		15,000		16,082		16,082	35.0%	5,629
1	04	03	06	03	02	RCV: Piping	27-Jul-07	27-Jul-07	SL_MSEG2	\$\$		9,000		9,649		9,649	30.0%	2,895
1	04	03	06	03	02	RCV: Data Acquisition System	31-Jul-07	31-Jul-07	SL_MSEG2	\$\$		19,000		20,370		20,370	30.0%	6,111
1	04	03	06	03	02	RCV: Cables	4-Sep-07	4-Sep-07	SL_MSEG2	\$\$		6,500		6,969		6,969	30.0%	2,091
1	04	03	06	03	02	HLS Systems Engineering (CNST)	1-May-07	31-Oct-08	SL_MES2	Hrs	1,915		156,051		156,051	35.0%	54,618	
1	04	03	06	03	03	FMM BPMs												
1	04	03	06	03	03	Alignment Hardware/Software Acceptance Testing	1-May-07	16-May-07	SL_MES2	Hrs	256		20,495		20,495	25.0%	5,124	
1	04	03	06	03	03	RCV: Laser Trackers (2)	1-May-07	15-May-07	SL_MSEG2	\$\$		72,000		77,191		77,191	0.0%	0
1	04	03	06	03	03	AEG Support and Data Evaluation	1-May-07	15-Jun-07	SL_MES2	Hrs	75		6,004		6,004	100.0%	6,004	
1	04	03	08	02	Fixed Supports													
1	04	03	08	02	Fixed Support Design													
1	04	03	08	02	AWARD: Fixed Support 1st 2 Articles	8-May-07	8-May-07	AN_AWARD	\$\$				99,849		99,849	15.0%	14,977	
1	04	03	08	02	Vendor Prep & Documentation-Fixed Support	9-May-07	22-May-07	AN_ME2	Hrs	16		1,763		1,763	15.0%	264		
1	04	03	08	02	Vendor Prep & Documentation-Fixed Support	9-May-07	22-May-07	AN_CE2	Hrs	16		1,763		1,763	15.0%	264		
1	04	03	08	02	Construction 1st Two Articles - Fixed Support	23-May-07	14-Sep-07	AN_ME2	Hrs	80		8,814		8,814	15.0%	1,322		
1	04	03	08	02	Construction 1st Two Articles - Fixed Support	23-May-07	14-Sep-07	AN_CE2	Hrs	80		8,814		8,814	15.0%	1,322		
1	04	03	08	02	Factory Accept Testing 1st Art - Fixed Support	20-Jul-07	24-Jul-07	AN_PHSS2	Hrs	24		2,644		2,644	15.0%	397		
1	04	03	08	02	Factory Accept Testing 1st Art - Fixed Support	20-Jul-07	24-Jul-07	AN_ME2	Hrs	24		2,644		2,644	15.0%	397		
1	04	03	08	02	Factory Accept Testing 1st Art - Fixed Support	20-Jul-07	24-Jul-07	AN_CE2	Hrs	24		2,644		2,644	15.0%	397		

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early	Early	Res	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont	Contingency
						Description	Start	Finish	Code		Hours	\$	Labor	M&S	Total	%	\$
1	04	03	08	02	6	Ship 1st Article Fixed Support System to ANL	25-Jul-07	31-Jul-07	AN_MSEG2	\$\$		25,000		25,575	25,575	15.0%	3,836
1	04	03	08	02	Ship 1st Article Fixed Support System to ANL	25-Jul-07	31-Jul-07	AN_EE2	Hrs	192		21,154		21,154	15.0%	3,173	
1	04	03	08	02	REC: 1st Article Fixed Support System at ANL	1-Aug-07	1-Aug-07	AA_MSSF2	\$\$		32,000		32,000	32,000	15.0%	4,800	
1	04	03	08	02	Evaluate 1st Article Fixed Support	2-Aug-07	30-Aug-07	AN_MFAT2	Hrs	80		5,175		5,175	15.0%	776	
1	04	03	08	02	Evaluate 1st Article Fixed Support	2-Aug-07	30-Aug-07	AN_ME2	Hrs	60		6,611		6,611	15.0%	992	
1	04	03	08	02	Evaluate 1st Article Fixed Support	2-Aug-07	30-Aug-07	AN_CT2	Hrs	60		3,881		3,881	15.0%	582	
1	04	03	08	02	Evaluate 1st Article Fixed Support	2-Aug-07	30-Aug-07	AN_CE2	Hrs	20		2,204		2,204	15.0%	331	
1	04	03	08	02	Evaluate 1st Article Fixed Support	2-Aug-07	30-Aug-07	AA_MSSF2	\$\$		60,000		60,000	60,000	15.0%	9,000	
1	04	03	08	02	Ship 1st Article to SLAC	31-Aug-07	14-Sep-07	AN_MSEG2	\$\$		2,000		2,046	2,046	15.0%	307	
1	04	03	08	02	Factory Accept Testing 2nd Art - Fixed Support	17-Sep-07	19-Sep-07	AN_PHS2	Hrs	24		2,644		2,644	15.0%	397	
1	04	03	08	02	Factory Accept Testing 2nd Art - Fixed Support	17-Sep-07	19-Sep-07	AN_ME2	Hrs	24		2,644		2,644	15.0%	397	
1	04	03	08	02	Factory Accept Testing 2nd Art - Fixed Support	17-Sep-07	19-Sep-07	AN_CE2	Hrs	24		2,644		2,644	15.0%	397	
1	04	03	08	02	Ship 2nd Article to SLAC	20-Sep-07	24-Sep-07	AN_MSEG2	\$\$		2,000		2,046	2,046	15.0%	307	
1	04	03	08	02	AWARD: Fixed Support Production Units (34)	25-Sep-07	25-Sep-07	AN_AWARD	\$\$		464,000		503,586	503,586	25.0%	125,897	
1	04	03	08	02	Vendor Fab Fixed Support Production Units	26-Sep-07	4-Feb-08	AN_PHS2	Hrs	50		5,631		5,631	25.0%	1,408	
1	04	03	08	02	Vendor Fab Fixed Support Production Units	26-Sep-07	4-Feb-08	AN_ME2	Hrs	510		57,434		57,434	25.0%	14,359	
1	04	03	08	02	Vendor Fab Fixed Support Production Units	26-Sep-07	4-Feb-08	AN_MDD2	Hrs	200		13,224		13,224	25.0%	3,306	
1	04	03	08	02	Vendor Fab Fixed Support Production Units	26-Sep-07	4-Feb-08	AN_CE2	Hrs	100		11,262		11,262	25.0%	2,815	
1	04	03	08	02	RCV: 2 Fixed Supports	3-Oct-07	3-Oct-07	AA_MSSF2	\$\$		32,000		32,000	32,000	25.0%	8,000	
1	04	03	08	02	RCV: 2 Fixed Supports	10-Oct-07	10-Oct-07	AA_MSSF2	\$\$		32,000		32,000	32,000	25.0%	8,000	
1	04	03	08	02	RCV: 2 Fixed Supports	17-Oct-07	17-Oct-07	AA_MSSF2	\$\$		32,000		32,000	32,000	25.0%	8,000	
1	04	03	08	02	RCV: 2 Fixed Supports	24-Oct-07	24-Oct-07	AA_MSSF2	\$\$		32,000		32,000	32,000	25.0%	8,000	
1	04	03	08	02	RCV: 2 Fixed Supports	31-Oct-07	31-Oct-07	AA_MSSF2	\$\$		32,000		32,000	32,000	25.0%	8,000	
1	04	03	08	02	RCV: 2 Fixed Supports	7-Nov-07	7-Nov-07	AA_MSSF2	\$\$		32,000		32,000	32,000	25.0%	8,000	
1	04	03	08	02	RCV: 2 Fixed Supports	14-Nov-07	14-Nov-07	AA_MSSF2	\$\$		32,000		32,000	32,000	25.0%	8,000	
1	04	03	08	02	RCV: 2 Fixed Supports	21-Nov-07	21-Nov-07	AA_MSSF2	\$\$		32,000		32,000	32,000	25.0%	8,000	
1	04	03	08	02	RCV: 2 Fixed Supports	30-Nov-07	30-Nov-07	AA_MSSF2	\$\$		32,000		32,000	32,000	25.0%	8,000	
1	04	03	08	02	RCV: 2 Fixed Supports	7-Dec-07	7-Dec-07	AA_MSSF2	\$\$		32,000		32,000	32,000	25.0%	8,000	
1	04	03	08	02	RCV: 2 Fixed Supports	14-Dec-07	14-Dec-07	AA_MSSF2	\$\$		32,000		32,000	32,000	25.0%	8,000	
1	04	03	08	02	RCV: 2 Fixed Supports	21-Dec-07	21-Dec-07	AA_MSSF2	\$\$		32,000		32,000	32,000	25.0%	8,000	
1	04	03	08	02	RCV: 2 Fixed Supports	8-Jan-08	8-Jan-08	AA_MSSF2	\$\$		32,000		32,000	32,000	25.0%	8,000	
1	04	03	08	02	RCV: 2 Fixed Supports	15-Jan-08	15-Jan-08	AA_MSSF2	\$\$		32,000		32,000	32,000	25.0%	8,000	
1	04	03	08	02	RCV: 1 Fixed Support	22-Jan-08	22-Jan-08	AA_MSSF2	\$\$		16,000		16,000	16,000	25.0%	4,000	
1	04	03	08	05	Thermometry						-	12,000	-	12,276	12,276		2,455
1	04	03	08	05	Mechanical Hardware for Temp Monitoring System	1-May-07	27-Jun-07	AN_MSEG2	\$\$		12,000		12,276	12,276	20.0%	2,455	
1	04	03	08	07	Earthquake Bracing					16	24,000	1,763	24,552	26,315		5,263	
1	04	03	08	07	Procure Earthquake Bracing	1-May-07	29-Aug-07	AN_MSEG2	\$\$		24,000		24,552	24,552	20.0%	4,910	
1	04	03	08	07	Procure Earthquake Bracing	1-May-07	29-Aug-07	AN_ME2	Hrs	16		1,763		1,763	20.0%	353	
1	04	04			Vacuum System					7,719	1,518,049	689,553	1,571,426	2,260,979		445,011	
1	04	04	02		Undulator Vacuum Chamber Assembly					5,805	1,182,268	510,648	1,225,772	1,736,420		347,284	
1	04	04	02	02	Production Chamber Weldment					5,805	1,182,268	510,648	1,225,772	1,736,420		347,284	
1	04	04	02	02	Oversee Construction of Vacuum Chamber	26-Sep-07	23-May-08	AN_MVE2	Hrs	254		28,616		28,616	20.0%	5,723	
1	04	04	02	02	Oversee Construction of Vacuum Chamber	26-Sep-07	23-May-08	AN_MFAT2	Hrs	295		19,513		19,513	20.0%	3,903	
1	04	04	02	02	Oversee Construction of Vacuum Chamber	26-Sep-07	23-May-08	AN_ME2	Hrs	274		30,869		30,869	20.0%	6,174	
1	04	04	02	02	Oversee Construction of Vacuum Chamber	26-Sep-07	23-May-08	AN_MDD2	Hrs	141		9,326		9,326	20.0%	1,865	
1	04	04	02	02	Oversee Construction of Chamber Supports	1-May-07	21-Dec-07	AN_MVE2	Hrs	236		26,209		26,209	20.0%	5,242	
1	04	04	02	02	Oversee Construction of Chamber Supports	1-May-07	21-Dec-07	AN_MFMS2	Hrs	26		2,665		2,665	20.0%	533	
1	04	04	02	02	Oversee Construction of Chamber Supports	1-May-07	21-Dec-07	AN_MFAT2	Hrs	387		25,233		25,233	20.0%	5,047	
1	04	04	02	02	Oversee Construction of Chamber Supports	1-May-07	21-Dec-07	AN_MDD2	Hrs	141		9,194		9,194	20.0%	1,839	
1	04	04	02	02	Transmit Prd Un Chamber Design/Drawings to SLAC	1-May-07	7-May-07	AN_ME2	Hrs	16		1,763		1,763	20.0%	353	
1	04	04	02	02	Transmit Prd Un Chamber Design/Drawings to SLAC	1-May-07	7-May-07	AN_MDD2	Hrs	16		1,035		1,035	20.0%	207	
1	04	04	02	02	AWARD: Chamber Wall Parts (33)	1-May-07	1-May-07	AN_AWARD	\$\$		106,564		115,656	115,656	20.0%	23,131	
1	04	04	02	02	RCV: Chamber Wall Parts (4)	13-Jul-07	13-Jul-07	AA_MSEG2	\$\$		12,850		13,146	13,146	20.0%	2,629	
1	04	04	02	02	AWARD: Strongback Machine (33)	1-May-07	1-May-07	AN_AWARD	\$\$		300,960		326,636	326,636	20.0%	65,327	
1	04	04	02	02	RCV: Strongback Machine (4)	1-Aug-07	1-Aug-07	AA_MSEG2	\$\$		36,000		36,828	36,828	20.0%	7,366	
1	04	04	02	02	Inspect, Clean, & Pkg Parts (4)	2-Aug-07	15-Aug-07	AN_MVE2	Hrs	40		4,407		4,407	20.0%	881	
1	04	04	02	02	Inspect, Clean, & Pkg Parts (4)	2-Aug-07	15-Aug-07	AN_MFAT2	Hrs	60		3,881		3,881	20.0%	776	
1	04	04	02	02	Inspect, Clean, & Pkg Parts (4)	2-Aug-07	15-Aug-07	AN_ME2	Hrs	40		4,407		4,407	20.0%	881	
1	04	04	02	02	AWARD: Laser Weld (33)	22-Aug-07	22-Aug-07	AN_AWARD	\$\$		50,799		55,133	55,133	20.0%	11,027	
1	04	04	02	02	AVAIL: Laser Weld (4)	24-Sep-07	24-Sep-07	AA_MSEG2	\$\$		6,000		6,138	6,138	20.0%	1,228	
1	04	04	02	02	AWARD: Final Machine (33)	25-Sep-07	25-Sep-07	AN_AWARD	\$\$		67,320		73,063	73,063	20.0%	14,613	
1	04	04	02	02	RCV: Final Machine (4)	25-Oct-07	25-Oct-07	AA_MSEG2	\$\$		8,000		8,372	8,372	20.0%	1,674	
1	04	04	02	02	Inspect, Leak Test, Clean, Coat & Bake (4)	26-Oct-07	15-Nov-07	AN_MVE2	Hrs	132		14,878		14,878	20.0%	2,976	
1	04	04	02	02	Inspect, Leak Test, Clean, Coat & Bake (4)	26-Oct-07	15-Nov-07	AN_MFAT2	Hrs	260		17,206		17,206	20.0%	3,441	
1	04	04	02	02	Ship Vacuum Chambers to SLAC (4)	16-Nov-07	26-Nov-07	AN_MVE2	Hrs	32		3,607		3,607	20.0%	721	
1	04	04	02	02	Ship Vacuum Chambers to SLAC (4)	16-Nov-07	26-Nov-07	AN_MFAT2	Hrs	48		3,176		3,176	20.0%	635	
1	04	04	02	02	AWARD: Strongback Material (29)	1-May-07	1-May-07	AN_AWARD	\$\$		123,663		134,213	134,213	20.0%	26,843	
1	04	04	02	02	RCV: Strongback Material (7)	11-May-07	11-May-07	AA_MSEG2	\$\$		29,869		30,556	30,556	20.0%	6,111	
1	04	04	02	02	RCV: Chamber Wall Parts (7)	30-Jul-07	30-Jul-07	AA_MSEG2	\$\$		22,500		23,018	23,018	20.0%	4,604	
1	04	04	02	02	RCV: Strongback Machine (7)	30-Aug-07	30-Aug-07	AA_MSEG2	\$\$		63,000		64,449	64,449	20.0%	12,890	
1	04	04	02	02	Inspect, Clean, & Pkg Parts (7)	31-Aug-07	14-Sep-07	AN_MVE2	Hrs	40		4,407		4,407	20.0%	881	
1	04	04	02	02	Inspect, Clean, & Pkg Parts (7)	31-Aug-07	14-Sep-07	AN_MFAT2	Hrs	60		3,881		3,881	20.0%	776	

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline Description	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont %	Contingency \$
1	2	3	4	5	6						Hours	\$	Labor	M&S	Total		
1	04	04	02	02	6						Inspect, Clean, & Pkg Parts (7)	31-Aug-07	14-Sep-07	AN_ME2	Hrs		
1	04	04	02	02		AVAIL: Laser Weld (7)	17-Oct-07	17-Oct-07	AA_MSEG2	\$\$		10,600		11,093	11,093	20.0%	2,219
1	04	04	02	02		RCV: Final Machine (7)	27-Nov-07	27-Nov-07	AA_MSEG2	\$\$		14,000		14,651	14,651	20.0%	2,930
1	04	04	02	02		Inspect, Leak Test, Clean, Coat & Bake (7)	28-Nov-07	4-Jan-08	AN_MVE2	Hrs	145		16,343		16,343	20.0%	3,269
1	04	04	02	02		Inspect, Leak Test, Clean, Coat & Bake (7)	28-Nov-07	4-Jan-08	AN_MFAT2	Hrs	283		18,728		18,728	20.0%	3,746
1	04	04	02	02		Ship Vacuum Chambers to SLAC (7)	7-Jan-08	11-Jan-08	AN_MVE2	Hrs	32		3,607		3,607	20.0%	721
1	04	04	02	02		Ship Vacuum Chambers to SLAC (7)	7-Jan-08	11-Jan-08	AN_MFAT2	Hrs	48		3,176		3,176	20.0%	635
1	04	04	02	02		RCV: Strongback Material (7)	22-May-07	22-May-07	AA_MSEG2	\$\$		29,869		30,556	30,556	20.0%	6,111
1	04	04	02	02		RCV: Chamber Wall Parts (7)	28-Aug-07	28-Aug-07	AA_MSEG2	\$\$		22,500		23,018	23,018	20.0%	4,604
1	04	04	02	02		RCV: Strongback Machine (7)	1-Oct-07	1-Oct-07	AA_MSEG2	\$\$		63,000		65,931	65,931	20.0%	13,186
1	04	04	02	02		Inspect, Clean, & Pkg Parts (7)	2-Oct-07	15-Oct-07	AN_MVE2	Hrs	40		4,509		4,509	20.0%	902
1	04	04	02	02		Inspect, Clean, & Pkg Parts (7)	2-Oct-07	15-Oct-07	AN_MFAT2	Hrs	60		3,971		3,971	20.0%	794
1	04	04	02	02		Inspect, Clean, & Pkg Parts (7)	2-Oct-07	15-Oct-07	AN_ME2	Hrs	40		4,509		4,509	20.0%	902
1	04	04	02	02		AVAIL: Laser Weld (7)	12-Nov-07	12-Nov-07	AA_MSEG2	\$\$				11,093	11,093	20.0%	2,219
1	04	04	02	02		RCV: Final Machine (7)	21-Dec-07	21-Dec-07	AA_MSEG2	\$\$		14,000		14,651	14,651	20.0%	2,930
1	04	04	02	02		Inspect, Leak Test, Clean, Coat & Bake (7)	2-Jan-08	30-Jan-08	AN_MVE2	Hrs	80		9,017		9,017	20.0%	1,803
1	04	04	02	02		Inspect, Leak Test, Clean, Coat & Bake (7)	2-Jan-08	30-Jan-08	AN_MFAT2	Hrs	130		8,603		8,603	20.0%	1,721
1	04	04	02	02		Ship Vacuum Chambers to SLAC (7)	31-Jan-08	6-Feb-08	AN_MVE2	Hrs	44		4,959		4,959	20.0%	992
1	04	04	02	02		Ship Vacuum Chambers to SLAC (7)	31-Jan-08	6-Feb-08	AN_MFAT2	Hrs	48		3,176		3,176	20.0%	635
1	04	04	02	02		RCV: Strongback Material (7)	1-Jun-07	1-Jun-07	AA_MSEG2	\$\$		29,869		30,556	30,556	20.0%	6,111
1	04	04	02	02		RCV: Chamber Wall Parts (7)	27-Sep-07	27-Sep-07	AA_MSEG2	\$\$		22,500		23,018	23,018	20.0%	4,604
1	04	04	02	02		RCV: Strongback Machine (7)	30-Oct-07	30-Oct-07	AA_MSEG2	\$\$		63,000		65,931	65,931	20.0%	13,186
1	04	04	02	02		Inspect, Clean, & Pkg Parts (7)	31-Oct-07	13-Nov-07	AN_MVE2	Hrs	40		4,509		4,509	20.0%	902
1	04	04	02	02		Inspect, Clean, & Pkg Parts (7)	31-Oct-07	13-Nov-07	AN_MFAT2	Hrs	60		3,971		3,971	20.0%	794
1	04	04	02	02		Inspect, Clean, & Pkg Parts (7)	31-Oct-07	13-Nov-07	AN_ME2	Hrs	40		4,509		4,509	20.0%	902
1	04	04	02	02		AVAIL: Laser Weld (7)	13-Dec-07	13-Dec-07	AA_MSEG2	\$\$		10,600		11,093	11,093	20.0%	2,219
1	04	04	02	02		RCV: Final Machine (7)	30-Jan-08	30-Jan-08	AA_MSEG2	\$\$		14,000		14,651	14,651	20.0%	2,930
1	04	04	02	02		Inspect, Leak Test, Clean, Coat & Bake (7)	31-Jan-08	28-Feb-08	AN_MVE2	Hrs	128		14,427		14,427	20.0%	2,885
1	04	04	02	02		Inspect, Leak Test, Clean, Coat & Bake (7)	31-Jan-08	28-Feb-08	AN_MFAT2	Hrs	200		13,235		13,235	20.0%	2,647
1	04	04	02	02		Ship Vacuum Chambers to SLAC (7)	29-Feb-08	6-Mar-08	AN_MVE2	Hrs	40		4,509		4,509	20.0%	902
1	04	04	02	02		Ship Vacuum Chambers to SLAC (7)	29-Feb-08	6-Mar-08	AN_MFAT2	Hrs	48		3,176		3,176	20.0%	635
1	04	04	02	02		RCV: Strongback Material (8)	13-Jun-07	13-Jun-07	AA_MSEG2	\$\$		34,056		34,839	34,839	20.0%	6,968
1	04	04	02	02		RCV: Chamber Wall Parts (8)	26-Oct-07	26-Oct-07	AA_MSEG2	\$\$		25,700		26,896	26,896	20.0%	5,379
1	04	04	02	02		RCV: Strongback Machine (8)	30-Nov-07	30-Nov-07	AA_MSEG2	\$\$		72,000		75,350	75,350	20.0%	15,070
1	04	04	02	02		Inspect, Clean, & Pkg Parts (8)	3-Dec-07	14-Dec-07	AN_MVE2	Hrs	40		4,509		4,509	20.0%	902
1	04	04	02	02		Inspect, Clean, & Pkg Parts (8)	3-Dec-07	14-Dec-07	AN_MFAT2	Hrs	60		3,971		3,971	20.0%	794
1	04	04	02	02		Inspect, Clean, & Pkg Parts (8)	3-Dec-07	14-Dec-07	AN_ME2	Hrs	40		4,509		4,509	20.0%	902
1	04	04	02	02		AVAIL: Laser Weld (8)	22-Jan-08	22-Jan-08	AA_MSEG2	\$\$		12,121		12,685	12,685	20.0%	2,537
1	04	04	02	02		RCV: Final Machine (8)	28-Feb-08	28-Feb-08	AA_MSEG2	\$\$		16,000		16,744	16,744	20.0%	3,349
1	04	04	02	02		Inspect, Leak Test, Clean, Coat & Bake (8)	29-Feb-08	28-Mar-08	AN_MVE2	Hrs	120		13,526		13,526	20.0%	2,705
1	04	04	02	02		Inspect, Leak Test, Clean, Coat & Bake (8)	29-Feb-08	28-Mar-08	AN_MFAT2	Hrs	200		13,235		13,235	20.0%	2,647
1	04	04	02	02		Ship Vacuum Chambers to SLAC (8)	31-Mar-08	4-Apr-08	AN_MVE2	Hrs	42		4,734		4,734	20.0%	947
1	04	04	02	02		Ship Vacuum Chambers to SLAC (8)	31-Mar-08	4-Apr-08	AN_MFAT2	Hrs	106		7,015		7,015	20.0%	1,403
1	04	04	02	02		Award Effort Chamber Supports	1-May-07	26-Jun-07	AN_MVE2	Hrs	152		16,747		16,747	20.0%	3,349
1	04	04	02	02		AWARD: Chamber Supports (33)	1-May-07	1-May-07	AN_AWARD	\$\$		535,040		580,687	580,687	20.0%	116,137
1	04	04	02	02		RCV: Chamber Supports (4)	28-Jun-07	28-Jun-07	AN_MVE2	Hrs	24		2,644		2,644	20.0%	529
1	04	04	02	02		RCV: Chamber Supports (4)	28-Jun-07	28-Jun-07	AA_MSSC2	\$\$		64,000		65,472	65,472	20.0%	13,094
1	04	04	02	02		Inspect Chamber Supports (4)	29-Jun-07	17-Jul-07	AN_MVE2	Hrs	84		9,255		9,255	20.0%	1,851
1	04	04	02	02		Inspect Chamber Supports (4)	29-Jun-07	17-Jul-07	AN_MFMS2	Hrs	5		508		508	20.0%	102
1	04	04	02	02		Package Chamber Supports for Shipment (4)	18-Jul-07	24-Jul-07	AN_MVE2	Hrs	32		3,526		3,526	20.0%	705
1	04	04	02	02		Package Chamber Supports for Shipment (4)	18-Jul-07	24-Jul-07	AN_MFAT2	Hrs	72		4,657		4,657	20.0%	931
1	04	04	02	02		Ship Chamber Supports to SLAC (4)	25-Jul-07	31-Jul-07	AN_MSEG2	\$\$		1,454		1,487	1,487	20.0%	297
1	04	04	02	02		RCV: Chamber Supports (7)	17-Aug-07	17-Aug-07	AN_MVE2	Hrs	24		2,644		2,644	20.0%	529
1	04	04	02	02		RCV: Chamber Supports (7)	17-Aug-07	17-Aug-07	AA_MSSC2	\$\$		112,000		114,576	114,576	20.0%	22,915
1	04	04	02	02		Inspect Chamber Supports (7)	20-Aug-07	5-Sep-07	AN_MVE2	Hrs	72		7,933		7,933	20.0%	1,587
1	04	04	02	02		Inspect Chamber Supports (7)	20-Aug-07	5-Sep-07	AN_MFMS2	Hrs	10		1,017		1,017	20.0%	203
1	04	04	02	02		Package Chamber Supports for Shipment (7)	6-Sep-07	12-Sep-07	AN_MVE2	Hrs	16		1,763		1,763	20.0%	353
1	04	04	02	02		Package Chamber Supports for Shipment (7)	6-Sep-07	12-Sep-07	AN_MFAT2	Hrs	72		4,657		4,657	20.0%	931
1	04	04	02	02		Ship Chamber Supports to SLAC (7)	13-Sep-07	19-Sep-07	AN_MSEG2	\$\$		2,545		2,604	2,604	20.0%	521
1	04	04	02	02		RCV: Chamber Supports (7)	8-Oct-07	8-Oct-07	AN_MVE2	Hrs	24		2,705		2,705	20.0%	541
1	04	04	02	02		RCV: Chamber Supports (7)	8-Oct-07	8-Oct-07	AA_MSSC2	\$\$		112,000		117,211	117,211	20.0%	23,442
1	04	04	02	02		Inspect Chamber Supports (7)	9-Oct-07	24-Oct-07	AN_MVE2	Hrs	64		7,214		7,214	20.0%	1,443
1	04	04	02	02		Inspect Chamber Supports (7)	9-Oct-07	24-Oct-07	AN_MFMS2	Hrs	10		1,040		1,040	20.0%	208
1	04	04	02	02		Package Chamber Supports for Shipment (7)	25-Oct-07	31-Oct-07	AN_MVE2	Hrs	32		3,607		3,607	20.0%	721
1	04	04	02	02		Package Chamber Supports for Shipment (7)	25-Oct-07	31-Oct-07	AN_MFAT2	Hrs	72		4,765		4,765	20.0%	953
1	04	04	02	02		Ship Chamber Supports to SLAC (7)	1-Nov-07	7-Nov-07	AN_MSEG2	\$\$		2,545		2,663	2,663	20.0%	533
1	04	04	02	02		RCV: Chamber Supports (7)	28-Nov-07	28-Nov-07	AN_MVE2	Hrs	24		2,705		2,705	20.0%	541
1	04	04	02	02		RCV: Chamber Supports (7)	28-Nov-07	28-Nov-07	AA_MSSC2	\$\$		112,000		117,211	117,211	20.0%	23,442
1	04	04	02	02		Inspect Chamber Supports (7)	29-Nov-07	14-Dec-07	AN_MVE2	Hrs	64		7,214		7,214	20.0%	1,443
1	04	04	02	02		Inspect Chamber Supports (7)	29-Nov-07	14-Dec-07	AN_MFMS2	Hrs	10		1,040		1,040	20.0%	208
1	04	04	02	02		Package Chamber Supports for Shipment (7)	17-Dec-07	21-Dec-07	AN_MVE2	Hrs	32		3,607		3,607	20.0%	721
1	04	04	02	02		Package Chamber Supports for Shipment (7)	17-Dec-07										

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont %	Contingency \$	
Description											Hours	\$	Labor	M&S	Total			
1	04	04	02	02	6	Ship Chamber Supports to SLAC (7)	2-Jan-08	8-Jan-08	AN_MSEG2	\$\$		2,545			2,663	2,663	20.0%	533
1	04	04	02	02	RCV: Chamber Supports (8)	1-Feb-08	1-Feb-08	AN_MVE2	Hrs		24		2,705		2,705	20.0%	541	
1	04	04	02	02	RCV: Chamber Supports (8)	1-Feb-08	1-Feb-08	AA_MSSC2	\$\$			128,000		133,956	133,956	20.0%	26,791	
1	04	04	02	02	Inspect Chamber Supports (8)	4-Feb-08	19-Feb-08	AN_MVE2	Hrs		64		7,214		7,214	20.0%	1,443	
1	04	04	02	02	Inspect Chamber Supports (8)	4-Feb-08	19-Feb-08	AN_MFMS2	Hrs		10		1,040		1,040	20.0%	208	
1	04	04	02	02	Package Chamber Supports for Shipment (8)	20-Feb-08	26-Feb-08	AN_MVE2	Hrs		16		1,803		1,803	20.0%	361	
1	04	04	02	02	Package Chamber Supports for Shipment (8)	20-Feb-08	26-Feb-08	AN_MFAT2	Hrs		72		4,765		4,765	20.0%	953	
1	04	04	02	02	Ship Chamber Supports to SLAC (8)	27-Feb-08	4-Mar-08	AN_MSEG2	\$\$			2,545		2,663	2,663	20.0%	533	
1	04	04	03		Beam-line Bellows Module Assembly						1,063	169,572	99,754	175,599	275,353		55,071	
1	04	04	03	02	Production Bellows Module						1,063	169,572	99,754	175,599	275,353		55,071	
1	04	04	03	02	Final Design Review Std Bel Mod	1-May-07	25-May-07	AN_PHS2	Hrs		2		220		220	20.0%	44	
1	04	04	03	02	Final Design Review Std Bel Mod	1-May-07	25-May-07	AN_MVE2	Hrs		4		441		441	20.0%	88	
1	04	04	03	02	Final Design Review Std Bel Mod	1-May-07	25-May-07	AN_MDD2	Hrs		4		259		259	20.0%	52	
1	04	04	03	02	Bid Package-Standard Bellows Module	1-May-07	25-May-07	AN_MVE2	Hrs		3		331		331	20.0%	66	
1	04	04	03	02	Bid Process Std Bel Mod	1-May-07	25-May-07	AN_MVE2	Hrs		12		1,322		1,322	20.0%	264	
1	04	04	03	02	Evaluate Bid Std Bel Mod	29-May-07	30-May-07	AN_MVE2	Hrs		8		881		881	20.0%	176	
1	04	04	03	02	AWARD: Standard Bellows Module (47)	31-May-07	1-Jun-07	AN_AWARD	\$\$			171,147		185,748	185,748	20.0%	37,150	
1	04	04	03	02	Standard Bellows Module (47) Support	31-May-07	1-Jun-07	AN_MVE2	Hrs		8		881		881	20.0%	176	
1	04	04	03	02	REC: First Lot Standard Bellows Module (4)	4-Jun-07	30-Jul-07	AN_MVE2	Hrs		4		441		441	20.0%	88	
1	04	04	03	02	REC: First Lot Standard Bellows Module (4)	4-Jun-07	30-Jul-07	AN_MFAT2	Hrs		4		259		259	20.0%	52	
1	04	04	03	02	REC: First Lot Standard Bellows Module (4)	4-Jun-07	30-Jul-07	AA_MSSC2	\$\$			14,304		14,633	14,633	20.0%	2,927	
1	04	04	03	02	Oversee Construction of Bellows Module	4-Jun-07	1-May-08	AN_MVE2	Hrs		313		34,995		34,995	20.0%	6,999	
1	04	04	03	02	Oversee Construction of Bellows Module	4-Jun-07	1-May-08	AN_MFAT2	Hrs		80		5,251		5,251	20.0%	1,050	
1	04	04	03	02	Oversee Construction of Bellows Module	4-Jun-07	1-May-08	AN_MDD2	Hrs		40		2,626		2,626	20.0%	525	
1	04	04	03	02	QA First Lot Std Bel Mod	31-Jul-07	9-Aug-07	AN_MVE2	Hrs		16		1,763		1,763	20.0%	353	
1	04	04	03	02	QA First Lot Std Bel Mod	31-Jul-07	9-Aug-07	AN_MFMS2	Hrs		8		813		813	20.0%	163	
1	04	04	03	02	Assembly Test 1st Lot Std Bel Mod	10-Aug-07	13-Aug-07	AN_MVE2	Hrs		8		881		881	20.0%	176	
1	04	04	03	02	Assembly Test 1st Lot Std Bel Mod	10-Aug-07	13-Aug-07	AN_MFAT2	Hrs		16		1,035		1,035	20.0%	207	
1	04	04	03	02	Clean 1st Lot Std Bel Mod	14-Aug-07	14-Aug-07	AN_MVE2	Hrs		16		1,763		1,763	20.0%	353	
1	04	04	03	02	Clean 1st Lot Std Bel Mod	14-Aug-07	14-Aug-07	AN_MFAT2	Hrs		16		1,035		1,035	20.0%	207	
1	04	04	03	02	Bake 1st Lot Std Bel Mod	15-Aug-07	21-Aug-07	AN_MVE2	Hrs		16		1,763		1,763	20.0%	353	
1	04	04	03	02	Bake 1st Lot Std Bel Mod	15-Aug-07	21-Aug-07	AN_MFAT2	Hrs		32		2,070		2,070	20.0%	414	
1	04	04	03	02	Prepare 1st Lot Std Bellows for Shipment	22-Aug-07	22-Aug-07	AN_MVE2	Hrs		8		881		881	20.0%	176	
1	04	04	03	02	Prepare 1st Lot Std Bellows for Shipment	22-Aug-07	22-Aug-07	AN_MFAT2	Hrs		8		517		517	20.0%	103	
1	04	04	03	02	Pack 1st Lot Std Bellows for Shipping	23-Aug-07	23-Aug-07	AN_MVE2	Hrs		8		881		881	20.0%	176	
1	04	04	03	02	Pack 1st Lot Std Bellows for Shipping	23-Aug-07	23-Aug-07	AN_MFAT2	Hrs		8		517		517	20.0%	103	
1	04	04	03	02	Ship 1st Lot (4) Std Bel Mod to SLAC	24-Aug-07	30-Aug-07	AN_MSEG2	\$\$			500		512	512	20.0%	102	
1	04	04	03	02	Approve Continuation of Production Std Bel Mod	10-Aug-07	13-Aug-07	AN_MVE2	Hrs		8		881		881	20.0%	176	
1	04	04	03	02	REC: 2nd Prod Lot Std Bellows Module (21)	14-Aug-07	9-Oct-07	AN_MVE2	Hrs		12		1,326		1,326	20.0%	265	
1	04	04	03	02	REC: 2nd Prod Lot Std Bellows Module (21)	14-Aug-07	9-Oct-07	AN_MFAT2	Hrs		9		584		584	20.0%	117	
1	04	04	03	02	REC: 2nd Prod Lot Std Bellows Module (21)	14-Aug-07	9-Oct-07	AA_MSSC2	\$\$			75,096		77,076	77,076	20.0%	15,415	
1	04	04	03	02	QA Production 2nd Lot Std Bel Mod	10-Oct-07	18-Oct-07	AN_MVE2	Hrs		16		1,803		1,803	20.0%	361	
1	04	04	03	02	QA Production 2nd Lot Std Bel Mod	10-Oct-07	18-Oct-07	AN_MFMS2	Hrs		12		1,248		1,248	20.0%	250	
1	04	04	03	02	Assembly Test 2nd Lot Std Bel Mod	19-Oct-07	25-Oct-07	AN_MVE2	Hrs		8		902		902	20.0%	180	
1	04	04	03	02	Assembly Test 2nd Lot Std Bel Mod	19-Oct-07	25-Oct-07	AN_MFAT2	Hrs		16		1,059		1,059	20.0%	212	
1	04	04	03	02	Clean 2nd Lot Std Bel Mod	26-Oct-07	31-Oct-07	AN_MVE2	Hrs		16		1,803		1,803	20.0%	361	
1	04	04	03	02	Clean 2nd Lot Std Bel Mod	26-Oct-07	31-Oct-07	AN_MFAT2	Hrs		16		1,059		1,059	20.0%	212	
1	04	04	03	02	Bake 2nd Lot Std Bel Mod	1-Nov-07	7-Nov-07	AN_MVE2	Hrs		16		1,803		1,803	20.0%	361	
1	04	04	03	02	Bake 2nd Lot Std Bel Mod	1-Nov-07	7-Nov-07	AN_MFAT2	Hrs		32		2,118		2,118	20.0%	424	
1	04	04	03	02	Prepare 2nd Lot Std Bellows for Shipment	8-Nov-07	9-Nov-07	AN_MVE2	Hrs		8		902		902	20.0%	180	
1	04	04	03	02	Prepare 2nd Lot Std Bellows for Shipment	8-Nov-07	9-Nov-07	AN_MFAT2	Hrs		8		529		529	20.0%	106	
1	04	04	03	02	Pack 2nd Lot Std Bellows for Shipping	12-Nov-07	13-Nov-07	AN_MVE2	Hrs		8		902		902	20.0%	180	
1	04	04	03	02	Pack 2nd Lot Std Bellows for Shipping	12-Nov-07	13-Nov-07	AN_MFAT2	Hrs		8		529		529	20.0%	106	
1	04	04	03	02	Ship 2nd Lot (21) Std Bel Mod to SLAC	14-Nov-07	20-Nov-07	AN_MSEG2	\$\$			500		523	523	20.0%	105	
1	04	04	03	02	REC: Remain Prod Lot Std Bellows Module (22)	10-Oct-07	6-Dec-07	AN_MVE2	Hrs		16		1,803		1,803	20.0%	361	
1	04	04	03	02	REC: Remain Prod Lot Std Bellows Module (22)	10-Oct-07	6-Dec-07	AN_MFAT2	Hrs		8		529		529	20.0%	106	
1	04	04	03	02	REC: Remain Prod Lot Std Bellows Module (22)	10-Oct-07	6-Dec-07	AA_MSSC2	\$\$			78,672		82,333	82,333	20.0%	16,467	
1	04	04	03	02	QA Production Rem Lot Std Bel Mod	7-Dec-07	18-Dec-07	AN_MVE2	Hrs		16		1,803		1,803	20.0%	361	
1	04	04	03	02	QA Production Rem Lot Std Bel Mod	7-Dec-07	18-Dec-07	AN_MFMS2	Hrs		12		1,248		1,248	20.0%	250	
1	04	04	03	02	Assembly Test Rem Std Bel Mod	19-Dec-07	3-Jan-08	AN_MVE2	Hrs		8		902		902	20.0%	180	
1	04	04	03	02	Assembly Test Rem Std Bel Mod	19-Dec-07	3-Jan-08	AN_MFAT2	Hrs		16		1,059		1,059	20.0%	212	
1	04	04	03	02	Clean Rem Std Bel Mod	4-Jan-08	9-Jan-08	AN_MVE2	Hrs		16		1,803		1,803	20.0%	361	
1	04	04	03	02	Clean Rem Std Bel Mod	4-Jan-08	9-Jan-08	AN_MFAT2	Hrs		16		1,059		1,059	20.0%	212	
1	04	04	03	02	Bake Rem Std Bel Mod	10-Jan-08	16-Jan-08	AN_MVE2	Hrs		24		2,705		2,705	20.0%	541	
1	04	04	03	02	Bake Rem Std Bel Mod	10-Jan-08	16-Jan-08	AN_MFAT2	Hrs		32		2,118		2,118	20.0%	424	
1	04	04	03	02	Prepare Rem Std Bellows for Shipment	17-Jan-08	18-Jan-08	AN_MVE2	Hrs		8		902		902	20.0%	180	
1	04	04	03	02	Prepare Rem Std Bellows for Shipment	17-Jan-08	18-Jan-08	AN_MFAT2	Hrs		8		529		529	20.0%	106	
1	04	04	03	02	Pack Rem Std Bellows for Shipping	21-Jan-08	22-Jan-08	AN_MVE2	Hrs		8		902		902	20.0%	180	
1	04	04	03	02	Pack Rem Std Bellows for Shipping	21-Jan-08	22-Jan-08	AN_MFAT2	Hrs		8		529		529	20.0%	106	
1	04	04	03	02	Ship Rem 22 Std Bel Mod to SLAC	23-Jan-08	29-Jan-08	AN_MSEG2	\$\$			500		523	523	20.0%	105	
1	04	04	03	02	Transmit Std Bel Mod Design & Drawings to SLA	31-Aug-07	7-Sep-07	SL_MDD2	Hrs		8		668		668	20.0%	134	
1	04	04	03	02	Transmit Std Bel Mod Design & Drawings to SLA	31-Aug-07	7-Sep-07	AN_ME2	Hrs		8		881		881	20.0%	176	

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont %	Contingency \$
Description						Hours					\$	Labor	M&S	Total			
1	04	04	03	02	6	Transmit Std Bel Mod Design & Drawings to SLA	31-Aug-07	7-Sep-07	AN_MDD2	Hrs	16		1,035		1,035	20.0%	207
1	04	04	04			Single Undulator Test (SUT) Vacuum					4	-	441	-	441		44
1	04	04	04			Support SUT Long Term Test FY07	1-May-07	8-Jun-07	AN_MVE2	Hrs	4		441		441	10.0%	44
1	04	04	05			Short Diagnostic Break (SDB) Assembly					279	43,682	24,664	44,710	69,374		10,406
1	04	04	05			Final SDB Vac Cham & Integration Design Review	1-May-07	20-Jun-07	AN_PHS2	Hrs	3		331		331	15.0%	50
1	04	04	05			Final SDB Vac Cham & Integration Design Review	1-May-07	20-Jun-07	AN_MVE2	Hrs	6		661		661	15.0%	99
1	04	04	05			Final SDB Vac Cham & Integration Design Review	1-May-07	20-Jun-07	AN_MDD2	Hrs	6		388		388	15.0%	58
1	04	04	05			Pump Support Bid Package	21-Jun-07	27-Jun-07	AN_MVE2	Hrs	16		1,763		1,763	15.0%	264
1	04	04	05			AWARD: Pump Manifold (23)	28-Jun-07	29-Jun-07	AN_AWARD	\$\$		16,068		17,439	17,439	15.0%	2,616
1	04	04	05			Pump Manifold (23) Award Effort	28-Jun-07	29-Jun-07	AN_MVE2	Hrs	8		881		881	15.0%	132
1	04	04	05			Pump Support (23) Award Effort	21-Jun-07	25-Jun-07	AN_MVE2	Hrs	8		881		881	15.0%	132
1	04	04	05			AWARD: SDB Ion Pump Support	6-Jul-07	9-Jul-07	AN_AWARD	\$\$		26,614		28,885	28,885	15.0%	4,333
1	04	04	05			SDB Ion Pump Support Award Effort	6-Jul-07	9-Jul-07	AN_MVE2	Hrs	8		881		881	15.0%	132
1	04	04	05			REC: SDB Pump Manifold (23)	10-Jul-07	4-Sep-07	AA_MSSC2	\$\$		16,068		16,438	16,438	15.0%	2,466
1	04	04	05			REC: SDB Ion Pump Support (23)	10-Jul-07	4-Sep-07	AA_MSSC2	\$\$		26,614		27,226	27,226	15.0%	4,084
1	04	04	05			QA Production Lot SDB	5-Sep-07	18-Sep-07	AN_MVE2	Hrs	8		881		881	15.0%	132
1	04	04	05			QA Production Lot SDB	5-Sep-07	18-Sep-07	AN_MFMS2	Hrs	24		2,440		2,440	15.0%	366
1	04	04	05			Approve Production Lot SDB	19-Sep-07	21-Sep-07	AN_MVE2	Hrs	8		881		881	15.0%	132
1	04	04	05			Clean SDB	24-Sep-07	28-Sep-07	AN_MVE2	Hrs	8		881		881	15.0%	132
1	04	04	05			Clean SDB	24-Sep-07	28-Sep-07	AN_MFAT2	Hrs	32		2,070		2,070	15.0%	310
1	04	04	05			Bake SDB	1-Oct-07	5-Oct-07	AN_MVE2	Hrs	8		902		902	15.0%	135
1	04	04	05			Bake SDB	1-Oct-07	5-Oct-07	AN_MFAT2	Hrs	32		2,118		2,118	15.0%	318
1	04	04	05			Prepare Short Diagnostic Break for Shipment	8-Oct-07	12-Oct-07	AN_MVE2	Hrs	8		902		902	15.0%	135
1	04	04	05			Prepare Short Diagnostic Break for Shipment	8-Oct-07	12-Oct-07	AN_MFAT2	Hrs	24		1,588		1,588	15.0%	238
1	04	04	05			Pack Short Diagnostic Break for Shipping	15-Oct-07	19-Oct-07	AN_MVE2	Hrs	8		902		902	15.0%	135
1	04	04	05			Pack Short Diagnostic Break for Shipping	15-Oct-07	19-Oct-07	AN_MFAT2	Hrs	24		1,588		1,588	15.0%	238
1	04	04	05			Ship to SLAC SDB	22-Oct-07	26-Oct-07	AN_MSEG2	\$\$		1,000		1,047	1,047	15.0%	157
1	04	04	05			Transmit SDB Design & Drawings to SLAC	29-Oct-07	2-Nov-07	AN_ME2	Hrs	8		902		902	15.0%	135
1	04	04	05			Transmit SDB Design & Drawings to SLAC	29-Oct-07	2-Nov-07	AN_MDD2	Hrs	16		1,059		1,059	15.0%	159
1	04	04	05			Pump Manifold Bid Package	21-Jun-07	27-Jun-07	AN_MVE2	Hrs	16		1,763		1,763	15.0%	264
1	04	04	06			Long Diagnostic Break (LDB) Assembly					352	40,827	31,679	41,766	73,445		11,017
1	04	04	06			Chamber Support Bid Package	1-May-07	25-May-07	AN_MVE2	Hrs	12		1,322		1,322	15.0%	198
1	04	04	06			Pump Support Bid Package	1-May-07	25-May-07	AN_MVE2	Hrs	12		1,322		1,322	15.0%	198
1	04	04	06			Final LDB Vac Cham & Integration Design Review	1-May-07	20-Jun-07	AN_PHS2	Hrs	4		441		441	15.0%	66
1	04	04	06			Final LDB Vac Cham & Integration Design Review	1-May-07	20-Jun-07	AN_MVE2	Hrs	8		881		881	15.0%	132
1	04	04	06			Final LDB Vac Cham & Integration Design Review	1-May-07	20-Jun-07	AN_MDD2	Hrs	8		517		517	15.0%	78
1	04	04	06			Bid Process LDB	1-May-07	25-May-07	AN_MVE2	Hrs	12		1,322		1,322	15.0%	198
1	04	04	06			Evaluate Bid LDB	29-May-07	30-May-07	AN_MVE2	Hrs	24		2,644		2,644	15.0%	397
1	04	04	06			AWARD: LDB Valve Spool	31-May-07	1-Jun-07	AN_AWARD	\$\$		23,000		24,962	24,962	15.0%	3,744
1	04	04	06			AWARD: LDB Chamber Weldment Assembly	31-May-07	1-Jun-07	AN_AWARD	\$\$		5,327		5,781	5,781	15.0%	867
1	04	04	06			LDB Valve Spool Award Effort	31-May-07	1-Jun-07	AN_MVE2	Hrs	8		881		881	15.0%	132
1	04	04	06			LDB Chamber Weldment Assembly Award Effort	31-May-07	1-Jun-07	AN_MVE2	Hrs	8		881		881	15.0%	132
1	04	04	06			LDB Ion Pump Sppt Award Effort	31-May-07	1-Jun-07	AN_MVE2	Hrs	8		881		881	15.0%	132
1	04	04	06			AWARD: LDB Chamber Support	31-May-07	1-Jun-07	AN_AWARD	\$\$		8,250		8,954	8,954	15.0%	1,343
1	04	04	06			LDB Chamber Support Award Effort	31-May-07	1-Jun-07	AN_MVE2	Hrs	8		881		881	15.0%	132
1	04	04	06			AWARD: LDB Ion Pump Support	31-May-07	1-Jun-07	AN_AWARD	\$\$		3,250		3,527	3,527	15.0%	529
1	04	04	06			LDB Ion Pump Support Award Effort	31-May-07	1-Jun-07	AN_MVE2	Hrs	8		881		881	15.0%	132
1	04	04	06			REC: LDB Valve Spool	4-Jun-07	30-Jul-07	AA_MSSC2	\$\$		23,000		23,529	23,529	15.0%	3,529
1	04	04	06			REC: LDB Chamber Weldment Assembly	4-Jun-07	30-Jul-07	AN_MVE2	Hrs	8		881		881	15.0%	132
1	04	04	06			REC: LDB Chamber Weldment Assembly	4-Jun-07	30-Jul-07	AN_MFAT2	Hrs	16		1,035		1,035	15.0%	155
1	04	04	06			REC: LDB Chamber Weldment Assembly	4-Jun-07	30-Jul-07	AA_MSSC2	\$\$		5,327		5,450	5,450	15.0%	817
1	04	04	06			REC: LDB Chamber Support (11)	4-Jun-07	30-Jul-07	AA_MSSC2	\$\$		8,250		8,440	8,440	15.0%	1,266
1	04	04	06			REC: LDB Ion Pump Support (11)	4-Jun-07	30-Jul-07	AA_MSSC2	\$\$		3,250		3,325	3,325	15.0%	499
1	04	04	06			QA Production Lot LDB	31-Jul-07	13-Aug-07	AN_MVE2	Hrs	8		881		881	15.0%	132
1	04	04	06			QA Production Lot LDB	31-Jul-07	13-Aug-07	AN_MFMS2	Hrs	24		2,440		2,440	15.0%	366
1	04	04	06			Approve Production Lot LDB	14-Aug-07	16-Aug-07	AN_MVE2	Hrs	8		881		881	15.0%	132
1	04	04	06			Clean LDB	17-Aug-07	28-Aug-07	AN_MVE2	Hrs	8		881		881	15.0%	132
1	04	04	06			Clean LDB	17-Aug-07	28-Aug-07	AN_MFAT2	Hrs	32		2,070		2,070	15.0%	310
1	04	04	06			Bake LDB	29-Aug-07	5-Sep-07	AN_MVE2	Hrs	8		881		881	15.0%	132
1	04	04	06			Bake LDB	29-Aug-07	5-Sep-07	AN_MFAT2	Hrs	32		2,070		2,070	15.0%	310
1	04	04	06			Prepare Long Diagnostic Break for Shipment	6-Sep-07	12-Sep-07	AN_MVE2	Hrs	8		881		881	15.0%	132
1	04	04	06			Prepare Long Diagnostic Break for Shipment	6-Sep-07	12-Sep-07	AN_MFAT2	Hrs	24		1,552		1,552	15.0%	233
1	04	04	06			Pack Long Diagnostic Break for Shipping	13-Sep-07	19-Sep-07	AN_MVE2	Hrs	8		881		881	15.0%	132
1	04	04	06			Pack Long Diagnostic Break for Shipping	13-Sep-07	19-Sep-07	AN_MFAT2	Hrs	24		1,552		1,552	15.0%	233
1	04	04	06			Ship to SLAC LDB	20-Sep-07	26-Sep-07	AN_MSEG2	\$\$		1,000		1,023	1,023	15.0%	153
1	04	04	06			Transmit Design and Drawings to SLAC	27-Sep-07	3-Oct-07	AN_ME2	Hrs	8		888		888	15.0%	133
1	04	04	06			Transmit Design and Drawings to SLAC	27-Sep-07	3-Oct-07	AN_MDD2	Hrs	16		1,043		1,043	15.0%	156
1	04	04	09			Baking System					216	81,700	22,367	83,579	105,946		21,189
1	04	04	09			Bid Package-Baking Station	1-May-07	3-May-07	AN_MVE2	Hrs	8		881		881	20.0%	176
1	04	04	09			Bid Package-Valves Baking Station	1-May-07	3-May-07	AN_MVE2	Hrs	8		881		881	20.0%	176
1	04	04	09			Bid Pkg: Vacuum Gauge Baking Station	1-May-07	3-May-07	AN_MVE2	Hrs	8		881		881	20.0%	176
1	04	04	09			Bid Pkg: RGA Baking Station	1-May-07	7-May-07	AN_MVE2	Hrs	16		1,763		1,763	20.0%	353

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont %	Contingency \$
Description						Hours					\$	Labor	M&S	Total			
1	2	3	4	5	6												
1	04	04	09			Bid Process Baking Station	8-May-07	21-Jun-07	AN_MVE2	Hrs	16		1,763		1,763	20.0%	353
1	04	04	09			Evaluate Bids: Baking Station	22-Jun-07	26-Jun-07	AN_MVE2	Hrs	24		2,644		2,644	20.0%	529
1	04	04	09			AWARD: Baking Station	27-Jun-07	29-Jun-07	AN_AWARD	\$\$		3,065		3,326	3,326	20.0%	665
1	04	04	09			Baking Station Award Effort	27-Jun-07	29-Jun-07	AN_MVE2	Hrs	8		881		881	20.0%	176
1	04	04	09			AWARD: Thermal Insulation	27-Jun-07	29-Jun-07	AN_AWARD	\$\$		535		581	581	20.0%	116
1	04	04	09			Thermal Insulation Award Effort	27-Jun-07	29-Jun-07	AN_MVE2	Hrs	8		881		881	20.0%	176
1	04	04	09			AWARD: Inspection System	27-Jun-07	29-Jun-07	AN_AWARD	\$\$		28,000		30,389	30,389	20.0%	6,078
1	04	04	09			AWARD: Valves	27-Jun-07	29-Jun-07	AN_AWARD	\$\$		6,200		6,729	6,729	20.0%	1,346
1	04	04	09			Valves Award Effort	27-Jun-07	29-Jun-07	AN_MVE2	Hrs	8		881		881	20.0%	176
1	04	04	09			AWARD: Vacuum Gauge	27-Jun-07	29-Jun-07	AN_AWARD	\$\$		17,900		19,427	19,427	20.0%	3,885
1	04	04	09			Vacuum Gauge Award Effort	27-Jun-07	29-Jun-07	AN_MVE2	Hrs	8		881		881	20.0%	176
1	04	04	09			AWARD: RGA	27-Jun-07	29-Jun-07	AN_AWARD	\$\$		26,000		28,218	28,218	20.0%	5,644
1	04	04	09			RGA Award Support	27-Jun-07	29-Jun-07	AN_MVE2	Hrs	8		881		881	20.0%	176
1	04	04	09			REC: Baking Components	2-Jul-07	23-Jul-07	AN_MVE2	Hrs	8		881		881	20.0%	176
1	04	04	09			REC: Baking Components	2-Jul-07	23-Jul-07	AN_MFAT2	Hrs	24		1,552		1,552	20.0%	310
1	04	04	09			REC: Baking Components	2-Jul-07	23-Jul-07	AA_MSEG2	\$\$		81,700		83,579	83,579	20.0%	16,716
1	04	04	09			QA of Baking Components	24-Jul-07	30-Jul-07	AN_MVE2	Hrs	24		2,644		2,644	20.0%	529
1	04	04	09			QA of Baking Components	24-Jul-07	30-Jul-07	AN_MFMS2	Hrs	40		4,067		4,067	20.0%	813
1	04	05				Diagnostics					5,124	1,468,325	482,266	1,518,742	2,001,008		400,956
1	04	05	05			RFBPM					1,643	936,810	151,532	966,949	1,118,481		223,696
1	04	05	05	01		X-Band Cavity BPM Development					238	3,300	24,978	3,376	28,354		5,671
1	04	05	05	01		Braze Three Bodies	1-May-07	25-May-07	AN_MSEG2	\$\$		3,300		3,376	3,376	20.0%	675
1	04	05	05	01		Braze Three Bodies	1-May-07	25-May-07	AN_MFMS2	Hrs	18		1,830		1,830	20.0%	366
1	04	05	05	01		Braze Three Bodies	1-May-07	25-May-07	AN_MFAT2	Hrs	4		259		259	20.0%	52
1	04	05	05	01		Braze Three Bodies	1-May-07	25-May-07	AN_ME2	Hrs	4		441		441	20.0%	88
1	04	05	05	01		Cold Test Three Brazed Bodies	29-May-07	4-Jun-07	AN_ME2	Hrs	12		1,322		1,322	20.0%	264
1	04	05	05	01		Cold Test Three Brazed Bodies	29-May-07	4-Jun-07	AN_EE2	Hrs	20		2,204		2,204	20.0%	441
1	04	05	05	01		Cold Test Three Brazed Bodies	29-May-07	4-Jun-07	AN_CT2	Hrs	20		1,294		1,294	20.0%	259
1	04	05	05	01		Linac Test Three Units	1-May-07	29-Jun-07	AN_PHS2	Hrs	40		4,407		4,407	20.0%	881
1	04	05	05	01		Linac Test Three Units	1-May-07	29-Jun-07	AN_EE2	Hrs	80		8,814		8,814	20.0%	1,763
1	04	05	05	01		Linac Test Three Units	1-May-07	29-Jun-07	AN_CE2	Hrs	40		4,407		4,407	20.0%	881
1	04	05	05	02		X-Band Receiver Development					49	2,450	3,943	2,506	6,449		1,290
1	04	05	05	02		Procure Prototype Down Converter and LO(3) ETC	1-May-07	30-May-07	AN_MSEG2	\$\$		2,450		2,506	2,506	20.0%	501
1	04	05	05	02		Procure Prototype Down Converter and LO(3) ETC	1-May-07	30-May-07	AN_EE2	Hrs	1		110		110	20.0%	22
1	04	05	05	02		Bench Test & Tune (3) DC and LO	1-May-07	30-May-07	AN_EE2	Hrs	16		1,763		1,763	20.0%	353
1	04	05	05	02		Bench Test & Tune (3) DC and LO	1-May-07	30-May-07	AN_CT2	Hrs	32		2,070		2,070	20.0%	414
1	04	05	05	03		X-Band BPM Production					1,356	931,060	122,611	961,066	1,083,678		216,736
1	04	05	05	03		RFBPM Preliminary Prod Design	1-May-07	11-Jun-07	AN_ME2	Hrs	6		661		661	20.0%	132
1	04	05	05	03		RFBPM Preliminary Prod Design	1-May-07	11-Jun-07	AN_MDD2	Hrs	16		1,035		1,035	20.0%	207
1	04	05	05	03		RFBPM Preliminary Prod Design	1-May-07	11-Jun-07	AN_EE2	Hrs	6		661		661	20.0%	132
1	04	05	05	03		RFBPM Prod Design Review	12-Jun-07	18-Jun-07	AN_PHS2	Hrs	16		1,763		1,763	20.0%	353
1	04	05	05	03		RFBPM Prod Design Review	12-Jun-07	18-Jun-07	AN_ME2	Hrs	16		1,763		1,763	20.0%	353
1	04	05	05	03		RFBPM Prod Design Review	12-Jun-07	18-Jun-07	AN_EE2	Hrs	16		1,763		1,763	20.0%	353
1	04	05	05	03		RFBPM Prod Final Design	19-Jun-07	2-Jul-07	AN_ME2	Hrs	32		3,526		3,526	20.0%	705
1	04	05	05	03		RFBPM Prod Final Design	19-Jun-07	2-Jul-07	AN_MDD2	Hrs	40		2,587		2,587	20.0%	517
1	04	05	05	03		RFBPM Prod Final Design	19-Jun-07	2-Jul-07	AN_EE2	Hrs	16		1,763		1,763	20.0%	353
1	04	05	05	03		LTU BPM Final Design	3-Jul-07	17-Jul-07	AN_ME2	Hrs	24		2,644		2,644	20.0%	529
1	04	05	05	03		LTU BPM Final Design	3-Jul-07	17-Jul-07	AN_MDD2	Hrs	40		2,587		2,587	20.0%	517
1	04	05	05	03		LTU BPM Final Design	3-Jul-07	17-Jul-07	AN_EE2	Hrs	24		2,644		2,644	20.0%	529
1	04	05	05	03		Waveguide Final Design	3-Jul-07	17-Jul-07	AN_ME2	Hrs	24		2,644		2,644	20.0%	529
1	04	05	05	03		Waveguide Final Design	3-Jul-07	17-Jul-07	AN_MDD2	Hrs	40		2,587		2,587	20.0%	517
1	04	05	05	03		Waveguide Final Design	3-Jul-07	17-Jul-07	AN_EE2	Hrs	24		2,644		2,644	20.0%	529
1	04	05	05	03		Prepare Bid of RF Cabling	18-Jul-07	19-Jul-07	AN_EE2	Hrs	16		1,763		1,763	20.0%	353
1	04	05	05	03		Prepare Bid Waveguide	18-Jul-07	24-Jul-07	AN_ME2	Hrs	8		881		881	20.0%	176
1	04	05	05	03		Prepare Bid Waveguide	18-Jul-07	24-Jul-07	AN_EE2	Hrs	8		881		881	20.0%	176
1	04	05	05	03		Prepare Bid Down Converter & LO	18-Jul-07	24-Jul-07	AN_ME2	Hrs	8		881		881	20.0%	176
1	04	05	05	03		Prepare Bid Down Converter & LO	18-Jul-07	24-Jul-07	AN_EE2	Hrs	8		881		881	20.0%	176
1	04	05	05	03		Prepare Bid of Copper Body Brazement	1-May-07	25-May-07	AN_ME2	Hrs	8		881		881	20.0%	176
1	04	05	05	03		Prepare Bid of Copper Body Brazement	1-May-07	25-May-07	AN_EE2	Hrs	8		881		881	20.0%	176
1	04	05	05	03		Prepare Bid of Support & Alignment Mechanism	18-Jul-07	31-Jul-07	AN_ME2	Hrs	16		1,763		1,763	20.0%	353
1	04	05	05	03		Bid Process - RFBPM	1-Aug-07	2-Aug-07	AN_ME2	Hrs	8		881		881	20.0%	176
1	04	05	05	03		Bid Process - RFBPM	1-Aug-07	2-Aug-07	AN_EE2	Hrs	8		881		881	20.0%	176
1	04	05	05	03		Evaluate Bids - RFBPM	3-Aug-07	7-Aug-07	AN_ME2	Hrs	8		881		881	20.0%	176
1	04	05	05	03		AWARD: Copper Body Brazement (35)	8-Aug-07	10-Aug-07	AN_AWARD	\$\$		285,600		309,966	309,966	20.0%	61,993
1	04	05	05	03		Copper Body Brazement (35) Award Effort	8-Aug-07	10-Aug-07	AN_ME2	Hrs	8		881		881	20.0%	176
1	04	05	05	03		Copper Body Brazement (35) Award Effort	8-Aug-07	10-Aug-07	AN_EE2	Hrs	8		881		881	20.0%	176
1	04	05	05	03		AWARD: LTU BPM Brazements (2)	8-Aug-07	10-Aug-07	AN_AWARD	\$\$		16,320		17,712	17,712	20.0%	3,542
1	04	05	05	03		REC: LTU BPM Brazements (2)	19-Sep-07	29-Nov-07	AN_ME2	Hrs	8		898		898	20.0%	180
1	04	05	05	03		REC: LTU BPM Brazements (2)	19-Sep-07	29-Nov-07	AN_EE2	Hrs	8		898		898	20.0%	180
1	04	05	05	03		REC: LTU BPM Brazements (2)	19-Sep-07	29-Nov-07	AA_MSEG2	\$\$		16,000		16,681	16,681	20.0%	3,336
1	04	05	05	03		REC: LTU BPM Supports (2)	13-Aug-07	17-Sep-07	AN_ME2	Hrs	4		441		441	20.0%	88
1	04	05	05	03		REC: LTU BPM Supports (2)	13-Aug-07	17-Sep-07	AN_EE2	Hrs	4		441		441	20.0%	88

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont %	Contingency \$
Description											Hours	\$	Labor	M&S	Total		
1	04	05	05	03	6	REC: LТУ BPM Supports (2)	13-Aug-07	17-Sep-07	AA_MSEG2	\$\$		5,000		5,115	5,115	20.0%	1,023
1	04	05	05	03		AWARD: Support & Alignment Mechanism (36)	8-Aug-07	10-Aug-07	AN_AWARD	\$\$	93,076			101,017	101,017	20.0%	20,203
1	04	05	05	03		Support & Alignment Mechanism (36) Award Effort	8-Aug-07	10-Aug-07	AN_ME2	Hrs	8		881		881	20.0%	176
1	04	05	05	03		REC: Undulator Down Converter (37)	13-Aug-07	15-Aug-07	AN_ME2	Hrs	8				881	20.0%	176
1	04	05	05	03		REC: Undulator Down Converter (37)	13-Aug-07	15-Aug-07	AN_EE2	Hrs	8		881		881	20.0%	176
1	04	05	05	03		REC: Undulator Down Converter (37)	13-Aug-07	15-Aug-07	AA_MSEG2	\$\$		295,260		302,051	302,051	20.0%	60,410
1	04	05	05	03		REC: Undulator Local Oscillator (37)	13-Aug-07	15-Aug-07	AN_ME2	Hrs	8		881		881	20.0%	176
1	04	05	05	03		REC: Undulator Local Oscillator (37)	13-Aug-07	15-Aug-07	AN_EE2	Hrs	8		881		881	20.0%	176
1	04	05	05	03		REC: Undulator Local Oscillator (37)	13-Aug-07	15-Aug-07	AA_MSEG2	\$\$		55,000		56,265	56,265	20.0%	11,253
1	04	05	05	03		AWARD: RF Cabling (36)	8-Aug-07	10-Aug-07	AN_AWARD	\$\$		54,346		58,983	58,983	20.0%	11,797
1	04	05	05	03		RF Cabling (37) Award Effort	8-Aug-07	10-Aug-07	AN_EE2	Hrs	8		881		881	20.0%	176
1	04	05	05	03		REC: 1st Art.Support & Alignment Mechanism	13-Aug-07	17-Sep-07	AN_ME2	Hrs	8		881		881	20.0%	176
1	04	05	05	03		REC: 1st Art.Support & Alignment Mechanism	13-Aug-07	17-Sep-07	AA_MSEG2	\$\$		2,500		2,558	2,558	20.0%	512
1	04	05	05	03		REC: Support & Alignment Mechanism (36)	13-Aug-07	22-Oct-07	AA_MSEG2	\$\$		90,000		92,705	92,705	20.0%	18,541
1	04	05	05	03		REC: RF Cabling (36)	13-Aug-07	22-Oct-07	AA_MSEG2	\$\$		54,000		55,623	55,623	20.0%	11,125
1	04	05	05	03		REC: 1st Article Copper Body Brazement	13-Aug-07	22-Oct-07	AN_ME2	Hrs	16		1,775		1,775	20.0%	355
1	04	05	05	03		REC: 1st Article Copper Body Brazement	13-Aug-07	22-Oct-07	AA_MSEG2	\$\$		8,000		8,240	8,240	20.0%	1,648
1	04	05	05	03		QA: LТУ & 1st Copper Body Brazement & Supports	30-Nov-07	3-Dec-07	AN_MFMS2	Hrs	16		1,664		1,664	20.0%	333
1	04	05	05	03		QA: LТУ & 1st Copper Body Brazement & Supports	30-Nov-07	3-Dec-07	AN_ME2	Hrs	8		902		902	20.0%	180
1	04	05	05	03		QA: LТУ & 1st Copper Body Brazement & Supports	30-Nov-07	3-Dec-07	AN_EE2	Hrs	4		451		451	20.0%	90
1	04	05	05	03		Cold Test 1st Article	4-Dec-07	6-Dec-07	AN_MFAT2	Hrs	16		1,059		1,059	20.0%	212
1	04	05	05	03		Cold Test 1st Article	4-Dec-07	6-Dec-07	AN_EE2	Hrs	8		902		902	20.0%	180
1	04	05	05	03		Approve: 1st Copper Body Brazement & Supports	7-Dec-07	10-Dec-07	AN_ME2	Hrs	8		902		902	20.0%	180
1	04	05	05	03		Approve: 1st Copper Body Brazement & Supports	7-Dec-07	10-Dec-07	AN_EE2	Hrs	4		451		451	20.0%	90
1	04	05	05	03		REC: Copper Body Brazement (34)	11-Dec-07	17-Mar-08	AN_ME2	Hrs	16		1,803		1,803	20.0%	361
1	04	05	05	03		REC: Copper Body Brazement (34)	11-Dec-07	17-Mar-08	AA_MSEG2	\$\$		272,000		284,656	284,656	20.0%	56,931
1	04	05	05	03		QA Production Lot	18-Jan-08	24-Mar-08	AN_MFMS2	Hrs	40		4,161		4,161	20.0%	832
1	04	05	05	03		QA Production Lot	18-Jan-08	24-Mar-08	AN_ME2	Hrs	16		1,803		1,803	20.0%	361
1	04	05	05	03		QA Production Lot	18-Jan-08	24-Mar-08	AN_EE2	Hrs	16		1,803		1,803	20.0%	361
1	04	05	05	03		QA Production Lot	18-Jan-08	24-Mar-08	AN_CT2	Hrs	16		1,059		1,059	20.0%	212
1	04	05	05	03		REC: LТУ BPMs (2) - Effort Support	13-Aug-07	22-Oct-07	AN_MFAT2	Hrs	4		261		261	20.0%	52
1	04	05	05	03		REC: LТУ BPMs (2) - Effort Support	13-Aug-07	22-Oct-07	AN_EE2	Hrs	4		444		444	20.0%	89
1	04	05	05	03		REC: Waveguide, Undulator & LТУ (37) - Effort	13-Aug-07	10-Oct-07	AN_MFAT2	Hrs	8		519		519	20.0%	104
1	04	05	05	03		REC: Waveguide, Undulator & LТУ (37) - Effort	13-Aug-07	10-Oct-07	AN_EE2	Hrs	8		885		885	20.0%	177
1	04	05	05	03		REC: Undulator Waveguide (35)	13-Aug-07	16-Oct-07	AA_MSEG2	\$\$		120,600		124,039	124,039	20.0%	24,808
1	04	05	05	03		Assemble/Test LТУ BPM	25-Jan-08	5-Feb-08	AN_MFAT2	Hrs	48		3,176		3,176	20.0%	635
1	04	05	05	03		Assemble/Test LТУ BPM	25-Jan-08	5-Feb-08	AN_EE2	Hrs	64		7,214		7,214	20.0%	1,443
1	04	05	05	03		Assemble/Test Undulator BPM	6-Feb-08	3-Apr-08	AN_MFAT2	Hrs	280		18,529		18,529	20.0%	3,706
1	04	05	05	03		Assemble/Test Undulator BPM	6-Feb-08	3-Apr-08	AN_EE2	Hrs	64		7,214		7,214	20.0%	1,443
1	04	05	05	03		Pack/Ship 1st Lot (11)Undulator RFBPM to SLAC	27-Feb-08	4-Mar-08	AN_MSEG2	\$\$		2,000		2,093	2,093	20.0%	419
1	04	05	05	03		Pack/Ship 1st Lot (11)Undulator RFBPM to SLAC	27-Feb-08	4-Mar-08	AN_MFAT2	Hrs	24		1,588		1,588	20.0%	318
1	04	05	05	03		Pack/Ship 1st Lot (11)Undulator RFBPM to SLAC	27-Feb-08	4-Mar-08	AN_ME2	Hrs	8		902		902	20.0%	180
1	04	05	05	03		Pack/Ship LТУ RFBPM to SLAC	6-Feb-08	12-Feb-08	AN_MFAT2	Hrs	24		1,588		1,588	20.0%	318
1	04	05	05	03		Pack/Ship LТУ RFBPM to SLAC	6-Feb-08	12-Feb-08	AN_ME2	Hrs	8		902		902	20.0%	180
1	04	05	05	03		Pack/Ship 2nd Lot(11)Undulator RFBPM to SLAC	19-Mar-08	25-Mar-08	AN_MSEG2	\$\$		2,000		2,093	2,093	20.0%	419
1	04	05	05	03		Pack/Ship 2nd Lot(11)Undulator RFBPM to SLAC	19-Mar-08	25-Mar-08	AN_MFAT2	Hrs	24		1,588		1,588	20.0%	318
1	04	05	05	03		Pack/Ship 2nd Lot(11)Undulator RFBPM to SLAC	19-Mar-08	25-Mar-08	AN_ME2	Hrs	8		902		902	20.0%	180
1	04	05	05	03		Pack/Ship 3rd Lot(12)Undulator RFBPM to SLAC	9-Apr-08	15-Apr-08	AN_MSEG2	\$\$		2,000		2,093	2,093	20.0%	419
1	04	05	05	03		Pack/Ship 3rd Lot(12)Undulator RFBPM to SLAC	9-Apr-08	15-Apr-08	AN_MFAT2	Hrs	24		1,588		1,588	20.0%	318
1	04	05	05	03		Pack/Ship 3rd Lot(12)Undulator RFBPM to SLAC	9-Apr-08	15-Apr-08	AN_ME2	Hrs	8		902		902	20.0%	180
1	04	05	05	03		Write Shipping Paper Work-RFBPM	13-Feb-08	14-Feb-08	AN_ME2	Hrs	8		902		902	20.0%	180
1	04	05	05	03		Transmit Engineering Data to SLAC-RFBPM	16-Apr-08	22-Apr-08	AN_ME2	Hrs	8		902		902	20.0%	180
1	04	05	05	03		Transmit Engineering Data to SLAC-RFBPM	16-Apr-08	22-Apr-08	AN_MDD2	Hrs	8		529		529	20.0%	106
1	04	05	05	03		AWARD: LТУ BPM Waveguide (2)	8-Aug-07	10-Aug-07	AN_AWARD	\$\$		6,700		7,272	7,272	20.0%	1,454
1	04	05	05	03		AWARD: LТУ BPM Supports (2)	8-Aug-07	10-Aug-07	AN_AWARD	\$\$		5,000		5,427	5,427	20.0%	1,085
1	04	05	05	03		REC: LТУ BPM Waveguide (2)	13-Aug-07	15-Aug-07	AA_MSEG2	\$\$		6,700		6,854	6,854	20.0%	1,371
1	04	05	05	03		AWARD: Undulator Waveguide (35)	8-Aug-07	10-Aug-07	AN_AWARD	\$\$		121,229		131,572	131,572	20.0%	26,314
1	04	05	05	03		AWARD: Undulator Down Converter (37)	8-Aug-07	10-Aug-07	AN_AWARD	\$\$		295,260		320,450	320,450	20.0%	64,090
1	04	05	05	03		AWARD: Undulator Local Oscillator (37)	8-Aug-07	10-Aug-07	AN_AWARD	\$\$		55,000		59,692	59,692	20.0%	11,938
1	04	05	06			Beam Finder Wire					2,468	329,515	243,118	340,201	583,319		87,498
1	04	05	06			REC: Beam Finder Wire Tooling	1-May-07	15-Jun-07	AN_MSEG2	\$\$		8,000		8,184	8,184	15.0%	1,228
1	04	05	06			REC: Beam Finder Wire Tooling	1-May-07	15-Jun-07	AN_ME2	Hrs	6		661		661	15.0%	99
1	04	05	06			REC: Machine Components (3)	1-May-07	29-Jun-07	AN_MSEG2	\$\$		22,985		23,514	23,514	15.0%	3,527
1	04	05	06			Inspect Components (3)	2-Jul-07	13-Jul-07	AN_MFAT2	Hrs	24		1,552		1,552	15.0%	233
1	04	05	06			Inspect Components (3)	2-Jul-07	13-Jul-07	AN_ME2	Hrs	24		2,644		2,644	15.0%	397
1	04	05	06			Weld Components (3)	16-Jul-07	31-Jul-07	AN_MFAT2	Hrs	40		2,587		2,587	15.0%	388
1	04	05	06			Weld Components (3)	16-Jul-07	31-Jul-07	AN_ME2	Hrs	24		2,644		2,644	15.0%	397
1	04	05	06			Clean Components (3)	1-Aug-07	6-Aug-07	AN_MFAT2	Hrs	16		1,035		1,035	15.0%	155
1	04	05	06			Clean Components (3)	1-Aug-07	6-Aug-07	AN_ME2	Hrs	8		881		881	15.0%	132
1	04	05	06			Bake Parts (3)	7-Aug-07	13-Aug-07	AN_MFAT2	Hrs	16		1,035		1,035	15.0%	155
1	04	05	06			Bake Parts (3)	7-Aug-07	13-Aug-07	AN_ME2	Hrs	16		1,763		1,763	15.0%	264
1	04	05	06			Leak Check (3)	14-Aug-07	27-Aug-07	AN_MFAT2	Hrs	20		1,294		1,294	15.0%	194

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline Description	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont %	Contingency \$	
1	2	3	4	5	6						Hours	\$	Labor	M&S	Total			
1	04	05	06								Leak Check (3)	14-Aug-07	27-Aug-07	AN_ME2	Hrs			16
1	04	05	06			Beam Finder Wire Production Effort	1-May-07	28-Nov-07	AN_MFAT2	Hrs	49		3,190		3,190	15.0%	478	
1	04	05	06			Beam Finder Wire Production Effort	1-May-07	28-Nov-07	AN_ME2	Hrs	73		8,094		8,094	15.0%	1,214	
1	04	05	06			Beam Finder Wire Production Effort	1-May-07	28-Nov-07	AN_ME2	Hrs	32		3,548		3,548	15.0%	532	
1	04	05	06			Beam Finder Wire Production Effort	1-May-07	28-Nov-07	AN_MDD2	Hrs	8		521		521	15.0%	78	
1	04	05	06			Assemble (3)	28-Aug-07	18-Sep-07	AN_MFAT2	Hrs	24		1,552		1,552	15.0%	233	
1	04	05	06			Assemble (3)	28-Aug-07	18-Sep-07	AN_ME2	Hrs	27		2,975		2,975	15.0%	446	
1	04	05	06			Test RGA (3)	19-Sep-07	9-Oct-07	AN_MFAT2	Hrs	24		1,567		1,567	15.0%	235	
1	04	05	06			Test RGA (3)	19-Sep-07	9-Oct-07	AN_ME2	Hrs	28		3,113		3,113	15.0%	467	
1	04	05	06			Ship First Lot of Chamber to SLAC (3)	10-Oct-07	17-Oct-07	AN_MSEG2	\$\$		1,020		1,067		1,067	15.0%	160
1	04	05	06			Ship First Lot of Chamber to SLAC (3)	10-Oct-07	17-Oct-07	AN_MFAT2	Hrs	4		265		265	15.0%	40	
1	04	05	06			Ship First Lot of Chamber to SLAC (3)	10-Oct-07	17-Oct-07	AN_ME2	Hrs	4		451		451	15.0%	68	
1	04	05	06			REC: Machine Components (10)	9-Jul-07	23-Aug-07	AN_MSEG2	\$\$		95,770		97,973		97,973	15.0%	14,696
1	04	05	06			Inspect Components (10)	24-Aug-07	7-Sep-07	AN_MFAT2	Hrs	16		1,035		1,035	15.0%	155	
1	04	05	06			Inspect Components (10)	24-Aug-07	7-Sep-07	AN_ME2	Hrs	27		2,975		2,975	15.0%	446	
1	04	05	06			Weld Components (10)	10-Sep-07	28-Sep-07	AN_MFAT2	Hrs	12		776		776	15.0%	116	
1	04	05	06			Weld Components (10)	10-Sep-07	28-Sep-07	AN_ME2	Hrs	20		2,204		2,204	15.0%	331	
1	04	05	06			Clean Components (10)	1-Oct-07	9-Oct-07	AN_MFAT2	Hrs	16		1,059		1,059	15.0%	159	
1	04	05	06			Clean Components (10)	1-Oct-07	9-Oct-07	AN_ME2	Hrs	4		451		451	15.0%	68	
1	04	05	06			Bake Parts (10)	10-Oct-07	16-Oct-07	AN_MFAT2	Hrs	8		529		529	15.0%	79	
1	04	05	06			Bake Parts (10)	10-Oct-07	16-Oct-07	AN_ME2	Hrs	12		1,353		1,353	15.0%	203	
1	04	05	06			Leak Check (10)	17-Oct-07	30-Oct-07	AN_MFAT2	Hrs	12		794		794	15.0%	119	
1	04	05	06			Leak Check (10)	17-Oct-07	30-Oct-07	AN_ME2	Hrs	16		1,803		1,803	15.0%	271	
1	04	05	06			Assemble (10)	31-Oct-07	20-Nov-07	AN_MFAT2	Hrs	24		1,588		1,588	15.0%	238	
1	04	05	06			Assemble (10)	31-Oct-07	20-Nov-07	AN_ME2	Hrs	32		3,607		3,607	15.0%	541	
1	04	05	06			Test RGA (10)	21-Nov-07	13-Dec-07	AN_MFAT2	Hrs	16		1,059		1,059	15.0%	159	
1	04	05	06			Test RGA (10)	21-Nov-07	13-Dec-07	AN_ME2	Hrs	16		1,803		1,803	15.0%	271	
1	04	05	06			Package for Shipment (10)	14-Dec-07	17-Dec-07	AN_MFAT2	Hrs	4		265		265	15.0%	40	
1	04	05	06			Package for Shipment (10)	14-Dec-07	17-Dec-07	AN_ME2	Hrs	4		451		451	15.0%	68	
1	04	05	06			Ship Second Lot of Chamber to SLAC (10)	18-Dec-07	3-Jan-08	AN_MSEG2	\$\$		3,400		3,558		3,558	15.0%	534
1	04	05	06			Ship Second Lot of Chamber to SLAC (10)	18-Dec-07	3-Jan-08	AN_MFAT2	Hrs	6		397		397	15.0%	60	
1	04	05	06			Ship Second Lot of Chamber to SLAC (10)	18-Dec-07	3-Jan-08	AN_ME2	Hrs	4		451		451	15.0%	68	
1	04	05	06			REC: Machine Components (10)	31-Aug-07	12-Oct-07	AN_MSEG2	\$\$		95,770		98,563		98,563	15.0%	14,784
1	04	05	06			Inspect Components (10)	15-Oct-07	19-Oct-07	AN_MFAT2	Hrs	12		794		794	15.0%	119	
1	04	05	06			Inspect Components (10)	15-Oct-07	19-Oct-07	AN_ME2	Hrs	24		2,705		2,705	15.0%	406	
1	04	05	06			Weld Components (10)	22-Oct-07	2-Nov-07	AN_MFAT2	Hrs	12		794		794	15.0%	119	
1	04	05	06			Weld Components (10)	22-Oct-07	2-Nov-07	AN_ME2	Hrs	8		902		902	15.0%	135	
1	04	05	06			Clean Components (10)	5-Nov-07	13-Nov-07	AN_MFAT2	Hrs	12		794		794	15.0%	119	
1	04	05	06			Clean Components (10)	5-Nov-07	13-Nov-07	AN_ME2	Hrs	8		902		902	15.0%	135	
1	04	05	06			Bake Parts (10)	14-Nov-07	20-Nov-07	AN_MFAT2	Hrs	8		529		529	15.0%	79	
1	04	05	06			Bake Parts (10)	14-Nov-07	20-Nov-07	AN_ME2	Hrs	8		902		902	15.0%	135	
1	04	05	06			Leak Check (10)	21-Nov-07	3-Dec-07	AN_MFAT2	Hrs	12		794		794	15.0%	119	
1	04	05	06			Leak Check (10)	21-Nov-07	3-Dec-07	AN_ME2	Hrs	8		902		902	15.0%	135	
1	04	05	06			Assemble (10)	4-Dec-07	17-Dec-07	AN_MFAT2	Hrs	24		1,588		1,588	15.0%	238	
1	04	05	06			Assemble (10)	4-Dec-07	17-Dec-07	AN_ME2	Hrs	16		1,803		1,803	15.0%	271	
1	04	05	06			Send Beam Finder Wire Documents to SLAC	7-Mar-08	13-Mar-08	AN_ME2	Hrs	8		902		902	15.0%	135	
1	04	05	06			Send Beam Finder Wire Documents to SLAC	7-Mar-08	13-Mar-08	AN_MDD2	Hrs	16		1,059		1,059	15.0%	159	
1	04	05	06			Test RGA (10)	18-Dec-07	8-Jan-08	AN_MFAT2	Hrs	12		794		794	15.0%	119	
1	04	05	06			Test RGA (10)	18-Dec-07	8-Jan-08	AN_ME2	Hrs	20		2,254		2,254	15.0%	338	
1	04	05	06			Package for Shipment (10)	9-Jan-08	10-Jan-08	AN_MFAT2	Hrs	4		265		265	15.0%	40	
1	04	05	06			Package for Shipment (10)	9-Jan-08	10-Jan-08	AN_ME2	Hrs	4		451		451	15.0%	68	
1	04	05	06			Ship Third Lot of Chamber to SLAC (10)	11-Jan-08	18-Jan-08	AN_MSEG2	\$\$		3,400		3,558		3,558	15.0%	534
1	04	05	06			Ship Third Lot of Chamber to SLAC (10)	11-Jan-08	18-Jan-08	AN_MFAT2	Hrs	4		265		265	15.0%	40	
1	04	05	06			Ship Third Lot of Chamber to SLAC (10)	11-Jan-08	18-Jan-08	AN_ME2	Hrs	4		451		451	15.0%	68	
1	04	05	06			REC: Machine Components (10)	22-Oct-07	4-Dec-07	AN_MSEG2	\$\$		95,770		100,226		100,226	15.0%	15,034
1	04	05	06			Inspect Components (10)	5-Dec-07	11-Dec-07	AN_MFAT2	Hrs	4		265		265	15.0%	40	
1	04	05	06			Inspect Components (10)	5-Dec-07	11-Dec-07	AN_ME2	Hrs	6		676		676	15.0%	101	
1	04	05	06			Weld Components (10)	12-Dec-07	3-Jan-08	AN_MFAT2	Hrs	8		529		529	15.0%	79	
1	04	05	06			Weld Components (10)	12-Dec-07	3-Jan-08	AN_ME2	Hrs	8		902		902	15.0%	135	
1	04	05	06			Clean Components (10)	4-Jan-08	11-Jan-08	AN_MFAT2	Hrs	12		794		794	15.0%	119	
1	04	05	06			Clean Components (10)	4-Jan-08	11-Jan-08	AN_ME2	Hrs	4		451		451	15.0%	68	
1	04	05	06			Bake Parts (10)	14-Jan-08	18-Jan-08	AN_MFAT2	Hrs	12		794		794	15.0%	119	
1	04	05	06			Bake Parts (10)	14-Jan-08	18-Jan-08	AN_ME2	Hrs	6		676		676	15.0%	101	
1	04	05	06			Leak Check (10)	21-Jan-08	29-Jan-08	AN_MFAT2	Hrs	14		926		926	15.0%	139	
1	04	05	06			Leak Check (10)	21-Jan-08	29-Jan-08	AN_ME2	Hrs	16		1,803		1,803	15.0%	271	
1	04	05	06			Assemble (10)	30-Jan-08	11-Feb-08	AN_MFAT2	Hrs	24		1,588		1,588	15.0%	238	
1	04	05	06			Assemble (10)	30-Jan-08	11-Feb-08	AN_ME2	Hrs	16		1,803		1,803	15.0%	271	
1	04	05	06			Test RGA (10)	12-Feb-08	25-Feb-08	AN_MFAT2	Hrs	16		1,059		1,059	15.0%	159	
1	04	05	06			Test RGA (10)	12-Feb-08	25-Feb-08	AN_ME2	Hrs	24		2,705		2,705	15.0%	406	
1	04	05	06			Package for Shipment (10)	26-Feb-08	27-Feb-08	AN_MFAT2	Hrs	4		265		265	15.0%	40	
1	04	05	06			Package for Shipment (10)	26-Feb-08	27-Feb-08	AN_ME2	Hrs	8		902		902	15.0%	135	
1	04	05	06			Ship Fourth Lot of Chamber to SLAC (10)	28-Feb-08	6-Mar-08	AN_MSEG2	\$\$		3,400		3,558		3,558	15.0%	534

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont %	Contingency \$	
Description											Hours	\$	Labor	M&S	Total			
1	04	05	06	5	6	Ship Fourth Lot of Chamber to SLAC (10)	28-Feb-08	6-Mar-08	AN_MFAT2	Hrs		4		265		265	15.0%	40
1	04	05	06			Ship Fourth Lot of Chamber to SLAC (10)	28-Feb-08	6-Mar-08	AN_ME2	Hrs		8		902		902	15.0%	135
1	04	05	06			Beam Finder Wire Production Effort (addl.)	1-May-07	28-Nov-07	AN_MFAT2	Hrs		44	2,864		2,864	15.0%	430	
1	04	05	06			Beam Finder Wire Production Effort (addl.)	1-May-07	28-Nov-07	AN_MES2	Hrs		38	4,213		4,213	15.0%	632	
1	04	05	06			Beam Finder Wire Production Effort (addl.)	1-May-07	28-Nov-07	AN_ME2	Hrs	1,151		127,617		127,617	15.0%	19,143	
1	04	05	06			Beam Finder Wire Production Effort (addl.)	1-May-07	28-Nov-07	AN_MDD2	Hrs	85		5,533		5,533	15.0%	830	
1	04	05	08			Beam Loss Monitoring					1,013	202,000	87,616	211,593	299,208		89,762	
1	04	05	08			Preliminary Design - Beam Loss Mon	1-May-07	29-May-07	AN_PHS2	Hrs	2		220		220	30.0%	66	
1	04	05	08			Preliminary Design - Beam Loss Mon	1-May-07	29-May-07	AN_ME2	Hrs	3		331		331	30.0%	99	
1	04	05	08			Preliminary Design - Beam Loss Mon	1-May-07	29-May-07	AN_MDD2	Hrs	3		194		194	30.0%	58	
1	04	05	08			Preliminary Design - Beam Loss Mon	1-May-07	29-May-07	AN_EE2	Hrs	3		331		331	30.0%	99	
1	04	05	08			Detail Design of System	1-May-07	27-Jul-07	AN_PHS2	Hrs	54		5,950		5,950	30.0%	1,785	
1	04	05	08			Detail Design of System	1-May-07	27-Jul-07	AN_MDD2	Hrs	86		5,563		5,563	30.0%	1,669	
1	04	05	08			Detail Design of System	1-May-07	27-Jul-07	AN_EE2	Hrs	108		11,899		11,899	30.0%	3,570	
1	04	05	08			Final Design Review	30-Jul-07	30-Jul-07	AN_MSEG2	\$\$		2,000		2,046		2,046	30.0%	614
1	04	05	08			Put Procurement Packages Together	31-Jul-07	20-Aug-07	AN_EE2	Hrs	113		12,450		12,450	30.0%	3,735	
1	04	05	08			AWARD: PMT (34)	4-Sep-07	4-Sep-07	AN_AWARD	\$\$		91,800		99,632		99,632	30.0%	29,890
1	04	05	08			AWARD: Cherenkov Fiber (34)	4-Sep-07	4-Sep-07	AN_AWARD	\$\$		51,000		55,351		55,351	30.0%	16,605
1	04	05	08			AWARD: Integrating Fiber (34)	4-Sep-07	4-Sep-07	AN_AWARD	\$\$		51,000		55,351		55,351	30.0%	16,605
1	04	05	08			REC: PMT Components Arrive (34)	17-Oct-07	17-Oct-07	AA_MSEG2	\$\$		90,000		94,188		94,188	30.0%	28,256
1	04	05	08			Inspect PMT Components	17-Nov-08	2-Dec-08	AN_MFAT2	Hrs	54		3,656		3,656	30.0%	1,097	
1	04	05	08			Inspect PMT Components	17-Nov-08	2-Dec-08	AN_EE2	Hrs	14		1,614		1,614	30.0%	484	
1	04	05	08			Assemble PMT Components	3-Dec-08	8-Jan-09	AN_MFAT2	Hrs	107		7,244		7,244	30.0%	2,173	
1	04	05	08			Assemble PMT Components	3-Dec-08	8-Jan-09	AN_EE2	Hrs	27		3,113		3,113	30.0%	934	
1	04	05	08			REC: Cerenkov Fiber Components Arrive (34)	17-Oct-07	17-Oct-07	AA_MSEG2	\$\$		50,000		52,326		52,326	30.0%	15,698
1	04	05	08			Inspect Cerenkov Fiber Components	17-Nov-08	2-Dec-08	AN_MFAT2	Hrs	54		3,656		3,656	30.0%	1,097	
1	04	05	08			Inspect Cerenkov Fiber Components	17-Nov-08	2-Dec-08	AN_EE2	Hrs	14		1,614		1,614	30.0%	484	
1	04	05	08			Assemble Cerenkov Fiber Components	3-Dec-08	8-Jan-09	AN_MFAT2	Hrs	107		7,244		7,244	30.0%	2,173	
1	04	05	08			Assemble Cerenkov Fiber Components	3-Dec-08	8-Jan-09	AN_EE2	Hrs	27		3,113		3,113	30.0%	934	
1	04	05	08			REC: Integrating Fiber Components Arrive (34)	17-Oct-07	17-Oct-07	AA_MSEG2	\$\$		50,000		52,326		52,326	30.0%	15,698
1	04	05	08			Inspect Integrating Fiber	17-Nov-08	2-Dec-08	AN_MFAT2	Hrs	54		3,656		3,656	30.0%	1,097	
1	04	05	08			Inspect Integrating Fiber	17-Nov-08	2-Dec-08	AN_EE2	Hrs	14		1,614		1,614	30.0%	484	
1	04	05	08			Assemble Integrating Fiber	3-Dec-08	8-Jan-09	AN_MFAT2	Hrs	107		7,244		7,244	30.0%	2,173	
1	04	05	08			Assemble Integrating Fiber	3-Dec-08	8-Jan-09	AN_EE2	Hrs	27		3,113		3,113	30.0%	934	
1	04	05	08			Ship to SLAC	9-Jan-09	29-Jan-09	AN_MSEG2	\$\$		10,000		10,706		10,706	30.0%	3,212
1	04	05	08			Ship to SLAC	9-Jan-09	29-Jan-09	AN_MFAT2	Hrs	5		338		338	30.0%	102	
1	04	05	08			Ship to SLAC	9-Jan-09	29-Jan-09	AN_EE2	Hrs	30		3,459		3,459	30.0%	1,038	
1	04	06	06			Undulator System Installation and Alignment					11,756	-	1,015,620	-	1,015,620		302,223	
1	04	06	06			2008 Undulator System Installation and Alignment					11,756	-	1,015,620	-	1,015,620		302,223	
1	04	06	06			Network & Monumentation- Undulator Hall & BD	5-Dec-07	18-Dec-07	SL_TMUO2	Hrs	80		6,475		6,475	25.0%	1,619	
1	04	06	06			Network & Monumentation- Undulator Hall & BD	5-Dec-07	18-Dec-07	SL_MES2	Hrs	1,960		160,522		160,522	25.0%	40,130	
1	04	06	06			Hole template layout - Undulator Hall & BD	19-Dec-07	2-Jan-08	SL_MES2	Hrs	80		6,552		6,552	25.0%	1,638	
1	04	06	06			Core drill holes: Und & Dump	3-Jan-08	31-Jan-08	SL_TMUI2	Hrs	192		14,858		14,858	25.0%	3,714	
1	04	06	06			Install, align & grout supports: Und Hall	1-Feb-08	14-Mar-08	SL_TMUI2	Hrs	416		33,670		33,670	25.0%	8,418	
1	04	06	06			Install, align & grout supports: Und Hall	1-Feb-08	14-Mar-08	SL_MFAT2	Hrs	352		27,239		27,239	25.0%	6,810	
1	04	06	06			Install, align & grout supports: Und Hall	1-Feb-08	14-Mar-08	SL_MES2	Hrs	424		37,273		37,273	25.0%	9,318	
1	04	06	06			Install, align & grout supports: Und Hall	1-Feb-08	14-Mar-08	SL_MES2	Hrs	600		49,139		49,139	25.0%	12,285	
1	04	06	06			Install Racks & cable plant Und (2.3 & 3.1)	28-Jan-08	19-May-08	SL_TMUE2	Hrs	1,200		117,531		117,531	25.0%	29,383	
1	04	06	06			Install Racks & cable plant Und (2.3 & 3.1)	28-Jan-08	19-May-08	SL_MFAT2	Hrs	272		23,911		23,911	25.0%	5,978	
1	04	06	06			Install Racks & cable plant Und (2.3 & 3.1)	28-Jan-08	19-May-08	SL_EE2	Hrs	80		7,607		7,607	25.0%	1,902	
1	04	06	06			Install Undulator Girders 1-10	30-May-08	12-Jun-08	SL_TMUI2	Hrs	80		6,191		6,191	35.0%	2,167	
1	04	06	06			Install Undulator Girders 1-10	30-May-08	12-Jun-08	SL_TMUI2	Hrs	160		12,950		12,950	35.0%	4,533	
1	04	06	06			Install Undulator Girders 1-10	30-May-08	12-Jun-08	SL_SEE2	Hrs	19		2,058		2,058	35.0%	720	
1	04	06	06			Install Undulator Girders 1-10	30-May-08	12-Jun-08	SL_MVE2	Hrs	24		2,600		2,600	35.0%	910	
1	04	06	06			Install Undulator Girders 1-10	30-May-08	12-Jun-08	SL_MFAT2	Hrs	197		17,318		17,318	35.0%	6,061	
1	04	06	06			Install Undulator Girders 1-10	30-May-08	12-Jun-08	SL_MES2	Hrs	296		24,242		24,242	35.0%	8,485	
1	04	06	06			Install Undulator Girders 1-10	30-May-08	12-Jun-08	SL_EE2	Hrs	10		951		951	35.0%	333	
1	04	06	06			Install Undulator Girders 1-10	30-May-08	12-Jun-08	AN_SEE2	Hrs	6		676		676	35.0%	237	
1	04	06	06			Install Undulator Girders 1-10	30-May-08	12-Jun-08	AN_MVE2	Hrs	6		676		676	35.0%	237	
1	04	06	06			Install Undulator Girders 11-20	14-Jul-08	23-Jul-08	SL_TMUI2	Hrs	80		6,191		6,191	35.0%	2,167	
1	04	06	06			Install Undulator Girders 11-20	14-Jul-08	23-Jul-08	SL_TMUI2	Hrs	160		12,950		12,950	35.0%	4,533	
1	04	06	06			Install Undulator Girders 11-20	14-Jul-08	23-Jul-08	SL_SEE2	Hrs	19		2,058		2,058	35.0%	720	
1	04	06	06			Install Undulator Girders 11-20	14-Jul-08	23-Jul-08	SL_MVE2	Hrs	24		2,600		2,600	35.0%	910	
1	04	06	06			Install Undulator Girders 11-20	14-Jul-08	23-Jul-08	SL_MFAT2	Hrs	197		17,318		17,318	35.0%	6,061	
1	04	06	06			Install Undulator Girders 11-20	14-Jul-08	23-Jul-08	SL_MES2	Hrs	296		24,242		24,242	35.0%	8,485	
1	04	06	06			Install Undulator Girders 11-20	14-Jul-08	23-Jul-08	SL_EE2	Hrs	10		951		951	35.0%	333	
1	04	06	06			Install Undulator Girders 11-20	14-Jul-08	23-Jul-08	AN_SEE2	Hrs	6		676		676	35.0%	237	
1	04	06	06			Install Undulator Girders 11-20	14-Jul-08	23-Jul-08	AN_MVE2	Hrs	6		676		676	35.0%	237	
1	04	06	06			Install Undulator Girders 21-30	25-Aug-08	4-Sep-08	SL_TMUI2	Hrs	80		6,191		6,191	35.0%	2,167	
1	04	06	06			Install Undulator Girders 21-30	25-Aug-08	4-Sep-08	SL_TMUI2	Hrs	160		12,950		12,950	35.0%	4,533	
1	04	06	06			Install Undulator Girders 21-30	25-Aug-08	4-Sep-08	SL_SEE2	Hrs	19		2,058		2,058	35.0%	720	
1	04	06	06			Install Undulator Girders 21-30	25-Aug-08	4-Sep-08	SL_MVE2	Hrs	24		2,600		2,600	35.0%	910	

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escldt Cost			Cont %	Contingency \$	
Description											Hours	\$	Labor	M&S	Total			
1	04	06	06	5	6	Install Undulator Girders 21-30	25-Aug-08	4-Sep-08	SL_MFAT2	Hrs	197		17,318		17,318	35.0%	6,061	
1	04	06	06			Install Undulator Girders 21-30	25-Aug-08	4-Sep-08	SL_MES2	Hrs	296		24,242		24,242	35.0%	8,485	
1	04	06	06			Install Undulator Girders 21-30	25-Aug-08	4-Sep-08	SL_EE2	Hrs	10		951		951	35.0%	333	
1	04	06	06			Install Undulator Girders 21-30	25-Aug-08	4-Sep-08	AN_SEE2	Hrs	6		676		676	35.0%	237	
1	04	06	06			Install Undulator Girders 21-30	25-Aug-08	4-Sep-08	AN_MVE2	Hrs	6		676		676	35.0%	237	
1	04	06	06			Install Undulator Girders 30-33	8-Sep-08	17-Sep-08	SL_TMUW2	Hrs	25		1,935		1,935	35.0%	677	
1	04	06	06			Install Undulator Girders 30-33	8-Sep-08	17-Sep-08	SL_TMUO2	Hrs	48		3,885		3,885	35.0%	1,360	
1	04	06	06			Install Undulator Girders 30-33	8-Sep-08	17-Sep-08	SL_SEE2	Hrs	6		650		650	35.0%	227	
1	04	06	06			Install Undulator Girders 30-33	8-Sep-08	17-Sep-08	SL_MVE2	Hrs	7		758		758	35.0%	265	
1	04	06	06			Install Undulator Girders 30-33	8-Sep-08	17-Sep-08	SL_MFAT2	Hrs	59		5,187		5,187	35.0%	1,815	
1	04	06	06			Install Undulator Girders 30-33	8-Sep-08	17-Sep-08	SL_MES2	Hrs	89		7,289		7,289	35.0%	2,551	
1	04	06	06			Install Undulator Girders 30-33	8-Sep-08	17-Sep-08	SL_EE2	Hrs	3		285		285	35.0%	100	
1	04	06	06			Install Undulator Girders 30-33	8-Sep-08	17-Sep-08	AN_SEE2	Hrs	2		225		225	35.0%	79	
1	04	06	06			Install Undulator Girders 30-33	8-Sep-08	17-Sep-08	AN_MVE2	Hrs	2		225		225	35.0%	79	
1	04	06	06			Install Undulators	18-Sep-08	15-Oct-08	SL_CT2	Hrs	264		16,862		16,862	25.0%	4,216	
1	04	06	06			Install Undulators	18-Sep-08	15-Oct-08	SL_CE2	Hrs	264		30,800		30,800	25.0%	7,700	
1	04	06	06			Checkout Undulator System	31-Oct-08	1-Dec-08	SL_SEE2	Hrs	60		6,648		6,648	35.0%	2,327	
1	04	06	06			Checkout Undulator System	31-Oct-08	1-Dec-08	SL_MFAT2	Hrs	280		25,180		25,180	35.0%	8,813	
1	04	06	06			Checkout Undulator System	31-Oct-08	1-Dec-08	SL_MES2	Hrs	1,088		91,156		91,156	35.0%	31,904	
1	04	06	06			Checkout Undulator System	31-Oct-08	1-Dec-08	SL_EE2	Hrs	360		35,018		35,018	35.0%	12,256	
1	04	06	06			Checkout Undulator System	31-Oct-08	1-Dec-08	SL_CT2	Hrs	592		38,226		38,226	35.0%	13,379	
1	04	06	06			Checkout Undulator System	31-Oct-08	1-Dec-08	SL_CE2	Hrs	312		36,799		36,799	35.0%	12,880	
1	04	06	06			Checkout Undulator System	31-Oct-08	1-Dec-08	AN_SEE2	Hrs	80		9,224		9,224	35.0%	3,229	
1	04	06	06			Checkout Undulator System	31-Oct-08	1-Dec-08	AN_MVE2	Hrs	13		1,499		1,499	35.0%	525	
1	04	06	06			Checkout Undulator System	31-Oct-08	1-Dec-08	AN_MDD2	Hrs	32		2,166		2,166	35.0%	758	
1	04	06	06			Checkout Undulator System	31-Oct-08	1-Dec-08	AN_CE2	Hrs	120		13,837		13,837	35.0%	4,843	
1	05					X-RAY TRANSPORT & DIAGNOSTICS SYSTEMS					46,100	6,111,195	7,523,930	7,061,140	14,585,070		3,080,983	
1	05	01				System Management & Integration					10,018	334,548	1,807,501	396,102	2,203,603		374,798	
1	05	01	01			Management					10,018	334,548	1,807,501	396,102	2,203,603		374,798	
1	05	01	01	01		XTOD Management - Technical					6,573	206,385	1,295,878	245,480	1,541,358		262,031	
1	05	01	01	01		Management & Oversight - FY07	1-May-07	28-Sep-07	LL_SEE2	Hrs	357		64,494		64,494	17.0%	10,964	
1	05	01	01	01		Management & Oversight - FY07	1-May-07	28-Sep-07	LL_PHSS2	Hrs	714		152,195		152,195	17.0%	25,873	
1	05	01	01	01		Management & Oversight - FY07	1-May-07	28-Sep-07	LL_MSTR2	\$\$		12,300		14,974		14,974	17.0%	2,546
1	05	01	01	01		Management & Oversight - FY07	1-May-07	28-Sep-07	LL_ME2	Hrs	714		128,988		128,988	17.0%	21,928	
1	05	01	01	01		Management & Oversight - Oct07 thru Oct08	1-Oct-07	31-Oct-08	LL_SEE2	Hrs	958		177,357		177,357	17.0%	30,151	
1	05	01	01	01		Management & Oversight - Oct07 thru Oct08	1-Oct-07	31-Oct-08	LL_PHSS2	Hrs	1,915		418,313		418,313	17.0%	71,113	
1	05	01	01	01		Management & Oversight - Oct07 thru Oct08	1-Oct-07	31-Oct-08	LL_MSTR2	\$\$		42,446		52,953		52,953	17.0%	9,002
1	05	01	01	01		Management & Oversight - Oct07 thru Oct08	1-Oct-07	31-Oct-08	LL_ME2	Hrs	1,915		354,530		354,530	17.0%	60,270	
1	05	01	01	01		Facility Usage Charge thru FY08	1-May-07	30-Sep-08	LL_MSEQ2	\$\$		94,891		109,498		109,498	17.0%	18,615
1	05	01	01	01		Facility Usage Charge FY09/FY10	1-Oct-08	31-May-10	LL_MSEQ2	\$\$		56,748		68,056		68,056	17.0%	11,569
1	05	01	01	02		LLNL Project Support					3,445	128,163	511,623	150,622	662,245		112,768	
1	05	01	01	02		Administrative/Database Support thru FY08	1-May-07	30-Sep-08	LL_ADMN2	Hrs	1,232		171,815		171,815	17.0%	29,209	
1	05	01	01	02		Teleconference/Comp thru FY08	1-May-07	30-Sep-08	LL_MSPS2	\$\$		12,873		14,855		14,855	17.0%	2,525
1	05	01	01	02		Project Support M&S thru FY08	1-May-07	30-Sep-08	LL_MSCS2	\$\$		25,747		29,710		29,710	17.0%	5,051
1	05	01	01	02		LLNL Support for EIR	1-May-07	29-Jun-07	LL_PHS2	Hrs	215		41,502		41,502	17.0%	7,055	
1	05	01	01	02		LLNL Support for EIR	1-May-07	29-Jun-07	LL_PHPD2	Hrs	10		-		-	17.0%	0	
1	05	01	01	02		LLNL Support for EIR	1-May-07	29-Jun-07	LL_MFAT2	Hrs	80		11,230		11,230	17.0%	1,909	
1	05	01	01	02		LLNL Support for EIR	1-May-07	29-Jun-07	LL_ME2	Hrs	170		30,712		30,712	17.0%	5,221	
1	05	01	01	02		LLNL Support for EIR	1-May-07	29-Jun-07	LL_MDD2	Hrs	80		13,259		13,259	17.0%	2,254	
1	05	01	01	02		LLNL Support for EIR	1-May-07	29-Jun-07	LL_EE2	Hrs	45		8,130		8,130	17.0%	1,382	
1	05	01	01	02		LLNL Support for EIR	1-May-07	29-Jun-07	LL_CP2	Hrs	40		7,759		7,759	17.0%	1,319	
1	05	01	01	02		LLNL Support for EIR	1-May-07	29-Jun-07	LL_ADMN2	Hrs	100		13,724		13,724	17.0%	2,333	
1	05	01	01	02		Administrative/Database Support FY09/FY10	1-Oct-08	31-May-10	LL_ADMN2	Hrs	1,473		213,494		213,494	17.0%	36,294	
1	05	01	01	02		Teleconference/Comp FY09/FY10	1-Oct-08	31-May-10	LL_MSPS2	\$\$		15,398		18,466		18,466	17.0%	3,139
1	05	01	01	02		Project Support M&S FY09/FY10	1-Oct-08	31-May-10	LL_MSCS2	\$\$		30,795		36,931		36,931	17.0%	6,278
1	05	01	01	02		Shipping Cost - Wall 1 & 2	20-Feb-08	26-Feb-08	LL_MSPS2	\$\$		1,600		1,859		1,859	22.0%	409
1	05	01	01	02		FEE/NEH Shipping M&S (LLNL to SLAC)	1-Apr-08	17-Nov-08	LL_MSPS2	\$\$		36,250		42,308		42,308	17.0%	7,192
1	05	01	01	02		TUN/FEH Shipping M&S (LLNL to SLAC)	27-Apr-09	20-Jul-09	LL_MSPS2	\$\$		3,900		4,635		4,635	17.0%	788
1	05	01	01	02		Shipping Cost - Shadow Wall	29-Jan-08	4-Feb-08	LL_MSPS2	\$\$		1,600		1,859		1,859	22.0%	409
1	05	02				Controls					3,354	850,000	571,309	966,966	1,538,274		261,507	
1	05	02	01			Controls - EPICS					3,354	850,000	571,309	966,966	1,538,274		261,507	
1	05	02	01			Add'l Manpower due to CR	1-May-07	31-May-10	SL_CP2	Hrs	500		42,635		42,635	17.0%	7,248	
1	05	02	01			Add'l Manpower due to CR	1-May-07	31-May-10	LL_EE2	Hrs	584		109,484		109,484	17.0%	18,612	
1	05	02	01			Add'l Manpower due to CR	1-May-07	31-May-10	LL_CE2	Hrs	823		154,290		154,290	17.0%	26,229	
1	05	02	01			AWARD: EPICS Tools (FEE & NEH)	12-Oct-07	12-Oct-07	LL_AWARD	\$\$		784,200		1,039,147		1,039,147	27.0%	280,570
1	05	02	01			EPICs Controls Design II - FY-06	1-May-07	27-Sep-07	LL_EE2	Hrs	600		108,394		108,394	17.0%	18,427	
1	05	02	01			Global - EPICS - FY-07	28-Sep-07	26-Sep-08	LL_CE2	Hrs	847		156,506		156,506	17.0%	26,606	
1	05	02	01			Vendor Fab/Ship - EPICS Tools (FEE & NEH)	15-Oct-07	9-Nov-07	LA_MSXX2	\$\$		210,000		219,771		219,771	17.0%	37,361
1	05	02	01			Vendor Fab/Ship - EPICS Tools (FEE & NEH)	15-Oct-07	9-Nov-07	LA_MSEG2	\$\$		500,000		580,824		580,824	17.0%	98,740
1	05	02	01			AWARD: EPICS Tools (TUN & FEH)	1-Oct-08	1-Oct-08	LL_AWARD	\$\$		162,400		220,792		220,792	27.0%	59,614
1	05	02	01			Vendor Fab/Ship - EPICS Tools (TUN & FEH)	2-Oct-08	29-Oct-08	LA_MSEG2	\$\$		140,000		166,371		166,371	17.0%	28,283
1	05	03				Mechanical & Vacuum Subsystem					6,486	1,448,417	1,081,124	1,704,554	2,785,678		547,089	

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early	Early	Res	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont	Contingency
						Description	Start	Finish	Code		Hours	\$	Labor	M&S	Total	%	\$
1	05	03	01	5	6	Vacuum Systems Engineering					1,552	45,327	237,263	52,483	289,745		49,257
1	05	03	01			Configuration Drawing Mgt	1-May-07	30-Sep-08	LL_MDD2	Hrs	696			117,222	117,222	17.0%	19,928
1	05	03	01			Material Mgt	1-May-07	30-Sep-08	LL_ADMN2	Hrs	696			97,064	97,064	17.0%	16,501
1	05	03	01			Mech/Vac Supplies	1-May-07	30-Sep-08	LL_MSCS2	\$\$					25,648	17.0%	4,360
1	05	03	01			Procure Valve Pressure Manifolds (11)	1-Oct-07	27-Nov-07	LL_MSPS2	\$\$		22,227			26,834	17.0%	4,562
1	05	03	01			Assemble/Test Valve Pressure Manifolds (11)	28-Nov-07	26-Dec-07	LL_MFAT2	Hrs	160			22,976	22,976	17.0%	3,906
1	05	03	02			Mech/Vac Front End					3,112	364,090	529,377	422,944	952,322		209,511
1	05	03	02			Prepare Physics Specification - FEE Mech/Vac	1-May-07	31-May-07	LL_ME2	Hrs	5			903	903	22.0%	199
1	05	03	02			PRD Review - FEE Mech/Vac	1-May-07	7-Jun-07	LL_PHS2	Hrs	5			965	965	22.0%	212
1	05	03	02			PRD Review - FEE Mech/Vac	1-May-07	7-Jun-07	LL_ME2	Hrs	5			903	903	22.0%	199
1	05	03	02			Conceptual Engr/Design - FEE Mech/Vac	24-May-07	7-Jun-07	LL_ME2	Hrs	14			2,529	2,529	22.0%	556
1	05	03	02			Conceptual Engr/Design - FEE Mech/Vac	24-May-07	7-Jun-07	LL_MDD2	Hrs	14			2,320	2,320	22.0%	510
1	05	03	02			Conceptual Engr/Design - FEE Mech/Vac	24-May-07	7-Jun-07	LL_EE2	Hrs	2			361	361	22.0%	79
1	05	03	02			Conceptual Design Review - FEE Mech/Vac	24-May-07	7-Jun-07	LL_ME2	Hrs	10			1,807	1,807	22.0%	397
1	05	03	02			Conceptual Design Review - FEE Mech/Vac	24-May-07	7-Jun-07	LL_MDD2	Hrs	10			1,657	1,657	22.0%	365
1	05	03	02			Prepare ESD - FEE Mech/Vac	8-Jun-07	6-Jul-07	LL_ME2	Hrs	16			2,890	2,890	22.0%	636
1	05	03	02			Preliminary Engineering/Design - FEE Mech/Vac	8-Jun-07	31-Jul-07	LL_ME2	Hrs	84			15,175	15,175	22.0%	3,339
1	05	03	02			Preliminary Engineering/Design - FEE Mech/Vac	8-Jun-07	31-Jul-07	LL_MDD2	Hrs	84			13,922	13,922	22.0%	3,063
1	05	03	02			Preliminary Engineering/Design - FEE Mech/Vac	8-Jun-07	31-Jul-07	LL_EE2	Hrs	17			3,071	3,071	22.0%	676
1	05	03	02			Preliminary Design Review - FEE Mech/Vac	1-Aug-07	14-Aug-07	LL_ME2	Hrs	40			7,226	7,226	22.0%	1,590
1	05	03	02			Preliminary Design Review - FEE Mech/Vac	1-Aug-07	14-Aug-07	LL_MDD2	Hrs	40			6,629	6,629	22.0%	1,458
1	05	03	02			Preliminary Design Review - FEE Mech/Vac	1-Aug-07	14-Aug-07	LL_EE2	Hrs	10			1,807	1,807	22.0%	397
1	05	03	02			Prepare documentation - FEE Mech/Vac	22-Jun-07	3-Aug-07	LL_ME2	Hrs	60			10,839	10,839	22.0%	2,385
1	05	03	02			Prepare documentation - FEE Mech/Vac	22-Jun-07	3-Aug-07	LL_EE2	Hrs	10			1,807	1,807	22.0%	397
1	05	03	02			Final Engineering/Design - FEE Mech/Vac	1-Aug-07	28-Aug-07	LL_ME2	Hrs	40			7,226	7,226	22.0%	1,590
1	05	03	02			Final Engineering/Design - FEE Mech/Vac	1-Aug-07	28-Aug-07	LL_MDD2	Hrs	120			19,888	19,888	22.0%	4,375
1	05	03	02			Final Engineering/Design - FEE Mech/Vac	1-Aug-07	28-Aug-07	LL_EE2	Hrs	10			1,807	1,807	22.0%	397
1	05	03	02			Final Design Review - FEE Mech/Vac	29-Aug-07	12-Sep-07	LL_ME2	Hrs	20			3,613	3,613	22.0%	795
1	05	03	02			Final Design Review - FEE Mech/Vac	29-Aug-07	12-Sep-07	LL_MDD2	Hrs	40			6,629	6,629	22.0%	1,458
1	05	03	02			Final Design Review - FEE Mech/Vac	29-Aug-07	12-Sep-07	LL_EE2	Hrs	20			3,613	3,613	22.0%	795
1	05	03	02			Bid Prep/RFP/Award - FEE Mech/Vac	29-Aug-07	25-Oct-07	LL_ME2	Hrs	33			6,019	6,019	22.0%	1,324
1	05	03	02			Bid Prep/RFP/Award - FEE Mech/Vac	29-Aug-07	25-Oct-07	LL_EE2	Hrs	10			1,824	1,824	22.0%	401
1	05	03	02			Bid Prep/RFP/Award - FEE Mech/Vac	29-Aug-07	25-Oct-07	LL_ADMN2	Hrs	33			4,573	4,573	22.0%	1,006
1	05	03	02			AWARD: FEE Mech/Vac	26-Oct-07	26-Oct-07	LL_AWARD	\$\$		337,440		447,143	447,143	22.0%	98,372
1	05	03	02			Fab/Deliver - FEE Mech/Vac	29-Oct-07	3-Mar-08	LL_ME2	Hrs	30			5,544	5,544	22.0%	1,220
1	05	03	02			Fab/Deliver - FEE Mech/Vac	29-Oct-07	3-Mar-08	LL_MDD2	Hrs	10			1,695	1,695	22.0%	373
1	05	03	02			Fab/Deliver - FEE Mech/Vac	29-Oct-07	3-Mar-08	LL_ADMN2	Hrs	20			2,808	2,808	22.0%	618
1	05	03	02			Fab/Deliver - FEE Mech/Vac	29-Oct-07	3-Mar-08	LA_MSEQ2	\$\$		296,000				22.0%	75,646
1	05	03	02			Test @ LLNL - FEE Mech/Vac	4-Mar-08	17-Mar-08	LL_MFAT2	Hrs	40			5,744	5,744	22.0%	1,264
1	05	03	02			Test @ LLNL - FEE Mech/Vac	4-Mar-08	17-Mar-08	LL_ME2	Hrs	20			3,696	3,696	22.0%	813
1	05	03	02			Readiness Review - FEE Mech/Vac	18-Mar-08	31-Mar-08	LL_MFAT2	Hrs	10			1,436	1,436	22.0%	316
1	05	03	02			Readiness Review - FEE Mech/Vac	18-Mar-08	31-Mar-08	LL_ME2	Hrs	40			7,392	7,392	22.0%	1,626
1	05	03	02			Ship to SLAC - FEE Mech/Vac	1-Apr-08	14-Apr-08	LL_MFAT2	Hrs	20			2,872	2,872	22.0%	632
1	05	03	02			Ship to SLAC - FEE Mech/Vac	1-Apr-08	14-Apr-08	LL_ME2	Hrs	4			739	739	22.0%	163
1	05	03	02			Ship to SLAC - FEE Mech/Vac	1-Apr-08	14-Apr-08	LL_ADMN2	Hrs	8			1,123	1,123	22.0%	247
1	05	03	02			Prepare ESD - Wall 1 & 2	1-May-07	30-May-07	LL_ME2	Hrs	108			19,511	19,511	22.0%	4,292
1	05	03	02			Prepare Safety Note - Wall 1 & 2	1-May-07	30-May-07	LL_ME2	Hrs	114			20,595	20,595	22.0%	4,531
1	05	03	02			Engineering/Design - Wall 1 & 2	1-May-07	30-May-07	LL_ME2	Hrs	72			13,007	13,007	22.0%	2,862
1	05	03	02			Engineering/Design - Wall 1 & 2	1-May-07	30-May-07	LL_MDD2	Hrs	144			23,866	23,866	22.0%	5,251
1	05	03	02			Final Design Review - Wall 1 & 2	31-May-07	6-Jun-07	LL_ME2	Hrs	40			7,226	7,226	22.0%	1,590
1	05	03	02			Final Design Review - Wall 1 & 2	31-May-07	6-Jun-07	LL_MDD2	Hrs	40			6,629	6,629	22.0%	1,458
1	05	03	02			Detailed Design - Wall 1 & 2	7-Jun-07	19-Jul-07	LL_ME2	Hrs	120			21,679	21,679	22.0%	4,769
1	05	03	02			Detailed Design - Wall 1 & 2	7-Jun-07	19-Jul-07	LL_MDD2	Hrs	240			39,777	39,777	22.0%	8,751
1	05	03	02			Bid Prep/RFP/Award - Wall 1 & 2	20-Jul-07	30-Aug-07	LL_ME2	Hrs	40			7,226	7,226	22.0%	1,590
1	05	03	02			Bid Prep/RFP/Award - Wall 1 & 2	20-Jul-07	30-Aug-07	LL_MDD2	Hrs	40			6,629	6,629	22.0%	1,458
1	05	03	02			Bid Prep/RFP/Award - Wall 1 & 2	20-Jul-07	30-Aug-07	LL_ADMN2	Hrs	40			5,489	5,489	22.0%	1,208
1	05	03	02			AWARD: Wall 1 & 2	1-Oct-07	1-Oct-07	LL_AWARD	\$\$		56,886		75,380	75,380	22.0%	16,584
1	05	03	02			Fab/Deliver - Wall 1 & 2	2-Oct-07	4-Feb-08	LL_ME2	Hrs	20			3,696	3,696	22.0%	813
1	05	03	02			Fab/Deliver - Wall 1 & 2	2-Oct-07	4-Feb-08	LL_ADMN2	Hrs	20			2,808	2,808	22.0%	618
1	05	03	02			Fab/Deliver - Wall 1 & 2	2-Oct-07	4-Feb-08	LA_MSEQ2	\$\$		49,900			57,966	22.0%	12,753
1	05	03	02			Assemble @ LLNL - Wall 1 & 2	5-Feb-08	11-Feb-08	LL_MFAT2	Hrs	32			4,595	4,595	22.0%	1,011
1	05	03	02			Assemble @ LLNL - Wall 1 & 2	5-Feb-08	11-Feb-08	LL_ME2	Hrs	8			1,478	1,478	22.0%	325
1	05	03	02			Readiness Review - Wall 1 & 2	12-Feb-08	19-Feb-08	LL_MFAT2	Hrs	16			2,298	2,298	22.0%	505
1	05	03	02			Readiness Review - Wall 1 & 2	12-Feb-08	19-Feb-08	LL_ME2	Hrs	40			7,392	7,392	22.0%	1,626
1	05	03	02			Ship to SLAC - Wall 1 & 2	20-Feb-08	26-Feb-08	LL_MFAT2	Hrs	40			5,744	5,744	22.0%	1,264
1	05	03	02			Ship to SLAC - Wall 1 & 2	20-Feb-08	26-Feb-08	LL_ME2	Hrs	4			739	739	22.0%	163
1	05	03	02			Ship to SLAC - Wall 1 & 2	20-Feb-08	26-Feb-08	LL_ADMN2	Hrs	8			1,123	1,123	22.0%	247
1	05	03	02			Concept/Prelim Engr/Design - Shadow Wall	1-May-07	29-May-07	LL_ME2	Hrs	80			14,452	14,452	22.0%	3,180
1	05	03	02			Concept/Prelim Engr/Design - Shadow Wall	1-May-07	29-May-07	LL_MDD2	Hrs	160			26,518	26,518	22.0%	5,834
1	05	03	02			Preliminary Design Review - Shadow Wall	30-May-07	5-Jun-07	LL_ME2	Hrs	40			7,226	7,226	22.0%	1,590
1	05	03	02			Preliminary Design Review - Shadow Wall	30-May-07	5-Jun-07	LL_MDD2	Hrs	40			6,629	6,629	22.0%	1,458
1	05	03	02			Prepare ESD - Shadow Wall	6-Jun-07	19-Jun-07	LL_ME2	Hrs	80			14,452	14,452	22.0%	3,180

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early	Early	Res	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escldt Cost			Cont	Contingency
						Description	Start	Finish	Code		Hours	\$	Labor	M&S	Total	%	\$
1	05	03	02	5	6	Prepare Safety Note - Shadow Wall	6-Jun-07	19-Jun-07	LL_ME2	Hrs	80		14,452		14,452	22.0%	3,180
1	05	03	02			Final Engineering/Design - Shadow Wall	6-Jun-07	19-Jun-07	LL_ME2	Hrs	40	7,226		7,226	22.0%	1,590	
1	05	03	02			Final Engineering/Design - Shadow Wall	6-Jun-07	19-Jun-07	LL_MDD2	Hrs	40	6,629		6,629	22.0%	1,458	
1	05	03	02			Final Design Review - Shadow Wall	20-Jun-07	26-Jun-07	LL_ME2	Hrs	40	7,226		7,226	22.0%	1,590	
1	05	03	02			Final Design Review - Shadow Wall	20-Jun-07	26-Jun-07	LL_MDD2	Hrs	40	6,629		6,629	22.0%	1,458	
1	05	03	02			Detailed Design - Shadow Wall	27-Jun-07	11-Jul-07	LL_ME2	Hrs	40	7,226		7,226	22.0%	1,590	
1	05	03	02			Detailed Design - Shadow Wall	27-Jun-07	11-Jul-07	LL_MDD2	Hrs	40	6,629		6,629	22.0%	1,458	
1	05	03	02			Bid Prep/RFP/Award - Shadow Wall	12-Jul-07	22-Aug-07	LL_ME2	Hrs	20	3,613		3,613	22.0%	795	
1	05	03	02			Bid Prep/RFP/Award - Shadow Wall	12-Jul-07	22-Aug-07	LL_MDD2	Hrs	20	3,315		3,315	22.0%	729	
1	05	03	02			Bid Prep/RFP/Award - Shadow Wall	12-Jul-07	22-Aug-07	LL_ADMN2	Hrs	40	5,489		5,489	22.0%	1,208	
1	05	03	02			AWARD: Shadow Wall	1-Oct-07	1-Oct-07	LL_AWARD	\$\$		20,737		27,479	22.0%	6,045	
1	05	03	02			Fab/Deliver - Shadow Wall	2-Oct-07	11-Jan-08	LL_ME2	Hrs	8	1,478		1,478	22.0%	325	
1	05	03	02			Fab/Deliver - Shadow Wall	2-Oct-07	11-Jan-08	LL_ADMN2	Hrs	16	2,246		2,246	22.0%	494	
1	05	03	02			Fab/Deliver - Shadow Wall	2-Oct-07	11-Jan-08	LA_MSEQ2	\$\$		18,190		21,130	22.0%	4,649	
1	05	03	02			Assemble @ LLNL - Shadow Wall	14-Jan-08	18-Jan-08	LL_MFAT2	Hrs	32	4,595		4,595	22.0%	1,011	
1	05	03	02			Assemble @ LLNL - Shadow Wall	14-Jan-08	18-Jan-08	LL_ME2	Hrs	8	1,478		1,478	22.0%	325	
1	05	03	02			Readiness Review - Shadow Wall	22-Jan-08	28-Jan-08	LL_MFAT2	Hrs	16	2,298		2,298	22.0%	505	
1	05	03	02			Readiness Review - Shadow Wall	22-Jan-08	28-Jan-08	LL_ME2	Hrs	40	7,392		7,392	22.0%	1,626	
1	05	03	02			Transport Labor to Ship to SLAC - Shadow Wall	29-Jan-08	4-Feb-08	LL_MFAT2	Hrs	40	5,744		5,744	22.0%	1,264	
1	05	03	02			Transport Labor to Ship to SLAC - Shadow Wall	29-Jan-08	4-Feb-08	LL_ME2	Hrs	4	739		739	22.0%	163	
1	05	03	02			Transport Labor to Ship to SLAC - Shadow Wall	29-Jan-08	4-Feb-08	LL_ADMN2	Hrs	8	1,123		1,123	22.0%	247	
1	05	03	03			Mech/Vac Near Hall					688	209,000	115,375	242,784	358,159		78,795
1	05	03	03	01		Mech/Vac Near Hall					688	209,000	115,375	242,784	358,159		78,795
1	05	03	03	01		Prepare Physics Specification - NEH Mech/Vac	1-May-07	30-May-07	LL_ME2	Hrs	3	542		542	22.0%	119	
1	05	03	03	01		PRD Review - NEH Mech/Vac	31-May-07	6-Jun-07	LL_ME2	Hrs	10	1,807		1,807	22.0%	397	
1	05	03	03	01		Conceptual Engr/Design - NEH Mech/Vac	15-May-07	6-Jun-07	LL_ME2	Hrs	16	2,890		2,890	22.0%	636	
1	05	03	03	01		Conceptual Engr/Design - NEH Mech/Vac	15-May-07	6-Jun-07	LL_MDD2	Hrs	16	2,652		2,652	22.0%	583	
1	05	03	03	01		Conceptual Design Review - NEH Mech/Vac	7-Jun-07	20-Jun-07	LL_ME2	Hrs	10	1,807		1,807	22.0%	397	
1	05	03	03	01		Conceptual Design Review - NEH Mech/Vac	7-Jun-07	20-Jun-07	LL_MDD2	Hrs	10	1,657		1,657	22.0%	365	
1	05	03	03	01		Prepare ESD - NEH Mech/Vac	21-Jun-07	19-Jul-07	LL_ME2	Hrs	16	2,890		2,890	22.0%	636	
1	05	03	03	01		Preliminary Engineering/Design - NEH Mech/Vac	1-May-07	29-Jun-07	LL_ME2	Hrs	31	5,600		5,600	22.0%	1,232	
1	05	03	03	01		Preliminary Engineering/Design - NEH Mech/Vac	1-May-07	29-Jun-07	LL_MDD2	Hrs	62	10,276		10,276	22.0%	2,261	
1	05	03	03	01		Preliminary Design Review - NEH Mech/Vac	2-Jul-07	16-Jul-07	LL_ME2	Hrs	20	3,613		3,613	22.0%	795	
1	05	03	03	01		Preliminary Design Review - NEH Mech/Vac	2-Jul-07	16-Jul-07	LL_MDD2	Hrs	20	3,315		3,315	22.0%	729	
1	05	03	03	01		Prepare documentation - NEH Mech/Vac	15-May-07	13-Jul-07	LL_ME2	Hrs	42	7,588		7,588	22.0%	1,669	
1	05	03	03	01		Prepare documentation - NEH Mech/Vac	15-May-07	13-Jul-07	LL_MDD2	Hrs	20	3,315		3,315	22.0%	729	
1	05	03	03	01		Final Engineering/Design - NEH Mech/Vac	2-Jul-07	13-Aug-07	LL_ME2	Hrs	30	5,420		5,420	22.0%	1,192	
1	05	03	03	01		Final Engineering/Design - NEH Mech/Vac	2-Jul-07	13-Aug-07	LL_MDD2	Hrs	60	9,944		9,944	22.0%	2,188	
1	05	03	03	01		Final Design Review - NEH Mech/Vac	14-Aug-07	27-Aug-07	LL_ME2	Hrs	20	3,613		3,613	22.0%	795	
1	05	03	03	01		Final Design Review - NEH Mech/Vac	14-Aug-07	27-Aug-07	LL_MDD2	Hrs	20	3,315		3,315	22.0%	729	
1	05	03	03	01		Bid Prep/RFP/Award - NEH Mech/Vac	14-Aug-07	10-Oct-07	LL_ME2	Hrs	16	2,901		2,901	22.0%	638	
1	05	03	03	01		Bid Prep/RFP/Award - NEH Mech/Vac	14-Aug-07	10-Oct-07	LL_MDD2	Hrs	16	2,661		2,661	22.0%	586	
1	05	03	03	01		Bid Prep/RFP/Award - NEH Mech/Vac	14-Aug-07	10-Oct-07	LL_ADMN2	Hrs	40	5,509		5,509	22.0%	1,212	
1	05	03	03	01		AWARD: NEH Mech/Vac	11-Oct-07	11-Oct-07	LL_AWARD	\$\$		238,260		315,719	22.0%	69,458	
1	05	03	03	01		Fab/Deliver - NEH Mech/Vac	12-Oct-07	3-Mar-08	LL_ME2	Hrs	34	6,284		6,284	22.0%	1,382	
1	05	03	03	01		Fab/Deliver - NEH Mech/Vac	12-Oct-07	3-Mar-08	LL_ADMN2	Hrs	34	4,773		4,773	22.0%	1,050	
1	05	03	03	01		Fab/Deliver - NEH Mech/Vac	12-Oct-07	3-Mar-08	LA_MSEQ2	\$\$		209,000		242,784	22.0%	53,413	
1	05	03	03	01		Test @ LLNL - NEH Mech/Vac	4-Mar-08	17-Mar-08	LL_MFAT2	Hrs	40	5,744		5,744	22.0%	1,264	
1	05	03	03	01		Test @ LLNL - NEH Mech/Vac	4-Mar-08	17-Mar-08	LL_ME2	Hrs	20	3,696		3,696	22.0%	813	
1	05	03	03	01		Readiness Review - NEH Mech/Vac	18-Mar-08	31-Mar-08	LL_MFAT2	Hrs	10	1,436		1,436	22.0%	316	
1	05	03	03	01		Readiness Review - NEH Mech/Vac	18-Mar-08	31-Mar-08	LL_ME2	Hrs	40	7,392		7,392	22.0%	1,626	
1	05	03	03	01		Ship to SLAC - NEH Mech/Vac	1-Apr-08	14-Apr-08	LL_MFAT2	Hrs	20	2,872		2,872	22.0%	632	
1	05	03	03	01		Ship to SLAC - NEH Mech/Vac	1-Apr-08	14-Apr-08	LL_ME2	Hrs	4	739		739	22.0%	163	
1	05	03	03	01		Ship to SLAC - NEH Mech/Vac	1-Apr-08	14-Apr-08	LL_ADMN2	Hrs	8	1,123		1,123	22.0%	247	
1	05	03	04			Mech/Vac Tunnel					749	750,000	134,181	891,274	1,025,454		174,327
1	05	03	04			Prepare acceptance test plan/proced - Tunnel Mec	1-Oct-08	11-Dec-08	LL_ME2	Hrs	100	18,906		18,906	17.0%	3,214	
1	05	03	04			Prepare acceptance test plan/proced - Tunnel Mec	1-Oct-08	11-Dec-08	LL_EE2	Hrs	100	18,906		18,906	17.0%	3,214	
1	05	03	04			Prepare oper/maint proced - Tunnel Mech/Vac	1-Oct-08	11-Dec-08	LL_ME2	Hrs	100	18,906		18,906	17.0%	3,214	
1	05	03	04			Prepare oper/maint proced - Tunnel Mech/Vac	1-Oct-08	11-Dec-08	LL_EE2	Hrs	100	18,906		18,906	17.0%	3,214	
1	05	03	04			Bid Prep/RFP/Award - Tunnel Mech/Vac	1-May-07	1-Oct-08	LL_ME2	Hrs	24	4,406		4,406	17.0%	749	
1	05	03	04			Bid Prep/RFP/Award - Tunnel Mech/Vac	1-May-07	1-Oct-08	LL_MDD2	Hrs	13	2,190		2,190	17.0%	372	
1	05	03	04			Bid Prep/RFP/Award - Tunnel Mech/Vac	1-May-07	1-Oct-08	LL_EE2	Hrs	24	4,406		4,406	17.0%	749	
1	05	03	04			Bid Prep/RFP/Award - Tunnel Mech/Vac	1-May-07	1-Oct-08	LL_ADMN2	Hrs	66	9,204		9,204	17.0%	1,565	
1	05	03	04			AWARD: Tunnel Mech/Vac	2-Oct-08	2-Oct-08	LL_AWARD	\$\$		870,000		1,182,815	17.0%	201,079	
1	05	03	04			Fab/Deliver - Tunnel Mech/Vac	3-Oct-08	11-Jun-09	LL_ME2	Hrs	40	7,562		7,562	17.0%	1,286	
1	05	03	04			Fab/Deliver - Tunnel Mech/Vac	3-Oct-08	11-Jun-09	LL_ADMN2	Hrs	40	5,745		5,745	17.0%	977	
1	05	03	04			Fab/Deliver - Tunnel Mech/Vac	3-Oct-08	11-Jun-09	LA_MSEQ2	\$\$		750,000		891,274	17.0%	151,517	
1	05	03	04			Readiness Review - Tunnel Mech/Vac	26-Mar-09	8-Apr-09	LL_MFAT2	Hrs	10	1,469		1,469	17.0%	250	
1	05	03	04			Readiness Review - Tunnel Mech/Vac	26-Mar-09	8-Apr-09	LL_ME2	Hrs	40	7,562		7,562	17.0%	1,286	
1	05	03	04			Readiness Review - Tunnel Mech/Vac	26-Mar-09	8-Apr-09	LL_MDD2	Hrs	10	1,734		1,734	17.0%	295	
1	05	03	04			Readiness Review - Tunnel Mech/Vac	26-Mar-09	8-Apr-09	LL_EE2	Hrs	40	7,562		7,562	17.0%	1,286	
1	05	03	04			Ship to SLAC - Tunnel Mech/Vac	27-Apr-09	11-Jun-09	LL_MFAT2	Hrs	14	2,057		2,057	17.0%	350	

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont %	Contingency \$	
Description											Hours	\$	Labor	M&S	Total			
1	05	03	04	5	6	Ship to SLAC - Tunnel Mech/Vac	27-Apr-09	11-Jun-09	LL_ME2	Hrs	14			2,647		2,647	17.0%	450
1	05	03	04			Ship to SLAC - Tunnel Mech/Vac	27-Apr-09	11-Jun-09	LL_ADMN2	Hrs	14			2,011		2,011	17.0%	342
1	05	03	05			Mech/Vac Far Hall					385	80,000	64,928	95,069	159,997		35,199	
1	05	03	05			Prepare Physics Specification - FEH Mech/Vac	1-May-07	31-May-07	LL_ME2	Hrs	3			542		542	22.0%	119
1	05	03	05			PRD Review - FEH Mech/Vac	1-Jun-07	7-Jun-07	LL_ME2	Hrs	10			1,807		1,807	22.0%	397
1	05	03	05			Conceptual Engr/Design - FEH Mech/Vac	1-May-07	31-May-07	LL_ME2	Hrs	4			723		723	22.0%	159
1	05	03	05			Conceptual Engr/Design - FEH Mech/Vac	1-May-07	31-May-07	LL_MDD2	Hrs	8			1,326		1,326	22.0%	292
1	05	03	05			Conceptual Design Review - FEH Mech/Vac	1-Jun-07	14-Jun-07	LL_ME2	Hrs	10			1,807		1,807	22.0%	397
1	05	03	05			Conceptual Design Review - FEH Mech/Vac	1-Jun-07	14-Jun-07	LL_MDD2	Hrs	20			3,315		3,315	22.0%	729
1	05	03	05			Prepare ESD - FEH Mech/Vac	15-Jun-07	13-Jul-07	LL_ME2	Hrs	16			2,890		2,890	22.0%	636
1	05	03	05			Preliminary Engineering/Design - FEH Mech/Vac	1-May-07	29-Jun-07	LL_ME2	Hrs	4			723		723	22.0%	159
1	05	03	05			Preliminary Engineering/Design - FEH Mech/Vac	1-May-07	29-Jun-07	LL_MDD2	Hrs	8			1,326		1,326	22.0%	292
1	05	03	05			Preliminary Design Review - FEH Mech/Vac	2-Jul-07	16-Jul-07	LL_ME2	Hrs	10			1,807		1,807	22.0%	397
1	05	03	05			Preliminary Design Review - FEH Mech/Vac	2-Jul-07	16-Jul-07	LL_MDD2	Hrs	20			3,315		3,315	22.0%	729
1	05	03	05			Prepare documentation - FEH Mech/Vac	15-May-07	13-Jul-07	LL_ME2	Hrs	20			3,613		3,613	22.0%	795
1	05	03	05			Prepare documentation - FEH Mech/Vac	15-May-07	13-Jul-07	LL_MDD2	Hrs	20			3,315		3,315	22.0%	729
1	05	03	05			Final Engineering/Design - FEH Mech/Vac	2-Jul-07	13-Aug-07	LL_ME2	Hrs	30			5,420		5,420	22.0%	1,192
1	05	03	05			Final Engineering/Design - FEH Mech/Vac	2-Jul-07	13-Aug-07	LL_MDD2	Hrs	60			9,944		9,944	22.0%	2,188
1	05	03	05			Final Design Review - FEH Mech/Vac	14-Aug-07	27-Aug-07	LL_ME2	Hrs	10			1,807		1,807	22.0%	397
1	05	03	05			Final Design Review - FEH Mech/Vac	14-Aug-07	27-Aug-07	LL_MDD2	Hrs	10			1,657		1,657	22.0%	365
1	05	03	05			Bid Prep/RFP/Award - FEH Mech/Vac	4-Aug-08	30-Sep-08	LL_ME2	Hrs	10			1,848		1,848	22.0%	407
1	05	03	05			Bid Prep/RFP/Award - FEH Mech/Vac	4-Aug-08	30-Sep-08	LL_MDD2	Hrs	10			1,695		1,695	22.0%	373
1	05	03	05			Bid Prep/RFP/Award - FEH Mech/Vac	4-Aug-08	30-Sep-08	LL_ADMN2	Hrs	15			2,106		2,106	22.0%	463
1	05	03	05			AWARD: FEH Mech/Vac	1-Oct-08	1-Oct-08	LL_AWARD	\$\$		92,800			126,167	126,167	22.0%	27,757
1	05	03	05			Fab/Deliver - FEH Mech/Vac	2-Oct-08	13-Feb-09	LL_ME2	Hrs	10			1,891		1,891	22.0%	416
1	05	03	05			Fab/Deliver - FEH Mech/Vac	2-Oct-08	13-Feb-09	LL_ADMN2	Hrs	10			1,436		1,436	22.0%	316
1	05	03	05			Fab/Deliver - FEH Mech/Vac	2-Oct-08	13-Feb-09	LA_MSEQ2	\$\$		80,000			95,069	95,069	22.0%	20,915
1	05	03	05			Test @ LLNL - FEH Mech/Vac	16-Feb-09	27-Feb-09	LL_MFAT2	Hrs	20			2,938		2,938	22.0%	646
1	05	03	05			Test @ LLNL - FEH Mech/Vac	16-Feb-09	27-Feb-09	LL_ME2	Hrs	5			945		945	22.0%	208
1	05	03	05			Readiness Review - FEH Mech/Vac	2-Mar-09	13-Mar-09	LL_MFAT2	Hrs	10			1,469		1,469	22.0%	323
1	05	03	05			Readiness Review - FEH Mech/Vac	2-Mar-09	13-Mar-09	LL_ME2	Hrs	10			1,891		1,891	22.0%	416
1	05	03	05			Ship to SLAC - FEH Mech/Vac	16-Mar-09	27-Mar-09	LL_MFAT2	Hrs	10			1,469		1,469	22.0%	323
1	05	03	05			Ship to SLAC - FEH Mech/Vac	16-Mar-09	27-Mar-09	LL_ME2	Hrs	4			756		756	22.0%	166
1	05	03	05			Ship to SLAC - FEH Mech/Vac	16-Mar-09	27-Mar-09	LL_ADMN2	Hrs	8			1,149		1,149	22.0%	253
1	05	04				Optical Subsystem					6,790	2,545,000	1,178,901	2,914,530	4,093,430		1,008,923	
1	05	04	02			Facility Optics					6,790	2,545,000	1,178,901	2,914,530	4,093,430		1,008,923	
1	05	04	02	01		Fast Valve					382	25,000	62,712	28,994	91,705		15,590	
1	05	04	02	01		Preliminary Engineering/Design - Fast Valve	1-May-07	29-Jun-07	LL_ME2	Hrs	1			181		181	17.0%	31
1	05	04	02	01		Preliminary Engineering/Design - Fast Valve	1-May-07	29-Jun-07	LL_MDD2	Hrs	2			331		331	17.0%	56
1	05	04	02	01		Preliminary Design Review - Fast Valve	2-Jul-07	16-Jul-07	LL_ME2	Hrs	15			2,710		2,710	17.0%	461
1	05	04	02	01		Preliminary Design Review - Fast Valve	2-Jul-07	16-Jul-07	LL_MDD2	Hrs	20			3,315		3,315	17.0%	564
1	05	04	02	01		Final Engineering/Design - Fast Valve	2-Jul-07	13-Aug-07	LL_ME2	Hrs	24			4,336		4,336	17.0%	737
1	05	04	02	01		Final Engineering/Design - Fast Valve	2-Jul-07	13-Aug-07	LL_MDD2	Hrs	80			13,259		13,259	17.0%	2,254
1	05	04	02	01		Prepare seismic note - Fast Valve	2-Jul-07	30-Jul-07	LL_ME2	Hrs	20			3,613		3,613	17.0%	614
1	05	04	02	01		Prepare acceptance test plan/proced - Fast Valve	2-Jul-07	16-Jul-07	LL_ME2	Hrs	10			1,807		1,807	17.0%	307
1	05	04	02	01		Prepare oper/maint proced - Fast Valve	2-Jul-07	16-Jul-07	LL_ME2	Hrs	10			1,807		1,807	17.0%	307
1	05	04	02	01		Final Design Review - Fast Valve	14-Aug-07	27-Aug-07	LL_ME2	Hrs	8			1,445		1,445	17.0%	246
1	05	04	02	01		Final Design Review - Fast Valve	14-Aug-07	27-Aug-07	LL_MDD2	Hrs	20			3,315		3,315	17.0%	564
1	05	04	02	01		Bid Prep/RFP/Award - Fast Valve	28-Aug-07	25-Sep-07	LL_ME2	Hrs	8			1,445		1,445	17.0%	246
1	05	04	02	01		Bid Prep/RFP/Award - Fast Valve	28-Aug-07	25-Sep-07	LL_MDD2	Hrs	8			1,326		1,326	17.0%	225
1	05	04	02	01		Bid Prep/RFP/Award - Fast Valve	28-Aug-07	25-Sep-07	LL_ADMN2	Hrs	16			2,196		2,196	17.0%	373
1	05	04	02	01		AWARD: Fast Valve	26-Sep-07	26-Sep-07	LL_AWARD	\$\$		28,463			36,761	36,761	17.0%	6,249
1	05	04	02	01		Fab/Deliver - Fast Valve	27-Sep-07	21-Nov-07	LL_MDD2	Hrs	8			1,354		1,354	17.0%	230
1	05	04	02	01		Fab/Deliver - Fast Valve	27-Sep-07	21-Nov-07	LL_ADMN2	Hrs	16			2,243		2,243	17.0%	381
1	05	04	02	01		Fab/Deliver - Fast Valve	27-Sep-07	21-Nov-07	LA_MSEQ2	\$\$		25,000			28,994	28,994	17.0%	4,929
1	05	04	02	01		Testing @ LLNL - Fast Valve	26-Nov-07	8-Jan-08	LL_MFAT2	Hrs	40			5,744		5,744	17.0%	976
1	05	04	02	01		Testing @ LLNL - Fast Valve	26-Nov-07	8-Jan-08	LL_MDD2	Hrs	20			3,391		3,391	17.0%	576
1	05	04	02	01		Readiness Review - Fast Valve	9-Jan-08	23-Jan-08	LL_ME2	Hrs	10			1,848		1,848	17.0%	314
1	05	04	02	01		Readiness Review - Fast Valve	9-Jan-08	23-Jan-08	LL_MDD2	Hrs	10			1,695		1,695	17.0%	288
1	05	04	02	01		Ship to SLAC - Fast Valve	24-Jan-08	6-Feb-08	LL_MFAT2	Hrs	20			2,872		2,872	17.0%	488
1	05	04	02	01		Ship to SLAC - Fast Valve	24-Jan-08	6-Feb-08	LL_MDD2	Hrs	8			1,356		1,356	17.0%	231
1	05	04	02	01		Ship to SLAC - Fast Valve	24-Jan-08	6-Feb-08	LL_ADMN2	Hrs	8			1,123		1,123	17.0%	191
1	05	04	02	02		Fixed Mask					192	32,000	30,435	36,352	66,787		11,354	
1	05	04	02	02		Bid Prep/RFP/Award - Fixed Mask	1-May-07	8-Jun-07	LL_ME2	Hrs	1			181		181	17.0%	31
1	05	04	02	02		Bid Prep/RFP/Award - Fixed Mask	1-May-07	8-Jun-07	LL_MDD2	Hrs	1			166		166	17.0%	28
1	05	04	02	02		Bid Prep/RFP/Award - Fixed Mask	1-May-07	8-Jun-07	LL_ADMN2	Hrs	2			274		274	17.0%	47
1	05	04	02	02		AWARD: Fixed Mask	11-Jun-07	11-Jun-07	LL_AWARD	\$\$		35,556			45,921	45,921	17.0%	7,807
1	05	04	02	02		Fab/Deliver - Fixed Mask	12-Jun-07	3-Oct-07	LL_MDD2	Hrs	16			2,653		2,653	17.0%	451
1	05	04	02	02		Fab/Deliver - Fixed Mask	12-Jun-07	3-Oct-07	LL_ADMN2	Hrs	16			2,197		2,197	17.0%	373
1	05	04	02	02		Fab/Deliver - Fixed Mask	12-Jun-07	3-Oct-07	LA_MSEQ2	\$\$		32,000			36,352	36,352	17.0%	6,180
1	05	04	02	02		Testing @ LLNL - Fixed Mask	4-Oct-07	31-Oct-07	LL_MFAT2	Hrs	40			5,744		5,744	17.0%	976
1	05	04	02	02		Testing @ LLNL - Fixed Mask	4-Oct-07	31-Oct-07	LL_MDD2	Hrs	40			6,782		6,782	17.0%	1,153

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont %	Contingency \$
Description										Hours	\$	Labor	M&S	Total			
1	05	04	02	02	6	Readiness Review - Fixed Mask	1-Nov-07	14-Nov-07	LL_ME2	Hrs	20		3,696		3,696	17.0%	628
1	05	04	02	02	Readiness Review - Fixed Mask	1-Nov-07	14-Nov-07	LL_MDD2	Hrs	20		3,391		3,391	17.0%	576	
1	05	04	02	02	Ship to SLAC - Fixed Mask	5-Dec-07	3-Jan-08	LL_MFAT2	Hrs	20		2,872		2,872	17.0%	488	
1	05	04	02	02	Ship to SLAC - Fixed Mask	5-Dec-07	3-Jan-08	LL_MDD2	Hrs	8		1,356		1,356	17.0%	231	
1	05	04	02	02	Ship to SLAC - Fixed Mask	5-Dec-07	3-Jan-08	LL_ADMN2	Hrs	8		1,123		1,123	17.0%	191	
1	05	04	02	03	Slit/Collimators					498	180,000	81,609	204,395	286,004		34,321	
1	05	04	02	03	Final Design Review - Slit	1-May-07	31-May-07	LL_ME2	Hrs	2		361		361	12.0%	43	
1	05	04	02	03	Final Design Review - Slit	1-May-07	31-May-07	LL_MDD2	Hrs	2		331		331	12.0%	40	
1	05	04	02	03	Bid Prep/RFP/Award - Slit	30-May-07	28-Jun-07	LL_ME2	Hrs	12		2,168		2,168	12.0%	260	
1	05	04	02	03	Bid Prep/RFP/Award - Slit	30-May-07	28-Jun-07	LL_MDD2	Hrs	6		994		994	12.0%	119	
1	05	04	02	03	Bid Prep/RFP/Award - Slit	30-May-07	28-Jun-07	LL_ADMN2	Hrs	20		2,745		2,745	12.0%	329	
1	05	04	02	03	AWARD: Slit	29-Jun-07	29-Jun-07	LL_AWARD	\$\$		199,800		258,047	258,047	12.0%	30,966	
1	05	04	02	03	Fab/Deliver - Slit	2-Jul-07	27-Sep-07	LL_ME2	Hrs	25		4,516		4,516	12.0%	542	
1	05	04	02	03	Fab/Deliver - Slit	2-Jul-07	27-Sep-07	LL_ADMN2	Hrs	25		3,431		3,431	12.0%	412	
1	05	04	02	03	Fab/Deliver - Slit	2-Jul-07	27-Sep-07	LA_MSEQ2	\$\$		180,000		204,395	204,395	12.0%	24,527	
1	05	04	02	03	Testing @ LLNL - Slit	28-Sep-07	14-Dec-07	LL_MFAT2	Hrs	160		22,956		22,956	12.0%	2,755	
1	05	04	02	03	Testing @ LLNL - Slit	28-Sep-07	14-Dec-07	LL_ME2	Hrs	160		29,544		29,544	12.0%	3,545	
1	05	04	02	03	Readiness Review - Slit	2-Jan-08	15-Jan-08	LL_ME2	Hrs	40		7,392		7,392	12.0%	887	
1	05	04	02	03	Readiness Review - Slit	2-Jan-08	15-Jan-08	LL_MDD2	Hrs	10		1,695		1,695	12.0%	203	
1	05	04	02	03	Ship to SLAC - Slit	16-Jan-08	30-Jan-08	LL_MFAT2	Hrs	20		2,872		2,872	12.0%	345	
1	05	04	02	03	Ship to SLAC - Slit	16-Jan-08	30-Jan-08	LL_ME2	Hrs	8		1,478		1,478	12.0%	177	
1	05	04	02	03	Ship to SLAC - Slit	16-Jan-08	30-Jan-08	LL_ADMN2	Hrs	8		1,123		1,123	12.0%	135	
1	05	04	02	05	Gas/Solid Attenuator					958	1,270,000	163,804	1,442,123	1,605,927		192,711	
1	05	04	02	05	Prepare seismic note - Gas/Solid Attenuator	1-May-07	18-May-07	LL_ME2	Hrs	2		361		361	12.0%	43	
1	05	04	02	05	Prepare acceptance test plan/proced - Gas/Solid A	1-May-07	18-May-07	LL_PHS2	Hrs	2		386		386	12.0%	46	
1	05	04	02	05	Prepare acceptance test plan/proced - Gas/Solid A	1-May-07	18-May-07	LL_ME2	Hrs	3		542		542	12.0%	65	
1	05	04	02	05	Prepare acceptance test plan/proced - Gas/Solid A	1-May-07	18-May-07	LL_EE2	Hrs	3		542		542	12.0%	65	
1	05	04	02	05	Prepare oper/maint proced - Gas/Solid Attenuator	1-May-07	18-May-07	LL_PHS2	Hrs	2		386		386	12.0%	46	
1	05	04	02	05	Prepare oper/maint proced - Gas/Solid Attenuator	1-May-07	18-May-07	LL_ME2	Hrs	3		542		542	12.0%	65	
1	05	04	02	05	Prepare oper/maint proced - Gas/Solid Attenuator	1-May-07	18-May-07	LL_EE2	Hrs	3		542		542	12.0%	65	
1	05	04	02	05	Final Sci/Engr/Design - Gas/Solid Attenuator	1-May-07	25-May-07	LL_ME2	Hrs	5		903		903	12.0%	108	
1	05	04	02	05	Final Sci/Engr/Design - Gas/Solid Attenuator	1-May-07	25-May-07	LL_MDD2	Hrs	21		3,480		3,480	12.0%	418	
1	05	04	02	05	Final Design Review - Gas/Solid Attenuator	29-May-07	11-Jun-07	LL_PHS2	Hrs	8		1,544		1,544	12.0%	185	
1	05	04	02	05	Final Design Review - Gas/Solid Attenuator	29-May-07	11-Jun-07	LL_ME2	Hrs	40		7,226		7,226	12.0%	867	
1	05	04	02	05	Final Design Review - Gas/Solid Attenuator	29-May-07	11-Jun-07	LL_EE2	Hrs	20		3,613		3,613	12.0%	434	
1	05	04	02	05	Bid Prep/RFP/Award - Gas/Solid Attenuator	1-May-07	29-Jun-07	LL_ME2	Hrs	18		3,252		3,252	12.0%	390	
1	05	04	02	05	Bid Prep/RFP/Award - Gas/Solid Attenuator	1-May-07	29-Jun-07	LL_EE2	Hrs	18		3,252		3,252	12.0%	390	
1	05	04	02	05	Bid Prep/RFP/Award - Gas/Solid Attenuator	1-May-07	29-Jun-07	LL_ADMN2	Hrs	72		9,881		9,881	12.0%	1,186	
1	05	04	02	05	AWARD: Gas/Solid Attenuator	2-Jul-07	2-Jul-07	LL_AWARD	\$\$		1,409,700		1,820,663	1,820,663	12.0%	218,480	
1	05	04	02	05	Fab/Deliver - Gas/Solid Attenuator	3-Jul-07	28-Sep-07	LL_ME2	Hrs	25		4,516		4,516	12.0%	542	
1	05	04	02	05	Fab/Deliver - Gas/Solid Attenuator	3-Jul-07	28-Sep-07	LL_EE2	Hrs	25		4,516		4,516	12.0%	542	
1	05	04	02	05	Fab/Deliver - Gas/Solid Attenuator	3-Jul-07	28-Sep-07	LL_ADMN2	Hrs	24		3,294		3,294	12.0%	395	
1	05	04	02	05	Fab/Deliver - Gas/Solid Attenuator	3-Jul-07	28-Sep-07	LA_MSEQ2	\$\$		1,270,000		1,442,123	1,442,123	12.0%	173,055	
1	05	04	02	05	Assembly/Test @ LLNL - Gas/Solid Attenuator	1-Oct-07	2-Jan-08	LL_MFAT2	Hrs	158		22,689		22,689	12.0%	2,723	
1	05	04	02	05	Assembly/Test @ LLNL - Gas/Solid Attenuator	1-Oct-07	2-Jan-08	LL_ME2	Hrs	216		39,919		39,919	12.0%	4,790	
1	05	04	02	05	Assembly/Test @ LLNL - Gas/Solid Attenuator	1-Oct-07	2-Jan-08	LL_EE2	Hrs	216		39,919		39,919	12.0%	4,790	
1	05	04	02	05	Readiness Review - Gas/Solid Attenuator	3-Jan-08	16-Jan-08	LL_ME2	Hrs	20		3,696		3,696	12.0%	444	
1	05	04	02	05	Readiness Review - Gas/Solid Attenuator	3-Jan-08	16-Jan-08	LL_EE2	Hrs	10		1,848		1,848	12.0%	222	
1	05	04	02	05	Ship to SLAC - Gas/Solid Attenuator	17-Jan-08	31-Jan-08	LL_MFAT2	Hrs	20		2,872		2,872	12.0%	345	
1	05	04	02	05	Ship to SLAC - Gas/Solid Attenuator	17-Jan-08	31-Jan-08	LL_ME2	Hrs	8		1,478		1,478	12.0%	177	
1	05	04	02	05	Ship to SLAC - Gas/Solid Attenuator	17-Jan-08	31-Jan-08	LL_EE2	Hrs	8		1,478		1,478	12.0%	177	
1	05	04	02	05	Ship to SLAC - Gas/Solid Attenuator	17-Jan-08	31-Jan-08	LL_ADMN2	Hrs	8		1,123		1,123	12.0%	135	
1	05	04	02	06	TTF Damage Experiment					25	-	4,826	-	4,826		820	
1	05	04	02	06	Analysis - TTF Damage Exp.	1-May-07	31-May-07	LL_PHS2	Hrs	25		4,826		4,826	17.0%	820	
1	05	04	02	07	FEL Offset Mirrors					4,735	1,038,000	835,516	1,202,666	2,038,181		754,127	
1	05	04	02	07 01	Low Energy Mirrors					1,959	523,000	343,537	603,580	947,117		350,433	
1	05	04	02	07 01	Prepare ESD - LE Mirror	1-May-07	30-May-07	LL_PHS2	Hrs	14		2,702		2,702	37.0%	1,000	
1	05	04	02	07 01	Prepare ESD - LE Mirror	1-May-07	30-May-07	LL_ME2	Hrs	14		2,529		2,529	37.0%	936	
1	05	04	02	07 01	Preliminary Engineering/Design - LE Mirror	1-May-07	29-Jun-07	LL_PHS2	Hrs	52		10,038		10,038	37.0%	3,714	
1	05	04	02	07 01	Preliminary Engineering/Design - LE Mirror	1-May-07	29-Jun-07	LL_ME2	Hrs	78		14,091		14,091	37.0%	5,214	
1	05	04	02	07 01	Preliminary Engineering/Design - LE Mirror	1-May-07	29-Jun-07	LL_MDD2	Hrs	104		17,237		17,237	37.0%	6,378	
1	05	04	02	07 01	Preliminary Engineering/Design - LE Mirror	1-May-07	29-Jun-07	LL_EE2	Hrs	26		4,697		4,697	37.0%	1,738	
1	05	04	02	07 01	Preliminary Design Review - LE Mirror	2-Jul-07	16-Jul-07	LL_PHS2	Hrs	20		3,861		3,861	37.0%	1,428	
1	05	04	02	07 01	Preliminary Design Review - LE Mirror	2-Jul-07	16-Jul-07	LL_ME2	Hrs	30		5,420		5,420	37.0%	2,005	
1	05	04	02	07 01	Preliminary Design Review - LE Mirror	2-Jul-07	16-Jul-07	LL_MDD2	Hrs	30		4,972		4,972	37.0%	1,840	
1	05	04	02	07 01	Prepare seismic note - LE Mirror	1-May-07	29-May-07	LL_ME2	Hrs	40		7,226		7,226	37.0%	2,674	
1	05	04	02	07 01	Prepare acceptance test plan/proced -LE Mirror	1-May-07	29-Jun-07	LL_PHS2	Hrs	7		1,351		1,351	37.0%	500	
1	05	04	02	07 01	Prepare acceptance test plan/proced -LE Mirror	1-May-07	29-Jun-07	LL_ME2	Hrs	7		1,265		1,265	37.0%	468	
1	05	04	02	07 01	Prepare acceptance test plan/proced -LE Mirror	1-May-07	29-Jun-07	LL_EE2	Hrs	4		723		723	37.0%	267	
1	05	04	02	07 01	Prepare oper/maint proced - LE Mirror	1-May-07	29-Jun-07	LL_PHS2	Hrs	7		1,351		1,351	37.0%	500	
1	05	04	02	07 01	Prepare oper/maint proced - LE Mirror	1-May-07	29-Jun-07	LL_ME2	Hrs	7		1,265		1,265	37.0%	468	
1	05	04	02	07 01	Prepare oper/maint proced - LE Mirror	1-May-07	29-Jun-07	LL_EE2	Hrs	4		723		723	37.0%	267	

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont %	Contingency \$	
Description											Hours	\$	Labor	M&S	Total			
1	05	04	02	07	01	Final Engineering/Design - LE Mirror	2-Jul-07	14-Sep-07	LL_PHS2	Hrs	106		20,462		20,462	37.0%	7,571	
1	05	04	02	07	01	Final Engineering/Design - LE Mirror	2-Jul-07	14-Sep-07	LL_ME2	Hrs	159		28,724		28,724	37.0%	10,628	
1	05	04	02	07	01	Final Engineering/Design - LE Mirror	2-Jul-07	14-Sep-07	LL_MDD2	Hrs	424		70,272		70,272	37.0%	26,001	
1	05	04	02	07	01	Final Engineering/Design - LE Mirror	2-Jul-07	14-Sep-07	LL_EE2	Hrs	25		4,516		4,516	37.0%	1,671	
1	05	04	02	07	01	Final Design Review - LE Mirror	17-Sep-07	28-Sep-07	LL_PHS2	Hrs	20		3,861		3,861	37.0%	1,428	
1	05	04	02	07	01	Final Design Review - LE Mirror	17-Sep-07	28-Sep-07	LL_ME2	Hrs	40		7,226		7,226	37.0%	2,674	
1	05	04	02	07	01	Final Design Review - LE Mirror	17-Sep-07	28-Sep-07	LL_MDD2	Hrs	40		6,629		6,629	37.0%	2,453	
1	05	04	02	07	01	Bid Prep/RFP/Award - LE Mirror Substrate	1-May-07	30-May-07	LL_PHS2	Hrs	1		193		193	37.0%	71	
1	05	04	02	07	01	Bid Prep/RFP/Award - LE Mirror Substrate	1-May-07	30-May-07	LL_MDD2	Hrs	2		331		331	37.0%	123	
1	05	04	02	07	01	Bid Prep/RFP/Award - LE Mirror Substrate	1-May-07	30-May-07	LL_ADMN2	Hrs	2		274		274	37.0%	102	
1	05	04	02	07	01	AWARD: LE Mirror Substrate	31-May-07	31-May-07	LL_AWARD	\$\$		233,100		301,054		301,054	37.0%	111,390
1	05	04	02	07	01	Fab/Deliver - LE Mirror Substrate	1-Jun-07	22-Oct-07	LL_PHS2	Hrs	40		7,747		7,747	37.0%	2,867	
1	05	04	02	07	01	Fab/Deliver - LE Mirror Substrate	1-Jun-07	22-Oct-07	LL_MSTR2	\$\$		5,000		6,107		6,107	37.0%	2,260
1	05	04	02	07	01	Fab/Deliver - LE Mirror Substrate	1-Jun-07	22-Oct-07	LL_ADMN2	Hrs	16		2,203		2,203	37.0%	815	
1	05	04	02	07	01	Fab/Deliver - LE Mirror Substrate	1-Jun-07	22-Oct-07	LA_MSEQ2	\$\$		210,000		239,267		239,267	37.0%	88,529
1	05	04	02	07	01	Deposit Coating - LE Mirror	23-Oct-07	5-Dec-07	LL_PHS2	Hrs	90		17,773		17,773	37.0%	6,576	
1	05	04	02	07	01	Deposit Coating - LE Mirror	23-Oct-07	5-Dec-07	LL_MFAT2	Hrs	60		8,616		8,616	37.0%	3,188	
1	05	04	02	07	01	Bid Prep/RFP/Award - LE Mirror Mount/Tank System	1-Oct-07	26-Oct-07	LL_PHS2	Hrs	8		1,580		1,580	37.0%	585	
1	05	04	02	07	01	Bid Prep/RFP/Award - LE Mirror Mount/Tank System	1-Oct-07	26-Oct-07	LL_ME2	Hrs	32		5,914		5,914	37.0%	2,188	
1	05	04	02	07	01	Bid Prep/RFP/Award - LE Mirror Mount/Tank System	1-Oct-07	26-Oct-07	LL_MDD2	Hrs	16		2,713		2,713	37.0%	1,004	
1	05	04	02	07	01	Bid Prep/RFP/Award - LE Mirror Mount/Tank System	1-Oct-07	26-Oct-07	LL_EE2	Hrs	8		1,478		1,478	37.0%	547	
1	05	04	02	07	01	Bid Prep/RFP/Award - LE Mirror Mount/Tank System	1-Oct-07	26-Oct-07	LL_ADMN2	Hrs	16		2,246		2,246	37.0%	831	
1	05	04	02	07	01	AWARD: LE Mirror Mount/Tank System	29-Oct-07	29-Oct-07	LL_AWARD	\$\$		345,420		457,718		457,718	37.0%	169,355
1	05	04	02	07	01	Fab/Deliver Mount & Tank System - LE Mirror	30-Oct-07	11-Jan-08	LL_MSTR2	\$\$		5,000		6,227		6,227	37.0%	2,304
1	05	04	02	07	01	Fab/Deliver Mount & Tank System - LE Mirror	30-Oct-07	11-Jan-08	LL_ME2	Hrs	32		5,914		5,914	37.0%	2,188	
1	05	04	02	07	01	Fab/Deliver Mount & Tank System - LE Mirror	30-Oct-07	11-Jan-08	LA_MSEQ2	\$\$		303,000		351,979		351,979	37.0%	130,232
1	05	04	02	07	01	Test Mount @ LLNL - LE Mirror	14-Jan-08	11-Mar-08	LL_PHS2	Hrs	80		15,798		15,798	37.0%	5,845	
1	05	04	02	07	01	Test Mount @ LLNL - LE Mirror	14-Jan-08	11-Mar-08	LL_MFAT2	Hrs	100		14,360		14,360	37.0%	5,313	
1	05	04	02	07	01	Test Mount @ LLNL - LE Mirror	14-Jan-08	11-Mar-08	LL_ME2	Hrs	80		14,785		14,785	37.0%	5,470	
1	05	04	02	07	01	Test Mount @ LLNL - LE Mirror	14-Jan-08	11-Mar-08	LL_EE2	Hrs	16		2,957		2,957	37.0%	1,094	
1	05	04	02	07	01	Readiness Review - LE Mirror	12-Mar-08	25-Mar-08	LL_PHS2	Hrs	20		3,949		3,949	37.0%	1,461	
1	05	04	02	07	01	Readiness Review - LE Mirror	12-Mar-08	25-Mar-08	LL_MFAT2	Hrs	10		1,436		1,436	37.0%	531	
1	05	04	02	07	01	Readiness Review - LE Mirror	12-Mar-08	25-Mar-08	LL_ME2	Hrs	20		3,696		3,696	37.0%	1,368	
1	05	04	02	07	01	Readiness Review - LE Mirror	12-Mar-08	25-Mar-08	LL_EE2	Hrs	4		739		739	37.0%	274	
1	05	04	02	07	01	Ship to SLAC - LE Mirror	26-Mar-08	8-Apr-08	LL_MFAT2	Hrs	20		2,872		2,872	37.0%	1,063	
1	05	04	02	07	01	Ship to SLAC - LE Mirror	26-Mar-08	8-Apr-08	LL_ME2	Hrs	20		3,696		3,696	37.0%	1,368	
1	05	04	02	07	01	Ship to SLAC - LE Mirror	26-Mar-08	8-Apr-08	LL_ADMN2	Hrs	8		1,123		1,123	37.0%	416	
1	05	04	02	07	02	High Energy Mirrors					2,776	515,000	491,979	599,086	1,091,065		403,694	
1	05	04	02	07	02	Prepare Physics Specification - HE Mirror	1-May-07	1-Jun-07	LL_PHS2	Hrs	53		10,231		10,231	37.0%	3,785	
1	05	04	02	07	02	PRD Review - HE Mirror	4-Jun-07	15-Jun-07	LL_PHS2	Hrs	40		7,721		7,721	37.0%	2,857	
1	05	04	02	07	02	Conceptual Engr/Design - HE Mirror	1-May-07	15-Jun-07	LL_ME2	Hrs	48		8,671		8,671	37.0%	3,208	
1	05	04	02	07	02	Conceptual Engr/Design - HE Mirror	1-May-07	15-Jun-07	LL_MDD2	Hrs	72		11,933		11,933	37.0%	4,415	
1	05	04	02	07	02	Conceptual Design Review - HE Mirror	18-Jun-07	29-Jun-07	LL_PHS2	Hrs	40		7,721		7,721	37.0%	2,857	
1	05	04	02	07	02	Conceptual Design Review - HE Mirror	18-Jun-07	29-Jun-07	LL_ME2	Hrs	20		3,613		3,613	37.0%	1,337	
1	05	04	02	07	02	Conceptual Design Review - HE Mirror	18-Jun-07	29-Jun-07	LL_MDD2	Hrs	20		3,315		3,315	37.0%	1,226	
1	05	04	02	07	02	Prepare ESD - HE Mirror	2-Jul-07	30-Jul-07	LL_PHS2	Hrs	16		3,089		3,089	37.0%	1,143	
1	05	04	02	07	02	Prepare ESD - HE Mirror	2-Jul-07	30-Jul-07	LL_ME2	Hrs	16		2,890		2,890	37.0%	1,069	
1	05	04	02	07	02	Preliminary Engineering/Design - HE Mirror	18-Jun-07	31-Aug-07	LL_PHS2	Hrs	108		20,848		20,848	37.0%	7,714	
1	05	04	02	07	02	Preliminary Engineering/Design - HE Mirror	18-Jun-07	31-Aug-07	LL_ME2	Hrs	162		29,266		29,266	37.0%	10,829	
1	05	04	02	07	02	Preliminary Engineering/Design - HE Mirror	18-Jun-07	31-Aug-07	LL_MDD2	Hrs	216		35,799		35,799	37.0%	13,246	
1	05	04	02	07	02	Preliminary Engineering/Design - HE Mirror	18-Jun-07	31-Aug-07	LL_EE2	Hrs	54		9,755		9,755	37.0%	3,610	
1	05	04	02	07	02	Preliminary Design Review - HE Mirror	4-Sep-07	17-Sep-07	LL_PHS2	Hrs	30		5,791		5,791	37.0%	2,143	
1	05	04	02	07	02	Preliminary Design Review - HE Mirror	4-Sep-07	17-Sep-07	LL_ME2	Hrs	30		5,420		5,420	37.0%	2,005	
1	05	04	02	07	02	Preliminary Design Review - HE Mirror	4-Sep-07	17-Sep-07	LL_MDD2	Hrs	30		4,972		4,972	37.0%	1,840	
1	05	04	02	07	02	Prepare seismic note - HE Mirror	4-Sep-07	30-Oct-07	LL_ME2	Hrs	82		14,990		14,990	37.0%	5,546	
1	05	04	02	07	02	Prepare acceptance test plan/proced - HE Mirror	4-Sep-07	3-Oct-07	LL_PHS2	Hrs	22		4,253		4,253	37.0%	1,574	
1	05	04	02	07	02	Prepare acceptance test plan/proced - HE Mirror	4-Sep-07	3-Oct-07	LL_EE2	Hrs	9		1,628		1,628	37.0%	603	
1	05	04	02	07	02	Prepare oper/maint proced - HE Mirror	4-Sep-07	3-Oct-07	LL_PHS2	Hrs	22		4,253		4,253	37.0%	1,574	
1	05	04	02	07	02	Prepare oper/maint proced - HE Mirror	4-Sep-07	3-Oct-07	LL_EE2	Hrs	9		1,628		1,628	37.0%	603	
1	05	04	02	07	02	Final Engineering/Design - HE Mirror	4-Sep-07	5-Nov-07	LL_PHS2	Hrs	106		20,727		20,727	37.0%	7,669	
1	05	04	02	07	02	Final Engineering/Design - HE Mirror	4-Sep-07	5-Nov-07	LL_ME2	Hrs	180		32,940		32,940	37.0%	12,188	
1	05	04	02	07	02	Final Engineering/Design - HE Mirror	4-Sep-07	5-Nov-07	LL_MDD2	Hrs	500		83,944		83,944	37.0%	31,059	
1	05	04	02	07	02	Final Engineering/Design - HE Mirror	4-Sep-07	5-Nov-07	LL_EE2	Hrs	25		4,575		4,575	37.0%	1,693	
1	05	04	02	07	02	Final Design Review - HE Mirror	6-Nov-07	19-Nov-07	LL_PHS2	Hrs	40		7,899		7,899	37.0%	2,923	
1	05	04	02	07	02	Final Design Review - HE Mirror	6-Nov-07	19-Nov-07	LL_ME2	Hrs	40		7,392		7,392	37.0%	2,735	
1	05	04	02	07	02	Final Design Review - HE Mirror	6-Nov-07	19-Nov-07	LL_MDD2	Hrs	40		6,782		6,782	37.0%	2,509	
1	05	04	02	07	02	Bid Prep/RFP/Award - HE Mirror Substrate	18-Sep-07	15-Oct-07	LL_PHS2	Hrs	16		3,125		3,125	37.0%	1,156	
1	05	04	02	07	02	Bid Prep/RFP/Award - HE Mirror Substrate	18-Sep-07	15-Oct-07	LL_ME2	Hrs	8		1,462		1,462	37.0%	541	
1	05	04	02	07	02	Bid Prep/RFP/Award - HE Mirror Substrate	18-Sep-07	15-Oct-07	LL_MDD2	Hrs	16		2,683		2,683	37.0%	993	
1	05	04	02	07	02	Bid Prep/RFP/Award - HE Mirror Substrate	18-Sep-07	15-Oct-07	LL_ADMN2	Hrs	16		2,222		2,222	37.0%	822	
1	05	04	02	07	02	AWARD: HE Mirror Substrate	16-Oct-07	16-Oct-07	LL_AWARD	\$\$		342,000		453,186		453,186	37.0%	167,679
1	05	04	02	07	02	Fab/Deliver - HE Mirror Substrate	17-Oct-07	19-Jun-08	LL_PHS2	Hrs	60		11,848		11,848	37.0%	4,384	

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont %	Contingency \$
Description						Hours					\$	Labor	M&S	Total			
1	05	04	02	07	02	Fab/Deliver - HE Mirror Substrate	17-Oct-07	19-Jun-08	LL_MSTR2	\$\$		10,000		12,454	12,454	37.0%	4,608
1	05	04	02	07	02	Fab/Deliver - HE Mirror Substrate	17-Oct-07	19-Jun-08	LA_MSEQ2	\$\$		300,000		348,494	348,494	37.0%	128,943
1	05	04	02	07	02	Bid Prep/RFP/Award - HE Mirror Mount/Tank System	20-Nov-07	18-Jan-08	LL_PHS2	Hrs	12		2,370	2,370	37.0%	877	
1	05	04	02	07	02	Bid Prep/RFP/Award - HE Mirror Mount/Tank System	20-Nov-07	18-Jan-08	LL_ME2	Hrs	48		8,871	8,871	37.0%	3,282	
1	05	04	02	07	02	Bid Prep/RFP/Award - HE Mirror Mount/Tank System	20-Nov-07	18-Jan-08	LL_MDD2	Hrs	24		4,069	4,069	37.0%	1,506	
1	05	04	02	07	02	Bid Prep/RFP/Award - HE Mirror Mount/Tank System	20-Nov-07	18-Jan-08	LL_EE2	Hrs	12		2,218	2,218	37.0%	821	
1	05	04	02	07	02	Bid Prep/RFP/Award - HE Mirror Mount/Tank System	20-Nov-07	18-Jan-08	LL_ADMN2	Hrs	24		3,369	3,369	37.0%	1,247	
1	05	04	02	07	02	AWARD: HE Mirror Mount/Tank System	22-Jan-08	22-Jan-08	LL_AWARD	\$\$		233,700		309,677	309,677	37.0%	114,580
1	05	04	02	07	02	Fab/Deliver Mount & Tank System - HE Mirror	23-Jan-08	16-Apr-08	LL_ME2	Hrs	80		14,785	14,785	37.0%	5,470	
1	05	04	02	07	02	Fab/Deliver Mount & Tank System - HE Mirror	23-Jan-08	16-Apr-08	LA_MSEQ2	\$\$		205,000		238,138	238,138	37.0%	88,111
1	05	04	02	07	02	Test Mount @ LLNL - HE Mirror	17-Apr-08	12-Jun-08	LL_PHS2	Hrs	80		15,798	15,798	37.0%	5,845	
1	05	04	02	07	02	Test Mount @ LLNL - HE Mirror	17-Apr-08	12-Jun-08	LL_MFAT2	Hrs	160		22,976	22,976	37.0%	8,501	
1	05	04	02	07	02	Test Mount @ LLNL - HE Mirror	17-Apr-08	12-Jun-08	LL_ME2	Hrs	80		14,785	14,785	37.0%	5,470	
1	05	04	02	07	02	Test Mount @ LLNL - HE Mirror	17-Apr-08	12-Jun-08	LL_EE2	Hrs	16		2,957	2,957	37.0%	1,094	
1	05	04	02	07	02	Readiness Review - HE Mirror	20-Jun-08	3-Jul-08	LL_PHS2	Hrs	20		3,949	3,949	37.0%	1,461	
1	05	04	02	07	02	Readiness Review - HE Mirror	20-Jun-08	3-Jul-08	LL_MFAT2	Hrs	10		1,436	1,436	37.0%	531	
1	05	04	02	07	02	Readiness Review - HE Mirror	20-Jun-08	3-Jul-08	LL_ME2	Hrs	20		3,696	3,696	37.0%	1,368	
1	05	04	02	07	02	Readiness Review - HE Mirror	20-Jun-08	3-Jul-08	LL_EE2	Hrs	4		739	739	37.0%	274	
1	05	04	02	07	02	Ship to SLAC - HE Mirror	7-Jul-08	18-Jul-08	LL_MFAT2	Hrs	20		2,872	2,872	37.0%	1,063	
1	05	04	02	07	02	Ship to SLAC - HE Mirror	7-Jul-08	18-Jul-08	LL_ME2	Hrs	20		3,696	3,696	37.0%	1,368	
1	05	05				Diagnostics Subsystem					11,334	933,230	1,996,126	1,078,988		738,202	
1	05	05	03			Facility Diagnostics					4,385	329,350	777,590	381,897		239,849	
1	05	05	03	01		Direct Imager					1,560	147,750	268,542	168,797	437,339		96,215
1	05	05	03	01	Prepare ESD - Direct Imager	1-May-07	30-May-07	LL_ME2	Hrs	14		2,529	2,529	22.0%	556		
1	05	05	03	01	Prepare ESD - Direct Imager	1-May-07	30-May-07	LL_EE2	Hrs	14		2,529	2,529	22.0%	556		
1	05	05	03	01	Preliminary Engineering/Design - Direct Imager	1-May-07	1-Jun-07	LL_ME2	Hrs	49		8,852	8,852	22.0%	1,947		
1	05	05	03	01	Preliminary Engineering/Design - Direct Imager	1-May-07	1-Jun-07	LL_MDD2	Hrs	66		10,939	10,939	22.0%	2,406		
1	05	05	03	01	Preliminary Engineering/Design - Direct Imager	1-May-07	1-Jun-07	LL_EE2	Hrs	66		11,923	11,923	22.0%	2,623		
1	05	05	03	01	Preliminary Design Review - Direct Imager	4-Jun-07	14-Jun-07	LL_ME2	Hrs	36		6,504	6,504	22.0%	1,431		
1	05	05	03	01	Preliminary Design Review - Direct Imager	4-Jun-07	14-Jun-07	LL_MDD2	Hrs	18		2,983	2,983	22.0%	656		
1	05	05	03	01	Preliminary Design Review - Direct Imager	4-Jun-07	14-Jun-07	LL_EE2	Hrs	36		6,504	6,504	22.0%	1,431		
1	05	05	03	01	Prepare seismic note - Direct Imager	15-Jun-07	31-Jul-07	LL_ME2	Hrs	26		4,697	4,697	22.0%	1,033		
1	05	05	03	01	Prepare acceptance test plan/proced - Direct Ima	4-Jun-07	16-Jul-07	LL_ME2	Hrs	24		4,336	4,336	22.0%	954		
1	05	05	03	01	Prepare acceptance test plan/proced - Direct Ima	4-Jun-07	16-Jul-07	LL_EE2	Hrs	24		4,336	4,336	22.0%	954		
1	05	05	03	01	Prepare oper/maint proced - Direct Imager	4-Jun-07	16-Jul-07	LL_ME2	Hrs	24		4,336	4,336	22.0%	954		
1	05	05	03	01	Prepare oper/maint proced - Direct Imager	4-Jun-07	16-Jul-07	LL_EE2	Hrs	24		4,336	4,336	22.0%	954		
1	05	05	03	01	Final Engineering/Design - Direct Imager	4-Jun-07	31-Jul-07	LL_ME2	Hrs	123		22,221	22,221	22.0%	4,889		
1	05	05	03	01	Final Engineering/Design - Direct Imager	4-Jun-07	31-Jul-07	LL_MDD2	Hrs	246		40,771	40,771	22.0%	8,970		
1	05	05	03	01	Final Engineering/Design - Direct Imager	4-Jun-07	31-Jul-07	LL_EE2	Hrs	123		22,221	22,221	22.0%	4,889		
1	05	05	03	01	Final Design Review - Direct Imager	1-Aug-07	14-Aug-07	LL_ME2	Hrs	40		7,226	7,226	22.0%	1,590		
1	05	05	03	01	Final Design Review - Direct Imager	1-Aug-07	14-Aug-07	LL_MDD2	Hrs	20		3,315	3,315	22.0%	729		
1	05	05	03	01	Final Design Review - Direct Imager	1-Aug-07	14-Aug-07	LL_EE2	Hrs	40		7,226	7,226	22.0%	1,590		
1	05	05	03	01	Bid Prep/RFP/Award - Direct Imager	17-May-07	19-Sep-07	LL_ME2	Hrs	18		3,252	3,252	22.0%	715		
1	05	05	03	01	Bid Prep/RFP/Award - Direct Imager	17-May-07	19-Sep-07	LL_EE2	Hrs	18		3,252	3,252	22.0%	715		
1	05	05	03	01	Bid Prep/RFP/Award - Direct Imager	17-May-07	19-Sep-07	LL_ADMN2	Hrs	37		5,078	5,078	22.0%	1,117		
1	05	05	03	01	AWARD: Direct Imager	17-May-07	19-Sep-07	LL_AWARD	\$\$		165,253		213,428	213,428	22.0%	46,954	
1	05	05	03	01	Fab/Deliver - Direct Imager	1-Jun-07	14-Nov-07	LL_ME2	Hrs	19		3,453	3,453	22.0%	760		
1	05	05	03	01	Fab/Deliver - Direct Imager	1-Jun-07	14-Nov-07	LL_MDD2	Hrs	26		4,335	4,335	22.0%	954		
1	05	05	03	01	Fab/Deliver - Direct Imager	1-Jun-07	14-Nov-07	LL_EE2	Hrs	19		3,453	3,453	22.0%	760		
1	05	05	03	01	Fab/Deliver - Direct Imager	1-Jun-07	14-Nov-07	LL_ADMN2	Hrs	19		2,623	2,623	22.0%	577		
1	05	05	03	01	Fab/Deliver - Direct Imager	1-Jun-07	14-Nov-07	LA_MSEQ2	\$\$		147,750		168,797	168,797	22.0%	37,135	
1	05	05	03	01	Test @ LLNL - Direct Imager	15-Nov-07	30-Jan-08	LL_MFAT2	Hrs	130		18,668	18,668	22.0%	4,107		
1	05	05	03	01	Test @ LLNL - Direct Imager	15-Nov-07	30-Jan-08	LL_ME2	Hrs	65		12,013	12,013	22.0%	2,643		
1	05	05	03	01	Test @ LLNL - Direct Imager	15-Nov-07	30-Jan-08	LL_EE2	Hrs	130		24,025	24,025	22.0%	5,286		
1	05	05	03	01	Readiness Review - Direct Imager	31-Jan-08	13-Feb-08	LL_MFAT2	Hrs	10		1,436	1,436	22.0%	316		
1	05	05	03	01	Readiness Review - Direct Imager	31-Jan-08	13-Feb-08	LL_ME2	Hrs	10		1,848	1,848	22.0%	407		
1	05	05	03	01	Readiness Review - Direct Imager	31-Jan-08	13-Feb-08	LL_EE2	Hrs	10		1,848	1,848	22.0%	407		
1	05	05	03	01	Ship to SLAC - Direct Imager	14-Feb-08	28-Feb-08	LL_MFAT2	Hrs	20		2,872	2,872	22.0%	632		
1	05	05	03	01	Ship to SLAC - Direct Imager	14-Feb-08	28-Feb-08	LL_ME2	Hrs	4		739	739	22.0%	163		
1	05	05	03	01	Ship to SLAC - Direct Imager	14-Feb-08	28-Feb-08	LL_EE2	Hrs	4		739	739	22.0%	163		
1	05	05	03	01	Ship to SLAC - Direct Imager	14-Feb-08	28-Feb-08	LL_ADMN2	Hrs	8		1,123	1,123	22.0%	247		
1	05	05	03	06	Gas Detector						1,141	88,000	203,304	101,467	304,770		51,811
1	05	05	03	06	Assemble - Detector Calibration @ SSRL	1-May-07	29-May-07	LL_MFAT2	Hrs	30		4,211	4,211	17.0%	716		
1	05	05	03	06	Assemble - Detector Calibration @ SSRL	1-May-07	29-May-07	LL_ME2	Hrs	12		2,168	2,168	17.0%	369		
1	05	05	03	06	Assemble - Detector Calibration @ SSRL	1-May-07	29-May-07	LL_EE2	Hrs	15		2,710	2,710	17.0%	461		
1	05	05	03	06	Testing - Detector Calibration @ SSRL	30-May-07	12-Jun-07	LL_PHS2	Hrs	20		3,861	3,861	17.0%	656		
1	05	05	03	06	Testing - Detector Calibration @ SSRL	30-May-07	12-Jun-07	LL_MFAT2	Hrs	10		1,404	1,404	17.0%	239		
1	05	05	03	06	Testing - Detector Calibration @ SSRL	30-May-07	12-Jun-07	LL_ME2	Hrs	8		1,445	1,445	17.0%	246		
1	05	05	03	06	Testing - Detector Calibration @ SSRL	30-May-07	12-Jun-07	LL_EE2	Hrs	20		3,613	3,613	17.0%	614		
1	05	05	03	06	Analysis - Detector Calibration @ SSRL	30-May-07	26-Jun-07	LL_PHS2	Hrs	40		7,721	7,721	17.0%	1,313		
1	05	05	03	06	Analysis - Detector Calibration @ SSRL	30-May-07	26-Jun-07	LL_EE2	Hrs	40		7,226	7,226	17.0%	1,228		
1	05	05	03	06	Prepare acceptance test plan/proced - Gas Detect	1-May-07	29-Jun-07	LL_PHS2	Hrs	15		2,895	2,895	17.0%	492		

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline Description	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont %	Contingency \$
1	2	3	4	5	6						Hours	\$	Labor	M&S	Total		
1	05	05	03	06		Prepare acceptance test plan/proced - Gas Detect	1-May-07	29-Jun-07	LL_ME2	Hrs	15		2,710		2,710	17.0%	461
1	05	05	03	06		Prepare acceptance test plan/proced - Gas Detect	1-May-07	29-Jun-07	LL_EE2	Hrs	15		2,710		2,710	17.0%	461
1	05	05	03	06		Prepare oper/maint proced - Gas Detector	1-May-07	29-Jun-07	LL_PHS2	Hrs	15		2,895		2,895	17.0%	492
1	05	05	03	06		Prepare oper/maint proced - Gas Detector	1-May-07	29-Jun-07	LL_ME2	Hrs	15		2,710		2,710	17.0%	461
1	05	05	03	06		Prepare oper/maint proced - Gas Detector	1-May-07	29-Jun-07	LL_EE2	Hrs	15		2,710		2,710	17.0%	461
1	05	05	03	06		Final Science/Engrng/Design - Gas Detector	1-May-07	29-Jun-07	LL_PHS2	Hrs	21		4,054		4,054	17.0%	689
1	05	05	03	06		Final Science/Engrng/Design - Gas Detector	1-May-07	29-Jun-07	LL_ME2	Hrs	31		5,600		5,600	17.0%	952
1	05	05	03	06		Final Science/Engrng/Design - Gas Detector	1-May-07	29-Jun-07	LL_MDD2	Hrs	83		13,756		13,756	17.0%	2,339
1	05	05	03	06		Final Science/Engrng/Design - Gas Detector	1-May-07	29-Jun-07	LL_EE2	Hrs	31		5,600		5,600	17.0%	952
1	05	05	03	06		Final Design Review - Gas Detector	2-Jul-07	16-Jul-07	LL_PHS2	Hrs	30		5,791		5,791	17.0%	984
1	05	05	03	06		Final Design Review - Gas Detector	2-Jul-07	16-Jul-07	LL_ME2	Hrs	20		3,613		3,613	17.0%	614
1	05	05	03	06		Final Design Review - Gas Detector	2-Jul-07	16-Jul-07	LL_MDD2	Hrs	20		3,315		3,315	17.0%	564
1	05	05	03	06		Final Design Review - Gas Detector	2-Jul-07	16-Jul-07	LL_EE2	Hrs	30		5,420		5,420	17.0%	921
1	05	05	03	06		Bid Prep/RFP/Award - Gas Detector	17-Jul-07	27-Aug-07	LL_PHS2	Hrs	12		2,316		2,316	17.0%	394
1	05	05	03	06		Bid Prep/RFP/Award - Gas Detector	17-Jul-07	27-Aug-07	LL_ME2	Hrs	24		4,336		4,336	17.0%	737
1	05	05	03	06		Bid Prep/RFP/Award - Gas Detector	17-Jul-07	27-Aug-07	LL_MDD2	Hrs	16		2,652		2,652	17.0%	451
1	05	05	03	06		Bid Prep/RFP/Award - Gas Detector	17-Jul-07	27-Aug-07	LL_EE2	Hrs	24		4,336		4,336	17.0%	737
1	05	05	03	06		Bid Prep/RFP/Award - Gas Detector	17-Jul-07	27-Aug-07	LL_ADMN2	Hrs	16		2,196		2,196	17.0%	373
1	05	05	03	06		AWARD: Gas Detector	28-Aug-07	28-Aug-07	LL_AWARD	\$\$		99,490		128,494	128,494	17.0%	21,844
1	05	05	03	06		Fab/Deliver - Gas Detector	29-Aug-07	7-Dec-07	LL_ME2	Hrs	20		3,669		3,669	17.0%	624
1	05	05	03	06		Fab/Deliver - Gas Detector	29-Aug-07	7-Dec-07	LL_MDD2	Hrs	20		3,366		3,366	17.0%	572
1	05	05	03	06		Fab/Deliver - Gas Detector	29-Aug-07	7-Dec-07	LL_EE2	Hrs	20		3,669		3,669	17.0%	624
1	05	05	03	06		Fab/Deliver - Gas Detector	29-Aug-07	7-Dec-07	LL_ADMN2	Hrs	10		1,394		1,394	17.0%	237
1	05	05	03	06		Fab/Deliver - Gas Detector	29-Aug-07	7-Dec-07	LA_MSEQ2	\$\$		88,000		101,467	101,467	17.0%	17,249
1	05	05	03	06		Test @ LLNL - Gas Detector	10-Dec-07	20-Mar-08	LL_PHS2	Hrs	120		23,697		23,697	17.0%	4,028
1	05	05	03	06		Test @ LLNL - Gas Detector	10-Dec-07	20-Mar-08	LL_MFAT2	Hrs	48		6,893		6,893	17.0%	1,172
1	05	05	03	06		Test @ LLNL - Gas Detector	10-Dec-07	20-Mar-08	LL_ME2	Hrs	60		11,089		11,089	17.0%	1,885
1	05	05	03	06		Test @ LLNL - Gas Detector	10-Dec-07	20-Mar-08	LL_EE2	Hrs	120		22,177		22,177	17.0%	3,770
1	05	05	03	06		Readiness Review - Gas Detector	21-Mar-08	3-Apr-08	LL_PHS2	Hrs	8		1,580		1,580	17.0%	269
1	05	05	03	06		Readiness Review - Gas Detector	21-Mar-08	3-Apr-08	LL_MFAT2	Hrs	8		1,149		1,149	17.0%	195
1	05	05	03	06		Readiness Review - Gas Detector	21-Mar-08	3-Apr-08	LL_ME2	Hrs	8		1,478		1,478	17.0%	251
1	05	05	03	06		Readiness Review - Gas Detector	21-Mar-08	3-Apr-08	LL_EE2	Hrs	20		3,696		3,696	17.0%	628
1	05	05	03	06		Ship to SLAC - Gas Detector	4-Apr-08	17-Apr-08	LL_MFAT2	Hrs	20		2,872		2,872	17.0%	488
1	05	05	03	06		Ship to SLAC - Gas Detector	4-Apr-08	17-Apr-08	LL_EE2	Hrs	8		1,478		1,478	17.0%	251
1	05	05	03	06		Ship to SLAC - Gas Detector	4-Apr-08	17-Apr-08	LL_ADMN2	Hrs	8		1,123		1,123	17.0%	191
1	05	05	03	07		NEH Imager					1,684	93,600	305,744	111,633	417,377		91,823
1	05	05	03	07		Prepare Physics Specification - NEH Imager	1-Oct-08	28-Oct-08	LL_PHS2	Hrs	40		8,081		8,081	22.0%	1,778
1	05	05	03	07		Prepare Physics Specification - NEH Imager	1-Oct-08	28-Oct-08	LL_EE2	Hrs	40		7,562		7,562	22.0%	1,664
1	05	05	03	07		PRD Review - NEH Imager	29-Oct-08	4-Nov-08	LL_PHS2	Hrs	10		2,020		2,020	22.0%	444
1	05	05	03	07		PRD Review - NEH Imager	29-Oct-08	4-Nov-08	LL_EE2	Hrs	10		1,891		1,891	22.0%	416
1	05	05	03	07		Conceptual Engr/Design - NEH Imager	29-Oct-08	11-Dec-08	LL_ME2	Hrs	40		7,562		7,562	22.0%	1,664
1	05	05	03	07		Conceptual Engr/Design - NEH Imager	29-Oct-08	11-Dec-08	LL_MDD2	Hrs	90		15,610		15,610	22.0%	3,434
1	05	05	03	07		Conceptual Engr/Design - NEH Imager	29-Oct-08	11-Dec-08	LL_EE2	Hrs	40		7,562		7,562	22.0%	1,664
1	05	05	03	07		Conceptual Design Review - NEH Imager	12-Dec-08	26-Dec-08	LL_ME2	Hrs	10		1,891		1,891	22.0%	416
1	05	05	03	07		Conceptual Design Review - NEH Imager	12-Dec-08	26-Dec-08	LL_MDD2	Hrs	20		3,469		3,469	22.0%	763
1	05	05	03	07		Conceptual Design Review - NEH Imager	12-Dec-08	26-Dec-08	LL_EE2	Hrs	20		3,781		3,781	22.0%	832
1	05	05	03	07		Prepare ESD - NEH Imager	29-Dec-08	26-Jan-09	LL_ME2	Hrs	16		3,025		3,025	22.0%	665
1	05	05	03	07		Prepare ESD - NEH Imager	29-Dec-08	26-Jan-09	LL_EE2	Hrs	16		3,025		3,025	22.0%	665
1	05	05	03	07		Preliminary Engineering/Design - NEH Imager	12-Dec-08	9-Feb-09	LL_ME2	Hrs	80		15,125		15,125	22.0%	3,327
1	05	05	03	07		Preliminary Engineering/Design - NEH Imager	12-Dec-08	9-Feb-09	LL_MDD2	Hrs	160		27,752		27,752	22.0%	6,105
1	05	05	03	07		Preliminary Engineering/Design - NEH Imager	12-Dec-08	9-Feb-09	LL_EE2	Hrs	80		15,125		15,125	22.0%	3,327
1	05	05	03	07		Preliminary Design Review - NEH Imager	10-Feb-09	23-Feb-09	LL_ME2	Hrs	20		3,781		3,781	22.0%	832
1	05	05	03	07		Preliminary Design Review - NEH Imager	10-Feb-09	23-Feb-09	LL_MDD2	Hrs	20		3,469		3,469	22.0%	763
1	05	05	03	07		Preliminary Design Review - NEH Imager	10-Feb-09	23-Feb-09	LL_EE2	Hrs	40		7,562		7,562	22.0%	1,664
1	05	05	03	07		Prepare seismic note - NEH Imager	12-Dec-08	9-Feb-09	LL_ME2	Hrs	32		6,050		6,050	22.0%	1,331
1	05	05	03	07		Prepare acceptance test plan/proced - NEH Imager	10-Feb-09	23-Mar-09	LL_ME2	Hrs	24		4,537		4,537	22.0%	998
1	05	05	03	07		Prepare acceptance test plan/proced - NEH Imager	10-Feb-09	23-Mar-09	LL_EE2	Hrs	24		4,537		4,537	22.0%	998
1	05	05	03	07		Prepare oper/maint proced - NEH Imager	10-Feb-09	23-Mar-09	LL_ME2	Hrs	24		4,537		4,537	22.0%	998
1	05	05	03	07		Prepare oper/maint proced - NEH Imager	10-Feb-09	23-Mar-09	LL_EE2	Hrs	24		4,537		4,537	22.0%	998
1	05	05	03	07		Final Engineering/Design - NEH Imager	24-Feb-09	28-Apr-09	LL_ME2	Hrs	92		17,394		17,394	22.0%	3,827
1	05	05	03	07		Final Engineering/Design - NEH Imager	24-Feb-09	28-Apr-09	LL_MDD2	Hrs	184		31,914		31,914	22.0%	7,021
1	05	05	03	07		Final Engineering/Design - NEH Imager	24-Feb-09	28-Apr-09	LL_EE2	Hrs	92		17,394		17,394	22.0%	3,827
1	05	05	03	07		Final Design Review - NEH Imager	29-Apr-09	12-May-09	LL_ME2	Hrs	30		5,672		5,672	22.0%	1,248
1	05	05	03	07		Final Design Review - NEH Imager	29-Apr-09	12-May-09	LL_MDD2	Hrs	20		3,469		3,469	22.0%	763
1	05	05	03	07		Final Design Review - NEH Imager	29-Apr-09	12-May-09	LL_EE2	Hrs	30		5,672		5,672	22.0%	1,248
1	05	05	03	07		Bid Prep/RFP/Award - NEH Imager	13-May-09	30-Jul-09	LL_ME2	Hrs	20		3,781		3,781	22.0%	832
1	05	05	03	07		Bid Prep/RFP/Award - NEH Imager	13-May-09	30-Jul-09	LL_EE2	Hrs	30		5,672		5,672	22.0%	1,248
1	05	05	03	07		Bid Prep/RFP/Award - NEH Imager	13-May-09	30-Jul-09	LL_ADMN2	Hrs	40		5,745		5,745	22.0%	1,264
1	05	05	03	07		AWARD: NEH Imager	31-Jul-09	31-Jul-09	LL_AWARD	\$\$		109,016		148,213	148,213	22.0%	32,607
1	05	05	03	07		Fab/Deliver - NEH Imager	3-Aug-09	12-Oct-09	LL_ME2	Hrs	20		3,795		3,795	22.0%	835
1	05	05	03	07		Fab/Deliver - NEH Imager	3-Aug-09	12-Oct-09	LL_MDD2	Hrs	20		3,482		3,482	22.0%	766
1	05	05	03	07		Fab/Deliver - NEH Imager	3-Aug-09	12-Oct-09	LL_EE2	Hrs	20		3,795		3,795	22.0%	835

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early	Early	Res	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont	Contingency
						Description	Start	Finish	Code		Hours	\$	Labor	M&S	Total	%	\$
1	05	05	03	07	6	Fab/Deliver - NEH Imager	3-Aug-09	12-Oct-09	LL_ADMN2	Hrs	20		2,883		2,883	22.0%	634
1	05	05	03	07	Fab/Deliver - NEH Imager	3-Aug-09	12-Oct-09	LA_MSEQ2	\$\$			93,600		111,633	111,633	22.0%	2,559
1	05	05	03	07	Test @ LLNL - NEH Imager	13-Oct-09	9-Nov-09	LL_MFAT2	Hrs	40			6,011		6,011	22.0%	1,322
1	05	05	03	07	Test @ LLNL - NEH Imager	13-Oct-09	9-Nov-09	LL_ME2	Hrs	20			3,868		3,868	22.0%	851
1	05	05	03	07	Test @ LLNL - NEH Imager	13-Oct-09	9-Nov-09	LL_EE2	Hrs	60			11,605		11,605	22.0%	2,553
1	05	05	03	07	Readiness Review - NEH Imager	10-Nov-09	23-Nov-09	LL_MFAT2	Hrs	10			1,503		1,503	22.0%	331
1	05	05	03	07	Readiness Review - NEH Imager	10-Nov-09	23-Nov-09	LL_ME2	Hrs	10			1,934		1,934	22.0%	426
1	05	05	03	07	Readiness Review - NEH Imager	10-Nov-09	23-Nov-09	LL_EE2	Hrs	10			1,934		1,934	22.0%	426
1	05	05	03	07	Ship to SLAC - NEH Imager	24-Nov-09	7-Dec-09	LL_MFAT2	Hrs	20			3,006		3,006	22.0%	661
1	05	05	03	07	Ship to SLAC - NEH Imager	24-Nov-09	7-Dec-09	LL_ME2	Hrs	4			774		774	22.0%	170
1	05	05	03	07	Ship to SLAC - NEH Imager	24-Nov-09	7-Dec-09	LL_EE2	Hrs	4			774		774	22.0%	170
1	05	05	03	07	Ship to SLAC - NEH Imager	24-Nov-09	7-Dec-09	LL_ADMN2	Hrs	8			1,175		1,175	22.0%	259
1	05	05	04		Commissioning Diagnostics						6,949	603,880	1,218,536	697,092	1,915,628		498,354
1	05	05	04	02	Total Energy Measurement						1,264	184,880	216,206	210,361	426,567		115,173
1	05	05	04	02	Prototype revision - Total Energy Measurement	1-May-07	30-May-07	LL_PHS2	Hrs	6			1,158		1,158	27.0%	313
1	05	05	04	02	Prototype Testing w/ old preamp - TEM	1-May-07	30-May-07	LL_PHS2	Hrs	5			965		965	27.0%	261
1	05	05	04	02	Prototype Testing w/ old preamp - TEM	1-May-07	30-May-07	LL_MFAT2	Hrs	11			1,544		1,544	27.0%	417
1	05	05	04	02	Model refinement - Total Energy Measurement	1-May-07	30-May-07	LL_PHS2	Hrs	2			386		386	27.0%	104
1	05	05	04	02	Model refinement - Total Energy Measurement	1-May-07	30-May-07	LL_MFAT2	Hrs	5			702		702	27.0%	190
1	05	05	04	02	Prepare ESD - Total Energy Measurement	1-May-07	30-May-07	LL_PHS2	Hrs	6			1,158		1,158	27.0%	313
1	05	05	04	02	Prepare ESD - Total Energy Measurement	1-May-07	30-May-07	LL_ME2	Hrs	6			1,084		1,084	27.0%	293
1	05	05	04	02	Prepare seismic note - Total Energy Measurement	1-May-07	29-May-07	LL_ME2	Hrs	20			3,613		3,613	27.0%	976
1	05	05	04	02	Prepare acceptance test plan/proced - Total Ener	1-May-07	29-May-07	LL_PHS2	Hrs	40			7,721		7,721	27.0%	2,085
1	05	05	04	02	Prepare oper/maint proced - Total Energy Measure	1-May-07	29-May-07	LL_PHS2	Hrs	40			7,721		7,721	27.0%	2,085
1	05	05	04	02	Final Engineering/Design - Total Energy Measurem	1-May-07	29-Jun-07	LL_ME2	Hrs	48			8,671		8,671	27.0%	2,341
1	05	05	04	02	Final Engineering/Design - Total Energy Measurem	1-May-07	29-Jun-07	LL_MDD2	Hrs	96			15,911		15,911	27.0%	4,296
1	05	05	04	02	Final Engineering/Design - Total Energy Measurem	1-May-07	29-Jun-07	LL_EE2	Hrs	16			2,890		2,890	27.0%	780
1	05	05	04	02	Final Design Review - Total Energy Measurement	2-Jul-07	16-Jul-07	LL_PHS2	Hrs	30			5,791		5,791	27.0%	1,564
1	05	05	04	02	Final Design Review - Total Energy Measurement	2-Jul-07	16-Jul-07	LL_MFAT2	Hrs	20			2,807		2,807	27.0%	758
1	05	05	04	02	Final Design Review - Total Energy Measurement	2-Jul-07	16-Jul-07	LL_ME2	Hrs	30			5,420		5,420	27.0%	1,463
1	05	05	04	02	Final Design Review - Total Energy Measurement	2-Jul-07	16-Jul-07	LL_EE2	Hrs	10			1,807		1,807	27.0%	488
1	05	05	04	02	Bid Prep/RFP/Award - Total Energy Measurement	1-May-07	12-Jun-07	LL_PHS2	Hrs	24			4,633		4,633	27.0%	1,251
1	05	05	04	02	Bid Prep/RFP/Award - Total Energy Measurement	1-May-07	12-Jun-07	LL_ME2	Hrs	24			4,336		4,336	27.0%	1,171
1	05	05	04	02	Bid Prep/RFP/Award - Total Energy Measurement	1-May-07	12-Jun-07	LL_EE2	Hrs	24			4,336		4,336	27.0%	1,171
1	05	05	04	02	Bid Prep/RFP/Award - Total Energy Measurement	1-May-07	12-Jun-07	LL_ADMN2	Hrs	40			5,489		5,489	27.0%	1,482
1	05	05	04	02	AWARD: Total Energy Measurement	17-Jul-07	17-Jul-07	LL_AWARD	\$\$			149,850		193,535	193,535	27.0%	52,254
1	05	05	04	02	AWARD: Final Production Sensors (Towson U.)	30-May-07	12-Jun-07	LL_AWARD	\$\$			55,866		72,152	72,152	27.0%	19,481
1	05	05	04	02	Fab/Deliver - Total Energy Measurement	18-Jul-07	26-Sep-07	LL_PHS2	Hrs	20			3,861		3,861	27.0%	1,042
1	05	05	04	02	Fab/Deliver - Total Energy Measurement	18-Jul-07	26-Sep-07	LL_ADMN2	Hrs	20			2,745		2,745	27.0%	741
1	05	05	04	02	Fab/Deliver - Total Energy Measurement	18-Jul-07	26-Sep-07	LA_MSEQ2	\$\$			135,000		153,297	153,297	27.0%	41,390
1	05	05	04	02	Fab/Deliver - Final Production Sensors (Towson U)	1-May-07	14-Dec-07	LL_PHS2	Hrs	17			3,306		3,306	27.0%	893
1	05	05	04	02	Fab/Deliver - Final Production Sensors (Towson U)	1-May-07	14-Dec-07	LL_ADMN2	Hrs	17			2,351		2,351	27.0%	635
1	05	05	04	02	Fab/Deliver - Final Production Sensors (Towson U)	1-May-07	14-Dec-07	LA_MSEQ2	\$\$			49,880		57,065	57,065	27.0%	15,408
1	05	05	04	02	Assembly @ LLNL - Total Energy Measurement	2-Jan-08	23-Jan-08	LL_PHS2	Hrs	45			8,886		8,886	27.0%	2,399
1	05	05	04	02	Assembly @ LLNL - Total Energy Measurement	2-Jan-08	23-Jan-08	LL_MFAT2	Hrs	75			10,770		10,770	27.0%	2,908
1	05	05	04	02	Assembly @ LLNL - Total Energy Measurement	2-Jan-08	23-Jan-08	LL_EE2	Hrs	15			2,772		2,772	27.0%	748
1	05	05	04	02	Test @ LLNL - Total Energy Measurement	24-Jan-08	20-Mar-08	LL_PHS2	Hrs	180			35,545		35,545	27.0%	9,597
1	05	05	04	02	Test @ LLNL - Total Energy Measurement	24-Jan-08	20-Mar-08	LL_MFAT2	Hrs	240			34,465		34,465	27.0%	9,305
1	05	05	04	02	Test @ LLNL - Total Energy Measurement	24-Jan-08	20-Mar-08	LL_EE2	Hrs	40			7,392		7,392	27.0%	1,996
1	05	05	04	02	Readiness Review - Total Energy Measurement	21-Mar-08	3-Apr-08	LL_PHS2	Hrs	20			3,949		3,949	27.0%	1,066
1	05	05	04	02	Readiness Review - Total Energy Measurement	21-Mar-08	3-Apr-08	LL_ME2	Hrs	20			3,696		3,696	27.0%	998
1	05	05	04	02	Readiness Review - Total Energy Measurement	21-Mar-08	3-Apr-08	LL_EE2	Hrs	8			1,478		1,478	27.0%	399
1	05	05	04	02	Ship to SLAC - Total Energy Measurement	4-Apr-08	17-Apr-08	LL_PHS2	Hrs	10			1,975		1,975	27.0%	533
1	05	05	04	02	Ship to SLAC - Total Energy Measurement	4-Apr-08	17-Apr-08	LL_MFAT2	Hrs	30			4,308		4,308	27.0%	1,163
1	05	05	04	02	Ship to SLAC - Total Energy Measurement	4-Apr-08	17-Apr-08	LL_ADMN2	Hrs	4			562		562	27.0%	152
1	05	05	04	04	Low Energy Spectral Measurement System						2,234	150,000	389,759	174,247	564,006		152,282
1	05	05	04	04	Prepare Physics Specification - Low Energy Spect	1-Jun-07	15-Jun-07	LL_PHS2	Hrs	34			6,563		6,563	27.0%	1,772
1	05	05	04	04	Prepare Physics Specification - Low Energy Spect	1-Jun-07	15-Jun-07	LL_EE2	Hrs	34			6,142		6,142	27.0%	1,658
1	05	05	04	04	PRD Review - Low Energy Spectrometer	18-Jun-07	29-Jun-07	LL_PHS2	Hrs	20			3,861		3,861	27.0%	1,042
1	05	05	04	04	PRD Review - Low Energy Spectrometer	18-Jun-07	29-Jun-07	LL_EE2	Hrs	20			3,613		3,613	27.0%	976
1	05	05	04	04	Conceptual Engr/Design - Low Energy Spectrometer	6-Jun-07	9-Jul-07	LL_ME2	Hrs	32			5,781		5,781	27.0%	1,561
1	05	05	04	04	Conceptual Engr/Design - Low Energy Spectrometer	6-Jun-07	9-Jul-07	LL_MDD2	Hrs	65			10,773		10,773	27.0%	2,909
1	05	05	04	04	Conceptual Engr/Design - Low Energy Spectrometer	6-Jun-07	9-Jul-07	LL_EE2	Hrs	65			11,743		11,743	27.0%	3,171
1	05	05	04	04	Conceptual Design Review - Low Energy Spectromet	10-Jul-07	16-Jul-07	LL_ME2	Hrs	10			1,807		1,807	27.0%	488
1	05	05	04	04	Conceptual Design Review - Low Energy Spectromet	10-Jul-07	16-Jul-07	LL_MDD2	Hrs	10			1,657		1,657	27.0%	447
1	05	05	04	04	Conceptual Design Review - Low Energy Spectromet	10-Jul-07	16-Jul-07	LL_EE2	Hrs	10			1,807		1,807	27.0%	488
1	05	05	04	04	Prepare ESD - Low Energy Spectrometer	17-Jul-07	13-Aug-07	LL_PHS2	Hrs	16			3,089		3,089	27.0%	834
1	05	05	04	04	Prepare ESD - Low Energy Spectrometer	17-Jul-07	13-Aug-07	LL_ME2	Hrs	16			2,890		2,890	27.0%	780
1	05	05	04	04	Preliminary Engineering/Design - Low Energy Spec	10-Jul-07	14-Aug-07	LL_ME2	Hrs	104			18,788		18,788	27.0%	5,073
1	05	05	04	04	Preliminary Engineering/Design - Low Energy Spec	10-Jul-07	14-Aug-07	LL_MDD2	Hrs	208			34,473		34,473	27.0%	9,308
1	05	05	04	04	Preliminary Engineering/Design - Low Energy Spec	10-Jul-07	14-Aug-07	LL_EE2	Hrs	104			18,788		18,788	27.0%	5,073
1	05	05	04	04	Preliminary Design Review - Low Energy Spectrom	15-Aug-07	28-Aug-07	LL_ME2	Hrs	40			7,226		7,226	27.0%	1,951

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early	Early	Res	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont	Contingency
						Description	Start	Finish	Code		Hours	\$	Labor	M&S	Total	%	\$
1	05	05	04	04	6	Preliminary Design Review - Low Energy Spectrome	15-Aug-07	28-Aug-07	LL_MDD2	Hrs	20		3,315		3,315	27.0%	895
1	05	05	04	04	Preliminary Design Review - Low Energy Spectromer	15-Aug-07	28-Aug-07	LL_EE2	Hrs	40		7,226		7,226	27.0%	1,951	
1	05	05	04	04	Prepare seismic note - Low Energy Spectrometer	15-Aug-07	27-Sep-07	LL_ME2	Hrs	25		4,516		4,516	27.0%	1,219	
1	05	05	04	04	Prepare acceptance test plan/proced - Low Energy	15-Aug-07	28-Sep-07	LL_ME2	Hrs	26		4,697		4,697	27.0%	1,268	
1	05	05	04	04	Prepare acceptance test plan/proced - Low Energy	15-Aug-07	28-Sep-07	LL_EE2	Hrs	26		4,697		4,697	27.0%	1,268	
1	05	05	04	04	Prepare oper/maint proced - Low Energy Spectromer	15-Aug-07	28-Sep-07	LL_ME2	Hrs	26		4,697		4,697	27.0%	1,268	
1	05	05	04	04	Prepare oper/maint proced - Low Energy Spectromer	15-Aug-07	28-Sep-07	LL_EE2	Hrs	26		4,697		4,697	27.0%	1,268	
1	05	05	04	04	Final Engineering/Design - Low Energy Spectromet	15-Aug-07	10-Oct-07	LL_ME2	Hrs	160		29,012		29,012	27.0%	7,833	
1	05	05	04	04	Final Engineering/Design - Low Energy Spectromet	15-Aug-07	10-Oct-07	LL_MDD2	Hrs	320		53,232		53,232	27.0%	14,373	
1	05	05	04	04	Final Engineering/Design - Low Energy Spectromet	15-Aug-07	10-Oct-07	LL_EE2	Hrs	160		29,012		29,012	27.0%	7,833	
1	05	05	04	04	Final Design Review - Low Energy Spectrometer	11-Oct-07	24-Oct-07	LL_ME2	Hrs	40		7,392		7,392	27.0%	1,996	
1	05	05	04	04	Final Design Review - Low Energy Spectrometer	11-Oct-07	24-Oct-07	LL_MDD2	Hrs	20		3,391		3,391	27.0%	916	
1	05	05	04	04	Final Design Review - Low Energy Spectrometer	11-Oct-07	24-Oct-07	LL_EE2	Hrs	40		7,392		7,392	27.0%	1,996	
1	05	05	04	04	Bid Prep/RFP/Award - Low Energy Spectrometer	11-Oct-07	26-Dec-07	LL_ME2	Hrs	42		7,762		7,762	27.0%	2,096	
1	05	05	04	04	Bid Prep/RFP/Award - Low Energy Spectrometer	11-Oct-07	26-Dec-07	LL_EE2	Hrs	42		7,762		7,762	27.0%	2,096	
1	05	05	04	04	Bid Prep/RFP/Award - Low Energy Spectrometer	11-Oct-07	26-Dec-07	LL_ADMN2	Hrs	83		11,653		11,653	27.0%	3,146	
1	05	05	04	04	AWARD: Low Energy Spectrometer	2-Jan-08	2-Jan-08	LL_AWARD	\$\$			171,000		226,593	226,593	27.0%	61,180
1	05	05	04	04	Fab/Deliver - Low Energy Spectrometer	3-Jan-08	4-Apr-08	LL_ME2	Hrs	26			4,805		4,805	27.0%	1,297
1	05	05	04	04	Fab/Deliver - Low Energy Spectrometer	3-Jan-08	4-Apr-08	LL_MDD2	Hrs	26			4,408		4,408	27.0%	1,190
1	05	05	04	04	Fab/Deliver - Low Energy Spectrometer	3-Jan-08	4-Apr-08	LL_EE2	Hrs	26			4,805		4,805	27.0%	1,297
1	05	05	04	04	Fab/Deliver - Low Energy Spectrometer	3-Jan-08	4-Apr-08	LL_ADMN2	Hrs	26			3,650		3,650	27.0%	986
1	05	05	04	04	Fab/Deliver - Low Energy Spectrometer	3-Jan-08	4-Apr-08	LA_MSEQ2	\$\$			150,000		174,247	174,247	27.0%	47,047
1	05	05	04	04	Test @ LLNL - Low Energy Spectrometer	7-Apr-08	16-May-08	LL_MFAT2	Hrs	30			4,308		4,308	27.0%	1,163
1	05	05	04	04	Test @ LLNL - Low Energy Spectrometer	7-Apr-08	16-May-08	LL_ME2	Hrs	30			5,544		5,544	27.0%	1,497
1	05	05	04	04	Test @ LLNL - Low Energy Spectrometer	7-Apr-08	16-May-08	LL_EE2	Hrs	120			22,177		22,177	27.0%	5,988
1	05	05	04	04	Readiness Review - Low Energy Spectrometer	19-May-08	2-Jun-08	LL_MFAT2	Hrs	10			1,436		1,436	27.0%	388
1	05	05	04	04	Readiness Review - Low Energy Spectrometer	19-May-08	2-Jun-08	LL_ME2	Hrs	10			1,848		1,848	27.0%	499
1	05	05	04	04	Readiness Review - Low Energy Spectrometer	19-May-08	2-Jun-08	LL_EE2	Hrs	10			1,848		1,848	27.0%	499
1	05	05	04	04	Ship to SLAC - Low Energy Spectrometer	3-Jun-08	16-Jun-08	LL_MFAT2	Hrs	20			2,872		2,872	27.0%	775
1	05	05	04	04	Ship to SLAC - Low Energy Spectrometer	3-Jun-08	16-Jun-08	LL_ME2	Hrs	4			739		739	27.0%	200
1	05	05	04	04	Ship to SLAC - Low Energy Spectrometer	3-Jun-08	16-Jun-08	LL_EE2	Hrs	4			739		739	27.0%	200
1	05	05	04	04	Ship to SLAC - Low Energy Spectrometer	3-Jun-08	16-Jun-08	LL_ADMN2	Hrs	8			1,123		1,123	27.0%	303
1	05	05	04	05	PopUp Cameras						1,862	49,000	320,395	56,921	377,315		83,009
1	05	05	04	05	Prepare Physics Specification - PopUp Cameras	1-May-07	29-Jun-07	LL_PHS2	Hrs	40			7,721		7,721	22.0%	1,699
1	05	05	04	05	Prepare Physics Specification - PopUp Cameras	1-May-07	29-Jun-07	LL_EE2	Hrs	40			7,226		7,226	22.0%	1,590
1	05	05	04	05	PRD Review - PopUp Cameras	2-Jul-07	9-Jul-07	LL_PHS2	Hrs	10			1,930		1,930	22.0%	425
1	05	05	04	05	PRD Review - PopUp Cameras	2-Jul-07	9-Jul-07	LL_EE2	Hrs	10			1,807		1,807	22.0%	397
1	05	05	04	05	Conceptual Engr/Design - PopUp Cameras	8-Jun-07	9-Jul-07	LL_ME2	Hrs	20			3,613		3,613	22.0%	795
1	05	05	04	05	Conceptual Engr/Design - PopUp Cameras	8-Jun-07	9-Jul-07	LL_MDD2	Hrs	80			13,259		13,259	22.0%	2,917
1	05	05	04	05	Conceptual Engr/Design - PopUp Cameras	8-Jun-07	9-Jul-07	LL_EE2	Hrs	20			3,613		3,613	22.0%	795
1	05	05	04	05	Conceptual Design Review - PopUp Cameras	10-Jul-07	23-Jul-07	LL_ME2	Hrs	10			1,807		1,807	22.0%	397
1	05	05	04	05	Conceptual Design Review - PopUp Cameras	10-Jul-07	23-Jul-07	LL_MDD2	Hrs	20			3,315		3,315	22.0%	729
1	05	05	04	05	Conceptual Design Review - PopUp Cameras	10-Jul-07	23-Jul-07	LL_EE2	Hrs	10			1,807		1,807	22.0%	397
1	05	05	04	05	Prepare ESD - PopUp Cameras	24-Jul-07	20-Aug-07	LL_PHS2	Hrs	16			3,089		3,089	22.0%	679
1	05	05	04	05	Prepare ESD - PopUp Cameras	24-Jul-07	20-Aug-07	LL_ME2	Hrs	16			2,890		2,890	22.0%	636
1	05	05	04	05	Preliminary Engineering/Design - PopUp Cameras	24-Jul-07	4-Sep-07	LL_ME2	Hrs	45			8,130		8,130	22.0%	1,788
1	05	05	04	05	Preliminary Engineering/Design - PopUp Cameras	24-Jul-07	4-Sep-07	LL_MDD2	Hrs	180			29,833		29,833	22.0%	6,563
1	05	05	04	05	Preliminary Engineering/Design - PopUp Cameras	24-Jul-07	4-Sep-07	LL_EE2	Hrs	45			8,130		8,130	22.0%	1,788
1	05	05	04	05	Preliminary Design Review - PopUp Cameras	5-Sep-07	18-Sep-07	LL_ME2	Hrs	10			1,807		1,807	22.0%	397
1	05	05	04	05	Preliminary Design Review - PopUp Cameras	5-Sep-07	18-Sep-07	LL_MDD2	Hrs	20			3,315		3,315	22.0%	729
1	05	05	04	05	Preliminary Design Review - PopUp Cameras	5-Sep-07	18-Sep-07	LL_EE2	Hrs	10			1,807		1,807	22.0%	397
1	05	05	04	05	Prepare seismic note - PopUp Cameras	5-Sep-07	30-Oct-07	LL_ME2	Hrs	32			5,851		5,851	22.0%	1,287
1	05	05	04	05	Prepare acceptance test plan/proced - PopUp Came	5-Sep-07	16-Oct-07	LL_ME2	Hrs	24			4,372		4,372	22.0%	962
1	05	05	04	05	Prepare acceptance test plan/proced - PopUp Came	5-Sep-07	16-Oct-07	LL_EE2	Hrs	24			4,372		4,372	22.0%	962
1	05	05	04	05	Prepare oper/maint proced - PopUp Cameras	5-Sep-07	16-Oct-07	LL_ME2	Hrs	24			4,372		4,372	22.0%	962
1	05	05	04	05	Prepare oper/maint proced - PopUp Cameras	5-Sep-07	16-Oct-07	LL_EE2	Hrs	24			4,372		4,372	22.0%	962
1	05	05	04	05	Final Engineering/Design - PopUp Cameras	19-Sep-07	6-Nov-07	LL_ME2	Hrs	98			18,010		18,010	22.0%	3,962
1	05	05	04	05	Final Engineering/Design - PopUp Cameras	19-Sep-07	6-Nov-07	LL_MDD2	Hrs	392			66,090		66,090	22.0%	14,540
1	05	05	04	05	Final Engineering/Design - PopUp Cameras	19-Sep-07	6-Nov-07	LL_EE2	Hrs	98			18,010		18,010	22.0%	3,962
1	05	05	04	05	Final Design Review - PopUp Cameras	14-Nov-07	29-Nov-07	LL_ME2	Hrs	20			3,696		3,696	22.0%	813
1	05	05	04	05	Final Design Review - PopUp Cameras	14-Nov-07	29-Nov-07	LL_MDD2	Hrs	20			3,391		3,391	22.0%	746
1	05	05	04	05	Final Design Review - PopUp Cameras	14-Nov-07	29-Nov-07	LL_EE2	Hrs	20			3,696		3,696	22.0%	813
1	05	05	04	05	Bid Prep/RFP/Award - PopUp Cameras	7-Nov-07	7-Jan-08	LL_ME2	Hrs	24			4,435		4,435	22.0%	976
1	05	05	04	05	Bid Prep/RFP/Award - PopUp Cameras	7-Nov-07	7-Jan-08	LL_EE2	Hrs	24			4,435		4,435	22.0%	976
1	05	05	04	05	Bid Prep/RFP/Award - PopUp Cameras	7-Nov-07	7-Jan-08	LL_ADMN2	Hrs	48			6,739		6,739	22.0%	1,483
1	05	05	04	05	AWARD: PopUp Cameras	8-Jan-08	8-Jan-08	LL_AWARD	\$\$			55,860		74,020	74,020	22.0%	16,284
1	05	05	04	05	Fab/Deliver - PopUp Cameras	9-Jan-08	3-Apr-08	LL_ME2	Hrs	46			8,501		8,501	22.0%	1,870
1	05	05	04	05	Fab/Deliver - PopUp Cameras	9-Jan-08	3-Apr-08	LL_EE2	Hrs	46			8,501		8,501	22.0%	1,870
1	05	05	04	05	Fab/Deliver - PopUp Cameras	9-Jan-08	3-Apr-08	LL_ADMN2	Hrs	46			6,458		6,458	22.0%	1,421
1	05	05	04	05	Fab/Deliver - PopUp Cameras	9-Jan-08	3-Apr-08	LA_MSEQ2	\$\$			49,000		56,921	56,921	22.0%	12,523
1	05	05	04	05	Test @ LLNL - PopUp Cameras	14-Feb-08	10-Apr-08	LL_MFAT2	Hrs	112			16,083		16,083	22.0%	3,538
1	05	05	04	05	Test @ LLNL - PopUp Cameras	14-Feb-08	10-Apr-08	LL_ME2	Hrs	22			4,066		4,066	22.0%	894

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont %	Contingency \$
Description										Hours	\$	Labor	M&S	Total			
1	05	05	04	05	6	Test @ LLNL - Popup Cameras	14-Feb-08	10-Apr-08	LL_EE2	Hrs	56		10,349		10,349	22.0%	2,277
1	05	05	04	05	Readiness Review - Popup Cameras	11-Apr-08	24-Apr-08	LL_MFAT2	Hrs	10		1,436		1,436	22.0%	316	
1	05	05	04	05	Readiness Review - Popup Cameras	11-Apr-08	24-Apr-08	LL_ME2	Hrs	4		739		739	22.0%	163	
1	05	05	04	05	Readiness Review - Popup Cameras	11-Apr-08	24-Apr-08	LL_EE2	Hrs	10		1,848		1,848	22.0%	407	
1	05	05	04	05	Ship to SLAC - Popup Cameras	25-Apr-08	8-May-08	LL_MFAT2	Hrs	20		2,872		2,872	22.0%	632	
1	05	05	04	05	Ship to SLAC - Popup Cameras	25-Apr-08	8-May-08	LL_ME2	Hrs	4		739		739	22.0%	163	
1	05	05	04	05	Ship to SLAC - Popup Cameras	25-Apr-08	8-May-08	LL_EE2	Hrs	4		739		739	22.0%	163	
1	05	05	04	05	Ship to SLAC - Popup Cameras	25-Apr-08	8-May-08	LL_ADMN2	Hrs	8		1,123		1,123	22.0%	247	
1	05	05	04	06	K Measurement System						1,589	220,000	292,177	255,562	547,740		147,890
1	05	05	04	06	Prepare Specification - K Measurement	1-May-07	31-May-07	LL_PHS2	Hrs	4		772		772	27.0%	208	
1	05	05	04	06	Conceptual Design - K Meas.	1-May-07	31-May-07	LL_PHS2	Hrs	2		386		386	27.0%	104	
1	05	05	04	06	Conceptual Design - K Meas.	1-May-07	31-May-07	LL_ME2	Hrs	2		361		361	27.0%	98	
1	05	05	04	06	Conceptual Design - K Meas.	1-May-07	31-May-07	LL_MDD2	Hrs	2		331		331	27.0%	89	
1	05	05	04	06	Conceptual Design Review - K Meas.	1-Jun-07	28-Jun-07	LL_PHS2	Hrs	40		7,721		7,721	27.0%	2,085	
1	05	05	04	06	Conceptual Design Review - K Meas.	1-Jun-07	28-Jun-07	LL_ME2	Hrs	16		2,890		2,890	27.0%	780	
1	05	05	04	06	Conceptual Design Review - K Meas.	1-Jun-07	28-Jun-07	LL_MDD2	Hrs	40		6,629		6,629	27.0%	1,790	
1	05	05	04	06	Prepare ESD - K Measurement	29-Jun-07	27-Jul-07	LL_PHS2	Hrs	16		3,089		3,089	27.0%	834	
1	05	05	04	06	Prepare ESD - K Measurement	29-Jun-07	27-Jul-07	LL_ME2	Hrs	16		2,890		2,890	27.0%	780	
1	05	05	04	06	Preliminary Design - K Meas.	29-Jun-07	24-Aug-07	LL_PHS2	Hrs	40		7,721		7,721	27.0%	2,085	
1	05	05	04	06	Preliminary Design - K Meas.	29-Jun-07	24-Aug-07	LL_ME2	Hrs	80		14,452		14,452	27.0%	3,902	
1	05	05	04	06	Preliminary Design - K Meas.	29-Jun-07	24-Aug-07	LL_MDD2	Hrs	80		13,259		13,259	27.0%	3,580	
1	05	05	04	06	Preliminary Design Review - K Meas.	27-Aug-07	24-Sep-07	LL_PHS2	Hrs	40		7,721		7,721	27.0%	2,085	
1	05	05	04	06	Preliminary Design Review - K Meas.	27-Aug-07	24-Sep-07	LL_ME2	Hrs	16		2,890		2,890	27.0%	780	
1	05	05	04	06	Preliminary Design Review - K Meas.	27-Aug-07	24-Sep-07	LL_MDD2	Hrs	40		6,629		6,629	27.0%	1,790	
1	05	05	04	06	Final Design - K Meas.	25-Sep-07	19-Nov-07	LL_PHS2	Hrs	40		7,880		7,880	27.0%	2,127	
1	05	05	04	06	Final Design - K Meas.	25-Sep-07	19-Nov-07	LL_ME2	Hrs	80		14,749		14,749	27.0%	3,982	
1	05	05	04	06	Final Design - K Meas.	25-Sep-07	19-Nov-07	LL_MDD2	Hrs	120		20,296		20,296	27.0%	5,480	
1	05	05	04	06	Final Design Review - K Meas.	20-Nov-07	19-Dec-07	LL_PHS2	Hrs	40		7,899		7,899	27.0%	2,133	
1	05	05	04	06	Final Design Review - K Meas.	20-Nov-07	19-Dec-07	LL_ME2	Hrs	16		2,957		2,957	27.0%	798	
1	05	05	04	06	Final Design Review - K Meas.	20-Nov-07	19-Dec-07	LL_MDD2	Hrs	40		6,782		6,782	27.0%	1,831	
1	05	05	04	06	Prepare Bid Docs - Goniometer	20-Dec-07	8-Jan-08	LL_PHS2	Hrs	10		1,975		1,975	27.0%	533	
1	05	05	04	06	Bid and Award - Goniometer (3)	9-Jan-08	21-Feb-08	LL_PHS2	Hrs	30		5,924		5,924	27.0%	1,600	
1	05	05	04	06	AWARD: Goniometer (3)	22-Feb-08	22-Feb-08	LL_AWARD	\$\$		51,300		67,978	67,978	27.0%	18,354	
1	05	05	04	06	Fab and Deliver - Goniometer (3)	25-Feb-08	16-May-08	LA_MSEQ2	\$\$		45,000		52,274	52,274	27.0%	14,114	
1	05	05	04	06	Prepare Bid Docs - Vac. Tank (1)	20-Dec-07	8-Jan-08	LL_PHS2	Hrs	10		1,975		1,975	27.0%	533	
1	05	05	04	06	Bid and Award - Vac. Tank (1)	9-Jan-08	21-Feb-08	LL_PHS2	Hrs	30		5,924		5,924	27.0%	1,600	
1	05	05	04	06	AWARD: Vac. Tank (1)	22-Feb-08	22-Feb-08	LL_AWARD	\$\$		45,600		60,425	60,425	27.0%	16,315	
1	05	05	04	06	Fab and Deliver - Vac. Tank (1)	25-Feb-08	16-May-08	LA_MSEQ2	\$\$		40,000		46,466	46,466	27.0%	12,546	
1	05	05	04	06	Prepare Bid Docs - Detector & Electronics	20-Dec-07	8-Jan-08	LL_PHS2	Hrs	10		1,975		1,975	27.0%	533	
1	05	05	04	06	Bid and Award - Detector & Electronics	9-Jan-08	21-Feb-08	LL_PHS2	Hrs	30		5,924		5,924	27.0%	1,600	
1	05	05	04	06	AWARD: Detector & Electronics	22-Feb-08	22-Feb-08	LL_AWARD	\$\$		57,000		75,531	75,531	27.0%	20,393	
1	05	05	04	06	Fab and Deliver - Detector & Electronics	25-Feb-08	16-May-08	LA_MSEQ2	\$\$		50,000		58,082	58,082	27.0%	15,682	
1	05	05	04	06	Prepare Bid Docs - Stand & misc.	20-Dec-07	8-Jan-08	LL_PHS2	Hrs	10		1,975		1,975	27.0%	533	
1	05	05	04	06	Bid and Award - Stand & misc.	9-Jan-08	21-Feb-08	LL_PHS2	Hrs	30		5,924		5,924	27.0%	1,600	
1	05	05	04	06	AWARD: Stand & misc.	22-Feb-08	22-Feb-08	LL_AWARD	\$\$		45,600		60,425	60,425	27.0%	16,315	
1	05	05	04	06	Fab and Deliver - Stand & misc.	25-Feb-08	16-May-08	LA_MSEQ2	\$\$		40,000		46,466	46,466	27.0%	12,546	
1	05	05	04	06	Prepare Bid Docs - Pumps & Valves	20-Dec-07	8-Jan-08	LL_PHS2	Hrs	10		1,975		1,975	27.0%	533	
1	05	05	04	06	Bid and Award - Pumps & Valves	9-Jan-08	21-Feb-08	LL_PHS2	Hrs	30		5,924		5,924	27.0%	1,600	
1	05	05	04	06	AWARD: Pumps & Valves	22-Feb-08	22-Feb-08	LL_AWARD	\$\$		28,500		37,765	37,765	27.0%	10,197	
1	05	05	04	06	Fab and Deliver - Pumps & Valves	25-Feb-08	16-May-08	LA_MSEQ2	\$\$		25,000		29,041	29,041	27.0%	7,841	
1	05	05	04	06	Prepare Bid Docs - Electronics & Software	20-Dec-07	8-Jan-08	LL_PHS2	Hrs	10		1,975		1,975	27.0%	533	
1	05	05	04	06	Prepare Bid Docs - Multilayers	25-Sep-07	8-Oct-07	LL_PHS2	Hrs	10		1,954		1,954	27.0%	528	
1	05	05	04	06	Bid and Award - Multilayers	9-Oct-07	19-Nov-07	LL_PHS2	Hrs	30		5,924		5,924	27.0%	1,600	
1	05	05	04	06	AWARD: Multilayers	20-Nov-07	20-Nov-07	LL_AWARD	\$\$		22,800		30,212	30,212	27.0%	8,157	
1	05	05	04	06	Fab and Deliver - Multilayers	21-Nov-07	23-May-08	LL_ME2	Hrs	409		75,588		75,588	27.0%	20,409	
1	05	05	04	06	Fab and Deliver - Multilayers	21-Nov-07	23-May-08	LA_MSEG2	\$\$		20,000		23,233	23,233	27.0%	6,273	
1	05	05	04	06	Assemble and Test - K Meas.	27-May-08	23-Jun-08	LL_PHS2	Hrs	80		15,798		15,798	27.0%	4,265	
1	05	05	04	06	Assemble and Test - K Meas.	27-May-08	23-Jun-08	LL_MFAT2	Hrs	40		5,744		5,744	27.0%	1,551	
1	05	05	04	06	Assemble and Test - K Meas.	27-May-08	23-Jun-08	LL_ME2	Hrs	40		7,392		7,392	27.0%	1,996	
1	05	06			X-Ray Transport System Installation & Alignment						8,118		888,970			150,464	
1	05	06	01		Front End Enclosure Install						3,230		380,931			64,758	
1	05	06	01		Network & Monumentation- FEE	21-Dec-07	3-Jan-08	SL_MES2	Hrs	144		11,793		11,793	17.0%	2,005	
1	05	06	01		Hole template layout - FEE	4-Jan-08	8-Jan-08	SL_MES2	Hrs	120		9,828		9,828	17.0%	1,671	
1	05	06	01		Core drill holes: FEE	9-Jan-08	15-Jan-08	SL_TMUP2	Hrs	80		7,504		7,504	17.0%	1,276	
1	05	06	01		Install, align & grout supports: FEE	16-Jan-08	18-Jan-08	SL_TMUP2	Hrs	80		7,504		7,504	17.0%	1,276	
1	05	06	01		Install Racks & cable plant FEE	22-Jan-08	25-Mar-08	SL_TMUP2	Hrs	176		16,509		16,509	17.0%	2,806	
1	05	06	01		Install FEE components - XT	21-Jul-08	13-Oct-08	SL_TMUP2	Hrs	448		42,160		42,160	17.0%	7,167	
1	05	06	01		Install FEE components - XT	21-Jul-08	13-Oct-08	SL_MVE2	Hrs	4		435		435	17.0%	74	
1	05	06	01		Install FEE components - XT	21-Jul-08	13-Oct-08	SL_MFAT2	Hrs	944		83,258		83,258	17.0%	14,154	
1	05	06	01		Install FEE components - XT	21-Jul-08	13-Oct-08	SL_MES2	Hrs	288		23,664		23,664	17.0%	4,023	
1	05	06	01		Install FEE components - XT	21-Jul-08	13-Oct-08	LL_PHS2	Hrs	226		44,776		44,776	17.0%	7,612	
1	05	06	01		Install FEE components - XT	21-Jul-08	13-Oct-08	LL_ME2	Hrs	409		75,836		75,836	17.0%	12,892	

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escldt Cost			Cont %	Contingency \$	
Description											Hours	\$	Labor	M&S	Total			
1	05	06	01	5	6	Install FEE components - XT	21-Jul-08	13-Oct-08	LL_EE2	Hrs	53			9,827		9,827	17.0%	1,671
1	05	06	01			Install FEE components - XT	21-Jul-08	13-Oct-08	LL_CE2	Hrs	258		47,838		47,838	17.0%	8,132	
1	05	06	02			Near Hall Install					1,916	-	187,219	-	187,219		31,827	
1	05	06	02			Network & Monumentation- NEH	21-Dec-07	7-Jan-08	SL_MES2	Hrs	144		11,793		11,793	17.0%	2,005	
1	05	06	02			Hole template layout - NEH	8-Jan-08	11-Jan-08	SL_MES2	Hrs	96		7,862		7,862	17.0%	1,337	
1	05	06	02			Core drill holes: NEH	14-Jan-08	18-Jan-08	SL_TMUP2	Hrs	64		6,003		6,003	17.0%	1,021	
1	05	06	02			Install NEH components - XT	28-Apr-08	9-Jun-08	SL_TMUP2	Hrs	144		13,507		13,507	17.0%	2,296	
1	05	06	02			Install NEH components - XT	28-Apr-08	9-Jun-08	SL_MVE2	Hrs	40		4,333		4,333	17.0%	737	
1	05	06	02			Install NEH components - XT	28-Apr-08	9-Jun-08	SL_MFAT2	Hrs	448		39,383		39,383	17.0%	6,695	
1	05	06	02			Install NEH components - XT	28-Apr-08	9-Jun-08	SL_MES2	Hrs	112		9,173		9,173	17.0%	1,559	
1	05	06	02			Install NEH components - XT	28-Apr-08	9-Jun-08	LL_PHS2	Hrs	20		3,949		3,949	17.0%	671	
1	05	06	02			Install NEH components - XT	28-Apr-08	9-Jun-08	LL_ME2	Hrs	104		19,220		19,220	17.0%	3,267	
1	05	06	02			Terminate cable plant NEH - XT	14-Oct-08	10-Nov-08	SL_TMUP2	Hrs	96		9,212		9,212	17.0%	1,566	
1	05	06	02			Checkout NEH System - XT	11-Nov-08	10-Dec-08	SL_MVE2	Hrs	216		23,934		23,934	17.0%	4,069	
1	05	06	02			Checkout NEH System - XT	11-Nov-08	10-Dec-08	SL_MFAT2	Hrs	432		38,850		38,850	17.0%	6,604	
1	05	06	03			Tunnel Install					1,720	-	186,294	-	186,294		31,670	
1	05	06	03			Network & Monumentation- X-ray tunnel	1-Oct-08	14-Oct-08	SL_MES2	Hrs	144		12,065		12,065	17.0%	2,051	
1	05	06	03			Hole template layout - X-ray tunnel	15-Oct-08	21-Oct-08	SL_MES2	Hrs	144		12,065		12,065	17.0%	2,051	
1	05	06	03			Core drill holes: X-Ray tunnel	22-Oct-08	4-Nov-08	SL_TMUP2	Hrs	48		4,606		4,606	17.0%	783	
1	05	06	03			Install Racks & cable plant X-Ray	5-Dec-08	2-Mar-09	SL_TMUP2	Hrs	304		29,171		29,171	17.0%	4,959	
1	05	06	03			Install Racks & cable plant X-Ray	5-Dec-08	2-Mar-09	SL_TMUE2	Hrs	64		6,412		6,412	17.0%	1,090	
1	05	06	03			Install X-ray tunnel components - XT	12-Jun-09	10-Jul-09	SL_TMUP2	Hrs	176		16,888		16,888	17.0%	2,871	
1	05	06	03			Install X-ray tunnel components - XT	12-Jun-09	10-Jul-09	SL_MFAT2	Hrs	280		25,180		25,180	17.0%	4,281	
1	05	06	03			Install X-ray tunnel components - XT	12-Jun-09	10-Jul-09	SL_MES2	Hrs	96		8,043		8,043	17.0%	1,367	
1	05	06	03			Install X-ray tunnel components - XT	12-Jun-09	10-Jul-09	LL_ME2	Hrs	56		10,587		10,587	17.0%	1,800	
1	05	06	03			Checkout X-Ray tunnel systems - XT	10-Aug-09	4-Sep-09	SL_MFAT2	Hrs	160		14,389		14,389	17.0%	2,446	
1	05	06	03			Checkout X-Ray tunnel systems - XT	10-Aug-09	4-Sep-09	LL_ME2	Hrs	96		18,150		18,150	17.0%	3,085	
1	05	06	03			Checkout X-Ray tunnel systems - XT	10-Aug-09	4-Sep-09	LL_EE2	Hrs	56		10,587		10,587	17.0%	1,800	
1	05	06	03			Checkout X-Ray tunnel systems - XT	10-Aug-09	4-Sep-09	LL_CE2	Hrs	96		18,150		18,150	17.0%	3,085	
1	05	06	04			Far Hall Install					1,124	-	121,304	-	121,304		20,622	
1	05	06	04			Network & Monumentation- FEH	1-Oct-08	7-Oct-08	SL_MES2	Hrs	144		12,065		12,065	17.0%	2,051	
1	05	06	04			Hole template layout - FEH	8-Oct-08	9-Oct-08	SL_MES2	Hrs	96		8,043		8,043	17.0%	1,367	
1	05	06	04			Core drill holes: FEH	10-Oct-08	16-Oct-08	SL_TMUP2	Hrs	64		6,141		6,141	17.0%	1,044	
1	05	06	04			Install Racks & cable plant FEH	24-Oct-08	8-Apr-09	SL_TMUP2	Hrs	176		16,888		16,888	17.0%	2,871	
1	05	06	04			Install FEH components - XT	2-Jul-09	16-Oct-09	SL_TMUP2	Hrs	96		9,242		9,242	17.0%	1,571	
1	05	06	04			Install FEH components - XT	2-Jul-09	16-Oct-09	SL_MFAT2	Hrs	216		19,488		19,488	17.0%	3,313	
1	05	06	04			Install FEH components - XT	2-Jul-09	16-Oct-09	SL_MES2	Hrs	48		4,035		4,035	17.0%	686	
1	05	06	04			Install FEH components - XT	2-Jul-09	16-Oct-09	LL_ME2	Hrs	64		12,139		12,139	17.0%	2,064	
1	05	06	04			Checkout Far Hall systems - XT	16-Nov-09	11-Dec-09	SL_MVE2	Hrs	40		4,534		4,534	17.0%	771	
1	05	06	04			Checkout Far Hall systems - XT	16-Nov-09	11-Dec-09	SL_MFAT2	Hrs	60		5,520		5,520	17.0%	938	
1	05	06	04			Checkout Far Hall systems - XT	16-Nov-09	11-Dec-09	LL_ME2	Hrs	60		11,605		11,605	17.0%	1,973	
1	05	06	04			Checkout Far Hall systems - XT	16-Nov-09	11-Dec-09	LL_CE2	Hrs	60		11,605		11,605	17.0%	1,973	
1	05	06	05			Electron Dump Enclosure Install					128	-	13,222	-	13,222		1,587	
1	05	06	05			Install Dump components - XT	21-Apr-08	15-Jul-08	SL_TMUP2	Hrs	32		3,002		3,002	12.0%	360	
1	05	06	05			Install Dump components - XT	21-Apr-08	15-Jul-08	SL_MVE2	Hrs	16		1,733		1,733	12.0%	208	
1	05	06	05			Install Dump components - XT	21-Apr-08	15-Jul-08	SL_MFAT2	Hrs	48		4,220		4,220	12.0%	506	
1	05	06	05			Install Dump components - XT	21-Apr-08	15-Jul-08	SL_MES2	Hrs	16		1,310		1,310	12.0%	157	
1	05	06	05			Install Dump components - XT	21-Apr-08	15-Jul-08	LL_CE2	Hrs	16		2,957		2,957	12.0%	355	
1	06					X-RAY END STATION SYSTEMS					86,350	5,957,674	8,009,441	6,590,898	14,600,339		3,778,850	
1	06	01				System Management & Integration					3,336	45,980	317,541	57,444	374,985		80,741	
1	06	01	01			Management					3,336	45,980	317,541	57,444	374,985		80,741	
1	06	01	01			Management & Oversight - FY07	1-May-07	28-Sep-07	SL_EE2	Hrs	744		69,154		69,154	20.0%	13,831	
1	06	01	01			Management & Oversight - FY08	1-Oct-07	30-Sep-08	SL_EE2	Hrs	1,712		162,787		162,787	20.0%	32,557	
1	06	01	01			Management & Oversight - Oct09	1-Oct-08	31-Oct-08	SL_EE2	Hrs	162		15,758		15,758	20.0%	3,152	
1	06	01	01			Management & Oversight - Nov08 thru Aug09	3-Nov-08	31-Aug-09	SL_EE2	Hrs	718		69,842		69,842	20.0%	13,968	
1	06	01	01			Travel & Misc Expenses - FY07	1-May-07	28-Sep-07	SL_MSTR2	\$\$		13,140		16,131	30.0%	4,839		
1	06	01	01			Travel & Misc Expenses - Oct07 thru Oct08	1-Oct-07	31-Oct-08	SL_MSTR2	\$\$		32,840		41,313	30.0%	12,394		
1	06	02				XES Controls					44,865	3,111,990	4,000,776	3,438,923	7,439,699		1,888,820	
1	06	02	01			Controls Management					19,217	470,980	1,700,448	540,651	2,241,099		560,275	
1	06	02	01			Travel - FY07	1-May-07	28-Sep-07	SL_MSTR2	\$\$		14,400		17,677	25.0%	4,419		
1	06	02	01			Travel - FY08	1-Oct-07	30-Sep-08	SL_MSTR2	\$\$		40,000		50,233	25.0%	12,558		
1	06	02	01			Travel - FY09	1-Oct-08	30-Sep-09	SL_MSTR2	\$\$		40,000		51,389	25.0%	12,847		
1	06	02	01			Travel - FY10	1-Oct-09	31-May-10	SL_MSTR2	\$\$		26,580		34,933	25.0%	8,733		
1	06	02	01			Add'l Manpower due to CR	1-May-07	31-May-10	SL_CT2	Hrs	3,376		216,161		216,161	25.0%	54,040	
1	06	02	01			Add'l Manpower due to CR	1-May-07	31-May-10	SL_CP2	Hrs	11,627		991,446		991,446	25.0%	247,861	
1	06	02	01			Add'l Manpower due to CR	1-May-07	31-May-10	SL_CE2	Hrs	4,214		492,842		492,842	25.0%	123,210	
1	06	02	01			Misc. Test Equipment - FY07	1-May-07	28-Sep-07	SL_MSEG2	\$\$		50,000		53,605	25.0%	13,401		
1	06	02	01			Misc. Test Equipment - FY08	1-Oct-07	30-Sep-08	SL_MSEG2	\$\$		150,000		164,514	25.0%	41,129		
1	06	02	01			Misc. Test Equipment - FY09	1-Oct-08	30-Sep-09	SL_MSEG2	\$\$		150,000		168,298	25.0%	42,075		
1	06	02	07			AMOS Experiment Controls X1					8,213	875,650	723,340	961,747	1,685,087		421,272	
1	06	02	07	01		AMOS Experiment Controls X1					1,656	-	147,721	-	147,721		36,930	
1	06	02	07	01		Develop AMOS Controls ICs	1-May-07	18-Jun-07	SL_CP2	Hrs	48		3,944		3,944	25.0%	986	

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escldt Cost			Cont %	Contingency \$	
Description											Hours	\$	Labor	M&S	Total			
1	06	02	07	01	6	Controls AMOS Preliminary Design	1-May-07	11-Jul-07	SL_CP2	Hrs	208			17,091		17,091	25.0%	4,273
1	06	02	07	01	Preliminary Design Review (PDR)	12-Jul-07	8-Aug-07	SL_CP2	Hrs	40			3,287		3,287	25.0%	822	
1	06	02	07	01	Controls AMOS Final Design	9-Aug-07	2-Jan-08	SL_CP2	Hrs	960			80,039		80,039	25.0%	20,010	
1	06	02	07	01	Final Design Review (FDR)	3-Jan-08	16-Jan-08	SL_CP2	Hrs	80			6,725		6,725	25.0%	1,681	
1	06	02	07	01	Controls AMOS Prototype Development	12-Jul-07	27-Mar-08	SL_CE2	Hrs	320			36,634		36,634	25.0%	9,159	
1	06	02	07	02	X-Ray Fluorescence Detector						783	54,200	70,081	60,812	130,893		32,723	
1	06	02	07	02	Xray Fluorescence Detector Control Software	5-Jan-09	29-Jun-09	SL_CP2	Hrs	261			22,444		22,444	25.0%	5,611	
1	06	02	07	02	RCV: Crate/CPU/EVR	30-Mar-09	30-Mar-09	SL_MSEG2	\$\$			9,000		10,098		10,098	25.0%	2,524
1	06	02	07	02	RCV: I/O	30-Mar-09	30-Mar-09	SL_MSEG2	\$\$			2,000		2,244		2,244	25.0%	561
1	06	02	07	02	RCV: Gammadata XES350	30-Mar-09	30-Mar-09	SL_MSEG2	\$\$			35,000		39,270		39,270	25.0%	9,817
1	06	02	07	02	RCV: Motor Controllers	30-Mar-09	30-Mar-09	SL_MSEG2	\$\$			8,000		8,976		8,976	25.0%	2,244
1	06	02	07	02	RCV: Interrick Cables	30-Mar-09	30-Mar-09	SL_MSEG2	\$\$			200		224		224	25.0%	56
1	06	02	07	02	Xray Fluorescence Detector H/W Build	31-Mar-09	7-Jul-09	SL_CT2	Hrs	261			16,853		16,853	25.0%	4,213	
1	06	02	07	02	Xray Fluorescence Detector H/W Build	31-Mar-09	7-Jul-09	SL_CE2	Hrs	261			30,784		30,784	25.0%	7,696	
1	06	02	07	03	Ion Imaging & Electron TOF						1,044	285,400	90,445	313,016	403,461		100,865	
1	06	02	07	03	Ion Imaging & Electron TOF Software	18-Jan-08	17-Jul-08	SL_CP2	Hrs	522			43,880		43,880	25.0%	10,970	
1	06	02	07	03	RCV: Crate/CPU/EVR	15-Apr-08	15-Apr-08	SL_MSEG2	\$\$			9,000		9,871		9,871	25.0%	2,468
1	06	02	07	03	RCV: I/O	15-Apr-08	15-Apr-08	SL_MSEG2	\$\$			2,000		2,194		2,194	25.0%	548
1	06	02	07	03	RCV: Delay Line Anode Detector	15-Apr-08	15-Apr-08	SL_MSEG2	\$\$			2,400		2,632		2,632	25.0%	658
1	06	02	07	03	RCV: Electronics for Detector	15-Apr-08	15-Apr-08	SL_MSEG2	\$\$			9,600		10,529		10,529	25.0%	2,632
1	06	02	07	03	RCV:HV Pulser	15-Apr-08	15-Apr-08	SL_MSEG2	\$\$			25,000		27,419		27,419	25.0%	6,855
1	06	02	07	03	RCV: Power Supplies	15-Apr-08	15-Apr-08	SL_MSEG2	\$\$			15,000		16,451		16,451	25.0%	4,113
1	06	02	07	03	RCV: Electron Optics	15-Apr-08	15-Apr-08	SL_MSEG2	\$\$			1,200		1,316		1,316	25.0%	329
1	06	02	07	03	RCV: Alignment Manipulators	15-Apr-08	15-Apr-08	SL_MSEG2	\$\$			4,500		4,935		4,935	25.0%	1,234
1	06	02	07	03	RCV: Detector	15-Apr-08	15-Apr-08	SL_MSEG2	\$\$			5,000		5,484		5,484	25.0%	1,371
1	06	02	07	03	RCV: Pre-amps	15-Apr-08	15-Apr-08	SL_MSEG2	\$\$			2,500		2,742		2,742	25.0%	685
1	06	02	07	03	RCV: Discriminator	15-Apr-08	15-Apr-08	SL_MSEG2	\$\$			10,000		10,968		10,968	25.0%	2,742
1	06	02	07	03	RCV: TDC	15-Apr-08	15-Apr-08	SL_MSEG2	\$\$			50,000		54,838		54,838	25.0%	13,710
1	06	02	07	03	RCV: Digitizer	15-Apr-08	15-Apr-08	SL_MSEG2	\$\$			75,000		82,257		82,257	25.0%	20,564
1	06	02	07	03	RCV: Power Supplies Type 2	15-Apr-08	15-Apr-08	SL_MSEG2	\$\$			50,000		54,838		54,838	25.0%	13,710
1	06	02	07	03	RCV: Power Supply T2 Controllers	15-Apr-08	15-Apr-08	SL_MSEG2	\$\$			20,000		21,935		21,935	25.0%	5,484
1	06	02	07	03	RCV: Stepper Motor Drives	15-Apr-08	15-Apr-08	SL_MSEG2	\$\$			4,000		4,387		4,387	25.0%	1,097
1	06	02	07	03	RCV: Interrick Cables	15-Apr-08	15-Apr-08	SL_MSEG2	\$\$			200		219		219	25.0%	55
1	06	02	07	03	Ion Imaging & Electron TOF H/W Build	16-Apr-08	18-Jul-08	SL_CT2	Hrs	261			16,474		16,474	25.0%	4,119	
1	06	02	07	03	Ion Imaging & Electron TOF H/W Build	16-Apr-08	18-Jul-08	SL_CE2	Hrs	261			30,092		30,092	25.0%	7,523	
1	06	02	07	04	Sample Source						1,566	71,100	137,011	77,980	214,991		53,748	
1	06	02	07	04	Sample Source Software	18-Jan-08	17-Jul-08	SL_CP2	Hrs	522			43,880		43,880	25.0%	10,970	
1	06	02	07	04	RCV: Crate/CPU/EVR	15-Apr-08	15-Apr-08	SL_MSEG2	\$\$			9,000		9,871		9,871	25.0%	2,468
1	06	02	07	04	RCV: I/O	15-Apr-08	15-Apr-08	SL_MSEG2	\$\$			2,000		2,194		2,194	25.0%	548
1	06	02	07	04	RCV: Valves	15-Apr-08	15-Apr-08	SL_MSEG2	\$\$			12,000		13,161		13,161	25.0%	3,290
1	06	02	07	04	RCV: Nozzle/Controller	15-Apr-08	15-Apr-08	SL_MSEG2	\$\$			1,200		1,316		1,316	25.0%	329
1	06	02	07	04	RCV: Manipulator	15-Apr-08	15-Apr-08	SL_MSEG2	\$\$			6,000		6,581		6,581	25.0%	1,645
1	06	02	07	04	RCV: Stepper Motor Drives	15-Apr-08	15-Apr-08	SL_MSEG2	\$\$			6,000		6,581		6,581	25.0%	1,645
1	06	02	07	04	RCV: Pumps	15-Apr-08	15-Apr-08	SL_MSEG2	\$\$			16,000		17,548		17,548	25.0%	4,387
1	06	02	07	04	RCV: Primary Pump	15-Apr-08	15-Apr-08	SL_MSEG2	\$\$			3,700		4,058		4,058	25.0%	1,015
1	06	02	07	04	RCV:Guages	15-Apr-08	15-Apr-08	SL_MSEG2	\$\$			7,500		8,226		8,226	25.0%	2,056
1	06	02	07	04	RCV: Gas Handling System	15-Apr-08	15-Apr-08	SL_MSEG2	\$\$			4,000		4,387		4,387	25.0%	1,097
1	06	02	07	04	RCV: Line Pump	15-Apr-08	15-Apr-08	SL_MSEG2	\$\$			3,700		4,058		4,058	25.0%	1,015
1	06	02	07	04	Sample Source H/W Build	16-Apr-08	18-Jul-08	SL_CT2	Hrs	522			32,948		32,948	25.0%	8,237	
1	06	02	07	04	Sample Source H/W Build	16-Apr-08	18-Jul-08	SL_CE2	Hrs	522			60,183		60,183	25.0%	15,046	
1	06	02	07	05	Vacuum Controls & Mechanical Exp 1						783	104,900	68,506	115,050	183,556		45,889	
1	06	02	07	05	Vacuum control & Mechanical Exp 1 Software	18-Jan-08	17-Jul-08	SL_CP2	Hrs	261			21,940		21,940	25.0%	5,485	
1	06	02	07	05	RCV: Crate/CPU/EVR	15-Apr-08	15-Apr-08	SL_MSEG2	\$\$			9,000		9,871		9,871	25.0%	2,468
1	06	02	07	05	RCV: I/O	15-Apr-08	15-Apr-08	SL_MSEG2	\$\$			2,000		2,194		2,194	25.0%	548
1	06	02	07	05	RCV: Vacuum Pumps	15-Apr-08	15-Apr-08	SL_MSEG2	\$\$			7,400		8,116		8,116	25.0%	2,029
1	06	02	07	05	RCV: Vacuum Valves	15-Apr-08	15-Apr-08	SL_MSEG2	\$\$			12,000		13,161		13,161	25.0%	3,290
1	06	02	07	05	RCV: Vacuum Guages	15-Apr-08	15-Apr-08	SL_MSEG2	\$\$			2,500		2,742		2,742	25.0%	685
1	06	02	07	05	RCV: Stepper Motor Drives	15-Apr-08	15-Apr-08	SL_MSEG2	\$\$			72,000		78,967		78,967	25.0%	19,742
1	06	02	07	05	Vacuum control & Mechanical Exp 1 H/W Build	16-Apr-08	17-Jul-08	SL_CT2	Hrs	261			16,474		16,474	25.0%	4,119	
1	06	02	07	05	Vacuum control & Mechanical Exp 1 H/W Build	16-Apr-08	17-Jul-08	SL_CE2	Hrs	261			30,092		30,092	25.0%	7,523	
1	06	02	07	06	Refocus Optics						783	133,700	69,577	146,637	216,214		54,053	
1	06	02	07	06	Refocus Optics Software	18-Jan-08	17-Jul-08	SL_CP2	Hrs	261			21,940		21,940	25.0%	5,485	
1	06	02	07	06	RCV: Crate/CPU/EVR	30-Sep-08	30-Sep-08	SL_MSEG2	\$\$			9,000		9,871		9,871	25.0%	2,468
1	06	02	07	06	RCV: I/O	30-Sep-08	30-Sep-08	SL_MSEG2	\$\$			2,000		2,194		2,194	25.0%	548
1	06	02	07	06	RCV: Turbo Pump	30-Sep-08	30-Sep-08	SL_MSEG2	\$\$			16,000		17,548		17,548	25.0%	4,387
1	06	02	07	06	RCV: Primary Pump	30-Sep-08	30-Sep-08	SL_MSEG2	\$\$			14,800		16,232		16,232	25.0%	4,058
1	06	02	07	06	RCV: Guaging	30-Sep-08	30-Sep-08	SL_MSEG2	\$\$			10,000		10,968		10,968	25.0%	2,742
1	06	02	07	06	RCV: Valves	30-Sep-08	30-Sep-08	SL_MSEG2	\$\$			16,000		17,548		17,548	25.0%	4,387
1	06	02	07	06	RCV: Stepper Motor Drives	30-Sep-08	30-Sep-08	SL_MSEG2	\$\$			8,000		8,774		8,774	25.0%	2,194
1	06	02	07	06	RCV: Differential Ion Pump	30-Sep-08	30-Sep-08	SL_MSEG2	\$\$			1,500		1,645		1,645	25.0%	411
1	06	02	07	06	RCV: Ion Pump Controllers	30-Sep-08	30-Sep-08	SL_MSEG2	\$\$			6,000		6,581		6,581	25.0%	1,645
1																		

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline Description	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escldt Cost			Cont %	Contingency \$
1	2	3	4	5	6						Hours	\$	Labor	M&S	Total		
1	06	02	07	06		RCV: OPA Laser	30-Sep-08	30-Sep-08	SL_MSEG2	\$\$		8,400		9,213	9,213	25.0%	2,303
1	06	02	07	06		RCV: Motor Controllers	30-Sep-08	30-Sep-08	SL_MSEG2	\$\$		32,000		35,096	35,096	25.0%	8,774
1	06	02	07	06		Refocus Optics H/W Build	1-Oct-08	14-Jan-09	SL_CT2	Hrs	261		16,853		16,853	25.0%	4,213
1	06	02	07	06		Refocus Optics H/W Build	1-Oct-08	14-Jan-09	SL_CE2	Hrs	261		30,784		30,784	25.0%	7,696
1	06	02	07	07		Diagnostics					1,598	226,350	139,999	248,252	388,252		97,063
1	06	02	07	07		Diagnostics Software	17-Jan-08	30-Jul-08	SL_CP2	Hrs	496		41,694		41,694	25.0%	10,423
1	06	02	07	07		RCV:Crate/CPU/EVR	14-Apr-08	14-Apr-08	SL_MSEG2	\$\$		27,000		29,613	29,613	25.0%	7,403
1	06	02	07	07		RCV:I/O	14-Apr-08	14-Apr-08	SL_MSEG2	\$\$		6,000		6,581	6,581	25.0%	1,645
1	06	02	07	07		RCV:turbo pump	14-Apr-08	14-Apr-08	SL_MSEG2	\$\$		3,700		4,058	4,058	25.0%	1,015
1	06	02	07	07		RCV:primary) pump	14-Apr-08	14-Apr-08	SL_MSEG2	\$\$		8,000		8,774	8,774	25.0%	2,194
1	06	02	07	07		RCV:gauging	14-Apr-08	14-Apr-08	SL_MSEG2	\$\$		2,500		2,742	2,742	25.0%	685
1	06	02	07	07		RCV:valves	14-Apr-08	14-Apr-08	SL_MSEG2	\$\$		48,000		52,645	52,645	25.0%	13,161
1	06	02	07	07		RCV:pressure controller	14-Apr-08	14-Apr-08	SL_MSEG2	\$\$		5,000		5,484	5,484	25.0%	1,371
1	06	02	07	07		RCV:stepper motor drives	14-Apr-08	14-Apr-08	SL_MSEG2	\$\$		36,000		39,483	39,483	25.0%	9,871
1	06	02	07	07		RCV:gas handling system	14-Apr-08	14-Apr-08	SL_MSEG2	\$\$		1,500		1,645	1,645	25.0%	411
1	06	02	07	07		RCV:line pump	14-Apr-08	14-Apr-08	SL_MSEG2	\$\$		3,700		4,058	4,058	25.0%	1,015
1	06	02	07	07		RCV:detector	14-Apr-08	14-Apr-08	SL_MSEG2	\$\$		3,000		3,290	3,290	25.0%	823
1	06	02	07	07		RCV:turbo pump	14-Apr-08	14-Apr-08	SL_MSEG2	\$\$		1,200		1,316	1,316	25.0%	329
1	06	02	07	07		RCV:pre-amps	14-Apr-08	14-Apr-08	SL_MSEG2	\$\$		20,000		21,935	21,935	25.0%	5,484
1	06	02	07	07		RCV:transient recorder	14-Apr-08	14-Apr-08	SL_MSEG2	\$\$		14,250		15,629	15,629	25.0%	3,907
1	06	02	07	07		RCV:power supply controllers	14-Apr-08	14-Apr-08	SL_MSEG2	\$\$		4,000		4,387	4,387	25.0%	1,097
1	06	02	07	07		RCV:video camera controller	14-Apr-08	14-Apr-08	SL_MSEG2	\$\$		6,000		6,581	6,581	25.0%	1,645
1	06	02	07	07		RCV:beam stop electronics	14-Apr-08	14-Apr-08	SL_MSEG2	\$\$		12,000		13,161	13,161	25.0%	3,290
1	06	02	07	07		RCV:alignment manipulators	14-Apr-08	14-Apr-08	SL_MSEG2	\$\$		4,500		4,935	4,935	25.0%	1,234
1	06	02	07	07		RCV:power supplies	14-Apr-08	14-Apr-08	SL_MSEG2	\$\$		20,000		21,935	21,935	25.0%	5,484
1	06	02	07	07		Diagnostics H/W Build	15-Apr-08	30-Jul-08	SL_CT2	Hrs	551			34,779	34,779	25.0%	8,695
1	06	02	07	07		Diagnostics H/W Build	15-Apr-08	30-Jul-08	SL_CE2	Hrs	551			63,527	63,527	25.0%	15,882
1	06	02	08			AMOS Experiment Controls X2					1,620	-	136,800	-	136,800		34,200
1	06	02	08	01		AMOS Experiment Controls X2					918	-	76,432	-	76,432		19,108
1	06	02	08	01		Develop AMOS Controls ICDS	1-Oct-07	22-Jan-08	SL_CP2	Hrs	78		6,557		6,557	25.0%	1,639
1	06	02	08	01		Controls AMOS Conceptual Design	31-Jul-07	20-Sep-07	SL_CP2	Hrs	360		29,581		29,581	25.0%	7,395
1	06	02	08	01		Conceptual Design Review (CDR)	21-Sep-07	1-Nov-07	SL_CP2	Hrs	120		10,032		10,032	25.0%	2,508
1	06	02	08	01		Controls AMOS Preliminary Design	2-Nov-07	31-Jan-08	SL_CP2	Hrs	320		26,899		26,899	25.0%	6,725
1	06	02	08	01		Preliminary Design Review (PDR)	1-Feb-08	29-Feb-08	SL_CP2	Hrs	40		3,362		3,362	25.0%	841
1	06	02	08	02		X2 Praticle Imaging					702	-	60,368	-	60,368		15,092
1	06	02	08	02		X2 Particle Imaging Software	2-Oct-08	10-Apr-09	SL_CP2	Hrs	702		60,368		60,368	25.0%	15,092
1	06	02	10			Global Controls System					14,475	1,664,860	1,324,356	1,827,288	3,151,644		816,807
1	06	02	10	01		Network					1,120	150,000	99,358	160,816	260,174		65,043
1	06	02	10	01		Develop Controls Network ICDS	1-May-07	29-May-07	SL_CP2	Hrs	120		9,860		9,860	25.0%	2,465
1	06	02	10	01		Controls Network Conceptual Design	1-May-07	29-May-07	SL_CP2	Hrs	120		9,860		9,860	25.0%	2,465
1	06	02	10	01		Conceptual Design Review (CDR)	30-May-07	30-May-07	SL_CP2	Hrs	80		6,574		6,574	25.0%	1,643
1	06	02	10	01		Controls Network Preliminary Design	31-May-07	13-Jun-07	SL_CP2	Hrs	120		9,860		9,860	25.0%	2,465
1	06	02	10	01		Preliminary Design Review (PDR)	14-Jun-07	14-Jun-07	SL_CP2	Hrs	40		3,287		3,287	25.0%	822
1	06	02	10	01		Controls Network Final Design	15-Jun-07	13-Jul-07	SL_CP2	Hrs	120		9,860		9,860	25.0%	2,465
1	06	02	10	01		Final Design Review (FDR)	16-Jul-07	16-Jul-07	SL_CP2	Hrs	40		3,287		3,287	25.0%	822
1	06	02	10	01		Controls Network Software Development	17-Jul-07	13-Aug-07	SL_CP2	Hrs	240		19,721		19,721	25.0%	4,930
1	06	02	10	01		RCV: 6509 Switches/Routers	13-Aug-07	13-Aug-07	SL_MSEG2	\$\$		150,000		160,816	160,816	25.0%	40,204
1	06	02	10	01		Controls Network Hardware Development	14-Aug-07	13-Sep-07	SL_CE2	Hrs	240		27,048		27,048	25.0%	6,762
1	06	02	10	02		Machine Protection System					872	4,000	80,797	4,387	85,184		21,296
1	06	02	10	02		Develop Controls MPS ICDS	1-Oct-07	26-Oct-07	SL_CP2	Hrs	120		10,087		10,087	25.0%	2,522
1	06	02	10	02		Controls MPS Preliminary Design	1-Oct-07	26-Oct-07	SL_CP2	Hrs	72		6,052		6,052	25.0%	1,513
1	06	02	10	02		Preliminary Design Review (PDR)	29-Oct-07	29-Oct-07	SL_CP2	Hrs	40		3,362		3,362	25.0%	841
1	06	02	10	02		Controls MPS Final Design	30-Oct-07	28-Nov-07	SL_CP2	Hrs	120		10,087		10,087	25.0%	2,522
1	06	02	10	02		Final Design Review (FDR)	29-Nov-07	29-Nov-07	SL_CP2	Hrs	40		3,362		3,362	25.0%	841
1	06	02	10	02		Controls MPS Software Development	30-Nov-07	14-Jan-08	SL_CP2	Hrs	240		20,175		20,175	25.0%	5,044
1	06	02	10	02		RCV: 4 Input Nodes	29-Nov-07	29-Nov-07	SL_MSEG2	\$\$		4,000		4,387	4,387	25.0%	1,097
1	06	02	10	02		Hardware Network Development	30-Nov-07	14-Jan-08	SL_CE2	Hrs	240		27,670		27,670	25.0%	6,918
1	06	02	10	03		Personnel Protection System					1,328	208,200	127,260	230,404	357,665		89,416
1	06	02	10	03		Develop Controls PPS ICDS	1-Oct-07	26-Oct-07	SL_CP2	Hrs	24		2,017		2,017	25.0%	504
1	06	02	10	03		Controls PPS Preliminary Design	1-Oct-07	26-Oct-07	SL_CP2	Hrs	144		12,105		12,105	25.0%	3,026
1	06	02	10	03		Preliminary Design Review (PDR)	29-Oct-07	29-Oct-07	SL_CP2	Hrs	80		6,725		6,725	25.0%	1,681
1	06	02	10	03		Controls PPS Final Design	30-Oct-07	28-Nov-07	SL_CP2	Hrs	240		20,175		20,175	25.0%	5,044
1	06	02	10	03		Final Design Review (FDR)	29-Nov-07	29-Nov-07	SL_CP2	Hrs	160		13,450		13,450	25.0%	3,362
1	06	02	10	03		Controls PPS Software Development	30-Oct-07	28-Nov-07	SL_CP2	Hrs	200		16,812		16,812	25.0%	4,203
1	06	02	10	03		RCV: Near Hall Other cable	14-Jan-08	14-Jan-08	SL_MSEG2	\$\$		2,100		2,303	2,303	25.0%	576
1	06	02	10	03		RCV: 12 Near Hall 36PR16AS cable	14-Jan-08	14-Jan-08	SL_MSEG2	\$\$		24,000		26,322	26,322	25.0%	6,581
1	06	02	10	03		RCV: Near Hall Misc. hardware	14-Jan-08	14-Jan-08	SL_MSEG2	\$\$		13,000		14,258	14,258	25.0%	3,564
1	06	02	10	03		RCV: Near Hall PLC Control Package	14-Jan-08	14-Jan-08	SL_MSEG2	\$\$		20,000		21,935	21,935	25.0%	5,484
1	06	02	10	03		RCV: Near Hall BSOIC	9-Apr-08	9-Apr-08	SL_MSEG2	\$\$		67,500		74,031	74,031	25.0%	18,508
1	06	02	10	03		RCV: Far Hall Other cable	28-Oct-08	28-Oct-08	SL_MSEG2	\$\$		2,100		2,356	2,356	25.0%	589
1	06	02	10	03		RCV: Far Hall 36PR16AS cable	28-Oct-08	28-Oct-08	SL_MSEG2	\$\$		24,000		26,928	26,928	25.0%	6,732
1	06	02	10	03		RCV: Far Hall Misc. hardware	28-Oct-08	28-Oct-08	SL_MSEG2	\$\$		13,000		14,586	14,586	25.0%	3,646

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline Description	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont %	Contingency \$
1	2	3	4	5	6						Hours	\$	Labor	M&S	Total		
1	06	02	10	03	6	RCV: Far Hall PLC Control Package	28-Oct-08	28-Oct-08	SL_MSEG2	\$\$		20,000		22,440	22,440	25.0%	5,610
1	06	02	10	03		RCV: Far Hall BSOIC	22-Oct-08	22-Oct-08	SL_MSEG2	\$\$		22,500		25,245	25,245	25.0%	6,311
1	06	02	10	03		PPS Hardware Development (NEH)	10-Apr-08	21-May-08	SL_CE2	Hrs	240		27,670		27,670	25.0%	6,918
1	06	02	10	03		PPS Hardware Development (FEH)	29-Oct-08	11-Dec-08	SL_CE2	Hrs	240		28,307		28,307	25.0%	7,077
1	06	02	10	04		Laser PPS					1,360	49,226	129,314	53,989	183,303		45,826
1	06	02	10	04		Develop Controls Lasr PPS ICDs	1-Oct-07	26-Oct-07	SL_CP2	Hrs	120		10,087		10,087	25.0%	2,522
1	06	02	10	04		Controls PPS Conceptual Design	1-Oct-07	26-Oct-07	SL_CP2	Hrs	120		10,087		10,087	25.0%	2,522
1	06	02	10	04		Conceptual Design Review (CDR)	29-Oct-07	29-Oct-07	SL_CP2	Hrs	120		10,087		10,087	25.0%	2,522
1	06	02	10	04		Controls Laser PPS Preliminary Design	30-Oct-07	28-Nov-07	SL_CP2	Hrs	120		10,087		10,087	25.0%	2,522
1	06	02	10	04		Preliminary Design Review (PDR)	29-Nov-07	29-Nov-07	SL_CP2	Hrs	40		3,362		3,362	25.0%	841
1	06	02	10	04		Controls PPS Final Design	30-Nov-07	14-Jan-08	SL_CP2	Hrs	120		10,087		10,087	25.0%	2,522
1	06	02	10	04		Final Design Review (FDR)	15-Jan-08	15-Jan-08	SL_CP2	Hrs	40		3,362		3,362	25.0%	841
1	06	02	10	04		Controls Laser PPS Software Development	16-Jan-08	13-Feb-08	SL_CP2	Hrs	200		16,812		16,812	25.0%	4,203
1	06	02	10	04		RCV: Crate/CPU/EVR	13-Feb-08	13-Feb-08	SL_MSEG2	\$\$		9,000		9,871	9,871	25.0%	2,468
1	06	02	10	04		RCV: 4PR16AS cable	13-Feb-08	13-Feb-08	SL_MSEG2	\$\$		680		746	746	25.0%	186
1	06	02	10	04		RCV: 36PR16AS cable	13-Feb-08	13-Feb-08	SL_MSEG2	\$\$		6,000		6,581	6,581	25.0%	1,645
1	06	02	10	04		RCV: Hookup wire	13-Feb-08	13-Feb-08	SL_MSEG2	\$\$		350		384	384	25.0%	96
1	06	02	10	04		RCV: EO buttons	13-Feb-08	13-Feb-08	SL_MSEG2	\$\$		8,256		9,055	9,055	25.0%	2,264
1	06	02	10	04		RCV: Laser Shutters & controllers	13-Feb-08	13-Feb-08	SL_MSEG2	\$\$		9,940		10,902	10,902	25.0%	2,725
1	06	02	10	04		RCV: PLC Control Package	13-Feb-08	13-Feb-08	SL_MSEG2	\$\$		15,000		16,451	16,451	25.0%	4,113
1	06	02	10	04		Laser PPS Hardware Development	14-Feb-08	17-Mar-08	SL_CE2	Hrs	480		55,341		55,341	25.0%	13,835
1	06	02	10	05		User Safeguards					704	50,000	69,563	55,469	125,032		31,258
1	06	02	10	05		Specification Near Hall - User Safeguards	1-Oct-07	26-Oct-07	SL_PHS2	Hrs	40		2,984		2,984	25.0%	746
1	06	02	10	05		Design Near Hall - User Safeguards	29-Oct-07	10-Jan-08	SL_PHS2	Hrs	40		2,984		2,984	25.0%	746
1	06	02	10	05		Design Near Hall - User Safeguards	29-Oct-07	10-Jan-08	SL_ME2	Hrs	40		4,075		4,075	25.0%	1,019
1	06	02	10	05		Design Near Hall - User Safeguards	29-Oct-07	10-Jan-08	SL_MDD2	Hrs	40		3,416		3,416	25.0%	854
1	06	02	10	05		Design Near Hall - User Safeguards	29-Oct-07	10-Jan-08	SL_CE2	Hrs	40		4,612		4,612	25.0%	1,153
1	06	02	10	05		Safety Review Near Hall - User Safeguards	11-Jan-08	10-Mar-08	SL_PHS2	Hrs	40		2,984		2,984	25.0%	746
1	06	02	10	05		Safety Review Near Hall - User Safeguards	11-Jan-08	10-Mar-08	SL_CE2	Hrs	40		4,612		4,612	25.0%	1,153
1	06	02	10	05		Prep Bid Pkg Near Hall Alarms/Signs - User Safeg	11-Mar-08	24-Mar-08	SL_CE2	Hrs	40		4,612		4,612	25.0%	1,153
1	06	02	10	05		Prep Bid Pkg NHall Interlock - User Safeguards	11-Mar-08	24-Mar-08	SL_CE2	Hrs	40		4,612		4,612	25.0%	1,153
1	06	02	10	05		Prepare Near Hall Bid Pkg Detectors - User Safeg	11-Mar-08	24-Mar-08	SL_CE2	Hrs	40		4,612		4,612	25.0%	1,153
1	06	02	10	05		AWARD: Contract Near Hall Alarms/Signs -User Sa	20-May-08	20-May-08	SL_AWARD	\$\$		5,350		6,315	6,315	25.0%	1,579
1	06	02	10	05		AWARD: Contract NHall Interlock - User Safeg	20-May-08	20-May-08	SL_AWARD	\$\$		5,350		6,315	6,315	25.0%	1,579
1	06	02	10	05		AWARD: Contract Near Hall Detectors - User Safe	20-May-08	20-May-08	SL_AWARD	\$\$		16,050		18,945	18,945	25.0%	4,736
1	06	02	10	05		Vendor Fab/Ship Near Hall Alarm/Sign - User Safe	21-May-08	17-Jul-08	SA_MSEQ2	\$\$		5,000		5,484	5,484	25.0%	1,371
1	06	02	10	05		Vendor Ship Near Hall Interlock-User Safeguards	21-May-08	17-Jul-08	SA_MSEQ2	\$\$		5,000		5,484	5,484	25.0%	1,371
1	06	02	10	05		Vendor Fab/Ship Near Hall Detectors - User Safeg	21-May-08	17-Jul-08	SA_MSEQ2	\$\$		15,000		16,451	16,451	25.0%	4,113
1	06	02	10	05		Specification Far Hall - User Safeguards	1-Oct-07	26-Oct-07	SL_CE2	Hrs	40		4,612		4,612	25.0%	1,153
1	06	02	10	05		Design Far Hall - User Safeguards	29-Oct-07	10-Jan-08	SL_PHS2	Hrs	40		2,984		2,984	25.0%	746
1	06	02	10	05		Design Far Hall - User Safeguards	29-Oct-07	10-Jan-08	SL_ME2	Hrs	40		4,075		4,075	25.0%	1,019
1	06	02	10	05		Design Far Hall - User Safeguards	29-Oct-07	10-Jan-08	SL_MDD2	Hrs	40		3,416		3,416	25.0%	854
1	06	02	10	05		Design Far Hall - User Safeguards	29-Oct-07	10-Jan-08	SL_CE2	Hrs	40		4,612		4,612	25.0%	1,153
1	06	02	10	05		Safety Review Far Hall - User Safeguards	11-Jan-08	10-Mar-08	SL_PHS2	Hrs	40		2,984		2,984	25.0%	746
1	06	02	10	05		Safety Review Far Hall - User Safeguards	11-Jan-08	10-Mar-08	SL_CE2	Hrs	40		4,612		4,612	25.0%	1,153
1	06	02	10	05		Prep Bid Pkg Far Hall Alarms/Signs - User Safegu	11-Mar-08	24-Mar-08	SL_CE2	Hrs	8		922		922	25.0%	231
1	06	02	10	05		Prep Bid Pkg Far Hall Interlock - User Safeguard	11-Mar-08	24-Mar-08	SL_CE2	Hrs	8		922		922	25.0%	231
1	06	02	10	05		Prepare Far Hall Bid Pkg Detectors - User Safegu	11-Mar-08	24-Mar-08	SL_CE2	Hrs	8		922		922	25.0%	231
1	06	02	10	05		AWARD: Contract Far Hall Alarms/Signs -User Saf	1-Oct-08	1-Oct-08	SL_AWARD	\$\$		5,500		6,661	6,661	25.0%	1,665
1	06	02	10	05		AWARD: Contract Far Hall Interlock - User Safegu	1-Oct-08	1-Oct-08	SL_AWARD	\$\$		5,500		6,661	6,661	25.0%	1,665
1	06	02	10	05		AWARD: Contract Far Hall Detectors - User Safeg	1-Oct-08	1-Oct-08	SL_AWARD	\$\$		16,500		19,982	19,982	25.0%	4,996
1	06	02	10	05		Vendor Fab/Ship Far Hall Alarm/Sign - User Safeg	2-Oct-08	26-Nov-08	SA_MSEQ2	\$\$		5,000		5,610	5,610	25.0%	1,402
1	06	02	10	05		Vendor Ship Far Hall Contain/Intrick-User Safegu	2-Oct-08	26-Nov-08	SA_MSEQ2	\$\$		5,000		5,610	5,610	25.0%	1,402
1	06	02	10	05		Vendor Fab/Ship Far Hall Detectors - User Safegu	2-Oct-08	26-Nov-08	SA_MSEQ2	\$\$		15,000		16,830	16,830	25.0%	4,207
1	06	02	10	06		Timing System					788	30,000	73,735	32,903	106,638		26,660
1	06	02	10	06		Develop Controls Timing System ICDs	1-Oct-07	26-Oct-07	SL_CP2	Hrs	30		2,522		2,522	25.0%	630
1	06	02	10	06		Controls Timing System Preliminary Design	1-Oct-07	26-Oct-07	SL_CP2	Hrs	78		6,557		6,557	25.0%	1,639
1	06	02	10	06		Preliminary Design Review (PDR)	29-Oct-07	29-Oct-07	SL_CP2	Hrs	40		3,362		3,362	25.0%	841
1	06	02	10	06		Controls Timing System Final Design	30-Oct-07	28-Nov-07	SL_CP2	Hrs	120		10,087		10,087	25.0%	2,522
1	06	02	10	06		Final Design Review (FDR)	29-Nov-07	29-Nov-07	SL_CP2	Hrs	40		3,362		3,362	25.0%	841
1	06	02	10	06		Controls Timing System Software Development	30-Nov-07	14-Jan-08	SL_CP2	Hrs	240		20,175		20,175	25.0%	5,044
1	06	02	10	06		RCV: 2 Crate/CPU	29-Nov-07	29-Nov-07	SL_MSEG2	\$\$		18,000		19,742	19,742	25.0%	4,935
1	06	02	10	06		RCV: 4 EVRs	29-Nov-07	29-Nov-07	SL_MSEG2	\$\$		12,000		13,161	13,161	25.0%	3,290
1	06	02	10	06		Controls Timing System Hardware Development	30-Nov-07	14-Jan-08	SL_CE2	Hrs	240		27,670		27,670	25.0%	6,918
1	06	02	10	07		Data Management					3,591	240,000	320,608	257,305	577,912		173,374
1	06	02	10	07		Develop Controls Data Management ICDs	1-May-07	29-May-07	SL_CP2	Hrs	109		8,957		8,957	30.0%	2,687
1	06	02	10	07		Controls Data Management Conceptual Design	1-May-07	29-May-07	SL_CP2	Hrs	109		8,957		8,957	30.0%	2,687
1	06	02	10	07		Conceptual Design Review (CDR)	30-May-07	30-May-07	SL_CP2	Hrs	54		4,437		4,437	30.0%	1,331
1	06	02	10	07		Controls Data Management Preliminary Design	31-May-07	27-Jun-07	SL_CP2	Hrs	109		8,957		8,957	30.0%	2,687
1	06	02	10	07		Preliminary Design Review (PDR)	28-Jun-07	28-Jun-07	SL_CP2	Hrs	54		4,437		4,437	30.0%	1,331
1	06	02	10	07		Controls Data Management Final Design	29-Jun-07	13-Aug-07	SL_CP2	Hrs	163		13,394		13,394	30.0%	4,018
1	06	02	10	07		Final Design Review (FDR)	14-Aug-07	14-Aug-07	SL_CP2	Hrs	109		8,957		8,957	30.0%	2,687

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early	Early	Res	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont	Contingency
						Description	Start	Finish	Code		Hours	\$	Labor	M&S	Total	%	\$
1	06	02	10	07	6	Controls Data Management SW Release 1	15-Aug-07	10-Oct-07	SL_CP2	Hrs		326		26,887	26,887	30.0%	8,066
1	06	02	10	07	RCV: Servers	27-Aug-07	27-Aug-07	SL_MSEG2	\$\$			80,000		85,768	85,768	30.0%	25,730
1	06	02	10	07	RCV: Disk Farm	27-Aug-07	27-Aug-07	SL_MSEG2	\$\$			160,000		171,537	171,537	30.0%	51,461
1	06	02	10	07	Controls Data Management HW Release 1	28-Aug-07	26-Nov-07	SL_CE2	Hrs	109			12,460	12,460	30.0%	3,738	
1	06	02	10	07	Installation: Controls Data Management Releas 1	27-Nov-07	14-Jan-08	SL_CP2	Hrs	218			18,325	18,325	30.0%	5,498	
1	06	02	10	07	Installation: Controls Data Management Releas 1	27-Nov-07	14-Jan-08	SL_CE2	Hrs	109			12,567	12,567	30.0%	3,770	
1	06	02	10	07	Test Release 1	15-Jan-08	13-Feb-08	SL_CP2	Hrs	109			9,163	9,163	30.0%	2,749	
1	06	02	10	07	Controls Data Management SW Release 2	14-Feb-08	7-Jul-08	SL_CP2	Hrs	517			43,459	43,459	30.0%	13,038	
1	06	02	10	07	Controls Data Management HW Release 2	14-Feb-08	7-Jul-08	SL_CE2	Hrs	136			15,680	15,680	30.0%	4,704	
1	06	02	10	07	Installation: Controls Data Management Releas 2	8-Jul-08	4-Aug-08	SL_CP2	Hrs	109			9,163	9,163	30.0%	2,749	
1	06	02	10	07	Installation: Controls Data Management Releas 2	8-Jul-08	4-Aug-08	SL_CE2	Hrs	54			6,226	6,226	30.0%	1,868	
1	06	02	10	07	Test Release 2	5-Aug-08	30-Sep-08	SL_CP2	Hrs	218			18,325	18,325	30.0%	5,498	
1	06	02	10	07	Controls Data Management SW Release 3	1-Oct-08	4-Feb-09	SL_CP2	Hrs	462			39,729	39,729	30.0%	11,919	
1	06	02	10	07	Controls Data Management HW Release 3	1-Oct-08	4-Feb-09	SL_CE2	Hrs	136			16,040	16,040	30.0%	4,812	
1	06	02	10	07	Installation: Controls Data Management Releas 3	5-Feb-09	4-Mar-09	SL_CP2	Hrs	109			9,373	9,373	30.0%	2,812	
1	06	02	10	07	Installation: Controls Data Management Releas 3	5-Feb-09	4-Mar-09	SL_CE2	Hrs	54			6,369	6,369	30.0%	1,911	
1	06	02	10	07	Test Release 3	5-Mar-09	29-Apr-09	SL_CP2	Hrs	218			18,747	18,747	30.0%	5,624	
1	06	02	10	08	Global Cabling & Racks						880	-	101,458	-	101,458		25,364
1	06	02	10	08	Develop Cabling & Racks ICDs	1-Oct-07	12-Oct-07	SL_CE2	Hrs	120			13,835	13,835	25.0%	3,459	
1	06	02	10	08	Cabling & Racks Conceptual Design	1-Oct-07	12-Oct-07	SL_CE2	Hrs	120			13,835	13,835	25.0%	3,459	
1	06	02	10	08	Conceptual Design Review (CDR)	15-Oct-07	15-Oct-07	SL_CE2	Hrs	80			9,223	9,223	25.0%	2,306	
1	06	02	10	08	Cabling & Racks Preliminary Design	16-Oct-07	29-Oct-07	SL_CE2	Hrs	120			13,835	13,835	25.0%	3,459	
1	06	02	10	08	Preliminary Design Review (PDR)	30-Oct-07	30-Oct-07	SL_CE2	Hrs	40			4,612	4,612	25.0%	1,153	
1	06	02	10	08	Cabling & Racks Final Design	31-Oct-07	13-Nov-07	SL_CE2	Hrs	120			13,835	13,835	25.0%	3,459	
1	06	02	10	08	Final Design Review (FDR)	14-Nov-07	14-Nov-07	SL_CE2	Hrs	40			4,612	4,612	25.0%	1,153	
1	06	02	10	08	Cabling & Racks Hardware Development	3-Dec-07	14-Dec-07	SL_CE2	Hrs	240			27,670	27,670	25.0%	6,918	
1	06	02	10	09	Laser Timing						-	933,434	-	1,032,015	1,032,015		258,004
1	06	02	10	09	LBL Timing Procurement (FY09)	1-Oct-08	19-Dec-08	SL_MSSC2	\$\$			327,434		367,377	367,377	25.0%	91,844
1	06	02	10	09	RCV: 4 Crate/CPU/EVR	29-Apr-08	29-Apr-08	SL_MSEG2	\$\$			36,000		39,483	39,483	25.0%	9,871
1	06	02	10	09	RCV: 32 Fiber for all hutches	29-Apr-08	29-Apr-08	SL_MSEG2	\$\$			320,000		350,964	350,964	25.0%	87,741
1	06	02	10	09	RCV: 4 Laser Timing Hardware	29-Apr-08	29-Apr-08	SL_MSEG2	\$\$			120,000		131,611	131,611	25.0%	32,903
1	06	02	10	09	RCV: 4 Laser End Point Synchronization Hardware	29-Apr-08	29-Apr-08	SL_MSEG2	\$\$			120,000		131,611	131,611	25.0%	32,903
1	06	02	10	09	RCV: 1 Electro Optic Sampling	29-Apr-08	29-Apr-08	SL_MSEG2	\$\$			10,000		10,968	10,968	25.0%	2,742
1	06	02	10	10	Experimental High Level Applications						3,832	-	322,263	-	322,263		80,566
1	06	02	10	10	Develop High Level Apps ICDs	1-May-07	29-May-07	SL_CP2	Hrs	104			8,546	8,546	25.0%	2,136	
1	06	02	10	10	High Level Apps Conceptual Design	1-May-07	29-May-07	SL_CP2	Hrs	82			6,738	6,738	25.0%	1,684	
1	06	02	10	10	Conceptual Design Review (CDR)	30-May-07	30-May-07	SL_CP2	Hrs	54			4,437	4,437	25.0%	1,109	
1	06	02	10	10	High Level Apps Preliminary Design	31-May-07	27-Jun-07	SL_CP2	Hrs	109			8,957	8,957	25.0%	2,239	
1	06	02	10	10	Preliminary Design Review (PDR)	28-Jun-07	28-Jun-07	SL_CP2	Hrs	54			4,437	4,437	25.0%	1,109	
1	06	02	10	10	High Level Apps Final Design	29-Jun-07	27-Jul-07	SL_CP2	Hrs	163			13,394	13,394	25.0%	3,348	
1	06	02	10	10	Final Design Review (FDR)	30-Jul-07	24-Aug-07	SL_CP2	Hrs	109			8,957	8,957	25.0%	2,239	
1	06	02	10	10	High Level Apps SW Release 1	27-Aug-07	22-Oct-07	SL_CP2	Hrs	326			27,019	27,019	25.0%	6,755	
1	06	02	10	10	Installation: High Level Apps Release 1	23-Oct-07	19-Nov-07	SL_CP2	Hrs	109			9,163	9,163	25.0%	2,291	
1	06	02	10	10	Test Release 1	20-Nov-07	4-Jan-08	SL_CP2	Hrs	109			9,163	9,163	25.0%	2,291	
1	06	02	10	10	High Level Apps SW Release 2	7-Jan-08	28-May-08	SL_CP2	Hrs	1,034			86,919	86,919	25.0%	21,730	
1	06	02	10	10	Installation: High Level Apps Releas 2	29-May-08	25-Jun-08	SL_CP2	Hrs	109			9,163	9,163	25.0%	2,291	
1	06	02	10	10	Test Release 2	26-Jun-08	21-Aug-08	SL_CP2	Hrs	218			18,325	18,325	25.0%	4,581	
1	06	02	10	10	High Level Apps SW Release 3	22-Aug-08	16-Dec-08	SL_CP2	Hrs	925			78,928	78,928	25.0%	19,732	
1	06	02	10	10	Installation: High Level Apps Releas 3	17-Dec-08	26-Jan-09	SL_CP2	Hrs	109			9,373	9,373	25.0%	2,343	
1	06	02	10	10	Test Release 3	27-Jan-09	23-Mar-09	SL_CP2	Hrs	218			18,747	18,747	25.0%	4,687	
1	06	02	11	Laser Controls						1,020	87,400	89,490	95,857	185,347		46,337	
1	06	02	11	Develop Laser Controls System ICDs	1-Oct-07	26-Oct-07	SL_CP2	Hrs	100			8,406	8,406	25.0%	2,102		
1	06	02	11	Laser Controls System Preliminary Design	1-Oct-07	26-Oct-07	SL_CP2	Hrs	120			10,087	10,087	25.0%	2,522		
1	06	02	11	Preliminary Design Review (PDR)	29-Oct-07	29-Oct-07	SL_CP2	Hrs	40			3,362	3,362	25.0%	841		
1	06	02	11	Laser Controls System Final Design	30-Oct-07	28-Nov-07	SL_CP2	Hrs	120			10,087	10,087	25.0%	2,522		
1	06	02	11	Final Design Review (FDR)	29-Nov-07	29-Nov-07	SL_CP2	Hrs	40			3,362	3,362	25.0%	841		
1	06	02	11	Laser Controls System Software Development	30-Nov-07	14-Jan-08	SL_CP2	Hrs	480			40,349	40,349	25.0%	10,087		
1	06	02	11	RCV: 1 Crate/CPU/EVR	29-Nov-07	29-Nov-07	SL_MSEG2	\$\$			9,000		9,871	9,871	25.0%	2,468	
1	06	02	11	RCV: 24 Position controls	29-Nov-07	29-Nov-07	SL_MSEG2	\$\$			48,000		52,645	52,645	25.0%	13,161	
1	06	02	11	RCV: 1 General IO	29-Nov-07	29-Nov-07	SL_MSEG2	\$\$			2,500		2,742	2,742	25.0%	685	
1	06	02	11	RCV: 1 Timing	29-Nov-07	29-Nov-07	SL_MSEG2	\$\$			2,900		3,181	3,181	25.0%	795	
1	06	02	11	RCV: 5 Video Diagnostics	29-Nov-07	29-Nov-07	SL_MSEG2	\$\$			25,000		27,419	27,419	25.0%	6,855	
1	06	02	11	Laser Controls System Hardware Development	30-Nov-07	14-Jan-08	SL_CE2	Hrs	120			13,835	13,835	25.0%	3,459		
1	06	02	12	K-Measurement/Vacuum Subsystem						320	12,200	26,342	13,381	39,722		9,931	
1	06	02	12	Develop K Measurement Spectrometer Controls ICDs	1-May-07	1-May-07	SL_CP2	Hrs	15			1,233	1,233	25.0%	308		
1	06	02	12	K Measurement Spectrometer Conceptual Design	1-May-07	26-Jun-07	SL_CP2	Hrs	15			1,233	1,233	25.0%	308		
1	06	02	12	Conceptual Design Review (CDR)	27-Jun-07	27-Jun-07	SL_CP2	Hrs	10			822	822	25.0%	205		
1	06	02	12	K Measurement Spectrometer Preliminary Design	28-Jun-07	23-Aug-07	SL_CP2	Hrs	20			1,643	1,643	25.0%	411		
1	06	02	12	Preliminary Design Review (PDR)	24-Aug-07	24-Aug-07	SL_CP2	Hrs	10			822	822	25.0%	205		
1	06	02	12	K Measurement Spectrometer Final Design	27-Aug-07	22-Oct-07	SL_CP2	Hrs	40			3,315	3,315	25.0%	829		
1	06	02	12	Final Design Review (FDR)	23-Oct-07	23-Oct-07	SL_CP2	Hrs	10			841	841	25.0%	210		
1	06	02	12	K Measurement Spectrometer Software Development	28-Jun-07	26-Jul-07	SL_CP2	Hrs	200			16,434	16,434	25.0%	4,109		

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont %	Contingency \$	
Description											Hours	\$	Labor	M&S	Total			
1	06	02	12	5	6	RCV: 1 Crate/CPU/EVR	21-Nov-07	21-Nov-07	SL_MSEG2	\$\$			9,000		9,871	9,871	25.0%	2,468
1	06	02	12			RCV: 1 Timing	21-Nov-07	21-Nov-07	SL_MSEG2	\$\$		2,900		3,181	3,181	25.0%	795	
1	06	02	12			RCV: 1 Vacuum PLC	21-Nov-07	21-Nov-07	SL_MSEG2	\$\$		300		329	329	25.0%	82	
1	06	04				Laser Subsystem					7,857	626,457	835,714	687,074	1,522,789		380,697	
1	06	04	01			XES Laser					1,328	385,857	124,809	423,193	548,003		137,001	
1	06	04	01			Specification - XES Laser	1-Jun-07	27-Jul-07	SL_PHS2	Hrs	120		8,751		8,751	25.0%	2,188	
1	06	04	01			Specification - XES Laser	1-Jun-07	27-Jul-07	SL_OE2	Hrs	120		13,524		13,524	25.0%	3,381	
1	06	04	01			Design - XES Laser	30-Jul-07	19-Nov-07	SL_PHS2	Hrs	320		23,571		23,571	25.0%	5,893	
1	06	04	01			Design - XES Laser	30-Jul-07	19-Nov-07	SL_OE2	Hrs	320		36,427		36,427	25.0%	9,107	
1	06	04	01			Design Review - XES Laser	20-Nov-07	5-Dec-07	SL_PHS2	Hrs	32		2,387		2,387	25.0%	597	
1	06	04	01			Design Review - XES Laser	20-Nov-07	5-Dec-07	SL_OE2	Hrs	32		3,689		3,689	25.0%	922	
1	06	04	01			Prep Bid Pkg - XES Laser	6-Dec-07	4-Jan-08	SL_PHS2	Hrs	32		2,387		2,387	25.0%	597	
1	06	04	01			Prep Bid Pkg - XES Laser	6-Dec-07	4-Jan-08	SL_OE2	Hrs	32		3,689		3,689	25.0%	922	
1	06	04	01			Evaluation of Proposals - XES Laser	5-Feb-08	19-Feb-08	SL_PHS2	Hrs	40		2,984		2,984	25.0%	746	
1	06	04	01			Evaluation of Proposals - XES Laser	5-Feb-08	19-Feb-08	SL_OE2	Hrs	40		4,612		4,612	25.0%	1,153	
1	06	04	01			AWARD: Contract - XES Laser	20-Feb-08	20-Feb-08	SL_AWARD	\$\$		412,867		487,325	487,325	25.0%	121,831	
1	06	04	01			Vendor Fab/Ship - XES Laser	21-Feb-08	11-Jul-08	SL_PHS2	Hrs	120		8,952		8,952	25.0%	2,238	
1	06	04	01			Vendor Fab/Ship - XES Laser	21-Feb-08	11-Jul-08	SL_OE2	Hrs	120		13,835		13,835	25.0%	3,459	
1	06	04	01			Vendor Fab/Ship - XES Laser	21-Feb-08	11-Jul-08	SA_MSEQ2	\$\$		385,857		423,193	423,193	25.0%	105,798	
1	06	04	02			Laser Diagnostics					3,473	47,600	417,187	52,206	469,393		117,348	
1	06	04	02			Laser Management (Aug07 thru Oct09)	15-Aug-07	28-Oct-08	SL_PHPU2	Hrs	2,075		260,331		260,331	25.0%	65,083	
1	06	04	02			Laser Management Nov08 thru Aug09	29-Oct-08	26-Aug-09	SL_PHPU2	Hrs	734		94,300		94,300	25.0%	23,575	
1	06	04	02			Specification - Laser Diagnostics	1-Oct-07	10-Jan-08	SL_PHS2	Hrs	40		2,984		2,984	25.0%	746	
1	06	04	02			Specification - Laser Diagnostics	1-Oct-07	10-Jan-08	SL_OE2	Hrs	40		4,612		4,612	25.0%	1,153	
1	06	04	02			Design - Laser Diagnostics	11-Jan-08	10-Mar-08	SL_PHS2	Hrs	240		17,904		17,904	25.0%	4,476	
1	06	04	02			Design - Laser Diagnostics	11-Jan-08	10-Mar-08	SL_PCE2	Hrs	40		4,612		4,612	25.0%	1,153	
1	06	04	02			Design - Laser Diagnostics	11-Jan-08	10-Mar-08	SL_OE2	Hrs	240		27,670		27,670	25.0%	6,918	
1	06	04	02			Prep Bid Pkg Energy Sensors - Laser Diagnostics	11-Mar-08	24-Mar-08	SL_PHS2	Hrs	16		1,194		1,194	25.0%	298	
1	06	04	02			AWARD: Energy Sensors - Laser Diagnostics	20-May-08	20-May-08	SL_AWARD	\$\$		9,202		10,862	10,862	25.0%	2,715	
1	06	04	02			Fab/Ship Energy Sensors - Laser Diagnostics	21-May-08	17-Jul-08	SA_MSEQ2	\$\$		8,600		9,432	9,432	25.0%	2,358	
1	06	04	02			Prep Bid Pkg IR FROG - Laser Diagnostics	11-Mar-08	24-Mar-08	SL_PHS2	Hrs	16		1,194		1,194	25.0%	298	
1	06	04	02			AWARD: Contract - IR FROG - Laser Diagnostics	20-May-08	20-May-08	SL_AWARD	\$\$		26,750		31,574	31,574	25.0%	7,894	
1	06	04	02			Vendor Ship IR FROG - Laser Diagnostics	21-May-08	17-Jul-08	SA_MSEQ2	\$\$		25,000		27,419	27,419	25.0%	6,855	
1	06	04	02			Prepare Bid Pkg Fast Diodes - Laser Diagnostics	11-Mar-08	24-Mar-08	SL_PHS2	Hrs	16		1,194		1,194	25.0%	298	
1	06	04	02			AWARD: Fast Diodes - Laser Diagnostics	20-May-08	20-May-08	SL_AWARD	\$\$		2,140		2,526	2,526	25.0%	631	
1	06	04	02			Vendor Fab/Ship Fast Diodes - Laser Diagnostics	21-May-08	17-Jul-08	SA_MSEQ2	\$\$		2,000		2,194	2,194	25.0%	548	
1	06	04	02			AWARD: Autocorrelators - Laser Diagnostics	20-May-08	20-May-08	SL_AWARD	\$\$		12,840		15,156	15,156	25.0%	3,789	
1	06	04	02			Fab/Ship Autocorrelators - Laser Diagnostics	21-May-08	17-Jul-08	SA_MSEQ2	\$\$		12,000		13,161	13,161	25.0%	3,290	
1	06	04	02			Prep Bid Pkg Autocorrelators - Laser Diagnostic	11-Mar-08	24-Mar-08	SL_PHS2	Hrs	16		1,194		1,194	25.0%	298	
1	06	04	03			Laser Optical Transport					2,696	184,000	260,447	201,804	462,251		115,563	
1	06	04	03			Specification - Laser Optic Transport	1-Jun-07	27-Jul-07	SL_PHS2	Hrs	40		2,917		2,917	25.0%	729	
1	06	04	03			Specification - Laser Optic Transport	1-Jun-07	27-Jul-07	SL_OE2	Hrs	40		4,508		4,508	25.0%	1,127	
1	06	04	03			Specification - Laser Optic Transport	1-Jun-07	27-Jul-07	SL_ME2	Hrs	40		3,983		3,983	25.0%	996	
1	06	04	03			Conceptual Design - Laser Optic Transport	30-Jul-07	31-Aug-07	SL_PHS2	Hrs	120		8,751		8,751	25.0%	2,188	
1	06	04	03			Conceptual Design - Laser Optic Transport	30-Jul-07	31-Aug-07	SL_OE2	Hrs	120		13,524		13,524	25.0%	3,381	
1	06	04	03			Conceptual Design - Laser Optic Transport	30-Jul-07	31-Aug-07	SL_ME2	Hrs	240		23,899		23,899	25.0%	5,975	
1	06	04	03			Preliminary Design - Laser Optic Transport	4-Sep-07	8-Oct-07	SL_PHS2	Hrs	120		8,792		8,792	25.0%	2,198	
1	06	04	03			Preliminary Design - Laser Optic Transport	4-Sep-07	8-Oct-07	SL_OE2	Hrs	120		13,588		13,588	25.0%	3,397	
1	06	04	03			Preliminary Design - Laser Optic Transport	4-Sep-07	8-Oct-07	SL_ME2	Hrs	240		24,012		24,012	25.0%	6,003	
1	06	04	03			Final Design - Laser Optic Transport	9-Oct-07	19-Nov-07	SL_PHS2	Hrs	120		8,952		8,952	25.0%	2,238	
1	06	04	03			Final Design - Laser Optic Transport	9-Oct-07	19-Nov-07	SL_OE2	Hrs	120		13,835		13,835	25.0%	3,459	
1	06	04	03			Final Design - Laser Optic Transport	9-Oct-07	19-Nov-07	SL_ME2	Hrs	240		24,448		24,448	25.0%	6,112	
1	06	04	03			Design Earthquake restraints for Optical Tables	20-Nov-07	18-Jan-08	SL_PHS2	Hrs	120		8,952		8,952	25.0%	2,238	
1	06	04	03			Design Earthquake restraints for Optical Tables	20-Nov-07	18-Jan-08	SL_OE2	Hrs	120		13,835		13,835	25.0%	3,459	
1	06	04	03			Design Earthquake restraints for Optical Tables	20-Nov-07	18-Jan-08	SL_ME2	Hrs	240		24,448		24,448	25.0%	6,112	
1	06	04	03			Design Enclosures for Optical Tables	20-Nov-07	18-Jan-08	SL_PHS2	Hrs	120		8,952		8,952	25.0%	2,238	
1	06	04	03			Design Enclosures for Optical Tables	20-Nov-07	18-Jan-08	SL_OE2	Hrs	120		13,835		13,835	25.0%	3,459	
1	06	04	03			Design Enclosures for Optical Tables	20-Nov-07	18-Jan-08	SL_ME2	Hrs	240		24,448		24,448	25.0%	6,112	
1	06	04	03			Prep Bid Pkg Lenses & Mirrors - Laser Optic Tran	22-Jan-08	4-Feb-08	SL_PHS2	Hrs	40		2,984		2,984	25.0%	746	
1	06	04	03			AWARD: Contract Lenses & Mirrors-Laser Optic Tra	5-Mar-08	5-Mar-08	SL_AWARD	\$\$		68,480		80,830	80,830	25.0%	20,208	
1	06	04	03			Vendor Fab/Ship Lenses & Mirrors -Laser Optic Tr	6-Mar-08	29-May-08	SA_MSEQ2	\$\$		64,000		70,193	70,193	25.0%	17,548	
1	06	04	03			Prep Bid Pkg Shielding/Contain - Laser Optic Tra	22-Jan-08	19-Feb-08	SL_PHS2	Hrs	40		2,984		2,984	25.0%	746	
1	06	04	03			Prep Bid Pkg Shielding/Contain - Laser Optic Tra	22-Jan-08	19-Feb-08	SL_ME2	Hrs	40		4,075		4,075	25.0%	1,019	
1	06	04	03			AWARD: Contract Shielding/Contai - Laser Optic T	19-Mar-08	19-Mar-08	SL_AWARD	\$\$		14,980		17,682	17,682	25.0%	4,420	
1	06	04	03			Vendor Fab/Ship Shielding/Conta -Laser Optic Tra	20-Mar-08	12-Jun-08	SA_MSEQ2	\$\$		14,000		15,355	15,355	25.0%	3,839	
1	06	04	03			Prep Bid Pkg Optic Tables (4) - Laser Optic Tran	22-Jan-08	4-Feb-08	SL_PHS2	Hrs	20		1,492		1,492	25.0%	373	
1	06	04	03			Prep Bid Pkg Optic Tables (4) - Laser Optic Tran	22-Jan-08	4-Feb-08	SL_ME2	Hrs	20		2,037		2,037	25.0%	509	
1	06	04	03			AWARD: Contract Optic Tables (4) - Laser Optic T	5-Mar-08	5-Mar-08	SL_AWARD	\$\$		107,000		126,297	126,297	25.0%	31,574	
1	06	04	03			Vendor Fab/Ship Optic Tables (4) -Laser Optic Tr	6-Mar-08	29-May-08	SA_MSEQ2	\$\$		100,000		109,676	109,676	25.0%	27,419	
1	06	04	03			Prep Bid Pkg Cabinets - Laser Optic Transport	22-Jan-08	4-Feb-08	SL_PHS2	Hrs	16		1,194		1,194	25.0%	298	
1	06	04	03			AWARD: Contract Cabinets - Laser Optic Transport	5-Mar-08	5-Mar-08	SL_AWARD	\$\$		3,210		3,789	3,789	25.0%	947	
1	06	04	03			Vendor Fab/Ship Cabinets -Laser Optic Transport	6-Mar-08	30-Apr-08	SA_MSEQ2	\$\$		3,000		3,290	3,290	25.0%	823	

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early	Early	Res	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont	Contingency
						Description	Start	Finish	Code		Hours	\$	Labor	M&S	Total	%	\$
1	06	04	03	5	6	Procure Enclosures for Optical Tables	22-Jan-08	18-Mar-08	SL_MSEQ2	\$\$		3,000		3,290	3,290	25.0%	823
1	06	04	04	Laser Safety						360	9,000		9,871	43,142		10,785	
1	06	04	04	Write SOP - Laser Safety		30-Apr-08	25-Jun-08	SL_PHS2	Hrs	40		2,984	2,984	2,984	25.0%	746	
1	06	04	04	Prepare for Laser Safety PDR		30-Jul-07	19-Nov-07	SL_PHS2	Hrs	40		2,946	2,946	2,946	25.0%	737	
1	06	04	04	Prepare for Laser Safety PDR		30-Jul-07	19-Nov-07	SL_OE2	Hrs	40		4,553	4,553	4,553	25.0%	1,138	
1	06	04	04	Prepare for Laser Safety Oversight Comm. Review		6-Dec-07	15-Apr-08	SL_PHS2	Hrs	40		2,984	2,984	2,984	25.0%	746	
1	06	04	04	Prepare for Laser Safety Oversight Comm. Review		6-Dec-07	15-Apr-08	SL_OE2	Hrs	40		4,612	4,612	4,612	25.0%	1,153	
1	06	04	04	Prepare for Laser Safety FDR		6-Dec-07	19-Feb-08	SL_PHS2	Hrs	40		2,984	2,984	2,984	25.0%	746	
1	06	04	04	Prepare for Laser Safety FDR		6-Dec-07	19-Feb-08	SL_OE2	Hrs	40		4,612	4,612	4,612	25.0%	1,153	
1	06	04	04	Prepare for Laser Safety Committee Review		30-Apr-08	24-Jul-08	SL_PHS2	Hrs	40		2,984	2,984	2,984	25.0%	746	
1	06	04	04	Prepare for Laser Safety Committee Review		30-Apr-08	24-Jul-08	SL_OE2	Hrs	40		4,612	4,612	4,612	25.0%	1,153	
1	06	04	04	Procure Laser PPS		8-Aug-08	21-Aug-08	SL_MSEQ2	\$\$		9,000		9,871	9,871	25.0%	2,468	
1	06	05	X-Ray Detectors							3,546	-	264,806	-	264,806		52,961	
1	06	05	04	Detector & Streak Camera						3,546	-	264,806	-	264,806		52,961	
1	06	05	04	01	Detector Management					3,546	-	264,806	-	264,806		52,961	
1	06	05	04	01	Detector Engineering		1-May-07	31-Oct-08	SL_PHS2	Hrs	2,783		206,576	206,576	206,576	20.0%	41,315
1	06	05	04	01	Detector Engineering Nov08 thru Aug09		3-Nov-08	31-Aug-09	SL_PHS2	Hrs	763		58,230	58,230	58,230	20.0%	11,646
1	06	06	System Installation & Alignment							12,120	-	1,111,981	-	1,111,981		309,275	
1	06	06	01	Front End Install						596	-	53,507	-	53,507		13,377	
1	06	06	01	Install FEE components - XE		5-Jun-08	28-Aug-08	SL_MVE2	Hrs	16		1,733	1,733	1,733	25.0%	433	
1	06	06	01	Install FEE components - XE		5-Jun-08	28-Aug-08	SL_MFAT2	Hrs	344		30,241	30,241	30,241	25.0%	7,560	
1	06	06	01	Install FEE components - XE		5-Jun-08	28-Aug-08	SL_MES2	Hrs	32		2,621	2,621	2,621	25.0%	655	
1	06	06	01	Install FEE components - XE		5-Jun-08	28-Aug-08	SL_ME2	Hrs	76		7,742	7,742	7,742	25.0%	1,935	
1	06	06	01	Install PPS/BCS conduits & wiring - FEE & NEH		4-Jun-08	24-Jun-08	SL_MFAT2	Hrs	64		5,626	5,626	5,626	25.0%	1,407	
1	06	06	01	Install PPS/BCS conduits & wiring - FEE & NEH		4-Jun-08	24-Jun-08	SL_CT2	Hrs	16		1,010	1,010	1,010	25.0%	252	
1	06	06	01	Install PPS/BCS conduits & wiring - FEE & NEH		4-Jun-08	24-Jun-08	SL_CP2	Hrs	32		2,690	2,690	2,690	25.0%	672	
1	06	06	01	Install PPS/BCS conduits & wiring - FEE & NEH		4-Jun-08	24-Jun-08	SL_CE2	Hrs	16		1,845	1,845	1,845	25.0%	461	
1	06	06	02	Near Hall Install						9,704	-	891,825	-	891,825		239,848	
1	06	06	02	08	2008 Near Hall Install					9,704	-	891,825	-	891,825		239,848	
1	06	06	02	08	Install NEH Beamline components - XE		18-Jul-08	28-Aug-08	SL_MFAT2	Hrs	848		74,546	74,546	74,546	30.0%	22,364
1	06	06	02	08	Install NEH Beamline components - XE		18-Jul-08	28-Aug-08	SL_MES2	Hrs	8		655	655	655	30.0%	197
1	06	06	02	08	Install NEH Beamline components - XE		18-Jul-08	28-Aug-08	SL_ME2	Hrs	160		16,299	16,299	16,299	30.0%	4,890
1	06	06	02	08	Install NEH Beamline components - XE		18-Jul-08	28-Aug-08	SL_CT2	Hrs	567		35,789	35,789	35,789	30.0%	10,737
1	06	06	02	08	Install NEH Beamline components - XE		18-Jul-08	28-Aug-08	SL_CP2	Hrs	580		48,755	48,755	48,755	30.0%	14,627
1	06	06	02	08	Install NEH Beamline components - XE		18-Jul-08	28-Aug-08	SL_CE2	Hrs	567		65,371	65,371	65,371	30.0%	19,611
1	06	06	02	08	Install NEH Laser Components - XE		22-Aug-08	24-Oct-08	SL_PHS2	Hrs	400		30,091	30,091	30,091	25.0%	7,523
1	06	06	02	08	Install NEH Laser Components - XE		22-Aug-08	24-Oct-08	SL_OE2	Hrs	720		83,708	83,708	83,708	25.0%	20,927
1	06	06	02	08	Install NEH Laser Components - XE		22-Aug-08	24-Oct-08	SL_ME2	Hrs	320		32,871	32,871	32,871	25.0%	8,218
1	06	06	02	08	Install basic AMO Experiment - XE		21-Oct-08	17-Dec-08	SL_PHS2	Hrs	200		15,263	15,263	15,263	25.0%	3,816
1	06	06	02	08	Install basic AMO Experiment - XE		21-Oct-08	17-Dec-08	SL_MFAT2	Hrs	800		71,944	71,944	71,944	25.0%	17,986
1	06	06	02	08	Install basic AMO Experiment - XE		21-Oct-08	17-Dec-08	SL_ME2	Hrs	400		41,684	41,684	41,684	25.0%	10,421
1	06	06	02	08	Install basic AMO Experiment - XE		21-Oct-08	17-Dec-08	SL_CT2	Hrs	400		25,829	25,829	25,829	25.0%	6,457
1	06	06	02	08	Install basic AMO Experiment - XE		21-Oct-08	17-Dec-08	SL_CP2	Hrs	800		68,795	68,795	68,795	25.0%	17,199
1	06	06	02	08	Install basic AMO Experiment - XE		21-Oct-08	17-Dec-08	SL_CE2	Hrs	400		47,178	47,178	47,178	25.0%	11,794
1	06	06	02	08	Test NEH components - XE		5-Nov-09	16-Dec-09	SL_PHS2	Hrs	40		3,123	3,123	3,123	25.0%	781
1	06	06	02	08	Test NEH components - XE		5-Nov-09	16-Dec-09	SL_MFAT2	Hrs	160		14,720	14,720	14,720	25.0%	3,680
1	06	06	02	08	Test NEH components - XE		5-Nov-09	16-Dec-09	SL_ME2	Hrs	80		8,529	8,529	8,529	25.0%	2,132
1	06	06	02	08	Test NEH components - XE		5-Nov-09	16-Dec-09	SL_CT2	Hrs	80		5,285	5,285	5,285	25.0%	1,321
1	06	06	02	08	Test NEH components - XE		5-Nov-09	16-Dec-09	SL_CP2	Hrs	160		14,075	14,075	14,075	25.0%	3,519
1	06	06	02	08	Test NEH components - XE		5-Nov-09	16-Dec-09	SL_CE2	Hrs	80		9,653	9,653	9,653	25.0%	2,413
1	06	06	02	08	Terminate cable plant NEH - XE		14-Oct-08	10-Nov-08	SL_TMUP2	Hrs	176		16,888	16,888	16,888	25.0%	4,222
1	06	06	02	08	Terminate cable plant NEH - XE		14-Oct-08	10-Nov-08	SL_MFAT2	Hrs	48		4,317	4,317	4,317	25.0%	1,079
1	06	06	02	08	Terminate cable plant NEH - XE		14-Oct-08	10-Nov-08	SL_CT2	Hrs	30		1,937	1,937	1,937	25.0%	484
1	06	06	02	08	Terminate cable plant NEH - XE		14-Oct-08	10-Nov-08	SL_CP2	Hrs	60		5,160	5,160	5,160	25.0%	1,290
1	06	06	02	08	Terminate cable plant NEH - XE		14-Oct-08	10-Nov-08	SL_CE2	Hrs	30		3,538	3,538	3,538	25.0%	885
1	06	06	02	08	Checkout NEH System - XE		11-Nov-08	10-Dec-08	SL_MFAT2	Hrs	40		3,597	3,597	3,597	40.0%	1,439
1	06	06	02	08	Checkout NEH System - XE		11-Nov-08	10-Dec-08	SL_CT2	Hrs	50		3,229	3,229	3,229	40.0%	1,291
1	06	06	02	08	Checkout NEH System - XE		11-Nov-08	10-Dec-08	SL_CP2	Hrs	140		12,039	12,039	12,039	40.0%	4,816
1	06	06	02	08	Checkout NEH System - XE		11-Nov-08	10-Dec-08	SL_CE2	Hrs	90		10,615	10,615	10,615	40.0%	4,246
1	06	06	02	08	Install PPS/BCS racks in NEH		25-Jun-08	9-Jul-08	SL_MFAT2	Hrs	64		5,626	5,626	5,626	25.0%	1,407
1	06	06	02	08	Install PPS/BCS racks in NEH		25-Jun-08	9-Jul-08	SL_CT2	Hrs	15		947	947	947	25.0%	237
1	06	06	02	08	Install PPS/BCS racks in NEH		25-Jun-08	9-Jul-08	SL_CP2	Hrs	40		3,362	3,362	3,362	25.0%	841
1	06	06	02	08	Install PPS/BCS racks in NEH		25-Jun-08	9-Jul-08	SL_CE2	Hrs	15		1,729	1,729	1,729	25.0%	432
1	06	06	02	08	Install HPS in NEH		10-Jul-08	30-Jul-08	SL_CP2	Hrs	40		3,362	3,362	3,362	30.0%	1,009
1	06	06	02	08	Install HPS in NEH		10-Jul-08	30-Jul-08	SL_CE2	Hrs	40		4,612	4,612	4,612	30.0%	1,384
1	06	06	02	08	Checkout/verify PPS/BCS through NEH		31-Jul-08	27-Aug-08	SL_CT2	Hrs	164		10,352	10,352	10,352	25.0%	2,588
1	06	06	02	08	Checkout/verify PPS/BCS through NEH		31-Jul-08	27-Aug-08	SL_CP2	Hrs	528		44,384	44,384	44,384	25.0%	11,096
1	06	06	02	08	Checkout/verify PPS/BCS through NEH		31-Jul-08	27-Aug-08	SL_CE2	Hrs	364		41,967	41,967	41,967	25.0%	10,492
1	06	06	03	Tunnel Install						466	-	42,225	-	42,225		10,556	
1	06	06	03	Install X-Ray tunnel components - XE		3-Feb-09	2-Mar-09	SL_TMUP2	Hrs	48		4,606	4,606	4,606	25.0%	1,151	
1	06	06	03	Install X-Ray tunnel components - XE		3-Feb-09	2-Mar-09	SL_MVE2	Hrs	12		1,330	1,330	1,330	25.0%	332	
1	06	06	03	Install X-Ray tunnel components - XE		3-Feb-09	2-Mar-09	SL_MFAT2	Hrs	152		13,669	13,669	13,669	25.0%	3,417	

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont %	Contingency \$	
Description						Hours					\$	Labor	M&S	Total				
1	2	3	4	5	6													
1	06	06	03			Install X-Ray tunnel components - XE	3-Feb-09	2-Mar-09	SL_CT2	Hrs	4		258		258	25.0%	65	
1	06	06	03			Install X-Ray tunnel components - XE	3-Feb-09	2-Mar-09	SL_CP2	Hrs	8		688		688	25.0%	172	
1	06	06	03			Install X-Ray tunnel components - XE	3-Feb-09	2-Mar-09	SL_CE2	Hrs	4		472		472	25.0%	118	
1	06	06	03			Checkout X-Ray tunnel systems - XE	10-Aug-09	4-Sep-09	SL_MFAT2	Hrs	8		719		719	25.0%	180	
1	06	06	03			Install PPS conduits, wiring, racks - X-Ray & FEH	5-Mar-09	8-Apr-09	SL_MFAT2	Hrs	96		8,633		8,633	25.0%	2,158	
1	06	06	03			Install PPS conduits, wiring, racks - X-Ray & FEH	5-Mar-09	8-Apr-09	SL_CT2	Hrs	31		2,002		2,002	25.0%	500	
1	06	06	03			Install PPS conduits, wiring, racks - X-Ray & FEH	5-Mar-09	8-Apr-09	SL_CP2	Hrs	72		6,192		6,192	25.0%	1,548	
1	06	06	03			Install PPS conduits, wiring, racks - X-Ray & FEH	5-Mar-09	8-Apr-09	SL_CE2	Hrs	31		3,656		3,656	25.0%	914	
1	06	06	04			Far Hall Install						1,202	-	110,454	-	110,454		42,550
1	06	06	04	06		2008 Far Hall Install						1,202	-	110,454	-	110,454		42,550
1	06	06	04	06		Install FEH components - XE	2-Jul-09	16-Oct-09	SL_MFAT2	Hrs	48		4,331		4,331	40.0%	1,732	
1	06	06	04	06		Install FEH components - XE	2-Jul-09	16-Oct-09	SL_CT2	Hrs	247		16,001		16,001	40.0%	6,400	
1	06	06	04	06		Install FEH components - XE	2-Jul-09	16-Oct-09	SL_CP2	Hrs	420		36,235		36,235	40.0%	14,494	
1	06	06	04	06		Install FEH components - XE	2-Jul-09	16-Oct-09	SL_CE2	Hrs	247		29,227		29,227	40.0%	11,691	
1	06	06	04	06		Checkout Far Hall systems - XE	16-Nov-09	11-Dec-09	SL_CP2	Hrs	40		3,519		3,519	40.0%	1,408	
1	06	06	04	06		Checkout Far Hall systems - XE	16-Nov-09	11-Dec-09	SL_CE2	Hrs	40		4,826		4,826	40.0%	1,931	
1	06	06	04	06		Install HPS in FEH	1-Jul-09	22-Jul-09	SL_CP2	Hrs	80		6,880		6,880	30.0%	2,064	
1	06	06	04	06		Install HPS in FEH	1-Jul-09	22-Jul-09	SL_CE2	Hrs	80		9,436		9,436	30.0%	2,831	
1	06	06	05			Electron Dump Enclosure Install						152	-	13,969	-	13,969		2,944
1	06	06	05			Install Dump components - XE	26-Mar-08	18-Jun-08	SL_TMUP2	Hrs	32		3,002		3,002	20.0%	600	
1	06	06	05			Install Dump components - XE	26-Mar-08	18-Jun-08	SL_MVE2	Hrs	16		1,733		1,733	20.0%	347	
1	06	06	05			Install Dump components - XE	26-Mar-08	18-Jun-08	SL_MFAT2	Hrs	56		4,923		4,923	20.0%	985	
1	06	06	05			Install Dump components - XE	26-Mar-08	18-Jun-08	SL_MES2	Hrs	16		1,310		1,310	20.0%	262	
1	06	06	05			Install PPS/BCS conduits & wiring - BTH/Und/Dump	15-Apr-08	19-May-08	SL_TMUP2	Hrs	32		3,002		3,002	25.0%	750	
1	06	07				AMOS Experiment						10,076	1,788,147	1,045,727	1,984,106	3,029,833		852,293
1	06	07	01			AP Management & Design						6,394	-	720,803	-	720,803		158,578
1	06	07	01	01		Management						3,298	-	409,153	-	409,153		81,831
1	06	07	01	01		Management of AMO Experiment	1-May-07	31-Oct-08	SL_PHPU2	Hrs	2,315		289,273		289,273	20.0%	57,855	
1	06	07	01	01		Management of AMO Experiment - Nov08 thru Aug09	3-Nov-08	31-Aug-09	SL_PHPU2	Hrs	823		105,734		105,734	20.0%	21,147	
1	06	07	01	01		Plan assembly/installation X1-high field physics	28-Apr-08	23-May-08	SL_MFAT2	Hrs	40		3,516		3,516	20.0%	703	
1	06	07	01	01		Plan assembly/installation of refocus optics	28-Apr-08	23-May-08	SL_MFAT2	Hrs	40		3,516		3,516	20.0%	703	
1	06	07	01	01		Plan assembly/installation of diagnostics	28-Apr-08	23-May-08	SL_MFAT2	Hrs	40		3,516		3,516	20.0%	703	
1	06	07	01	01		Plan assembly/installation X2 - particle imaging	1-Oct-08	28-Oct-08	SL_MFAT2	Hrs	40		3,597		3,597	20.0%	719	
1	06	07	01	02		Conceptual Design						96	-	9,559	-	9,559		1,912
1	06	07	01	02		SCR Safety Review	18-Jun-07	29-Jun-07	SL_ME2	Hrs	80		7,966		7,966	20.0%	1,593	
1	06	07	01	02		Post-System concept review (SCR)	1-May-07	11-May-07	SL_ME2	Hrs	16		1,593		1,593	20.0%	319	
1	06	07	01	03		Preliminary Design						900	-	89,620	-	89,620		22,564
1	06	07	01	03		Preliminary design - X1 High Field Physics	1-May-07	15-Jun-07	SL_ME2	Hrs	160		15,932		15,932	25.0%	3,983	
1	06	07	01	03		Preliminary design - Refocus optics	1-May-07	15-Jun-07	SL_ME2	Hrs	56		5,576		5,576	35.0%	1,952	
1	06	07	01	03		Preliminary design - Diagnostics	1-May-07	15-Jun-07	SL_ME2	Hrs	64		6,373		6,373	25.0%	1,593	
1	06	07	01	03		Preliminary design - X2 Particle Imaging	1-May-07	11-Jul-07	SL_ME2	Hrs	160		15,932		15,932	35.0%	5,576	
1	06	07	01	03		PDR Safety Review	18-Jun-07	29-Jun-07	SL_ME2	Hrs	60		5,975		5,975	25.0%	1,494	
1	06	07	01	03		Prepare/hold PDR	2-Jul-07	16-Jul-07	SL_ME2	Hrs	80		7,966		7,966	20.0%	1,593	
1	06	07	01	03		Preliminary design review (PDR)	24-Jul-07	20-Aug-07	SL_ME2	Hrs	320		31,865		31,865	20.0%	6,373	
1	06	07	01	04		Final Design						2,100	-	212,471	-	212,471		52,271
1	06	07	01	04		Specify components - X1 High Field Physics	18-Jun-07	23-Jul-07	SL_ME2	Hrs	100		9,958		9,958	25.0%	2,489	
1	06	07	01	04		Final design - X1 High Field Physics	21-Aug-07	13-Dec-07	SL_ME2	Hrs	640		64,668		64,668	25.0%	16,167	
1	06	07	01	04		Specify components - Refocus optics	17-Jul-07	30-Jul-07	SL_ME2	Hrs	80		7,966		7,966	35.0%	2,788	
1	06	07	01	04		Final design - Refocus optics	21-Aug-07	13-Dec-07	SL_ME2	Hrs	160		16,167		16,167	35.0%	5,658	
1	06	07	01	04		Specify components - Diagnostics	18-Jun-07	29-Jun-07	SL_ME2	Hrs	80		7,966		7,966	25.0%	1,992	
1	06	07	01	04		Final design - Diagnostics	21-Aug-07	13-Dec-07	SL_ME2	Hrs	240		24,251		24,251	25.0%	6,063	
1	06	07	01	04		FDR Safety Review	14-Dec-07	16-Jan-08	SL_ME2	Hrs	160		16,299		16,299	25.0%	4,075	
1	06	07	01	04		Prepare/hold FDR	17-Jan-08	31-Jan-08	SL_ME2	Hrs	160		16,299		16,299	20.0%	3,260	
1	06	07	01	04		Final design review (FDR)	1-Feb-08	25-Apr-08	SL_ME2	Hrs	480		48,897		48,897	20.0%	9,779	
1	06	07	02			AP X1 High Field Physics Exp.						2,080	1,248,661	183,211	1,386,910	1,570,122		447,481
1	06	07	02			Assemble - HF Physics Exp CD4a	16-Sep-08	10-Nov-08	SL_PCT2	Hrs	40		2,567		2,567	25.0%	642	
1	06	07	02			Assemble - HF Physics Exp CD4a	16-Sep-08	10-Nov-08	SL_MFAT2	Hrs	200		17,876		17,876	25.0%	4,469	
1	06	07	02			Assemble - HF Physics Exp CD4a	16-Sep-08	10-Nov-08	SL_ME2	Hrs	100		10,357		10,357	25.0%	2,589	
1	06	07	02			Readiness/Safety Review - X1 High Field Physics	11-Nov-08	24-Nov-08	SL_MFAT2	Hrs	80		7,194		7,194	25.0%	1,799	
1	06	07	02			Testing - HF Physics Exp CD4a	25-Nov-08	24-Dec-08	SL_MFAT2	Hrs	80		7,194		7,194	35.0%	2,518	
1	06	07	02	01		X-Ray Fluorescence Detectors						380	600,000	33,236	673,193	706,428		189,863
1	06	07	02	01		Bid/Evaluate/RFP - X-Ray Fluor. Spectrometer	2-Jun-08	20-Jun-08	SL_ME2	Hrs	40		4,075		4,075	25.0%	1,019	
1	06	07	02	01		AWARD: X-Ray Fluor. Spectrometer	1-Oct-08	1-Oct-08	SL_AWARD	\$\$		660,000		799,283		799,283	25.0%	199,821
1	06	07	02	01		Fab/Deliver - X-Ray Fluor. Spectrometer	2-Oct-08	12-Aug-09	SA_MSEQ2	\$\$		600,000		673,193		673,193	27.0%	181,762
1	06	07	02	01		Assemble - X-Ray Fluor. Spectrometer	13-Aug-09	26-Aug-09	SL_MFAT2	Hrs	120		10,792		10,792	25.0%	2,698	
1	06	07	02	01		Readiness/Safety Review - X-Ray Fluor. Spectrom	27-Aug-09	2-Sep-09	SL_ME2	Hrs	40		4,168		4,168	20.0%	834	
1	06	07	02	01		Testing - X-Ray Fluor. Spectrometer	3-Sep-09	23-Sep-09	SL_PHPD2	Hrs	120		8,805		8,805	25.0%	2,201	
1	06	07	02	01		Testing - X-Ray Fluor. Spectrometer	3-Sep-09	23-Sep-09	SL_MFAT2	Hrs	60		5,396		5,396	25.0%	1,349	
1	06	07	02	02		Ion Imaging & Electron TOF Detectors						800	260,378	68,367	287,864	356,230		99,355
1	06	07	02	02		Bid/Evaluate/RFP - TOF Detectors	21-Aug-07	13-Dec-07	SL_ME2	Hrs	40		4,042		4,042	25.0%	1,010	
1	06	07	02	02		AWARD: TOF Detectors	17-Jan-08	17-Jan-08	SL_AWARD	\$\$		181,435		214,156		214,156	25.0%	53,539
1	06	07	02	02		Fab/Deliver - TOF Detectors	18-Jan-08	12-May-08	SA_MSEQ2	\$\$		169,565		185,973		185,973	33.0%	61,371

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escldd Cost			Cont %	Contingency \$
Description						Hours					\$	Labor	M&S	Total			
1	06	07	02	02	6	Bid/Evaluate/RFP - Ion Imaging Detector	1-Oct-08	11-Nov-08	SL_ME2	Hrs	40		4,168		4,168	35.0%	1,459
1	06	07	02	02	AWARD: Ion Imaging Detector	12-Dec-08	12-Dec-08	SL_AWARD	\$\$			99,894		120,975	120,975	35.0%	42,341
1	06	07	02	02	Fab/Deliver - Ion Imaging Detector	15-Dec-08	21-Apr-09	SA_MSEQ2	\$\$			90,813		101,891	101,891	22.0%	22,416
1	06	07	02	02	Assemble - TOF Detectors	21-Jul-08	15-Sep-08	SL_MFAT2	Hrs	120			10,549		10,549	25.0%	2,637
1	06	07	02	02	Readiness/Safety Review - TOF Detectors	16-Sep-08	22-Sep-08	SL_ME2	Hrs	40			4,075		4,075	20.0%	815
1	06	07	02	02	Testing - TOF Detectors	23-Sep-08	20-Oct-08	SL_PHPD2	Hrs	160			11,662		11,662	20.0%	2,332
1	06	07	02	02	Testing - TOF Detectors	23-Sep-08	20-Oct-08	SL_MFAT2	Hrs	40			3,573		3,573	20.0%	715
1	06	07	02	02	Assemble - Ion Imaging Detector	6-May-09	2-Jun-09	SL_MFAT2	Hrs	120			10,792		10,792	25.0%	2,698
1	06	07	02	02	Readiness/Safety Review - Ion Imaging Detector	3-Jun-09	9-Jun-09	SL_ME2	Hrs	40			4,168		4,168	20.0%	834
1	06	07	02	02	Testing - Ion Imaging Detector	10-Jun-09	8-Jul-09	SL_PHPD2	Hrs	160			11,740		11,740	20.0%	2,348
1	06	07	02	02	Testing - Ion Imaging Detector	10-Jun-09	8-Jul-09	SL_MFAT2	Hrs	40			3,597		3,597	20.0%	719
1	06	07	02	03	Sample Source						320	129,246	28,337	141,752	170,089		43,694
1	06	07	02	03	Bid/Evaluate/RFP - X1 Sample Source	21-Aug-07	13-Dec-07	SL_ME2	Hrs	40			4,042		4,042	25.0%	1,010
1	06	07	02	03	AWARD: X1 Sample Source	17-Jan-08	17-Jan-08	SL_AWARD	\$\$			138,293		163,233	163,233	25.0%	40,808
1	06	07	02	03	Fab/Deliver - X1 Sample Source	18-Jan-08	12-May-08	SA_MSEQ2	\$\$			129,246		141,752	141,752	26.0%	36,856
1	06	07	02	03	Assemble - X1 Sample Source	21-Jul-08	15-Sep-08	SL_PCT2	Hrs	40			2,525		2,525	20.0%	505
1	06	07	02	03	Assemble - X1 Sample Source	21-Jul-08	15-Sep-08	SL_MFAT2	Hrs	120			10,549		10,549	20.0%	2,110
1	06	07	02	03	Readiness/Safety Review - X1 Sample Source	16-Sep-08	22-Sep-08	SL_ME2	Hrs	40			4,075		4,075	35.0%	1,426
1	06	07	02	03	Testing - X1 Sample Source	23-Sep-08	20-Oct-08	SL_MFAT2	Hrs	80			7,146		7,146	25.0%	1,787
1	06	07	02	04	Vacuum System						40	195,837	4,042	214,787	218,828		76,186
1	06	07	02	04	Bid/Evaluate/RFP - X1 Vacuum System	21-Aug-07	13-Dec-07	SL_ME2	Hrs	40			4,042		4,042	25.0%	1,010
1	06	07	02	04	AWARD: X1 Vacuum System	17-Jan-08	17-Jan-08	SL_AWARD	\$\$			209,546		247,337	247,337	25.0%	61,834
1	06	07	02	04	Fab/Deliver - X1 Vacuum System	18-Jan-08	12-May-08	SA_MSEQ2	\$\$			195,837		214,787	214,787	35.0%	75,175
1	06	07	02	05	Other X1 Items						40	63,200	4,042	69,315	73,357		26,368
1	06	07	02	05	Bid/Evaluate/RFP - Differential Pumping	21-Aug-07	13-Dec-07	SL_ME2	Hrs	40			4,042		4,042	35.0%	1,415
1	06	07	02	05	AWARD: Differential Pumping	17-Jan-08	17-Jan-08	SL_AWARD	\$\$			67,624		79,820	79,820	35.0%	27,937
1	06	07	02	05	Fab/Deliver - Differential Pumping	18-Jan-08	12-May-08	SA_MSEQ2	\$\$			63,200		69,315	69,315	36.0%	24,954
1	06	07	03	AP Refocus Optics						480	256,881	47,614	286,741	334,355		120,216	
1	06	07	03	Bid/Evaluate/RFP - Optics Assembly	2-Jun-08	25-Aug-08	SL_ME2	Hrs	100			10,187		10,187	35.0%	3,565	
1	06	07	03	AWARD: Optics Assembly	1-Oct-08	1-Oct-08	SL_AWARD	\$\$			71,500		86,589	86,589	35.0%	30,306	
1	06	07	03	Fab/Deliver - Optics Assembly	2-Oct-08	12-Aug-09	SA_MSEQ2	\$\$			65,000		72,929	72,929	45.0%	32,818	
1	06	07	03	Optics Metrology	13-Aug-09	7-Oct-09	SL_MSSC2	\$\$			30,000		33,744	33,744	35.0%	11,810	
1	06	07	03	Bid/Evaluate/RFP - Optics Chamber	21-Aug-07	13-Dec-07	SL_ME2	Hrs	60			6,063		6,063	20.0%	1,213	
1	06	07	03	AWARD: Optics Chamber	17-Jan-08	17-Jan-08	SL_AWARD	\$\$			29,833		35,213	35,213	20.0%	7,043	
1	06	07	03	Fab/Deliver - Optics Chamber	18-Jan-08	9-Jul-08	SA_MSEQ2	\$\$			27,881		30,579	30,579	29.0%	8,868	
1	06	07	03	Bid/Evaluate/RFP - Focus Verification	21-Aug-07	13-Dec-07	SL_ME2	Hrs	40			4,042		4,042	35.0%	1,415	
1	06	07	03	AWARD: Focus Verification	17-Jan-08	17-Jan-08	SL_AWARD	\$\$			36,380		42,941	42,941	35.0%	15,029	
1	06	07	03	Fab/Deliver - Focus Verification	18-Jan-08	12-May-08	SA_MSEQ2	\$\$			34,000		37,290	37,290	33.0%	12,306	
1	06	07	03	Bid/Evaluate/RFP - RO Stand	1-May-08	22-Aug-08	SL_ME2	Hrs	40			4,075		4,075	20.0%	815	
1	06	07	03	AWARD: RO Stand	1-Oct-08	1-Oct-08	SL_AWARD	\$\$			110,000		133,214	133,214	20.0%	26,643	
1	06	07	03	Fab/Deliver - RO Stand	2-Oct-08	27-Jan-09	SA_MSEQ2	\$\$			100,000		112,199	112,199	35.0%	39,270	
1	06	07	03	Assemble - Refocus Optics	8-Oct-09	4-Nov-09	SL_MFAT2	Hrs	160			14,720		14,720	35.0%	5,152	
1	06	07	03	Assemble - Refocus Optics	8-Oct-09	4-Nov-09	SL_ME2	Hrs	80			8,529		8,529	35.0%	2,985	
1	06	07	04	AP Diagnostics						1,122	282,605	94,098	310,455	404,553		126,018	
1	06	07	04	Bid/Evaluate/RFP - CD4a Diagnostic Equipment	21-Aug-07	13-Dec-07	SL_ME2	Hrs	40			4,042		4,042	35.0%	1,415	
1	06	07	04	AWARD: CD4a Diagnostic Equipment	17-Jan-08	17-Jan-08	SL_AWARD	\$\$			280,987		331,662	331,662	35.0%	116,082	
1	06	07	04	Fab/Deliver - CD4a Diagnostic Equipment	18-Jan-08	12-May-08	SA_MSEQ2	\$\$			262,605		288,015	288,015	34.0%	97,925	
1	06	07	04	Assemble - CD4a Diagnostic Equipment	31-Jul-08	4-Sep-08	SL_PCT2	Hrs	16			1,010		1,010	20.0%	202	
1	06	07	04	Assemble - CD4a Diagnostic Equipment	31-Jul-08	4-Sep-08	SL_MFAT2	Hrs	200			17,582		17,582	20.0%	3,516	
1	06	07	04	Readiness/Safety Review - CD4a Diagnostic Equipm	5-Sep-08	11-Sep-08	SL_ME2	Hrs	40			4,075		4,075	25.0%	1,019	
1	06	07	04	Testing - CD4a Diagnostic Equipment	12-Sep-08	9-Oct-08	SL_PHPD2	Hrs	320			23,109		23,109	20.0%	4,622	
1	06	07	04	Testing - CD4a Diagnostic Equipment	12-Sep-08	9-Oct-08	SL_MFAT2	Hrs	160			14,161		14,161	20.0%	2,832	
1	06	07	04	Bid/Evaluate/RFP - CD4b Diagnostic Equipment	1-Oct-08	26-Jan-09	SL_ME2	Hrs	40			4,168		4,168	35.0%	1,459	
1	06	07	04	AWARD: CD4b Diagnostic Equipment	24-Feb-09	24-Feb-09	SL_AWARD	\$\$			22,000		26,643	26,643	35.0%	9,325	
1	06	07	04	Fab/Deliver - CD4b Diagnostic Equipment	25-Feb-09	16-Jun-09	SA_MSEQ2	\$\$			20,000		22,440	22,440	34.0%	7,630	
1	06	07	04	Assemble - CD4b Diagnostic Equipment	16-Jul-09	29-Jul-09	SL_PCT2	Hrs	6			387		387	20.0%	77	
1	06	07	04	Assemble - CD4b Diagnostic Equipment	16-Jul-09	29-Jul-09	SL_MFAT2	Hrs	80			7,194		7,194	20.0%	1,439	
1	06	07	04	Readiness/Safety Review - CD4b Diagnostic Equipm	30-Jul-09	5-Aug-09	SL_ME2	Hrs	40			4,168		4,168	25.0%	1,042	
1	06	07	04	Testing - CD4b Diagnostic Equipment	6-Aug-09	16-Sep-09	SL_PHPD2	Hrs	120			8,805		8,805	20.0%	1,761	
1	06	07	04	Testing - CD4b Diagnostic Equipment	6-Aug-09	16-Sep-09	SL_MFAT2	Hrs	60			5,396		5,396	20.0%	1,079	
1	06	08		Crystals and Gratings						44	20,000	5,514	21,935	27,450		6,862	
1	06	08	01	K Measurement Spectrometer						44	20,000	5,514	21,935	27,450		6,862	
1	06	08	01	Prepare PRD - K Meas.	1-May-07	11-May-07	SL_PHPU2	Hrs	4			491		491	25.0%	123	
1	06	08	01	Prepare Bid Docs - Si Crystal (2)	20-Dec-07	8-Jan-08	SL_PHPU2	Hrs	10			1,256		1,256	25.0%	314	
1	06	08	01	Bid and Award - Si Crystal (2)	9-Jan-08	21-Feb-08	SL_PHPU2	Hrs	30			3,768		3,768	25.0%	942	
1	06	08	01	AWARD: Si Crystal (2)	22-Feb-08	22-Feb-08	SL_AWARD	\$\$			21,400		25,259	25,259	25.0%	6,315	
1	06	08	01	Fab and Deliver - Si Crystal (2)	25-Feb-08	16-May-08	SA_MSEQ2	\$\$			20,000		21,935	21,935	25.0%	5,484	
1	06	09		Mechanical Systems						4,506	366,000	427,382	401,415	828,797		207,199	
1	06	09	01	PPS Stoppers						2,248	300,000	214,850	329,029	543,879		135,970	
1	06	09	01	Prepare PRD - PPS Beam Stop Hardware	1-May-07	31-May-07	SL_PHS2	Hrs	40			2,917		2,917	25.0%	729	
1	06	09	01	PRD Review - PPS Beam Stop Hardware	1-Jun-07	7-Jun-07	SL_PHS2	Hrs	80			5,834		5,834	25.0%	1,458	
1	06	09	01	Prepare Final Design - PPS Beam Stop Hardware	8-May-07	7-Jun-07	SL_ME2	Hrs	40			3,983		3,983	25.0%	996	

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont %	Contingency \$
Description										Hours	\$	Labor	M&S	Total			
1	06	09	01	5	6	Prepare Final Design - PPS Beam Stop Hardware	8-May-07	7-Jun-07	SL_MDD2	Hrs	80		6,679		6,679	25.0%	1,670
1	06	09	01	Final Design Review - PPS Beam Stop Hardware	8-Jun-07	21-Jun-07	SL_ME2	Hrs	80		7,966		7,966	25.0%	1,992		
1	06	09	01	Final Design Review - PPS Beam Stop Hardware	8-Jun-07	21-Jun-07	SL_MDD2	Hrs	80		6,679		6,679	25.0%	1,670		
1	06	09	01	Prepare for Safety Review - PPS Beam Stop Hardware	8-Jun-07	6-Jul-07	SL_ME2	Hrs	80		7,966		7,966	25.0%	1,992		
1	06	09	01	Prep Bid Pkg - PPS Beam Stop Hardware	9-Jul-07	20-Jul-07	SL_ME2	Hrs	80		7,966		7,966	25.0%	1,992		
1	06	09	01	Bid Process - PPS Beam Stop Hardware	23-Jul-07	17-Aug-07	SL_ME2	Hrs	80		7,966		7,966	25.0%	1,992		
1	06	09	01	AWARD: - PPS Beam Stop Hardware	1-Oct-07	1-Oct-07	SL_AWARD	\$\$			321,000		378,891	378,891	25.0%	94,723	
1	06	09	01	Vendor Fab/Ship - PPS Stoppers	2-Oct-07	11-Feb-08	SL_ME2	Hrs	8			815		815	25.0%	204	
1	06	09	01	Vendor Fab/Ship - PPS Stoppers	2-Oct-07	11-Feb-08	SA_MSEQ2	\$\$			300,000		329,029	329,029	25.0%	82,257	
1	06	09	01	Assemble FEE - PPS Beam Stop Hardware (2)	12-Feb-08	4-Jun-08	SL_MFMS2	Hrs	160		18,002		18,002	25.0%	4,500		
1	06	09	01	Assemble FEE - PPS Beam Stop Hardware (2)	12-Feb-08	4-Jun-08	SL_MFAT2	Hrs	320		28,131		28,131	25.0%	7,033		
1	06	09	01	Assemble FEE - PPS Beam Stop Hardware (2)	12-Feb-08	4-Jun-08	SL_ME2	Hrs	160		16,299		16,299	25.0%	4,075		
1	06	09	01	Assemble NH - PPS Beam Stop Hardware	26-Mar-08	6-May-08	SL_MFMS2	Hrs	80		9,001		9,001	25.0%	2,250		
1	06	09	01	Assemble NH - PPS Beam Stop Hardware	26-Mar-08	6-May-08	SL_MFAT2	Hrs	160		14,065		14,065	25.0%	3,516		
1	06	09	01	Assemble NH - PPS Beam Stop Hardware	26-Mar-08	6-May-08	SL_ME2	Hrs	80		8,149		8,149	25.0%	2,037		
1	06	09	01	Assemble Tunnel - PPS Beam Stop Hardware	7-May-08	18-Jun-08	SL_MFMS2	Hrs	80		9,001		9,001	25.0%	2,250		
1	06	09	01	Assemble Tunnel - PPS Beam Stop Hardware	7-May-08	18-Jun-08	SL_MFAT2	Hrs	160		14,065		14,065	25.0%	3,516		
1	06	09	01	Assemble Tunnel - PPS Beam Stop Hardware	7-May-08	18-Jun-08	SL_ME2	Hrs	80		8,149		8,149	25.0%	2,037		
1	06	09	01	Assemble EDE - PPS Beam Stop Hardware	12-Feb-08	25-Mar-08	SL_MFMS2	Hrs	80		9,001		9,001	25.0%	2,250		
1	06	09	01	Assemble EDE - PPS Beam Stop Hardware	12-Feb-08	25-Mar-08	SL_MFAT2	Hrs	160		14,065		14,065	25.0%	3,516		
1	06	09	01	Assemble EDE - PPS Beam Stop Hardware	12-Feb-08	25-Mar-08	SL_ME2	Hrs	80		8,149		8,149	25.0%	2,037		
1	06	09	02	PPS Shielding						1,858	30,000	175,640	32,903	208,543		52,136	
1	06	09	02	Prepare Specification - PPS Shielding & Supports	22-Aug-07	5-Sep-07	SL_PHS2	Hrs	40		2,917		2,917	25.0%	729		
1	06	09	02	Develop RP Reqmnts - PPS Shielding & Supports	1-Aug-07	28-Aug-07	SL_PHS2	Hrs	40		2,917		2,917	25.0%	729		
1	06	09	02	Prepare Conceptual Design - PPS Shielding & Supp	6-Sep-07	19-Sep-07	SL_PHS2	Hrs	8		583		583	25.0%	146		
1	06	09	02	Prepare Conceptual Design - PPS Shielding & Supp	6-Sep-07	19-Sep-07	SL_ME2	Hrs	80		7,966		7,966	25.0%	1,992		
1	06	09	02	Prepare Conceptual Design - PPS Shielding & Supp	6-Sep-07	19-Sep-07	SL_MDD2	Hrs	40		3,340		3,340	25.0%	835		
1	06	09	02	Conceptual Design Review - PPS Shielding & Supp	20-Sep-07	3-Oct-07	SL_ME2	Hrs	80		7,994		7,994	25.0%	1,999		
1	06	09	02	Conceptual Design Review - PPS Shielding & Supp	20-Sep-07	3-Oct-07	SL_MDD2	Hrs	80		6,703		6,703	25.0%	1,676		
1	06	09	02	Prepare Preliminary Design - PPS Shielding/Supp	4-Oct-07	31-Oct-07	SL_ME2	Hrs	80		8,149		8,149	25.0%	2,037		
1	06	09	02	Prepare Preliminary Design - PPS Shielding/Supp	4-Oct-07	31-Oct-07	SL_MDD2	Hrs	160		13,665		13,665	25.0%	3,416		
1	06	09	02	Preliminary Design Review - PPS Shielding/Supp	1-Nov-07	14-Nov-07	SL_ME2	Hrs	80		8,149		8,149	25.0%	2,037		
1	06	09	02	Preliminary Design Review - PPS Shielding/Supp	1-Nov-07	14-Nov-07	SL_MDD2	Hrs	80		6,833		6,833	25.0%	1,708		
1	06	09	02	Prepare Final Design - PPS Shielding & Supports	15-Nov-07	14-Dec-07	SL_ME2	Hrs	80		8,149		8,149	25.0%	2,037		
1	06	09	02	Prepare Final Design - PPS Shielding & Supports	15-Nov-07	14-Dec-07	SL_MDD2	Hrs	160		13,665		13,665	25.0%	3,416		
1	06	09	02	Prepare for Safety/RP Review - Shielding & Suppt	15-Nov-07	14-Dec-07	SL_ME2	Hrs	80		8,149		8,149	25.0%	2,037		
1	06	09	02	Final Design Review - PPS Shielding & Supports	2-Jan-08	15-Jan-08	SL_ME2	Hrs	80		8,149		8,149	25.0%	2,037		
1	06	09	02	Final Design Review - PPS Shielding & Supports	2-Jan-08	15-Jan-08	SL_MDD2	Hrs	80		6,833		6,833	25.0%	1,708		
1	06	09	02	Prep Bid Pkg - PPS Shielding & Supports	16-Jan-08	13-Feb-08	SL_ME2	Hrs	80		8,149		8,149	25.0%	2,037		
1	06	09	02	Bid Process - PPS Shielding & Supports	14-Feb-08	13-Mar-08	SL_ME2	Hrs	80		8,149		8,149	25.0%	2,037		
1	06	09	02	AWARD: - PPS Shielding & Supports	14-Mar-08	14-Mar-08	SL_AWARD	\$\$			32,100		37,889	37,889	25.0%	9,472	
1	06	09	02	Deliver/Ship - PPS Shielding & Supports	17-Mar-08	11-Apr-08	SA_MSEQ2	\$\$			30,000		32,903	32,903	25.0%	8,226	
1	06	09	02	Fab/Assemble EDE - PPS Shielding & Supports	14-Apr-08	18-Apr-08	SL_MFMS2	Hrs	40		4,500		4,500	25.0%	1,125		
1	06	09	02	Fab/Assemble EDE - PPS Shielding & Supports	14-Apr-08	18-Apr-08	SL_MFAT2	Hrs	40		3,516		3,516	25.0%	879		
1	06	09	02	Fab/Assemble EDE - PPS Shielding & Supports	14-Apr-08	18-Apr-08	SL_ME2	Hrs	10		1,019		1,019	25.0%	255		
1	06	09	02	Fab/Assemble FEE - PPS Shielding & Supports	21-Apr-08	25-Apr-08	SL_MFMS2	Hrs	40		4,500		4,500	25.0%	1,125		
1	06	09	02	Fab/Assemble FEE - PPS Shielding & Supports	21-Apr-08	25-Apr-08	SL_MFAT2	Hrs	40		3,516		3,516	25.0%	879		
1	06	09	02	Fab/Assemble FEE - PPS Shielding & Supports	21-Apr-08	25-Apr-08	SL_ME2	Hrs	10		1,019		1,019	25.0%	255		
1	06	09	02	Fab/Assemble NH - PPS Shielding & Supports	28-Apr-08	2-May-08	SL_MFMS2	Hrs	40		4,500		4,500	25.0%	1,125		
1	06	09	02	Fab/Assemble NH - PPS Shielding & Supports	28-Apr-08	2-May-08	SL_MFAT2	Hrs	40		3,516		3,516	25.0%	879		
1	06	09	02	Fab/Assemble NH - PPS Shielding & Supports	28-Apr-08	2-May-08	SL_ME2	Hrs	10		1,019		1,019	25.0%	255		
1	06	09	02	Fab/Assemble Tunnel - PPS Shielding & Supports	5-May-08	9-May-08	SL_MFMS2	Hrs	40		4,500		4,500	25.0%	1,125		
1	06	09	02	Fab/Assemble Tunnel - PPS Shielding & Supports	5-May-08	9-May-08	SL_MFAT2	Hrs	40		3,516		3,516	25.0%	879		
1	06	09	02	Fab/Assemble Tunnel - PPS Shielding & Supports	5-May-08	9-May-08	SL_ME2	Hrs	10		1,019		1,019	25.0%	255		
1	06	09	02	Fab/Assemble FH - PPS Shielding & Supports	12-May-08	16-May-08	SL_MFMS2	Hrs	40		4,500		4,500	25.0%	1,125		
1	06	09	02	Fab/Assemble FH - PPS Shielding & Supports	12-May-08	16-May-08	SL_MFAT2	Hrs	40		3,516		3,516	25.0%	879		
1	06	09	02	Fab/Assemble FH - PPS Shielding & Supports	12-May-08	16-May-08	SL_ME2	Hrs	10		1,019		1,019	25.0%	255		
1	06	09	03	NEH Hutch Doors						400	36,000	36,892	39,483	76,375		19,094	
1	06	09	03	Develop RP Reqmnts - NEH Hutch Doors	1-Jun-07	28-Jun-07	SL_PHS2	Hrs	20		1,458		1,458	25.0%	365		
1	06	09	03	Prepare ESD - NEH Hutch Doors	22-Jun-07	6-Jul-07	SL_PHS2	Hrs	20		1,458		1,458	25.0%	365		
1	06	09	03	Prepare Final Design - NEH Hutch Doors	29-Jun-07	27-Jul-07	SL_ME2	Hrs	80		7,966		7,966	25.0%	1,992		
1	06	09	03	Prepare Final Design - NEH Hutch Doors	29-Jun-07	27-Jul-07	SL_MDD2	Hrs	80		6,679		6,679	25.0%	1,670		
1	06	09	03	Prepare for Safety/RP Review - NEH Hutch Doors	9-Jul-07	20-Jul-07	SL_ME2	Hrs	40		3,983		3,983	25.0%	996		
1	06	09	03	Final Design Review - NEH Hutch Doors	30-Jul-07	10-Aug-07	SL_ME2	Hrs	40		3,983		3,983	25.0%	996		
1	06	09	03	Final Design Review - NEH Hutch Doors	30-Jul-07	10-Aug-07	SL_MDD2	Hrs	40		3,340		3,340	25.0%	835		
1	06	09	03	Prep Bid Pkg - NEH Hutch Doors	13-Aug-07	10-Sep-07	SL_ME2	Hrs	40		3,983		3,983	25.0%	996		
1	06	09	03	Bid Process - NEH Hutch Doors	11-Sep-07	8-Oct-07	SL_ME2	Hrs	20		2,003		2,003	25.0%	501		
1	06	09	03	AWARD: - NEH Hutch Doors (3 x 44')	9-Oct-07	9-Oct-07	SL_AWARD	\$\$			38,520		45,467	45,467	25.0%	11,367	
1	06	09	03	Fab/Deliver - NEH Hutch Doors	10-Oct-07	6-Nov-07	SL_ME2	Hrs	20		2,037		2,037	25.0%	509		
1	06	09	03	Fab/Deliver - NEH Hutch Doors	10-Oct-07	6-Nov-07	SA_MSEQ2	\$\$			36,000		39,483	39,483	25.0%	9,871	
1	09	01		CONVENTIONAL FACILITIES						24,313	77,544,479	2,584,146	78,177,888	80,762,034		11,180,905	
1	09	01		System Management & Integration						22,773	7,176,749	2,462,283	7,324,009	9,786,292		1,071,329	

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early	Early	Res	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escldt Cost			Cont	Contingency
						Description	Start	Finish	Code		Hours	\$	Labor	M&S	Total	%	\$
1	09	01	01	5	6	Management					4,862	198,000	535,204	217,614	752,818		0
1	09	01	01			Reproduction Costs - FY07	1-May-07	28-Sep-07	SL_MSEG2	\$\$		15,000		16,082	16,082	0.0%	0
1	09	01	01			Management - FY07	1-May-07	28-Sep-07	SL_SEEM2	Hrs	742		78,561	78,561	78,561	0.0%	0
1	09	01	01			Travel - FY07	1-May-07	28-Sep-07	SL_MSTR2	\$\$		40,000		49,104	49,104	0.0%	0
1	09	01	01			Consumables - FY07	1-May-07	28-Sep-07	SL_MSEG2	\$\$		6,000		6,433	6,433	0.0%	0
1	09	01	01			CF Deputy - FY07	1-May-07	28-Sep-07	SL_MSPF2	\$\$		120,000		125,760	125,760	0.0%	0
1	09	01	01			Management - FY08 (oct-feb08)	1-Oct-07	29-Feb-08	SL_SEEM2	Hrs	658		71,270	71,270	71,270	0.0%	0
1	09	01	01			Management - FY08 (part time TEC)	3-Mar-08	30-Sep-08	SL_SEEM2	Hrs	522		56,539	56,539	56,539	0.0%	0
1	09	01	01			Travel - FY08	1-Oct-07	30-Sep-08	SL_MSTR2	\$\$		10,000		12,558	12,558	0.0%	0
1	09	01	01			Consumable Supplies - FY08	1-Oct-07	30-Sep-08	SL_MSEG2	\$\$		7,000		7,677	7,677	0.0%	0
1	09	01	01			CF Management Support - CD4a	1-Oct-08	31-Jul-09	SL_SEEM2	Hrs	1,442		159,779	159,779	159,779	0.0%	0
1	09	01	01			CF Management Support - CD4b	3-Aug-09	31-May-10	SL_SEEM2	Hrs	1,498		169,054	169,054	169,054	0.0%	0
1	09	01	02			CF Engineering					8,596	812,513	938,977	878,902	1,817,879		320,064
1	09	01	02			Start: JE A&E Construction Admin - to Jul 07	1-May-07	31-Jul-07	SL_MSPS2	\$\$		90,000		96,489	96,489	0.0%	0
1	09	01	02			CF Engineering Support - FY07	1-May-07	28-Sep-07	SL_SEEM2	Hrs	2,226		235,684	235,684	235,684	0.0%	0
1	09	01	02			A&E Engineering Consultant - FY07	1-May-07	27-Dec-07	SL_MSPF2	\$\$		248,000		259,904	259,904	0.0%	0
1	09	01	02			JE A&E Title 3 Engineering Support	1-May-07	31-Jul-08	SL_MSPS2	\$\$		262,513		285,747	285,747	0.0%	0
1	09	01	02			CF Engineering Support - FY08 (Oct07-Feb08 TEC)	1-Oct-07	29-Feb-08	SL_SEEM2	Hrs	714		77,335	77,335	77,335	0.0%	0
1	09	01	02			CF Engineering Support - FY08 (Oct-nov 07 TEC)	1-Oct-07	30-Nov-07	SL_SEEM2	Hrs	301		32,602	32,602	32,602	0.0%	0
1	09	01	02			CF Engineering for Hutches & Office Renovation	2-Oct-08	30-Sep-09	SL_SEE2	Hrs	5,355		593,356	593,356	593,356	30.0%	178,007
1	09	01	02			AWARD: FEH Hutches - A&E Design	1-Jul-08	1-Jul-08	SL_AWARD	\$\$		236,221		278,822	278,822	60.0%	167,293
1	09	01	02			Start: FEH Hutches - A&E Design	2-Jul-08	22-Dec-08	SA_MSSC1	\$\$		212,000		236,762	236,762	60.0%	142,057
1	09	01	03			Construction Management & AE Support					8,215	6,166,236	889,649	6,227,493	7,117,142		741,420
1	09	01	03			CF Construction Management - FY07 (Jan-Sep07)	1-May-07	28-Sep-07	SL_UTR2	Hrs	3,710		392,806	392,806	392,806	0.0%	0
1	09	01	03			Phase 2 Construction Management - FY07	1-May-07	28-Sep-07	SL_MSPY2	\$\$		2,529,281		2,529,281	2,529,281	10.0%	252,928
1	09	01	03			Phase 2 Construction Management - FY07	1-May-07	28-Sep-07	SL_MSPY2	\$\$		1,890,053		1,890,053	1,890,053	10.0%	189,005
1	09	01	03			CF Construction Management-FY08 (Oct-Nov07 TEC)	1-Oct-07	30-Nov-07	SL_UTR2	Hrs	602		65,204	65,204	65,204	0.0%	0
1	09	01	03			CF Construction Management-FY08 (Jan-Feb08 TEC)	2-Jan-08	29-Feb-08	SL_UTR2	Hrs	144		15,597	15,597	15,597	0.0%	0
1	09	01	03			CF Construction Management - FY08 (Dec07 TEC)	3-Dec-07	27-Dec-07	SL_UTR2	Hrs	189		20,471	20,471	20,471	0.0%	0
1	09	01	03			CF Constr Mgmt - Hutches & Office Renovation	2-Oct-08	30-Sep-09	SL_UTR2	Hrs	3,570		395,570	395,570	395,570	30.0%	118,671
1	09	01	03			Phase 2 Construction Management - FY08	2-Oct-07	30-May-08	SL_MSPY2	\$\$		470,719		470,719	470,719	10.0%	47,072
1	09	01	03			Phase 2 Construction Management - FY08	2-Oct-07	30-May-08	SL_MSPF2	\$\$		1,276,183		1,337,440	1,337,440	10.0%	133,744
1	09	01	04			Mechanical Design (MD)					1,100	-	98,453	-	98,453		9,845
1	09	01	04	05		Mechanical Design Title 3 Linac Facility					220	-	23,293	-	23,293		2,329
1	09	01	04	05		MD Title 3 Support - Linac	1-May-07	28-Sep-07	SL_SEE2	Hrs	220		23,293	23,293	23,293	10.0%	2,329
1	09	01	04	06		Mechanical Design Title 3 - RSY through CLOC					880	-	75,160	-	75,160		7,516
1	09	01	04	06		MD Title 3 Support - Beam Path	2-Oct-07	1-Jul-08	SL_MDD2	Hrs	880		75,160	75,160	75,160	10.0%	7,516
1	09	03				Construction-T3 Conventional Facilities					1,540	70,367,730	121,863	70,853,879	70,975,742		10,109,575
1	09	03	03			BTH West					600	310,000	37,544	324,880	362,424		181,212
1	09	03	03	01		BTH West - Site Preparation					600	-	37,544	-	37,544		18,772
1	09	03	03	01		Site Preparation	1-May-07	22-Aug-07	SL_SEPM2	Hrs	600		37,544	37,544	37,544	50.0%	18,772
1	09	03	03	15		BTH West - Mechanical					-	100,000	-	104,800	104,800		52,400
1	09	03	03	15		AWARD: BTH West - Mechanical	27-Jul-07	27-Jul-07	SL_AWARD	\$\$		105,000		120,796	120,796	50.0%	60,398
1	09	03	03	15		Start: BTH West - Mechanical Construction	23-Aug-07	17-Dec-07	SA_MSPF2	\$\$		100,000		104,800	104,800	50.0%	52,400
1	09	03	03	16		BTH West - Electrical					-	180,000	-	188,640	188,640		94,320
1	09	03	03	16		AWARD: BTH West - Electrical	27-Jul-07	27-Jul-07	SL_AWARD	\$\$		189,000		217,432	217,432	50.0%	108,716
1	09	03	03	16		Start: BTH West - Electrical Construction	23-Aug-07	17-Dec-07	SA_MSSF2	\$\$		180,000		188,640	188,640	50.0%	94,320
1	09	03	03	20		BTH West - Project Close Out					-	30,000	-	31,440	31,440		15,720
1	09	03	03	20		BTH West - Commissioning & Project Close Out	21-Nov-07	20-Dec-07	SL_MSSF2	\$\$		30,000		31,440	31,440	50.0%	15,720
1	09	03	04			Linac Facility Upgrade (LN)					40	1,328,000	3,357	1,442,359	1,445,717		486,103
1	09	03	04	16		LN - Electrical					-	1,278,000	-	1,389,959	1,389,959		480,528
1	09	03	04	16		Start: Linac Facility Upgrades - S20 Electrical	2-May-07	2-Jul-07	SA_MSSF2	\$\$		240,000		251,520	251,520	10.0%	25,152
1	09	03	04	16		AWARD: Linac Facility Upgrades - Electr Constr	1-May-07	1-May-07	SL_AWARD	\$\$		252,000		289,909	289,909	10.0%	28,991
1	09	03	04	16		AWARD: I&C/PS Electrical Branch Circuit Feeders	2-Jan-08	2-Jan-08	SL_AWARD	\$\$		1,110,660		1,310,962	1,310,962	40.0%	524,385
1	09	03	04	16		I&C/PS Electrical Branch Circuit Feeders	3-Jan-08	31-Mar-08	SA_MSSC2	\$\$		1,038,000		1,138,439	1,138,439	40.0%	455,376
1	09	03	04	20		LN - Project Close Out					40	50,000	3,357	52,400	55,757		5,576
1	09	03	04	20		Building Commissioning Linac Facility	1-May-07	25-Jul-07	SL_MSPF2	\$\$		30,000		31,440	31,440	10.0%	3,144
1	09	03	04	20		Project Close Out	26-Jul-07	20-Sep-07	SL_MSPF2	\$\$		20,000		20,960	20,960	10.0%	2,096
1	09	03	04	20		Drawing Implementation to SLAC System	21-Sep-07	4-Oct-07	SL_MDD2	Hrs	40		3,357	3,357	3,357	10.0%	336
1	09	03	05			Research Yard Modifications					900	632,075	80,962	657,035	737,997		73,800
1	09	03	05	01		RY - Site Preparation					900	-	80,962	-	80,962		8,096
1	09	03	05	01		SLAC RSY through CLOC - Site Preparation - Rem	1-May-07	25-Jan-08	SL_TMUE2	Hrs	200		19,338	19,338	19,338	10.0%	1,934
1	09	03	05	01		SLAC RSY through CLOC - Site Preparation - Rem	1-May-07	25-Jan-08	SL_TMUC2	Hrs	200		30,027	30,027	30,027	10.0%	3,003
1	09	03	05	01		SLAC RSY through CLOC - Site Preparation - Rem	1-May-07	25-Jan-08	SL_SEPM2	Hrs	500		31,597	31,597	31,597	10.0%	3,160
1	09	03	05	02		RY - FTB/BSY & Site Construction					-	12,075	-	12,075	12,075		1,208
1	09	03	05	02		Galvanized Steel Plate, TS Support for Utilities	1-May-07	7-May-07	SL_GCFX1	\$\$		5,000		5,000	5,000	10.0%	500
1	09	03	05	02		Continue Work - U/G Mech CTW Encasement	1-May-07	7-May-07	SL_GCFX1	\$\$		7,075		7,075	7,075	10.0%	708
1	09	03	05	20		RY - Project Close Out					-	620,000	-	644,960	644,960		64,496
1	09	03	05	20		Start: Third Party Testing - Beam Path - 2007	1-May-07	29-Feb-08	SL_MSPY2	\$\$		100,000		100,000	100,000	10.0%	10,000
1	09	03	05	20		Start: Third Party Testing - Beam Path - 2007	1-May-07	29-Feb-08	SL_MSPF2	\$\$		520,000		544,960	544,960	10.0%	54,496
1	09	03	06			Pre-Purchase Equipment					-	1,916,201	-	1,916,201	1,916,201		191,620
1	09	03	06	01		PPE - General Requirements					-	196,474	-	196,474	196,474		19,647

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont %	Contingency \$
						Description					Hours	\$	Labor	M&S	Total		
1	09	03	06	01	6	Approved Submittal Release (20%)	1-May-07	9-Jul-07	SL_GCFX1	\$\$		71,445		71,445	71,445	10.0%	7,145
1	09	03	06	01	Manufacture Release (13%)	10-Jul-07	15-Aug-07	SL_GCFX1	\$\$		46,439		46,439	46,439	10.0%	4,644	
1	09	03	06	01	Equipment Shipped Delivered (15%)	20-Feb-08	1-Apr-08	SL_GCFX1	\$\$		53,584		53,584	53,584	10.0%	5,358	
1	09	03	06	01	Final Turnover (7%)	21-May-08	21-May-08	SL_GCFX1	\$\$		25,006		25,006	25,006	10.0%	2,501	
1	09	03	06	11	Pre-Purchase Equipment for Beam Path						-	1,719,727	-	1,719,727	1,719,727		171,973
1	09	03	06	11	Vendor Equipment Shipped / Delivered (90%)	16-Aug-07	1-Apr-08	SL_GCFX1	\$\$		1,429,796		1,429,796	1,429,796	10.0%	142,980	
1	09	03	06	11	CA Sales Tax - 8.25%	16-Aug-07	16-Apr-08	SL_GCFX1	\$\$		131,065		131,065	131,065	10.0%	13,107	
1	09	03	06	11	Vendor Equipment Startup / Commissioning (10%)	8-Jan-08	20-May-08	SL_GCFX1	\$\$		158,866		158,866	158,866	10.0%	15,887	
1	09	03	07	SITEWORK - Earthwork,Site Utilities, Survey							-	6,173,346	-	6,173,346	6,173,346		617,335
1	09	03	07	01	SW - Site Preparation/General Requirements						-	1,088,047	-	1,088,047	1,088,047		108,805
1	09	03	07	01	Sales Tax - A&B Const. (Mod 28)	1-Jun-07	30-Nov-07	SL_GCFX1	\$\$		44,832		44,832	44,832	10.0%	4,483	
1	09	03	07	01	General Requirements Work - May 07	1-May-07	29-May-07	SL_GCFX1	\$\$		81,875		81,875	81,875	10.0%	8,188	
1	09	03	07	01	General Requirements Work - Jun 07	30-May-07	28-Jun-07	SL_GCFX1	\$\$		81,875		81,875	81,875	10.0%	8,188	
1	09	03	07	01	General Requirements Work - Jul 07	29-Jun-07	30-Jul-07	SL_GCFX1	\$\$		81,875		81,875	81,875	10.0%	8,188	
1	09	03	07	01	General Requirements Work - Aug 07	31-Jul-07	28-Aug-07	SL_GCFX1	\$\$		81,875		81,875	81,875	10.0%	8,188	
1	09	03	07	01	General Requirements Work - Sep 07	29-Aug-07	28-Sep-07	SL_GCFX1	\$\$		81,875		81,875	81,875	10.0%	8,188	
1	09	03	07	01	General Requirements Work - Oct 07	1-Oct-07	29-Oct-07	SL_GCFX1	\$\$		81,875		81,875	81,875	10.0%	8,188	
1	09	03	07	01	General Requirements Work - Nov 07	30-Oct-07	29-Nov-07	SL_GCFX1	\$\$		81,875		81,875	81,875	10.0%	8,188	
1	09	03	07	01	General Requirements Work - Dec 07	30-Nov-07	31-Dec-07	SL_GCFX1	\$\$		81,875		81,875	81,875	10.0%	8,188	
1	09	03	07	01	General Requirements Work - Jan 08	2-Jan-08	29-Jan-08	SL_GCFX1	\$\$		104,158		104,158	104,158	10.0%	10,416	
1	09	03	07	01	General Requirements Work - Feb 08	30-Jan-08	28-Feb-08	SL_GCFX1	\$\$		93,452		93,452	93,452	10.0%	9,345	
1	09	03	07	01	General Requirements Work - Mar 08	29-Feb-08	28-Mar-08	SL_GCFX1	\$\$		87,770		87,770	87,770	10.0%	8,777	
1	09	03	07	01	General Requirements Work - Apr 08	31-Mar-08	28-Apr-08	SL_GCFX1	\$\$		102,835		102,835	102,835	10.0%	10,284	
1	09	03	07	02	SW - Site Construction						-	4,906,997	-	4,906,997	4,906,997		490,700
1	09	03	07	02	FCOs including NEH Drainage Improvement (CF71)	1-May-07	22-Aug-07	SL_GCFX1	\$\$		174,440		174,440	174,440	10.0%	17,444	
1	09	03	07	02	Backfill FEH Access Tunnel Portal	15-May-08	27-May-08	SL_GCFX1	\$\$		60,000		60,000	60,000	10.0%	6,000	
1	09	03	07	02	Access T Sanitary Sewer	1-May-08	24-Apr-08	SL_GCFX1	\$\$		47,600		47,600	47,600	10.0%	4,760	
1	09	03	07	02	Access T Water Lines	2-May-08	6-May-08	SL_GCFX1	\$\$		20,000		20,000	20,000	10.0%	2,000	
1	09	03	07	02	Excavate & Shore BD (1st - 2nd Shoring Lift)	11-May-07	22-May-07	SL_GCFX1	\$\$		342,000		342,000	342,000	10.0%	34,200	
1	09	03	07	02	Demo / Off-haul Asphalt (Eastern Portion)	6-Aug-07	9-Aug-07	SL_GCFX1	\$\$		35,000		35,000	35,000	10.0%	3,500	
1	09	03	07	02	BTH East Excavation	20-Aug-07	23-Aug-07	SL_GCFX1	\$\$		80,000		80,000	80,000	10.0%	8,000	
1	09	03	07	02	BTH East Mud Slab	22-Aug-07	23-Aug-07	SL_GCFX1	\$\$		10,000		10,000	10,000	10.0%	1,000	
1	09	03	07	02	Construction Control & Layout	1-May-07	29-Jan-08	SL_GCFX1	\$\$		22,968		22,968	22,968	10.0%	2,297	
1	09	03	07	02	Construction Control Monuments	1-May-07	4-Sep-07	SL_GCFX1	\$\$		1,042		1,042	1,042	10.0%	104	
1	09	03	07	02	Pothole Utilities	1-May-07	7-May-07	SL_GCFX1	\$\$		1,840		1,840	1,840	10.0%	184	
1	09	03	07	02	Complete Mass Exc/Cut & Fill Oper (Outside NEH)	1-May-07	7-May-07	SL_GCFX1	\$\$		56,000		56,000	56,000	10.0%	5,600	
1	09	03	07	02	Research Yard Grid Lines	1-May-07	31-Dec-07	SL_GCFX1	\$\$		6,336		6,336	6,336	10.0%	634	
1	09	03	07	02	RSY Domestic Waterlines	1-May-07	7-May-07	SL_GCFX1	\$\$		3,410		3,410	3,410	10.0%	341	
1	09	03	07	02	NEH Wooden Deck Control Lines	1-May-07	7-May-07	SL_GCFX1	\$\$		1,584		1,584	1,584	10.0%	158	
1	09	03	07	02	Excavate/Shore 1st Lift - 4th Lift) UH/ BTH 3.1	1-May-07	7-May-07	SL_GCFX1	\$\$		348,500		348,500	348,500	10.0%	34,850	
1	09	03	07	02	Excavate FEE	1-May-07	18-May-07	SL_GCFX1	\$\$		255,000		255,000	255,000	10.0%	25,500	
1	09	03	07	02	RSY Sanitary Sewer East	1-May-07	18-May-07	SL_GCFX1	\$\$		1,353		1,353	1,353	10.0%	135	
1	09	03	07	02	Layout & Saw Cut for BTH	1-May-07	7-May-07	SL_GCFX1	\$\$		3,500		3,500	3,500	10.0%	350	
1	09	03	07	02	RSY Waterlines for Tunnel	1-May-07	7-May-07	SL_GCFX1	\$\$		2,220		2,220	2,220	10.0%	222	
1	09	03	07	02	Centerline Tunnel Alignment	1-May-07	16-Nov-07	SL_GCFX1	\$\$		6,732		6,732	6,732	10.0%	673	
1	09	03	07	02	Bldg Control 4 Lines per Fir (Excl CLOC)	1-May-07	29-Jan-08	SL_GCFX1	\$\$		3,000		3,000	3,000	10.0%	300	
1	09	03	07	02	Bldg Pad Certifications	1-May-07	29-Jan-08	SL_GCFX1	\$\$		3,802		3,802	3,802	10.0%	380	
1	09	03	07	02	Benchmarks (4 Lines / Fir NEH, 2 / Fir CUP & Tnl)	1-May-07	13-Dec-07	SL_GCFX1	\$\$		1,455		1,455	1,455	10.0%	146	
1	09	03	07	02	Support U/G Water & CA Utilities	8-May-07	14-May-07	SL_GCFX1	\$\$		42,000		42,000	42,000	10.0%	4,200	
1	09	03	07	02	Tunnel Excavation Checks	1-May-07	21-Nov-07	SL_GCFX1	\$\$		7,920		7,920	7,920	10.0%	792	
1	09	03	07	02	BTH Excavation	1-May-07	7-May-07	SL_GCFX1	\$\$		25,000		25,000	25,000	10.0%	2,500	
1	09	03	07	02	Pave Access Road Fan Out	1-May-07	7-May-07	SL_GCFX1	\$\$		22,500		22,500	22,500	10.0%	2,250	
1	09	03	07	02	Backfill Retaining Wall	25-Jun-07	9-Jul-07	SL_GCFX1	\$\$		47,000		47,000	47,000	10.0%	4,700	
1	09	03	07	02	Excavate Retaining Wall Ftgs	16-May-07	17-May-07	SL_GCFX1	\$\$		10,100		10,100	10,100	10.0%	1,010	
1	09	03	07	02	FEE Backfill	11-Sep-07	24-Sep-07	SL_GCFX1	\$\$		175,000		175,000	175,000	10.0%	17,500	
1	09	03	07	02	Backfill & Compact Retaining Wall	11-Sep-07	20-Sep-07	SL_GCFX1	\$\$		42,000		42,000	42,000	10.0%	4,200	
1	09	03	07	02	P16 - Site Concrete (Hammock)	11-Jan-08	25-Jan-08	SL_GCFX1	\$\$		162,955		162,955	162,955	10.0%	16,296	
1	09	03	07	02	Backfill & Compact Walls	31-Jul-07	23-Aug-07	SL_GCFX1	\$\$		220,000		220,000	220,000	10.0%	22,000	
1	09	03	07	02	Concrete Backfill Walls	9-May-07	15-May-07	SL_GCFX1	\$\$		100,000		100,000	100,000	10.0%	10,000	
1	09	03	07	02	Fine Grade Service Yard	24-Aug-07	28-Aug-07	SL_GCFX1	\$\$		10,000		10,000	10,000	10.0%	1,000	
1	09	03	07	02	Potential Field Change Orders	4-Feb-08	30-Jun-08	SL_GCFX1	\$\$		454,505		454,505	454,505	10.0%	45,451	
1	09	03	07	02	Approved Additional FCO Funding (Mod 29)	4-Feb-08	30-Jun-08	SL_GCFX1	\$\$		700,000		700,000	700,000	10.0%	70,000	
1	09	03	07	02	RSY Storm Drain West	1-May-07	7-May-07	SL_GCFX1	\$\$		10,087		10,087	10,087	10.0%	1,009	
1	09	03	07	02	Backfill Ret. Walls/Grade/Rock & Pave Tie-in	8-Nov-07	30-Nov-07	SL_GCFX1	\$\$		110,000		110,000	110,000	10.0%	11,000	
1	09	03	07	02	Grade CUP & Utility Yard Area	1-May-07	7-May-07	SL_GCFX1	\$\$		15,750		15,750	15,750	10.0%	1,575	
1	09	03	07	02	Place Monument Survey-Control @ Tunnel Acc Pts	1-May-07	6-Nov-07	SL_GCFX1	\$\$		3,168		3,168	3,168	10.0%	317	
1	09	03	07	02	Site Cleanup	11-Feb-08	25-Feb-08	SL_GCFX1	\$\$		50,000		50,000	50,000	10.0%	5,000	
1	09	03	07	02	CUP - Fine Grade Roads & Parking Areas	17-Dec-07	21-Dec-07	SL_GCFX1	\$\$		200,000		200,000	200,000	10.0%	20,000	
1	09	03	07	02	Tunnel Verification & Elevation Transfer	1-May-07	31-Dec-07	SL_GCFX1	\$\$		1,584		1,584	1,584	10.0%	158	
1	09	03	07	02	Tunnel Finished Slab Centerline	5-Oct-07	19-Mar-08	SL_GCFX1	\$\$		7,920		7,920	7,920	10.0%	792	
1	09	03	07	02	NEH Wall Control Lines	8-May-07	13-Jun-07	SL_GCFX1	\$\$		3,960		3,960	3,960	10.0%	396	
1	09	03	07	02	FEE & BD Fine Grade	17-Dec-07	21-Dec-07	SL_GCFX1	\$\$		50,000		50,000	50,000	10.0%	5,000	

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escldt Cost			Cont %	Contingency \$	
Description											Hours	\$	Labor	M&S	Total			
1	09	03	07	02	6	Final Cut & Fill NEH/ FEE/BD	10-Dec-07	14-Dec-07	SL_GCFX1	\$\$			120,000		120,000	120,000	10.0%	12,000
1	09	03	07	02	NEH/CUP Sanitary from 9D to CUP	24-Dec-07	10-Jan-08	SL_GCFX1	\$\$			83,625		83,625	83,625	10.0%	8,363	
1	09	03	07	02	NEH/CUP Storm Drain	24-Dec-07	8-Jan-08	SL_GCFX1	\$\$			220,575		220,575	220,575	10.0%	22,058	
1	09	03	07	02	NEH/CUP Water Lines	9-Jan-08	22-Jan-08	SL_GCFX1	\$\$			149,400		149,400	149,400	10.0%	14,940	
1	09	03	07	02	Site Topo Upon Completion of Mass Grading	8-May-07	20-Jul-07	SL_GCFX1	\$\$			5,466		5,466	5,466	10.0%	547	
1	09	03	07	02	Railings, Bollards	4-Feb-08	8-Feb-08	SL_GCFX1	\$\$			191,400		191,400	191,400	10.0%	19,140	
1	09	03	07	02	Heavy-Duty & Light-Duty Trench Drains	24-Dec-07	18-Jan-08	SL_GCFX1	\$\$			115,000		115,000	115,000	10.0%	11,500	
1	09	03	07	02	UH3.1 Excavate Column and Ret. Wall Ftgs	9-Jul-07	13-Jul-07	SL_GCFX1	\$\$			800		800	800	10.0%	80	
1	09	03	07	02	UH3.1 Fill for Bldg Pad	17-May-07	22-May-07	SL_GCFX1	\$\$			35,000		35,000	35,000	10.0%	3,500	
1	09	03	07	02	Storm Drain at Bldg 3.1	23-May-07	29-May-07	SL_GCFX1	\$\$			26,500		26,500	26,500	10.0%	2,650	
1	09	03	07	16	SW - Electrical							-	178,302	-	178,302		17,830	
1	09	03	07	16	Temporary Power (Trailer City)	1-May-07	30-May-07	SL_GCFX1	\$\$			32,752		32,752	32,752	10.0%	3,275	
1	09	03	07	16	Underslab, Site Lighting, OH Rough	24-Dec-07	14-Jan-08	SL_GCFX1	\$\$			135,495		135,495	135,495	10.0%	13,550	
1	09	03	07	16	Feeder Underground	16-Nov-07	21-Nov-07	SL_GCFX1	\$\$			10,055		10,055	10,055	10.0%	1,006	
1	09	03	08	Beam Transport Hall (BTH)							-	7,476,553	-	7,493,929		749,393		
1	09	03	08	01	BTH - Site Preparation/General Requirements						-	20,789	-	20,789		2,079		
1	09	03	08	01	Bond - D.W. Nicholson (Metal Bldgs)	1-May-07	1-May-07	SL_GCFX1	\$\$			20,789		20,789	20,789	10.0%	2,079	
1	09	03	08	03	BTH - Concrete						-	4,839,766	-	4,839,766		483,977		
1	09	03	08	03	BTH HH Pour Deck Pour #2	24-May-07	24-May-07	SL_GCFX1	\$\$			90,722		90,722	90,722	10.0%	9,072	
1	09	03	08	03	BTH HH Pour Deck Pour #1	14-May-07	14-May-07	SL_GCFX1	\$\$			90,724		90,724	90,724	10.0%	9,072	
1	09	03	08	03	BTH HH Pour Walls Pour #2	14-May-07	14-May-07	SL_GCFX1	\$\$			81,936		81,936	81,936	10.0%	8,194	
1	09	03	08	03	BTH HH Pour Mat Pour #3	8-May-07	8-May-07	SL_GCFX1	\$\$			89,513		89,513	89,513	10.0%	8,951	
1	09	03	08	03	BTH HH Rebar Deck Pour #1	8-May-07	11-May-07	SL_GCFX1	\$\$			39,891		39,891	39,891	10.0%	3,989	
1	09	03	08	03	BTH HH Form Walls Pour #3	14-May-07	29-May-07	SL_GCFX1	\$\$			93,609		93,609	93,609	10.0%	9,361	
1	09	03	08	03	BTH HH Rebar Deck Pour #3	8-Jun-07	14-Jun-07	SL_GCFX1	\$\$			39,887		39,887	39,887	10.0%	3,989	
1	09	03	08	03	BTH HH Form Deck Pour #1	1-May-07	7-May-07	SL_GCFX1	\$\$			60,596		60,596	60,596	10.0%	6,060	
1	09	03	08	03	BTH HH Form Deck Pour #3	31-May-07	7-Jun-07	SL_GCFX1	\$\$			60,588		60,588	60,588	10.0%	6,059	
1	09	03	08	03	BTH Pour Mat Pour #1	1-May-07	1-May-07	SL_GCFX1	\$\$			89,513		89,513	89,513	10.0%	8,951	
1	09	03	08	03	BTH HH Pour Walls Pour #3	30-May-07	30-May-07	SL_GCFX1	\$\$			81,936		81,936	81,936	10.0%	8,194	
1	09	03	08	03	BTH HH Rebar Deck Pour #2	21-May-07	23-May-07	SL_GCFX1	\$\$			39,887		39,887	39,887	10.0%	3,989	
1	09	03	08	03	BTH Pour Walls Pour #1	14-Jun-07	14-Jun-07	SL_GCFX1	\$\$			81,936		81,936	81,936	10.0%	8,194	
1	09	03	08	03	BTH Rebar Deck Pour #2	11-Jul-07	18-Jul-07	SL_GCFX1	\$\$			39,887		39,887	39,887	10.0%	3,989	
1	09	03	08	03	BTH Pour Deck Pour #2	19-Jul-07	19-Jul-07	SL_GCFX1	\$\$			90,772		90,772	90,772	10.0%	9,077	
1	09	03	08	03	BTH Form Walls #2 Pour #1	20-Jun-07	26-Jun-07	SL_GCFX1	\$\$			93,609		93,609	93,609	10.0%	9,361	
1	09	03	08	03	BTH Pour Walls #2 Pour #1	27-Jun-07	27-Jun-07	SL_GCFX1	\$\$			81,936		81,936	81,936	10.0%	8,194	
1	09	03	08	03	BTH HH Form Walls Pour #2	1-May-07	11-May-07	SL_GCFX1	\$\$			93,609		93,609	93,609	10.0%	9,361	
1	09	03	08	03	BTH Form Deck Pour #2	29-Jun-07	10-Jul-07	SL_GCFX1	\$\$			60,588		60,588	60,588	10.0%	6,059	
1	09	03	08	03	BTH Pour Walls Pour #2	28-Jun-07	28-Jun-07	SL_GCFX1	\$\$			81,936		81,936	81,936	10.0%	8,194	
1	09	03	08	03	BTH HH Pour Deck Pour #3	15-Jun-07	15-Jun-07	SL_GCFX1	\$\$			90,722		90,722	90,722	10.0%	9,072	
1	09	03	08	03	BTH Pour Deck Pour #1	17-Jul-07	17-Jul-07	SL_GCFX1	\$\$			90,722		90,722	90,722	10.0%	9,072	
1	09	03	08	03	BTH Pour Mat Pour #2	1-May-07	1-May-07	SL_GCFX1	\$\$			89,513		89,513	89,513	10.0%	8,951	
1	09	03	08	03	BTH Form Walls Pour #1	30-May-07	13-Jun-07	SL_GCFX1	\$\$			93,609		93,609	93,609	10.0%	9,361	
1	09	03	08	03	BTH HH Form Deck Pour #2	15-May-07	18-May-07	SL_GCFX1	\$\$			60,588		60,588	60,588	10.0%	6,059	
1	09	03	08	03	BTH HH Rebar Walls Pour #3	14-May-07	24-May-07	SL_GCFX1	\$\$			42,909		42,909	42,909	10.0%	4,291	
1	09	03	08	03	BTH Rebar Deck Pour #1	10-Jul-07	16-Jul-07	SL_GCFX1	\$\$			39,887		39,887	39,887	10.0%	3,989	
1	09	03	08	03	BTH Form Walls Pour #2	14-Jun-07	27-Jun-07	SL_GCFX1	\$\$			93,609		93,609	93,609	10.0%	9,361	
1	09	03	08	03	BTH Rebar Walls #2 Pour #1	15-Jun-07	19-Jun-07	SL_GCFX1	\$\$			42,909		42,909	42,909	10.0%	4,291	
1	09	03	08	03	BTH Form Deck Pour #1	28-Jun-07	9-Jul-07	SL_GCFX1	\$\$			60,588		60,588	60,588	10.0%	6,059	
1	09	03	08	03	BTH Rebar Walls Pour #2	14-Jun-07	22-Jun-07	SL_GCFX1	\$\$			42,909		42,909	42,909	10.0%	4,291	
1	09	03	08	03	BTH Form Mat Pour #3	8-May-07	15-May-07	SL_GCFX1	\$\$			33,252		33,252	33,252	10.0%	3,325	
1	09	03	08	03	BTH Rebar Mat Pour #3	8-May-07	16-May-07	SL_GCFX1	\$\$			47,757		47,757	47,757	10.0%	4,776	
1	09	03	08	03	BTH Pour Mat Pour #3	17-May-07	17-May-07	SL_GCFX1	\$\$			89,513		89,513	89,513	10.0%	8,951	
1	09	03	08	03	BTH Form Walls Pour #3	28-Jun-07	11-Jul-07	SL_GCFX1	\$\$			93,609		93,609	93,609	10.0%	9,361	
1	09	03	08	03	BTH Rebar Walls Pour #3	28-Jun-07	9-Jul-07	SL_GCFX1	\$\$			42,909		42,909	42,909	10.0%	4,291	
1	09	03	08	03	BTH Pour Walls Pour #3	12-Jul-07	12-Jul-07	SL_GCFX1	\$\$			81,936		81,936	81,936	10.0%	8,194	
1	09	03	08	03	BTH Form Deck Pour #3	13-Jul-07	23-Jul-07	SL_GCFX1	\$\$			60,588		60,588	60,588	10.0%	6,059	
1	09	03	08	03	BTH Rebar Deck Pour #3	24-Jul-07	31-Jul-07	SL_GCFX1	\$\$			39,887		39,887	39,887	10.0%	3,989	
1	09	03	08	03	BTH Pour Deck Pour #3	1-Aug-07	1-Aug-07	SL_GCFX1	\$\$			90,722		90,722	90,722	10.0%	9,072	
1	09	03	08	03	BTH Form Mat Pour #4	17-May-07	24-May-07	SL_GCFX1	\$\$			33,252		33,252	33,252	10.0%	3,325	
1	09	03	08	03	BTH Rebar Mat Pour #4	17-May-07	25-May-07	SL_GCFX1	\$\$			47,757		47,757	47,757	10.0%	4,776	
1	09	03	08	03	BTH Pour Mat Pour #4	29-May-07	29-May-07	SL_GCFX1	\$\$			89,513		89,513	89,513	10.0%	8,951	
1	09	03	08	03	BTH Form Walls Pour #4	12-Jul-07	24-Jul-07	SL_GCFX1	\$\$			93,609		93,609	93,609	10.0%	9,361	
1	09	03	08	03	BTH Rebar Walls Pour #4	12-Jul-07	20-Jul-07	SL_GCFX1	\$\$			42,909		42,909	42,909	10.0%	4,291	
1	09	03	08	03	BTH Pour Walls Pour #4	25-Jul-07	25-Jul-07	SL_GCFX1	\$\$			81,936		81,936	81,936	10.0%	8,194	
1	09	03	08	03	BTH Form Deck Pour #4	26-Jul-07	3-Aug-07	SL_GCFX1	\$\$			60,588		60,588	60,588	10.0%	6,059	
1	09	03	08	03	BTH Rebar Deck Pour #4	6-Aug-07	13-Aug-07	SL_GCFX1	\$\$			39,887		39,887	39,887	10.0%	3,989	
1	09	03	08	03	BTH Pour Deck Pour #4	14-Aug-07	14-Aug-07	SL_GCFX1	\$\$			90,722		90,722	90,722	10.0%	9,072	
1	09	03	08	03	BTH Form Mat Pour #5	29-May-07	5-Jun-07	SL_GCFX1	\$\$			33,252		33,252	33,252	10.0%	3,325	
1	09	03	08	03	BTH Rebar Mat Pour #5	29-May-07	6-Jun-07	SL_GCFX1	\$\$			47,757		47,757	47,757	10.0%	4,776	
1	09	03	08	03	BTH Pour Mat Pour #5	7-Jun-07	7-Jun-07	SL_GCFX1	\$\$			89,513		89,513	89,513	10.0%	8,951	
1	09	03	08	03	BTH Form Walls Pour #5	25-Jul-07	7-Aug-07	SL_GCFX1	\$\$			93,609		93,609	93,609	10.0%	9,361	
1	09	03	08	03	BTH Rebar Walls Pour #5	25-Jul-07	2-Aug-07	SL_GCFX1	\$\$			42,909		42,909	42,909	10.0%	4,291	

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early	Early	Res	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escldt Cost			Cont	Contingency
						Description	Start	Finish	Code		Hours	\$\$	Labor	M&S	Total	%	\$
1	09	03	08	03	6	BTH Pour Walls Pour #5	8-Aug-07	8-Aug-07	SL_GCFX1	\$\$		81,936		81,936	81,936	10.0%	8,194
1	09	03	08	03	BTH Form Deck Pour #5	9-Aug-07	17-Aug-07	SL_GCFX1	\$\$		60,588	60,588	60,588	60,588	60,588	10.0%	6,059
1	09	03	08	03	BTH Rebar Deck Pour #5	20-Aug-07	27-Aug-07	SL_GCFX1	\$\$		39,887	39,887	39,887	39,887	39,887	10.0%	3,989
1	09	03	08	03	BTH Pour Deck Pour #5	28-Aug-07	28-Aug-07	SL_GCFX1	\$\$		90,722	90,722	90,722	90,722	90,722	10.0%	9,072
1	09	03	08	03	BTH Form Mat Pour #6	30-Aug-07	10-Sep-07	SL_GCFX1	\$\$		33,252	33,252	33,252	33,252	33,252	10.0%	3,325
1	09	03	08	03	BTH Rebar Mat Pour #6	30-Aug-07	11-Sep-07	SL_GCFX1	\$\$		47,757	47,757	47,757	47,757	47,757	10.0%	4,776
1	09	03	08	03	BTH Pour Mat Pour #6	12-Sep-07	12-Sep-07	SL_GCFX1	\$\$		89,513	89,513	89,513	89,513	89,513	10.0%	8,951
1	09	03	08	03	BTH Form Walls Pour #6	13-Sep-07	28-Sep-07	SL_GCFX1	\$\$		93,609	93,609	93,609	93,609	93,609	10.0%	9,361
1	09	03	08	03	BTH Rebar Walls Pour #6	13-Sep-07	25-Sep-07	SL_GCFX1	\$\$		42,909	42,909	42,909	42,909	42,909	10.0%	4,291
1	09	03	08	03	BTH Pour Walls Pour #6	1-Oct-07	1-Oct-07	SL_GCFX1	\$\$		81,940	81,940	81,940	81,940	81,940	10.0%	8,194
1	09	03	08	03	BTH Form Deck Pour #6	2-Oct-07	16-Oct-07	SL_GCFX1	\$\$		60,588	60,588	60,588	60,588	60,588	10.0%	6,059
1	09	03	08	03	BTH Rebar Deck Pour #6	17-Oct-07	24-Oct-07	SL_GCFX1	\$\$		39,887	39,887	39,887	39,887	39,887	10.0%	3,989
1	09	03	08	03	BTH Pour Deck Pour #6	25-Oct-07	25-Oct-07	SL_GCFX1	\$\$		90,722	90,722	90,722	90,722	90,722	10.0%	9,072
1	09	03	08	03	BTH Form Retaining Walls	26-Oct-07	9-Nov-07	SL_GCFX1	\$\$		93,609	93,609	93,609	93,609	93,609	10.0%	9,361
1	09	03	08	03	BTH Rebar Retaining Walls	26-Oct-07	6-Nov-07	SL_GCFX1	\$\$		42,909	42,909	42,909	42,909	42,909	10.0%	4,291
1	09	03	08	03	BTH Pour Retaining Walls	7-Nov-07	7-Nov-07	SL_GCFX1	\$\$		81,936	81,936	81,936	81,936	81,936	10.0%	8,194
1	09	03	08	03	BTH HH Rebar Mat Pour #3	1-May-07	7-May-07	SL_GCFX1	\$\$		23,879	23,879	23,879	23,879	23,879	10.0%	2,388
1	09	03	08	03	BTH Form Mat Pour #2	1-May-07	7-May-07	SL_GCFX1	\$\$		3,325	3,325	3,325	3,325	3,325	10.0%	333
1	09	03	08	03	BTH HH Form Mat Pour #3	1-May-07	7-May-07	SL_GCFX1	\$\$		16,626	16,626	16,626	16,626	16,626	10.0%	1,663
1	09	03	08	03	BTH Rebar Walls Pour #1	1-May-07	7-May-07	SL_GCFX1	\$\$		12,873	12,873	12,873	12,873	12,873	10.0%	1,287
1	09	03	08	03	BTH HH Rebar Walls Pour #2	1-May-07	7-May-07	SL_GCFX1	\$\$		12,873	12,873	12,873	12,873	12,873	10.0%	1,287
1	09	03	08	05	BTH - Metals						-	369,400	-	369,400	369,400		36,940
1	09	03	08	05	BP18 - Misc. Metals (BTH)	20-Jul-07	16-Nov-07	SL_GCFX1	\$\$		359,400	359,400	359,400	359,400	359,400	10.0%	35,940
1	09	03	08	05	HH End Plug Panel Achored Bars - Kwan Wo	19-Jul-07	25-Jul-07	SL_GCFX1	\$\$		10,000	10,000	10,000	10,000	10,000	10.0%	1,000
1	09	03	08	15	BTH - Mechanical						-	719,488	-	719,488	719,488		71,949
1	09	03	08	15	BTH Plumbing Rough-in	7-Nov-07	13-Dec-07	SL_GCFX1	\$\$		75,000	75,000	75,000	75,000	75,000	10.0%	7,500
1	09	03	08	15	BTH Plumbing Deck Inserts	8-May-07	18-Jul-07	SL_GCFX1	\$\$		10,000	10,000	10,000	10,000	10,000	10.0%	1,000
1	09	03	08	15	BTH Plumbing Trim	14-Dec-07	7-Jan-08	SL_GCFX1	\$\$		4,779	4,779	4,779	4,779	4,779	10.0%	478
1	09	03	08	15	BTH HVAC Rough-in	7-Nov-07	13-Dec-07	SL_GCFX1	\$\$		150,000	150,000	150,000	150,000	150,000	10.0%	15,000
1	09	03	08	15	BTH HVAC Trim	31-Dec-07	22-Jan-08	SL_GCFX1	\$\$		11,632	11,632	11,632	11,632	11,632	10.0%	1,163
1	09	03	08	15	BTH HVAC Deck Inserts	8-May-07	18-Jul-07	SL_GCFX1	\$\$		15,000	15,000	15,000	15,000	15,000	10.0%	1,500
1	09	03	08	15	BTH HVAC Insulation	14-Dec-07	28-Dec-07	SL_GCFX1	\$\$		22,355	22,355	22,355	22,355	22,355	10.0%	2,236
1	09	03	08	15	BTH HVAC Controls	31-Dec-07	22-Jan-08	SL_GCFX1	\$\$		15,824	15,824	15,824	15,824	15,824	10.0%	1,582
1	09	03	08	15	BTH HVAC Balancing	23-Jan-08	29-Jan-08	SL_GCFX1	\$\$		2,651	2,651	2,651	2,651	2,651	10.0%	265
1	09	03	08	15	BP10 - Fire Protection (BTH)	23-Aug-07	27-Dec-07	SL_GCFX1	\$\$		412,247	412,247	412,247	412,247	412,247	10.0%	41,225
1	09	03	08	16	BTH - Electrical						-	1,376,870	-	1,394,246	1,394,246		139,425
1	09	03	08	16	AWARD: BTH Switchboard Installation	26-Jun-07	26-Jun-07	SL_AWARD	\$\$		380,100	380,100	380,100	380,100	380,100	10.0%	43,728
1	09	03	08	16	Start: BTH Switchboard Installation	9-Jul-07	28-Sep-07	SA_MSSF2	\$\$		362,000	362,000	379,376	379,376	379,376	10.0%	37,938
1	09	03	08	16	BTH O/H Electrical R/I	1-Oct-07	4-Dec-07	SL_GCFX1	\$\$		532,603	532,603	532,603	532,603	532,603	10.0%	53,260
1	09	03	08	16	BTH Lighting	1-Oct-07	20-Nov-07	SL_GCFX1	\$\$		32,533	32,533	32,533	32,533	32,533	10.0%	3,253
1	09	03	08	16	BTH Fire / Life / Safety	7-Nov-07	6-Dec-07	SL_GCFX1	\$\$		12,249	12,249	12,249	12,249	12,249	10.0%	1,225
1	09	03	08	16	BTH Electrical Trim	5-Dec-07	17-Dec-07	SL_GCFX1	\$\$		9,151	9,151	9,151	9,151	9,151	10.0%	915
1	09	03	08	16	BTH Cable Trays	1-Oct-07	4-Dec-07	SL_GCFX1	\$\$		284,312	284,312	284,312	284,312	284,312	10.0%	28,431
1	09	03	08	16	BTH Temporary Power	1-May-07	4-May-07	SL_GCFX1	\$\$		27,000	27,000	27,000	27,000	27,000	10.0%	2,700
1	09	03	08	16	BTH Slab & Wall Grounding	1-May-07	29-Jun-07	SL_GCFX1	\$\$		117,022	117,022	117,022	117,022	117,022	10.0%	11,702
1	09	03	08	17	BTH - Others (include Div 4, and 6 through 14)						-	150,240	-	150,240	150,240		15,024
1	09	03	08	17	BTH Devices / Doors / Fixtures	23-Nov-07	13-Dec-07	SL_GCFX1	\$\$		26,265	26,265	26,265	26,265	26,265	10.0%	2,627
1	09	03	08	17	BTH Epoxy Flooring	9-Nov-07	20-Nov-07	SL_GCFX1	\$\$		6,904	6,904	6,904	6,904	6,904	10.0%	690
1	09	03	08	17	BP22 - Roofing & Waterproofing (BTH)	23-Aug-07	20-Dec-07	SL_GCFX1	\$\$		117,071	117,071	117,071	117,071	117,071	10.0%	11,707
1	09	03	09	Front End Enclosure (FEE)						-	2,038,195	-	2,038,195	2,038,195		203,820	
1	09	03	09	03	FEE - Concrete						-	1,282,593	-	1,282,593	1,282,593		128,259
1	09	03	09	03	FEE Rebar SOG Pour #1	23-May-07	4-Jun-07	SL_GCFX1	\$\$		64,900	64,900	64,900	64,900	64,900	10.0%	6,490
1	09	03	09	03	FEE Form SOG Pour #1	23-May-07	4-Jun-07	SL_GCFX1	\$\$		48,000	48,000	48,000	48,000	48,000	10.0%	4,800
1	09	03	09	03	FEE Pour Mud Slab Pour #1	21-May-07	21-May-07	SL_GCFX1	\$\$		6,960	6,960	6,960	6,960	6,960	10.0%	696
1	09	03	09	03	FEE Pour SOG Pour #1	7-Jun-07	7-Jun-07	SL_GCFX1	\$\$		70,250	70,250	70,250	70,250	70,250	10.0%	7,025
1	09	03	09	03	FEE Form Walls Pour #1	8-Jun-07	21-Jun-07	SL_GCFX1	\$\$		192,400	192,400	192,400	192,400	192,400	10.0%	19,240
1	09	03	09	03	FEE Rebar Walls Pour #1	8-Jun-07	19-Jun-07	SL_GCFX1	\$\$		88,887	88,887	88,887	88,887	88,887	10.0%	8,889
1	09	03	09	03	FEE Rebar Deck Pour #2	14-Aug-07	20-Aug-07	SL_GCFX1	\$\$		26,540	26,540	26,540	26,540	26,540	10.0%	2,654
1	09	03	09	03	FEE Pour Mud Slab Pour #2	4-Jun-07	4-Jun-07	SL_GCFX1	\$\$		6,960	6,960	6,960	6,960	6,960	10.0%	696
1	09	03	09	03	FEE Form SOG Pour #2	5-Jun-07	12-Jun-07	SL_GCFX1	\$\$		58,500	58,500	58,500	58,500	58,500	10.0%	5,850
1	09	03	09	03	FEE Pour Walls Pour #1	20-Jun-07	20-Jun-07	SL_GCFX1	\$\$		121,400	121,400	121,400	121,400	121,400	10.0%	12,140
1	09	03	09	03	FEE Form Deck Pour #1	21-Jun-07	3-Jul-07	SL_GCFX1	\$\$		43,350	43,350	43,350	43,350	43,350	10.0%	4,335
1	09	03	09	03	FEE Rebar Deck Pour #1	5-Jul-07	11-Jul-07	SL_GCFX1	\$\$		37,300	37,300	37,300	37,300	37,300	10.0%	3,730
1	09	03	09	03	FEE Pour Deck Pour #1	12-Jul-07	12-Jul-07	SL_GCFX1	\$\$		40,050	40,050	40,050	40,050	40,050	10.0%	4,005
1	09	03	09	03	FEE Rebar SOG Pour #2	5-Jun-07	12-Jun-07	SL_GCFX1	\$\$		68,050	68,050	68,050	68,050	68,050	10.0%	6,805
1	09	03	09	03	FEE Form Walls Pour #2	18-Jun-07	29-Jun-07	SL_GCFX1	\$\$		104,650	104,650	104,650	104,650	104,650	10.0%	10,465
1	09	03	09	03	FEE Rebar Walls Pour #2	18-Jun-07	27-Jun-07	SL_GCFX1	\$\$		78,000	78,000	78,000	78,000	78,000	10.0%	7,800

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early	Early	Res	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escldt Cost			Cont	Contingency
						Description	Start	Finish	Code		Hours	\$\$	Labor	M&S	Total	%	\$
1	09	03	09	05	6	BP18 - Misc. Metals (FEE)	5-Oct-07	12-Oct-07	SL_GCFX1	\$\$		4,600		4,600	4,600	10.0%	460
1	09	03	09	15	FEE - Mechanical						-	270,466	-	270,466	270,466		27,047
1	09	03	09	15	FEE HVAC Rough-in	5-Sep-07	10-Oct-07	SL_GCFX1	\$\$		91,090	91,090		91,090	91,090	10.0%	9,109
1	09	03	09	15	FEE Plumbing Rough-in	5-Sep-07	10-Oct-07	SL_GCFX1	\$\$		46,387	46,387		46,387	46,387	10.0%	4,639
1	09	03	09	15	FEE HVAC Deck Inserts	5-Jul-07	1-Aug-07	SL_GCFX1	\$\$		30,000	30,000		30,000	30,000	10.0%	3,000
1	09	03	09	15	FEE Plumbing Deck Inserts	5-Jul-07	1-Aug-07	SL_GCFX1	\$\$		15,000	15,000		15,000	15,000	10.0%	1,500
1	09	03	09	15	FEE HVAC Trim	25-Oct-07	7-Nov-07	SL_GCFX1	\$\$		12,271	12,271		12,271	12,271	10.0%	1,227
1	09	03	09	15	FEE HVAC Insulation	11-Oct-07	24-Oct-07	SL_GCFX1	\$\$		15,240	15,240		15,240	15,240	10.0%	1,524
1	09	03	09	15	FEE HVAC Controls	25-Oct-07	7-Nov-07	SL_GCFX1	\$\$		34,520	34,520		34,520	34,520	10.0%	3,452
1	09	03	09	15	FEE HVAC Balancing	8-Nov-07	15-Nov-07	SL_GCFX1	\$\$		1,350	1,350		1,350	1,350	10.0%	135
1	09	03	09	15	BP10 - Fire Protection (FEE)	5-Sep-07	2-Oct-07	SL_GCFX1	\$\$		24,608	24,608		24,608	24,608	10.0%	2,461
1	09	03	09	16	FEE - Electrical						-	292,334	-	292,334	292,334		29,233
1	09	03	09	16	FEE O/H Electrical R/I	5-Sep-07	17-Oct-07	SL_GCFX1	\$\$		117,803	117,803		117,803	117,803	10.0%	11,780
1	09	03	09	16	FEE Lighting	5-Sep-07	17-Oct-07	SL_GCFX1	\$\$		13,954	13,954		13,954	13,954	10.0%	1,395
1	09	03	09	16	FEE Electrical - Grounding	23-May-07	5-Jul-07	SL_GCFX1	\$\$		11,881	11,881		11,881	11,881	10.0%	1,188
1	09	03	09	16	FEE Temporary Power	1-May-07	4-May-07	SL_GCFX1	\$\$		30,000	30,000		30,000	30,000	10.0%	3,000
1	09	03	09	16	FEE Fire / Life / Safety	18-Oct-07	15-Nov-07	SL_GCFX1	\$\$		12,249	12,249		12,249	12,249	10.0%	1,225
1	09	03	09	16	FEE Install Data Cabling Trays	5-Sep-07	18-Sep-07	SL_GCFX1	\$\$		90,271	90,271		90,271	90,271	10.0%	9,027
1	09	03	09	16	FEE Electrical Deck Inserts	6-Nov-07	13-Nov-07	SL_GCFX1	\$\$		12,681	12,681		12,681	12,681	10.0%	1,268
1	09	03	09	16	FEE Electrical Trim	18-Oct-07	7-Nov-07	SL_GCFX1	\$\$		3,495	3,495		3,495	3,495	10.0%	350
1	09	03	09	17	FEE - Others (include Div 4, and 6 through 14)						-	188,202	-	188,202	188,202		18,820
1	09	03	09	17	FEE Devices / Doors / Fixtures	16-Nov-07	7-Dec-07	SL_GCFX1	\$\$		10,373	10,373		10,373	10,373	10.0%	1,037
1	09	03	09	17	FEE Epoxy Flooring	3-Oct-07	5-Oct-07	SL_GCFX1	\$\$		2,543	2,543		2,543	2,543	10.0%	254
1	09	03	09	17	BP34 - FEE Signage (Hammock)	16-Nov-07	20-Mar-08	SL_GCFX1	\$\$		480	480		480	480	10.0%	48
1	09	03	09	17	BP22 - Roofing Waterproofing (FEE)	5-Sep-07	10-Sep-07	SL_GCFX1	\$\$		174,806	174,806		174,806	174,806	10.0%	17,481
1	09	03	10	EBD - Others						-	2,239,466	-	2,253,866	2,253,866		248,967	
1	09	03	10	01	EBD - Site Preparation/General Requirements						-	300,000	-	314,400	314,400		55,020
1	09	03	10	01	Fabrication Wall 2 - EBD Steel Shielding	1-May-07	29-Jun-07	SL_MSSF2	\$\$		150,000	157,200		157,200	157,200	10.0%	15,720
1	09	03	10	01	Install: EBD Steel Shielding - Wall 1 & 2	3-Jul-07	31-Jul-07	SL_MSSF2	\$\$		150,000	157,200		157,200	157,200	25.0%	39,300
1	09	03	10	03	EBD - Concrete						-	1,289,554	-	1,289,554	1,289,554		128,955
1	09	03	10	03	BD Pour Mud Slab @ Pit	6-Jul-07	6-Jul-07	SL_GCFX1	\$\$		6,960	6,960		6,960	6,960	10.0%	696
1	09	03	10	03	BD Rebar Pit Slabs Pour #1	9-Jul-07	10-Jul-07	SL_GCFX1	\$\$		18,050	18,050		18,050	18,050	10.0%	1,805
1	09	03	10	03	BD Pour Pit Slabs Pour #1	11-Jul-07	11-Jul-07	SL_GCFX1	\$\$		9,900	9,900		9,900	9,900	10.0%	990
1	09	03	10	03	BD Form Pit Walls Pour #1	12-Jul-07	18-Jul-07	SL_GCFX1	\$\$		20,000	20,000		20,000	20,000	10.0%	2,000
1	09	03	10	03	BD Rebar Pit Walls Pour #1	12-Jul-07	16-Jul-07	SL_GCFX1	\$\$		18,000	18,000		18,000	18,000	10.0%	1,800
1	09	03	10	03	BD Pour Pit Walls Pour #1	19-Jul-07	19-Jul-07	SL_GCFX1	\$\$		13,200	13,200		13,200	13,200	10.0%	1,320
1	09	03	10	03	BD Rebar Walls Pour #1	3-Aug-07	14-Aug-07	SL_GCFX1	\$\$		60,000	60,000		60,000	60,000	10.0%	6,000
1	09	03	10	03	BD Rebar Deck Pour #1	31-Oct-07	5-Nov-07	SL_GCFX1	\$\$		26,540	26,540		26,540	26,540	10.0%	2,654
1	09	03	10	03	BD Rebar SOG Pour #2	23-Aug-07	30-Aug-07	SL_GCFX1	\$\$		64,900	64,900		64,900	64,900	10.0%	6,490
1	09	03	10	03	BD Form Walls Pour #2	4-Sep-07	14-Sep-07	SL_GCFX1	\$\$		192,400	192,400		192,400	192,400	10.0%	19,240
1	09	03	10	03	BD Rebar Walls Pour #2	4-Sep-07	12-Sep-07	SL_GCFX1	\$\$		88,888	88,888		88,888	88,888	10.0%	8,889
1	09	03	10	03	BD Pour Walls Pour #2	17-Sep-07	17-Sep-07	SL_GCFX1	\$\$		121,400	121,400		121,400	121,400	10.0%	12,140
1	09	03	10	03	BD Form Deck Pour #2	18-Sep-07	28-Sep-07	SL_GCFX1	\$\$		43,350	43,350		43,350	43,350	10.0%	4,335
1	09	03	10	03	BD Rebar Deck Pour #2	1-Oct-07	9-Oct-07	SL_GCFX1	\$\$		37,300	37,300		37,300	37,300	10.0%	3,730
1	09	03	10	03	BD Form Walls Pour #1	3-Aug-07	20-Aug-07	SL_GCFX1	\$\$		84,650	84,650		84,650	84,650	10.0%	8,465
1	09	03	10	03	BD Pour Mud Slab Pour #1	20-Jul-07	20-Jul-07	SL_GCFX1	\$\$		6,960	6,960		6,960	6,960	10.0%	696
1	09	03	10	03	BD Rebar SOG Pour #1	23-Jul-07	1-Aug-07	SL_GCFX1	\$\$		50,000	50,000		50,000	50,000	10.0%	5,000
1	09	03	10	03	BD Form SOG Pour #1	23-Jul-07	1-Aug-07	SL_GCFX1	\$\$		58,500	58,500		58,500	58,500	10.0%	5,850
1	09	03	10	03	BD Pour SOG Pour #1	2-Aug-07	2-Aug-07	SL_GCFX1	\$\$		60,000	60,000		60,000	60,000	10.0%	6,000
1	09	03	10	03	BD Pour Mud Slab Pour #2	22-Aug-07	22-Aug-07	SL_GCFX1	\$\$		6,960	6,960		6,960	6,960	10.0%	696
1	09	03	10	03	BD Pour SOG Pour #2	31-Aug-07	31-Aug-07	SL_GCFX1	\$\$		70,250	70,250		70,250	70,250	10.0%	7,025
1	09	03	10	03	BD Form SOG Pour #2	23-Aug-07	30-Aug-07	SL_GCFX1	\$\$		48,000	48,000		48,000	48,000	10.0%	4,800
1	09	03	10	03	BD Pour Walls Pour #1	21-Aug-07	21-Aug-07	SL_GCFX1	\$\$		60,000	60,000		60,000	60,000	10.0%	6,000
1	09	03	10	03	BD Form Deck Pour #1	18-Oct-07	30-Oct-07	SL_GCFX1	\$\$		43,246	43,246		43,246	43,246	10.0%	4,325
1	09	03	10	03	BD Pour Deck Pour #1	7-Nov-07	7-Nov-07	SL_GCFX1	\$\$		40,050	40,050		40,050	40,050	10.0%	4,005
1	09	03	10	03	BD Pour Deck Pour #2	10-Oct-07	10-Oct-07	SL_GCFX1	\$\$		40,050	40,050		40,050	40,050	10.0%	4,005
1	09	03	10	05	EBD - Metals						-	206,591	-	206,591	206,591		20,659
1	09	03	10	05	BP18 - Misc. Metals (BD)	2-Jan-08	3-Jan-08	SL_GCFX1	\$\$		14,800	14,800		14,800	14,800	10.0%	1,480
1	09	03	10	05	BP41 - Monorail Hoist (Hammock)	24-Dec-07	31-Dec-07	SL_GCFX1	\$\$		191,791	191,791		191,791	191,791	10.0%	19,179
1	09	03	10	15	EBD - Mechanical						-	228,663	-	228,663	228,663		22,866
1	09	03	10	15	BD HVAC Rough-in	26-Nov-07	21-Dec-07	SL_GCFX1	\$\$		109,846	109,846		109,846	109,846	10.0%	10,985
1	09	03	10	15	BD Plumbing Rough-in	26-Nov-07	21-Dec-07	SL_GCFX1	\$\$		34,751	34,751		34,751	34,751	10.0%	3,475
1	09	03	10	15	BD HVAC Deck Inserts	31-Oct-07	7-Nov-07	SL_GCFX1	\$\$		20,000	20,000		20,000	20,000	10.0%	2,000
1	09	03	10	15	BD HVAC Trim	2-Jan-08	15-Jan-08	SL_GCFX1	\$\$		8,785	8,785		8,785	8,785	10.0%	879
1	09	03	10	15	BD HVAC Insulation	24-Dec-07	8-Jan-08	SL_GCFX1	\$\$		7,000	7,000		7,000	7,000	10.0%	700
1	09	03	10	15	BD HVAC Controls	2-Jan-08	15-Jan-08	SL_GCFX1	\$\$		18,090	18,090		18,090	18,090	10.0%	1,809
1	09	03	10	15	BD HVAC Balancing	16-Jan-08	23-Jan-08	SL_GCFX1	\$\$		1,350	1,350		1,350	1,350	10.0%	135
1	09	03	10	15	BD Plumbing Deck Inserts	31-Oct-07	6-Nov-07	SL_GCFX1	\$\$		10,000	10,000		10,000	10,000	10.0%	1,000
1	09	03	10	15	BP10 - Fire Protection (BD)	26-Nov-07	14-Dec-07	SL_GCFX1	\$\$		18,841	18,841		18,841	18,841	10.0%	1,884
1	09	03	10	16	EBD - Electrical						-	209,257	-	209,257	209,257	</	

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escldt Cost			Cont %	Contingency \$
Description											Hours	\$	Labor	M&S	Total		
1	09	03	10	16	6	BD Electrical Grounding	9-Jul-07	3-Aug-07	SL_GCFX1	\$\$		8,623		8,623	8,623	10.0%	862
1	09	03	10	16		BD Fire / Life / Safety	24-Dec-07	15-Jan-08	SL_GCFX1	\$\$		10,689		10,689	10,689	10.0%	1,069
1	09	03	10	16		BD Temporary Power	1-May-07	4-May-07	SL_GCFX1	\$\$		30,000		30,000	30,000	10.0%	3,000
1	09	03	10	16		BD Electrical Trim	2-Jan-08	15-Jan-08	SL_GCFX1	\$\$		2,861		2,861	2,861	10.0%	286
1	09	03	10	16		BD Install Data Cabling Trays	26-Nov-07	21-Dec-07	SL_GCFX1	\$\$		23,168		23,168	23,168	10.0%	2,317
1	09	03	10	16		BD Electrical Deck Inserts	31-Oct-07	6-Nov-07	SL_GCFX1	\$\$		53,335		53,335	53,335	10.0%	5,334
1	09	03	10	17		EBD - Others (include Div 4, and 6 through 14)					-	5,401	-	5,401		540	
1	09	03	10	17		EBD Epoxy Flooring	1-Dec-07	9-Dec-07	SL_GCFX1	\$\$		1,576		1,576	1,576	10.0%	158
1	09	03	10	17		BD Signage	12-Dec-07	14-Dec-07	SL_GCFX1	\$\$		120		120	120	10.0%	12
1	09	03	10	17		BP27 - Doors / Frames / Hardware (Hammock)	10-Dec-07	21-Apr-08	SL_GCFX1	\$\$		3,705		3,705	3,705	10.0%	371
1	09	03	11			Near Experimental Hall (NEH)					-	12,478,337	-	12,496,577		1,310,442	
1	09	03	11	01		NEH - Site Preparation/General Requirements					-	888,420	-	888,420		88,842	
1	09	03	11	01		Bond - (Hoem-Schurba)	21-Nov-07	30-Nov-07	SL_GCFX1	\$\$		553		553	553	10.0%	55
1	09	03	11	01		Bond - Valley Sheet Metal Co.	1-May-07	1-May-07	SL_GCFX1	\$\$		2,706		2,706	2,706	10.0%	271
1	09	03	11	01		Submittals / Drawings - (O.C. McDonald)	1-May-07	31-Jul-07	SL_GCFX1	\$\$		159,600		159,600	159,600	10.0%	15,960
1	09	03	11	01		Mobilization - The Conco Companies	1-May-07	30-May-07	SL_GCFX1	\$\$		150,000		150,000	150,000	10.0%	15,000
1	09	03	11	01		Equipment Pads	1-May-07	28-Sep-07	SL_GCFX1	\$\$		297,583		297,583	297,583	10.0%	29,758
1	09	03	11	01		Detailing / Engineering - Kwan Wo	1-May-07	15-May-07	SL_GCFX1	\$\$		48,598		48,598	48,598	10.0%	4,860
1	09	03	11	01		Allowances #1- The Conco Companies	1-May-07	23-Apr-08	SL_GCFX1	\$\$		50,000		50,000	50,000	10.0%	5,000
1	09	03	11	01		Allowances #2- The Conco Companies	1-May-07	23-Apr-08	SL_GCFX1	\$\$		50,000		50,000	50,000	10.0%	5,000
1	09	03	11	01		Bond - Kwan Wo	1-May-07	1-May-07	SL_GCFX1	\$\$		29,037		29,037	29,037	10.0%	2,904
1	09	03	11	01		Allowance from Turner - Kwan Wo	1-May-07	15-May-07	SL_GCFX1	\$\$		30,000		30,000	30,000	10.0%	3,000
1	09	03	11	01		Bond - DW Nicholson (Loading Dock Equip)	1-May-07	1-May-07	SL_GCFX1	\$\$		495		495	495	10.0%	50
1	09	03	11	01		Bond - Doors / Frames (BK Mill)	1-May-07	14-May-07	SL_GCFX1	\$\$		7,020		7,020	7,020	10.0%	702
1	09	03	11	01		Bond - Alca Arcade Contracting	1-May-07	1-May-07	SL_GCFX1	\$\$		7,206		7,206	7,206	10.0%	721
1	09	03	11	01		Bond - Dale's Drywall	10-Oct-07	10-Oct-07	SL_GCFX1	\$\$		23,856		23,856	23,856	10.0%	2,386
1	09	03	11	01		Submittals / Engineering - Mission Bell Mfg	1-May-07	26-Jun-07	SL_GCFX1	\$\$		2,031		2,031	2,031	10.0%	203
1	09	03	11	01		Project Mgmt- Mission Bell Mfg	1-May-07	26-Dec-07	SL_GCFX1	\$\$		3,395		3,395	3,395	10.0%	340
1	09	03	11	01		Materials - Mission Bell Mfg	16-Aug-07	6-Sep-07	SL_GCFX1	\$\$		10,298		10,298	10,298	10.0%	1,030
1	09	03	11	01		Shop Fabrication- Mission Bell Mfg	7-Sep-07	19-Nov-07	SL_GCFX1	\$\$		14,997		14,997	14,997	10.0%	1,500
1	09	03	11	01		Load & Delivery - Mission Bell Mfg	20-Nov-07	4-Dec-07	SL_GCFX1	\$\$		1,045		1,045	1,045	10.0%	105
1	09	03	11	02		NEH - Site Construction					-	200,000	-	209,600		62,880	
1	09	03	11	02		Start: Fire Protection (Hazard Analysis)	2-May-07	16-Nov-07	SL_MSPF2	\$\$		200,000		209,600	209,600	30.0%	62,880
1	09	03	11	03		NEH - Concrete					-	2,208,481	-	2,208,481		220,848	
1	09	03	11	03		Plaza Topping Slab	31-Oct-07	2-Nov-07	SL_GCFX1	\$\$		56,400		56,400	56,400	10.0%	5,640
1	09	03	11	03		Rebar Slab @ Basement	1-May-07	7-May-07	SL_GCFX1	\$\$		180,810		180,810	180,810	10.0%	18,081
1	09	03	11	03		Form Vert to 1st Level #1	9-May-07	18-May-07	SL_GCFX1	\$\$		145,300		145,300	145,300	10.0%	14,530
1	09	03	11	03		Rebar Vert to 1st Level #1	9-May-07	17-May-07	SL_GCFX1	\$\$		97,590		97,590	97,590	10.0%	9,759
1	09	03	11	03		Pour Vert to 1st Level #1	30-May-07	31-May-07	SL_GCFX1	\$\$		108,650		108,650	108,650	10.0%	10,865
1	09	03	11	03		Form Vert to 1st Level #2	1-Jun-07	11-Jun-07	SL_GCFX1	\$\$		145,300		145,300	145,300	10.0%	14,530
1	09	03	11	03		Rebar Vert to 1st Level #2	1-Jun-07	11-Jun-07	SL_GCFX1	\$\$		97,591		97,591	97,591	10.0%	9,759
1	09	03	11	03		Excavate Loading Dock Footings	29-Aug-07	30-Aug-07	SL_GCFX1	\$\$		1,300		1,300	1,300	10.0%	130
1	09	03	11	03		Pour Pan Filled Stairs	31-Oct-07	14-Nov-07	SL_GCFX1	\$\$		12,900		12,900	12,900	10.0%	1,290
1	09	03	11	03		Pour Vert to 1st Level #2	12-Jun-07	13-Jun-07	SL_GCFX1	\$\$		108,650		108,650	108,650	10.0%	10,865
1	09	03	11	03		Form 1st Floor Soffit	14-Jun-07	29-Jun-07	SL_GCFX1	\$\$		524,800		524,800	524,800	10.0%	52,480
1	09	03	11	03		Rebar 1st Floor Slab	5-Jul-07	20-Jul-07	SL_GCFX1	\$\$		199,000		199,000	199,000	10.0%	19,900
1	09	03	11	03		Pour 1st Floor Slab	23-Jul-07	23-Jul-07	SL_GCFX1	\$\$		184,400		184,400	184,400	10.0%	18,440
1	09	03	11	03		Rebar/Form Loading Dock Footings	31-Aug-07	5-Sep-07	SL_GCFX1	\$\$		8,950		8,950	8,950	10.0%	895
1	09	03	11	03		Pour Loading Dock Footings	6-Sep-07	7-Sep-07	SL_GCFX1	\$\$		8,100		8,100	8,100	10.0%	810
1	09	03	11	03		Form Vertical Loading Dock Walls	10-Sep-07	12-Sep-07	SL_GCFX1	\$\$		8,500		8,500	8,500	10.0%	850
1	09	03	11	03		Rebar Loading Dock Walls	10-Sep-07	11-Sep-07	SL_GCFX1	\$\$		3,250		3,250	3,250	10.0%	325
1	09	03	11	03		Pour Loading Dock Walls	13-Sep-07	13-Sep-07	SL_GCFX1	\$\$		3,500		3,500	3,500	10.0%	350
1	09	03	11	03		Backfill Loading Dock Walls	14-Sep-07	18-Sep-07	SL_GCFX1	\$\$		2,000		2,000	2,000	10.0%	200
1	09	03	11	03		Form Dock Leveler Slab	19-Sep-07	19-Sep-07	SL_GCFX1	\$\$		1,000		1,000	1,000	10.0%	100
1	09	03	11	03		Rebar Dock Leveler Slab	20-Sep-07	20-Sep-07	SL_GCFX1	\$\$		500		500	500	10.0%	50
1	09	03	11	03		Pour Dock Leveler Slab	21-Sep-07	21-Sep-07	SL_GCFX1	\$\$		1,900		1,900	1,900	10.0%	190
1	09	03	11	03		Form Dock Leveler Walls	24-Sep-07	27-Sep-07	SL_GCFX1	\$\$		8,500		8,500	8,500	10.0%	850
1	09	03	11	03		Rebar Dock Leveler Walls	24-Sep-07	25-Sep-07	SL_GCFX1	\$\$		3,200		3,200	3,200	10.0%	320
1	09	03	11	03		Pour Dock Leveler Walls	28-Sep-07	28-Sep-07	SL_GCFX1	\$\$		3,500		3,500	3,500	10.0%	350
1	09	03	11	03		Rebar/Form Loading Dock SOG	4-Oct-07	5-Oct-07	SL_GCFX1	\$\$		5,690		5,690	5,690	10.0%	569
1	09	03	11	03		Pour Loading Dock SOG	9-Oct-07	9-Oct-07	SL_GCFX1	\$\$		13,700		13,700	13,700	10.0%	1,370
1	09	03	11	03		Pour Slab @ Basement	8-May-07	8-May-07	SL_GCFX1	\$\$		273,500		273,500	273,500	10.0%	27,350
1	09	03	11	05		NEH - Metals					-	361,700	-	361,700		36,170	
1	09	03	11	05		BP18 - Misc. Metals (NEH)	7-Sep-07	11-Dec-07	SL_GCFX1	\$\$		361,700		361,700	361,700	10.0%	36,170
1	09	03	11	15		NEH - Mechanical					-	4,236,475	-	4,236,475		423,648	
1	09	03	11	15		BP10 - Fire Protection (NEH)	9-Aug-07	12-Dec-07	SL_GCFX1	\$\$		458,035		458,035	458,035	10.0%	45,804
1	09	03	11	15		BM Plumbing Rough-in	9-Aug-07	20-Sep-07	SL_GCFX1	\$\$		602,243		602,243	602,243	10.0%	60,224
1	09	03	11	15		BM HVAC Rough-in	9-Aug-07	20-Sep-07	SL_GCFX1	\$\$		1,268,815		1,268,815	1,268,815	10.0%	126,882
1	09	03	11	15		Plumbing Inserts Plaza Deck	2-Jul-07	9-Jul-07	SL_GCFX1	\$\$		30,000		30,000	30,000	10.0%	3,000
1	09	03	11	15		HVAC Inserts Plaza Deck	2-Jul-07	9-Jul-07	SL_GCFX1	\$\$		30,000		30,000	30,000	10.0%	3,000
1	09	03	11	15		BM HVAC Trim	12-Dec-07	26-Dec-07	SL_GCFX1	\$\$		155,895		155,895	155,895	10.0%	15,590
1	09	03	11	15		BM Plumbing Trim	28-Nov-07	11-Dec-07	SL_GCFX1	\$\$		52,936		52,936	52,936	10.0%	5,294

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early	Early	Res	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escldt Cost			Cont	Contingency
						Description	Start	Finish	Code		Hours	\$	Labor	M&S	Total	%	\$
1	09	03	11	15	6	BM Plumbing Insulation	21-Sep-07	12-Oct-07	SL_GCFX1	\$\$		84,413		84,413	84,413	10.0%	8,441
1	09	03	11	15		BM HVAC Insulation	21-Sep-07	4-Oct-07	SL_GCFX1	\$\$		84,413		84,413	84,413	10.0%	8,441
1	09	03	11	15		BM HVAC Controls	5-Oct-07	26-Oct-07	SL_GCFX1	\$\$		238,570		238,570	238,570	10.0%	23,857
1	09	03	11	15		BM HVAC Balancing	27-Dec-07	3-Jan-08	SL_GCFX1	\$\$		12,600		12,600	12,600	10.0%	1,260
1	09	03	11	15		Sub BM HVAC Rough-in	9-Aug-07	20-Sep-07	SL_GCFX1	\$\$		888,314		888,314	888,314	10.0%	88,831
1	09	03	11	15		Sub BM HVAC Trim	12-Dec-07	26-Dec-07	SL_GCFX1	\$\$		36,009		36,009	36,009	10.0%	3,601
1	09	03	11	15		Sub BM Plumbing Trim	28-Nov-07	11-Dec-07	SL_GCFX1	\$\$		66,122		66,122	66,122	10.0%	6,612
1	09	03	11	15		Sub BM Plumbing Insulation	21-Sep-07	12-Oct-07	SL_GCFX1	\$\$		47,070		47,070	47,070	10.0%	4,707
1	09	03	11	15		Sub BM HVAC Insulation	21-Sep-07	4-Oct-07	SL_GCFX1	\$\$		47,070		47,070	47,070	10.0%	4,707
1	09	03	11	15		Sub BM HVAC Controls	5-Oct-07	26-Oct-07	SL_GCFX1	\$\$		22,000		22,000	22,000	10.0%	2,200
1	09	03	11	15		Sub BM HVAC Balancing	27-Dec-07	3-Jan-08	SL_GCFX1	\$\$		22,550		22,550	22,550	10.0%	2,255
1	09	03	11	15		Sub BM Plumbing Rough-in	9-Aug-07	20-Sep-07	SL_GCFX1	\$\$		89,420		89,420	89,420	10.0%	8,942
1	09	03	11	16		NEH - Electrical					-	1,870,386	-	1,870,386	1,870,386		187,039
1	09	03	11	16		Conf Ctr O/H Electrical R/I	31-Oct-07	14-Nov-07	SL_GCFX1	\$\$		97,070		97,070	97,070	10.0%	9,707
1	09	03	11	16		Conf Ctr Fire / Life / Safety R/I	31-Oct-07	14-Nov-07	SL_GCFX1	\$\$		5,885		5,885	5,885	10.0%	589
1	09	03	11	16		Conf Ctr Electrical Wall R/I	23-Nov-07	27-Nov-07	SL_GCFX1	\$\$		14,693		14,693	14,693	10.0%	1,469
1	09	03	11	16		Conf Ctr Drop In Light Fixtures	27-Dec-07	3-Jan-08	SL_GCFX1	\$\$		9,889		9,889	9,889	10.0%	989
1	09	03	11	16		Conf Ctr Elevator Fire Detection / Tel Connect	11-Jan-08	17-Jan-08	SL_GCFX1	\$\$		6,200		6,200	6,200	10.0%	620
1	09	03	11	16		BM Electrical Wall R/I	21-Sep-07	12-Oct-07	SL_GCFX1	\$\$		108,618		108,618	108,618	10.0%	10,862
1	09	03	11	16		BM Drop In Light Fixtures	28-Nov-07	11-Dec-07	SL_GCFX1	\$\$		34,499		34,499	34,499	10.0%	3,450
1	09	03	11	16		BM Electrical In-Wall Conduit & Grounding	11-May-07	29-May-07	SL_GCFX1	\$\$		31,000		31,000	31,000	10.0%	3,100
1	09	03	11	16		BM O/H Electrical R/I	9-Aug-07	20-Sep-07	SL_GCFX1	\$\$		534,361		534,361	534,361	10.0%	53,436
1	09	03	11	16		Plaza Deck Electrical Inserts	2-Jul-07	9-Jul-07	SL_GCFX1	\$\$		15,676		15,676	15,676	10.0%	1,568
1	09	03	11	16		BM Electrical R/I - Grounding	1-May-07	14-May-07	SL_GCFX1	\$\$		5,000		5,000	5,000	10.0%	500
1	09	03	11	16		BM Fire / Life / Safety R/I	15-Oct-07	9-Nov-07	SL_GCFX1	\$\$		5,885		5,885	5,885	10.0%	589
1	09	03	11	16		Set & Connect Emergency Generator	17-Oct-07	30-Oct-07	SL_GCFX1	\$\$		53,598		53,598	53,598	10.0%	5,360
1	09	03	11	16		BM Electrical Trim	28-Nov-07	11-Dec-07	SL_GCFX1	\$\$		31,598		31,598	31,598	10.0%	3,160
1	09	03	11	16		Sub BM O/H Electrical R/I	9-Aug-07	20-Sep-07	SL_GCFX1	\$\$		541,968		541,968	541,968	10.0%	54,197
1	09	03	11	16		Sub BM Electrical Wall R/I	21-Sep-07	12-Oct-07	SL_GCFX1	\$\$		285,040		285,040	285,040	10.0%	28,504
1	09	03	11	16		Sub BM Fire / Life / Safety R/I	15-Oct-07	9-Nov-07	SL_GCFX1	\$\$		26,789		26,789	26,789	10.0%	2,679
1	09	03	11	16		Sub BM Electrical Trim	28-Nov-07	11-Dec-07	SL_GCFX1	\$\$		28,118		28,118	28,118	10.0%	2,812
1	09	03	11	16		Sub BM Drop in Light Fixtures	28-Nov-07	11-Dec-07	SL_GCFX1	\$\$		34,499		34,499	34,499	10.0%	3,450
1	09	03	11	17		NEH - Others (include Div 4, and 6 through 14)					-	2,532,875	-	2,532,875	2,532,875		253,288
1	09	03	11	17		BP23 - Deck Coating (Hammock)	12-Dec-07	26-Dec-07	SL_GCFX1	\$\$		147,954		147,954	147,954	10.0%	14,795
1	09	03	11	17		BP22 - Roofing / Waterproofing (NEH)	24-Jul-07	6-Aug-07	SL_GCFX1	\$\$		399,253		399,253	399,253	10.0%	39,925
1	09	03	11	17		BP29 - Acoustical Ceiling (Hammock)	28-Nov-07	4-Jan-08	SL_GCFX1	\$\$		47,555		47,555	47,555	10.0%	4,756
1	09	03	11	17		BP35 - NEH Misc. Specialties (Hammock)	21-Nov-07	5-Dec-07	SL_GCFX1	\$\$		28,540		28,540	28,540	10.0%	2,854
1	09	03	11	17		BP36 - Loading Dock Equipment (Hammock)	10-Oct-07	16-Oct-07	SL_GCFX1	\$\$		33,000		33,000	33,000	10.0%	3,300
1	09	03	11	17		BP37 - Equipment Support (Hammock)	2-Oct-07	9-Oct-07	SL_GCFX1	\$\$		145,562		145,562	145,562	10.0%	14,556
1	09	03	11	17		BP40 - Elevators (Hammock)	29-Oct-07	25-Jan-08	SL_GCFX1	\$\$		213,807		213,807	213,807	10.0%	21,381
1	09	03	11	17		BP42 - Ceramic Tiles (Hammock)	13-Nov-07	27-Nov-07	SL_GCFX1	\$\$		40,389		40,389	40,389	10.0%	4,039
1	09	03	11	17		BP30 - NEH Painting (Hammock)	13-Nov-07	26-Dec-07	SL_GCFX1	\$\$		298,480		298,480	298,480	10.0%	29,848
1	09	03	11	17		BP31 - Framing/Drywall (NEH) Hammock	26-Nov-07	12-Dec-07	SL_GCFX1	\$\$		973,573		973,573	973,573	10.0%	97,357
1	09	03	11	17		BP32 - Flooring (NEH) Hammock	24-Sep-07	7-Jan-08	SL_GCFX1	\$\$		12,452		12,452	12,452	10.0%	1,245
1	09	03	11	17		Casework - Cabinets / Shelving / Millwork	5-Dec-07	26-Dec-07	SL_GCFX1	\$\$		4,232		4,232	4,232	10.0%	423
1	09	03	11	17		BM Devices / Doors / Fixtures	13-Nov-07	27-Nov-07	SL_GCFX1	\$\$		175,666		175,666	175,666	10.0%	17,567
1	09	03	11	17		NEH Signage	28-Nov-07	11-Dec-07	SL_GCFX1	\$\$		12,412		12,412	12,412	10.0%	1,241
1	09	03	11	20		NEH - Project Close Out					-	180,000	-	188,640	188,640		37,728
1	09	03	11	20		AWARD: NEH Furnishing	7-Jan-08	7-Jan-08	SL_AWARD	\$\$		189,000		189,000	189,000	20.0%	44,617
1	09	03	11	20		NEH Furnishing	8-Jan-08	5-Mar-08	SA_MSSF2	\$\$		180,000		188,640	188,640	20.0%	37,728
1	09	03	12			Undulator Hall (UH)					-	6,589,925	-	6,589,925	6,589,925		658,993
1	09	03	12	01		UH - Site Preparation/General Requirements					-	681,732	-	681,732	681,732		68,173
1	09	03	12	01		Mobilize to Site - Affholder, Inc.	1-May-07	30-Jul-07	SL_GCFX1	\$\$		420,195		420,195	420,195	10.0%	42,020
1	09	03	12	01		Sales Tax - Affholder, Inc. (Mod 28)	1-May-07	14-Apr-08	SL_GCFX1	\$\$		231,537		231,537	231,537	10.0%	23,154
1	09	03	12	01		Dispute Review Board - Affholder, Inc.	1-May-07	23-Apr-08	SL_GCFX1	\$\$		30,000		30,000	30,000	10.0%	3,000
1	09	03	12	15		UH - Mechanical					-	542,293	-	542,293	542,293		54,229
1	09	03	12	15		BP10 - Fire Protection (UH)	6-Nov-07	5-Dec-07	SL_GCFX1	\$\$		62,504		62,504	62,504	10.0%	6,250
1	09	03	12	15		UH HVAC Rough-in	6-Nov-07	27-Dec-07	SL_GCFX1	\$\$		280,440		280,440	280,440	10.0%	28,044
1	09	03	12	15		UH Plumbing Rough-in	6-Nov-07	19-Dec-07	SL_GCFX1	\$\$		69,961		69,961	69,961	10.0%	6,996
1	09	03	12	15		UH HVAC Trim	14-Jan-08	28-Jan-08	SL_GCFX1	\$\$		42,138		42,138	42,138	10.0%	4,214
1	09	03	12	15		UH HVAC Insulation	28-Dec-07	11-Jan-08	SL_GCFX1	\$\$		35,990		35,990	35,990	10.0%	3,599
1	09	03	12	15		UH HVAC Controls	14-Jan-08	28-Jan-08	SL_GCFX1	\$\$		48,300		48,300	48,300	10.0%	4,830
1	09	03	12	15		UH HVAC Balancing	29-Jan-08	4-Feb-08	SL_GCFX1	\$\$		2,960		2,960	2,960	10.0%	296
1	09	03	12	16		UH - Electrical					-	981,235	-	981,235	981,235		98,124
1	09	03	12	16		Install GDMs - 40 Ea.	1-May-07	7-May-07	SL_GCFX1	\$\$		7,700		7,700	7,700	10.0%	770
1	09	03	12	16		UH Data Cable Trays	6-Nov-07	12-Dec-07	SL_GCFX1	\$\$		213,994		213,994	213,994	10.0%	21,399
1	09	03	12	16		UH Invert Grounding	5-Oct-07	19-Oct-07	SL_GCFX1	\$\$		36,881		36,881	36,881	10.0%	3,688
1	09	03	12	16		UH Temporary Power	1-May-07	7-May-07	SL_GCFX1	\$\$		30,000		30,000	30,000	10.0%	3,000
1	09	03	12	16		UH O/H Electrical R/I	6-Nov-07	12-Dec-07	SL_GCFX1	\$\$		505,306		505,306	505,306	10.0%	50,531
1	09	03	12	16		UH Fire / Life / Safety	14-Nov-07	5-Dec-07	SL_GCFX1	\$\$		22,570		22,570	22,570	10.0%	2,257
1	09	03	12	16		UH Lighting	6-Nov-07	28-Nov-07	SL_GCFX1	\$\$		85,701		85,701	85,701	10.0%	8,570
1	09	03	12	16		UH Electrical Trim	13-Dec-07	4-Jan-08	SL_GCFX1	\$\$		22,258		22,258	22,258	10.0%	2,226

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escldt Cost			Cont %	Contingency \$
Description											Hours	\$	Labor	M&S	Total		
1	09	03	12	16	6	Install Tunnel Monitoring Cross Section - 17 Ea.	15-May-07	21-May-07	SL_GCFX1	\$\$		15,300			15,300	10.0%	1,530
1	09	03	12	16		Install Sighting Shaft - X-Ray Tunnel	10-Sep-07	25-Sep-07	SL_GCFX1	\$\$		28,625			28,625	10.0%	2,863
1	09	03	12	16		Install Cavern Monitoring Cross Sections - 3 Ea.	8-May-07	14-May-07	SL_GCFX1	\$\$		12,900			12,900	10.0%	1,290
1	09	03	12	17		UH - Others (include Div 4, and 6 through 14)					-	18,610	-	18,610		1,861	
1	09	03	12	17		UH Tunnel Epoxy Flooring	10-Nov-07	25-Nov-07	SL_GCFX1	\$\$		5,412			5,412	10.0%	541
1	09	03	12	17		Devices / Doors / Fixtures	14-Nov-07	5-Dec-07	SL_GCFX1	\$\$		13,198			13,198	10.0%	1,320
1	09	03	12	19		UH - Tunnel Construction					-	4,366,055	-	4,366,055		436,606	
1	09	03	12	19		Cement-Grouted Galv. Rock Dowels, 1" Dia.	6-Jun-07	6-Jun-07	SL_GCFX1	\$\$		45,000			45,000	10.0%	4,500
1	09	03	12	19		Fiber-Reinforced Shotcrete, 1" Thick	13-Jun-07	13-Jun-07	SL_GCFX1	\$\$		8,000			8,000	10.0%	800
1	09	03	12	19		Plain Shotcrete, 1" Thick	27-Jun-07	27-Jun-07	SL_GCFX1	\$\$		7,500			7,500	10.0%	750
1	09	03	12	19		Welded Wire Fabric	5-Jul-07	5-Jul-07	SL_GCFX1	\$\$		6,000			6,000	10.0%	600
1	09	03	12	19		Lattice Girders, Type 1 Tunnels	12-Jul-07	12-Jul-07	SL_GCFX1	\$\$		28,800			28,800	10.0%	2,880
1	09	03	12	19		Lattice Girders, Type 2 FEH	19-Jul-07	19-Jul-07	SL_GCFX1	\$\$		6,400			6,400	10.0%	640
1	09	03	12	19		Fiberglass Face Bolts	26-Jul-07	26-Jul-07	SL_GCFX1	\$\$		25,000			25,000	10.0%	2,500
1	09	03	12	19		Niche Excavation	2-Aug-07	2-Aug-07	SL_GCFX1	\$\$		4,500			4,500	10.0%	450
1	09	03	12	19		Survey Shafts	9-Aug-07	9-Aug-07	SL_GCFX1	\$\$		22,500			22,500	10.0%	2,250
1	09	03	12	19		UH Tunnel- Excavate UH Tunnel (565')	15-May-07	3-Aug-07	SL_GCFX1	\$\$		2,465,633			2,465,633	10.0%	246,563
1	09	03	12	19		UH - Install 16 Electrical / 1 Fire Shaft	1-Jun-07	6-Jul-07	SL_GCFX1	\$\$		146,066			146,066	10.0%	14,607
1	09	03	12	19		UH East Portal - Portal Shotcrete	24-May-07	24-May-07	SL_GCFX1	\$\$		80,000			80,000	10.0%	8,000
1	09	03	12	19		Install Self-Drilled Grouted Spiling	5-Jul-07	25-Jul-07	SL_GCFX1	\$\$		280,000			280,000	10.0%	28,000
1	09	03	12	19		UH Tunnel - Pour Invert Concrete Slab	23-Oct-07	5-Nov-07	SL_GCFX1	\$\$		627,416			627,416	10.0%	62,742
1	09	03	12	19		UH - Install Wire Mesh at Portal (2 Ea.)	12-Nov-07	12-Nov-07	SL_GCFX1	\$\$		48,000			48,000	10.0%	4,800
1	09	03	12	19		UH Tunnel - Install Final Lining, 6" Thick	10-Aug-07	19-Sep-07	SL_GCFX1	\$\$		565,240			565,240	10.0%	56,524
1	09	03	13	15		X-Ray - Transport & Diagnostic Hall (XRTD)					-	5,055,749	-	5,055,749		505,575	
1	09	03	13	15		XRTD - Mechanical					-	293,687	-	293,687		29,369	
1	09	03	13	15		BP10 - Fire Protection (XR)	31-Dec-07	29-Jan-08	SL_GCFX1	\$\$		63,200			63,200	10.0%	6,320
1	09	03	13	15		X-Ray Tunnel HVAC Rough-in	31-Dec-07	5-Feb-08	SL_GCFX1	\$\$		161,926			161,926	10.0%	16,193
1	09	03	13	15		X-Ray Tunnel Plumbing Rough-in	31-Dec-07	29-Jan-08	SL_GCFX1	\$\$		51,948			51,948	10.0%	5,195
1	09	03	13	15		X-Ray Tunnel HVAC Trim	21-Feb-08	5-Mar-08	SL_GCFX1	\$\$		613			613	10.0%	61
1	09	03	13	15		X-Ray Tunnel HVAC Insulation	6-Feb-08	20-Feb-08	SL_GCFX1	\$\$		16,000			16,000	10.0%	1,600
1	09	03	13	16		XRTD - Electrical					-	628,639	-	628,639		62,864	
1	09	03	13	16		X-Ray Tunnel Electrical R/I	31-Dec-07	5-Feb-08	SL_GCFX1	\$\$		416,635			416,635	10.0%	41,664
1	09	03	13	16		X-Ray Tunnel Lighting	31-Dec-07	5-Feb-08	SL_GCFX1	\$\$		38,112			38,112	10.0%	3,811
1	09	03	13	16		X-Ray Tunnel Grounding	12-Dec-07	18-Dec-07	SL_GCFX1	\$\$		14,607			14,607	10.0%	1,461
1	09	03	13	16		X-Ray Tunnel - Fire / Life / Safety	6-Feb-08	5-Mar-08	SL_GCFX1	\$\$		42,967			42,967	10.0%	4,297
1	09	03	13	16		X-Ray Temporary Power	28-Dec-06	3-May-07	SL_GCFX1	\$\$		30,000			30,000	10.0%	3,000
1	09	03	13	16		X-Ray Tunnel Cable Trays	31-Dec-07	29-Jan-08	SL_GCFX1	\$\$		86,318			86,318	10.0%	8,632
1	09	03	13	17		XRTD - Others (include Div 4, and 6 through 14)					-	5,356	-	5,356		536	
1	09	03	13	17		X-Ray Tunnel Fixtures & Devices	6-Feb-08	5-Mar-08	SL_GCFX1	\$\$		4,636			4,636	10.0%	464
1	09	03	13	17		X-Ray Signage	6-Mar-08	12-Mar-08	SL_GCFX1	\$\$		720			720	10.0%	72
1	09	03	13	19		XRTD - Tunnel Construction					-	4,128,067	-	4,128,067		412,807	
1	09	03	13	19		X-Ray Tunnel - Begin Excavate Tunnel (85')	10-Sep-07	21-Sep-07	SL_GCFX1	\$\$		323,114			323,114	10.0%	32,311
1	09	03	13	19		X-Ray West Portal - Initial Shotcrete	11-Sep-07	11-Sep-07	SL_GCFX1	\$\$		70,000			70,000	10.0%	7,000
1	09	03	13	19		X-Ray Tunnel - Complete Excavate Tunnel (544')	24-Sep-07	26-Oct-07	SL_GCFX1	\$\$		2,067,200			2,067,200	10.0%	206,720
1	09	03	13	19		X-Ray Tunnel - Install Shotcrete Lining 6" Thick	22-Nov-07	3-Dec-07	SL_GCFX1	\$\$		1,037,900			1,037,900	10.0%	103,790
1	09	03	13	19		X-Ray Tunnel - Install Sumps (8 Ea.)	12-Dec-07	13-Dec-07	SL_GCFX1	\$\$		24,000			24,000	10.0%	2,400
1	09	03	13	19		X-Ray Tunnel - Pour Invert Concrete Slab	20-Dec-07	20-Dec-07	SL_GCFX1	\$\$		581,853			581,853	10.0%	58,185
1	09	03	13	19		X-Ray Tunnel - Install Wire Mesh at Portal	21-Dec-07	21-Dec-07	SL_GCFX1	\$\$		24,000			24,000	10.0%	2,400
1	09	03	14	02		Far Experimental Hall (FEH)					-	10,000,141	-	10,276,891		2,300,399	
1	09	03	14	02		FEH - Site Construction					-	2,268,670	-	2,545,420		1,527,252	
1	09	03	14	02		AWARD: FEH Hutches - Construction	2-Oct-08	2-Oct-08	SL_AWARD	\$\$		2,180,200			2,640,297	60.0%	1,584,178
1	09	03	14	02		AWARD: FEH Hutches - Equipment	2-Oct-08	2-Oct-08	SL_AWARD	\$\$		315,337			381,884	60.0%	229,130
1	09	03	14	02		Start FEH Hutches Construction	2-Oct-08	1-Jul-09	SA_MSSC2	\$\$		1,982,000			2,223,780	60.0%	1,334,268
1	09	03	14	02		FEH Hutches - Equipment	2-Oct-08	26-Nov-08	SA_MSSC2	\$\$		286,670			321,640	60.0%	192,984
1	09	03	14	15		FEH - Mechanical					-	1,194,448	-	1,194,448		119,445	
1	09	03	14	15		Access Tunnel HVAC Rough-in	31-Mar-08	25-Apr-08	SL_GCFX1	\$\$		213,230			213,230	10.0%	21,323
1	09	03	14	15		Access Tunnel HVAC Trim	12-May-08	23-May-08	SL_GCFX1	\$\$		24,350			24,350	10.0%	2,435
1	09	03	14	15		Access T HVAC Insulation	28-Apr-08	9-May-08	SL_GCFX1	\$\$		17,200			17,200	10.0%	1,720
1	09	03	14	15		Access T HVAC Controls	12-May-08	23-May-08	SL_GCFX1	\$\$		84,505			84,505	10.0%	8,451
1	09	03	14	15		Access T HVAC Balancing	27-May-08	2-Jun-08	SL_GCFX1	\$\$		6,490			6,490	10.0%	649
1	09	03	14	15		Access Tunnel Plumbing Trim	28-Apr-08	9-May-08	SL_GCFX1	\$\$		10,000			10,000	10.0%	1,000
1	09	03	14	15		Access Tunnel Plumbing Rough-in	31-Mar-08	25-Apr-08	SL_GCFX1	\$\$		105,462			105,462	10.0%	10,546
1	09	03	14	15		FEH HVAC Rough-in	7-Feb-08	13-Mar-08	SL_GCFX1	\$\$		300,331			300,331	10.0%	30,033
1	09	03	14	15		FEH HVAC Trim	17-Apr-08	30-Apr-08	SL_GCFX1	\$\$		89,125			89,125	10.0%	8,913
1	09	03	14	15		FEH HVAC Insulation	14-Mar-08	27-Mar-08	SL_GCFX1	\$\$		14,000			14,000	10.0%	1,400
1	09	03	14	15		FEH HVAC Controls	28-Mar-08	10-Apr-08	SL_GCFX1	\$\$		102,755			102,755	10.0%	10,276
1	09	03	14	15		FEH HVAC Balancing	1-May-08	7-May-08	SL_GCFX1	\$\$		5,650			5,650	10.0%	565
1	09	03	14	15		FEH Undeslab Plumbing	9-Jan-08	23-Jan-08	SL_GCFX1	\$\$		42,983			42,983	10.0%	4,298
1	09	03	14	15		FEH Plumbing Rough-in	7-Feb-08	6-Mar-08	SL_GCFX1	\$\$		102,339			102,339	10.0%	10,234
1	09	03	14	15		FEH Plumbing Trim	17-Apr-08	30-Apr-08	SL_GCFX1	\$\$		10,123			10,123	10.0%	1,012
1	09	03	14	15		FEH Plumbing Insulation	7-Mar-08	13-Mar-08	SL_GCFX1	\$\$		14,000			14,000	10.0%	1,400
1	09	03	14	15		BP10 - Fire Protection (FEH)	7-Feb-08	18-Apr-08	SL_GCFX1	\$\$		51,905			51,905	10.0%	5,191

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escldt Cost			Cont %	Contingency \$
Description											Hours	\$	Labor	M&S	Total		
1	09	03	14	16	6	FEH - Electrical					-	583,480	-	583,480	583,480		58,348
1	09	03	14	16		FEH Fire / Life / Safety Systems	7-Apr-08	25-Apr-08	SL_GCFX1	\$\$		34,647		34,647	34,647	10.0%	3,465
1	09	03	14	16		FEH Grounding	22-Jan-08	4-Feb-08	SL_GCFX1	\$\$		19,124		19,124	19,124	10.0%	1,912
1	09	03	14	16		FEH Cable Tray	14-Feb-08	13-Mar-08	SL_GCFX1	\$\$		70,418		70,418	70,418	10.0%	7,042
1	09	03	14	16		FEH Lighting	14-Feb-08	6-Mar-08	SL_GCFX1	\$\$		25,038		25,038	25,038	10.0%	2,504
1	09	03	14	16		FEH Electrical Trim	3-Apr-08	23-Apr-08	SL_GCFX1	\$\$		6,051		6,051	6,051	10.0%	605
1	09	03	14	16		FEH O/H Electrical R/I	7-Feb-08	13-Mar-08	SL_GCFX1	\$\$		401,387		401,387	401,387	10.0%	40,139
1	09	03	14	16		FEH Electrical Wall R/I	7-Mar-08	18-Mar-08	SL_GCFX1	\$\$		26,815		26,815	26,815	10.0%	2,682
1	09	03	14	17		FEH - Others (include Div 4, and 6 through 14)					-	533,813	-	533,813	533,813		53,381
1	09	03	14	17		FEH Signage	14-Mar-08	20-Mar-08	SL_GCFX1	\$\$		2,400		2,400	2,400	10.0%	240
1	09	03	14	17		FEH Paint Walls & Ceilings	9-Apr-08	16-Apr-08	SL_GCFX1	\$\$		148,316		148,316	148,316	10.0%	14,832
1	09	03	14	17		FEH Restroom Fixtures	25-Apr-08	28-Apr-08	SL_GCFX1	\$\$		20,016		20,016	20,016	10.0%	2,002
1	09	03	14	17		FEH Restroom Door & Frms & Hardware	17-Apr-08	21-Apr-08	SL_GCFX1	\$\$		40,133		40,133	40,133	10.0%	4,013
1	09	03	14	17		BP31 - Framing/Drywall (FEH) Hammock	22-Feb-08	8-Apr-08	SL_GCFX1	\$\$		316,575		316,575	316,575	10.0%	31,658
1	09	03	14	17		BP32 - Flooring (FEH) Hammock	14-Mar-08	15-May-08	SL_GCFX1	\$\$		6,373		6,373	6,373	10.0%	637
1	09	03	14	18		FEH - Access Tunnel					-	1,924,124	-	1,924,124	1,924,124		192,412
1	09	03	14	18		Access Tunnel - Remove Bench	7-Feb-08	22-Feb-08	SL_GCFX1	\$\$		593,192		593,192	593,192	10.0%	59,319
1	09	03	14	18		Access Tunnel Shotcrete Lining, 6" Thick	3-Mar-08	6-Mar-08	SL_GCFX1	\$\$		298,457		298,457	298,457	10.0%	29,846
1	09	03	14	18		Access Tunnel - Pour Invert Concrete Slab	20-Mar-08	21-Mar-08	SL_GCFX1	\$\$		263,255		263,255	263,255	10.0%	26,326
1	09	03	14	18		BP10 - Fire Protection (FEH Access)	31-Mar-08	18-Apr-08	SL_GCFX1	\$\$		26,163		26,163	26,163	10.0%	2,616
1	09	03	14	18		Access Tunnel - Install Wire Mesh at Portal	23-Apr-08	23-Apr-08	SL_GCFX1	\$\$		24,000		24,000	24,000	10.0%	2,400
1	09	03	14	18		FEH Temporary Power	1-May-07	7-May-07	SL_GCFX1	\$\$		27,000		27,000	27,000	10.0%	2,700
1	09	03	14	18		Access Tunnel - Excavate Top Heading (306 LF)	1-May-07	7-May-07	SL_GCFX1	\$\$		692,057		692,057	692,057	10.0%	69,206
1	09	03	14	19		FEH - Tunnel Construction					-	3,495,606	-	3,495,606	3,495,606		349,561
1	09	03	14	19		FEH Excavate Top Heading - Center	22-May-07	13-Jun-07	SL_GCFX1	\$\$		421,593		421,593	421,593	10.0%	42,159
1	09	03	14	19		FEH Begin Side Drift Exc. Top Heading	14-Jun-07	21-Jun-07	SL_GCFX1	\$\$		421,593		421,593	421,593	10.0%	42,159
1	09	03	14	19		FEH Complete Side Drift Exc. Top Heading	6-Aug-07	20-Aug-07	SL_GCFX1	\$\$		421,593		421,593	421,593	10.0%	42,159
1	09	03	14	19		FEH Excavate Right Hand Drift - Bench	21-Aug-07	7-Sep-07	SL_GCFX1	\$\$		421,593		421,593	421,593	10.0%	42,159
1	09	03	14	19		FEH Excavate Left Hand Drift - Bench	21-Aug-07	7-Sep-07	SL_GCFX1	\$\$		421,593		421,593	421,593	10.0%	42,159
1	09	03	14	19		FEH Excavate Center Drift - Bench	10-Sep-07	21-Sep-07	SL_GCFX1	\$\$		421,593		421,593	421,593	10.0%	42,159
1	09	03	14	19		FEH Install Shotcrete on End Walls	24-Sep-07	24-Sep-07	SL_GCFX1	\$\$		85,000		85,000	85,000	10.0%	8,500
1	09	03	14	19		FEH Install Shotcrete Lining, 9" Thick	3-Jan-08	11-Jan-08	SL_GCFX1	\$\$		413,928		413,928	413,928	10.0%	41,393
1	09	03	14	19		FEH Pour Invert Concrete Slab	24-Jan-08	6-Feb-08	SL_GCFX1	\$\$		459,920		459,920	459,920	10.0%	45,992
1	09	03	14	19		FEH Install Sewage Ejector Basin	25-Jan-08	25-Jan-08	SL_GCFX1	\$\$		7,200		7,200	7,200	10.0%	720
1	09	03	15	15		BTH Service Buildings 2.1, 2.2, and 2.3 (SB BTH)					-	3,186,765	-	3,186,765	3,186,765		318,677
1	09	03	15	15		SB BTH - Mechanical					-	971,016	-	971,016	971,016		97,102
1	09	03	15	15		Service Bldg 2.1 HVAC Rough-in	23-Aug-07	20-Sep-07	SL_GCFX1	\$\$		170,000		170,000	170,000	10.0%	17,000
1	09	03	15	15		Service Bldg 2.1 HVAC Trim	28-Sep-07	12-Oct-07	SL_GCFX1	\$\$		50,000		50,000	50,000	10.0%	5,000
1	09	03	15	15		Service Bldg 2.1 HVAC Insulation	21-Sep-07	27-Sep-07	SL_GCFX1	\$\$		22,355		22,355	22,355	10.0%	2,236
1	09	03	15	15		Service Bldg 2.1 HVAC Controls	28-Sep-07	12-Oct-07	SL_GCFX1	\$\$		61,000		61,000	61,000	10.0%	6,100
1	09	03	15	15		Service Bldg 2.1 HVAC Balancing	15-Oct-07	19-Oct-07	SL_GCFX1	\$\$		2,651		2,651	2,651	10.0%	265
1	09	03	15	15		Service Bldg 2.2 HVAC Rough-in	4-Oct-07	1-Nov-07	SL_GCFX1	\$\$		160,000		160,000	160,000	10.0%	16,000
1	09	03	15	15		Service Bldg 2.2 HVAC Trim	9-Nov-07	26-Nov-07	SL_GCFX1	\$\$		38,000		38,000	38,000	10.0%	3,800
1	09	03	15	15		Service Bldg 2.2 HVAC Insulation	2-Nov-07	8-Nov-07	SL_GCFX1	\$\$		22,355		22,355	22,355	10.0%	2,236
1	09	03	15	15		Service Bldg 2.2 HVAC Controls	9-Nov-07	26-Nov-07	SL_GCFX1	\$\$		32,500		32,500	32,500	10.0%	3,250
1	09	03	15	15		Service Bldg 2.2 HVAC Balancing	27-Nov-07	3-Dec-07	SL_GCFX1	\$\$		2,651		2,651	2,651	10.0%	265
1	09	03	15	15		Service Bldg 2.3 HVAC Rough-in	13-Dec-07	4-Jan-08	SL_GCFX1	\$\$		85,313		85,313	85,313	10.0%	8,531
1	09	03	15	15		Service Bldg 2.3 HVAC Insulation	7-Jan-08	11-Jan-08	SL_GCFX1	\$\$		22,355		22,355	22,355	10.0%	2,236
1	09	03	15	15		Service Bldg 2.3 HVAC Controls	14-Jan-08	29-Jan-08	SL_GCFX1	\$\$		22,831		22,831	22,831	10.0%	2,283
1	09	03	15	15		Service Bldg 2.3 HVAC Balancing	30-Jan-08	5-Feb-08	SL_GCFX1	\$\$		2,651		2,651	2,651	10.0%	265
1	09	03	15	15		Service Bldg 2.1 Plumbing Rough-in	23-Aug-07	20-Sep-07	SL_GCFX1	\$\$		118,000		118,000	118,000	10.0%	11,800
1	09	03	15	15		Service Bldg 2.1 Plumbing Trim	21-Sep-07	4-Oct-07	SL_GCFX1	\$\$		9,000		9,000	9,000	10.0%	900
1	09	03	15	15		Service Bldg 2.2 Plumbing Rough-in	4-Oct-07	1-Nov-07	SL_GCFX1	\$\$		110,000		110,000	110,000	10.0%	11,000
1	09	03	15	15		Service Bldg 2.2 Plumbing Trim	2-Nov-07	16-Nov-07	SL_GCFX1	\$\$		9,000		9,000	9,000	10.0%	900
1	09	03	15	15		Service Bldg 2.3 Plumbing Rough-in	13-Dec-07	11-Jan-08	SL_GCFX1	\$\$		30,354		30,354	30,354	10.0%	3,035
1	09	03	15	16		SB BTH - Electrical					-	1,288,597	-	1,288,597	1,288,597		128,860
1	09	03	15	16		BTH 2.1 Electrical R/I	23-Aug-07	20-Sep-07	SL_GCFX1	\$\$		335,391		335,391	335,391	10.0%	33,539
1	09	03	15	16		BTH 2.1 Lighting	21-Sep-07	4-Oct-07	SL_GCFX1	\$\$		4,651		4,651	4,651	10.0%	465
1	09	03	15	16		BTH 2.1 Fire / Life / Safety	21-Sep-07	4-Oct-07	SL_GCFX1	\$\$		6,682		6,682	6,682	10.0%	668
1	09	03	15	16		BTH 2.1 Electrical Trim	21-Sep-07	4-Oct-07	SL_GCFX1	\$\$		2,736		2,736	2,736	10.0%	274
1	09	03	15	16		BTH 2.2 Fire / Life / Safety	2-Nov-07	16-Nov-07	SL_GCFX1	\$\$		6,682		6,682	6,682	10.0%	668
1	09	03	15	16		BTH 2.3 Fire / Life / Safety	7-Jan-08	18-Jan-08	SL_GCFX1	\$\$		4,651		4,651	4,651	10.0%	465
1	09	03	15	16		BTH 2.1 Cable Trays	23-Aug-07	6-Sep-07	SL_GCFX1	\$\$		32,446		32,446	32,446	10.0%	3,245
1	09	03	15	16		BTH 2.2 Cable Trays	4-Oct-07	18-Oct-07	SL_GCFX1	\$\$		32,446		32,446	32,446	10.0%	3,245
1	09	03	15	16		BTH 2.3 Cable Trays	13-Dec-07	4-Jan-08	SL_GCFX1	\$\$		32,446		32,446	32,446	10.0%	3,245
1	09	03	15	16		BTH 2.2 Electrical R/I	4-Oct-07	1-Nov-07	SL_GCFX1	\$\$		406,832		406,832	406,832	10.0%	40,683
1	09	03	15	16		BTH Bldg 2.2 Lighting	2-Nov-07	16-Nov-07	SL_GCFX1	\$\$		4,650		4,650	4,650	10.0%	465
1	09	03	15	16		BTH 2.2 Electrical Trim	2-Nov-07	16-Nov-07	SL_GCFX1	\$\$		2,736		2,736	2,736	10.0%	274
1	09	03	15	16		BTH 2.3 Electrical R/I	13-Dec-07	4-Jan-08	SL_GCFX1	\$\$		406,830		406,830	406,830	10.0%	40,683
1	09	03	15	16		BTH 2.3 Electrical Trim	7-Jan-08	15-Jan-08	SL_GCFX1	\$\$		2,736		2,736	2,736	10.0%	274
1	09	03	15	16		BTH 2.3 Lighting	7-Jan-08	14-Jan-08	SL_GCFX1	\$\$		6,682		6,682	6,682	10.0%	668
1	09	03	15	17		SB BTH - Others (include Div 4, and 6 through 14)					-	927,152	-	927,152	927,152		92,715

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont %	Contingency \$	
Description											Hours	\$	Labor	M&S	Total			
1	09	03	15	17	6	BP39 - Metal Bldg (BTH) Hammock	1-Aug-07	12-Dec-07	SL_GCFX1	\$\$		924,132			924,132	924,132	10.0%	92,413
1	09	03	15	17	BP32 - Flooring (BTH) Hammock	23-Aug-07	3-Dec-07	SL_GCFX1	\$\$		3,020			3,020	3,020	10.0%	302	
1	09	03	16			UH Service Building 3.1 (SB UH)					-	1,762,703	-	1,762,703	1,762,703		176,270	
1	09	03	16	03		SB UH - Concrete					-	123,153	-	123,153	123,153		12,315	
1	09	03	16	03	UH3.1 Rebar/Form Col. & Retaining Wall Footings	16-Jul-07	24-Jul-07	SL_GCFX1	\$\$		13,300			13,300	13,300	10.0%	1,330	
1	09	03	16	03	UH3.1 Pour Col. & Retaining Wall Footings	25-Jul-07	26-Jul-07	SL_GCFX1	\$\$		8,300			8,300	8,300	10.0%	830	
1	09	03	16	03	UH3.1 Form Retaining Walls	27-Jul-07	13-Aug-07	SL_GCFX1	\$\$		16,200			16,200	16,200	10.0%	1,620	
1	09	03	16	03	UH3.1 Rebar Retaining Walls	27-Jul-07	6-Aug-07	SL_GCFX1	\$\$		2,650			2,650	2,650	10.0%	265	
1	09	03	16	03	UH3.1 Pour Retaining Walls #1	14-Aug-07	14-Aug-07	SL_GCFX1	\$\$		3,300			3,300	3,300	10.0%	330	
1	09	03	16	03	UH3.1 Pour Retaining Wall #2	22-Aug-07	22-Aug-07	SL_GCFX1	\$\$		3,300			3,300	3,300	10.0%	330	
1	09	03	16	03	UH3.1 Prep & Form SOG	23-Aug-07	30-Aug-07	SL_GCFX1	\$\$		39,400			39,400	39,400	10.0%	3,940	
1	09	03	16	03	UH3.1 Rebar SOG	31-Aug-07	7-Sep-07	SL_GCFX1	\$\$		5,303			5,303	5,303	10.0%	530	
1	09	03	16	03	UH3.1 Pour SOG	10-Sep-07	10-Sep-07	SL_GCFX1	\$\$		31,400			31,400	31,400	10.0%	3,140	
1	09	03	16	15		SB UH - Mechanical					-	740,435	-	740,435	740,435		74,044	
1	09	03	16	15	UH3.1 Underslab Plumbing	16-Jul-07	27-Jul-07	SL_GCFX1	\$\$		5,983			5,983	5,983	10.0%	598	
1	09	03	16	15	UH Service Bldg & Yard 3.1 Plumbing R/I	28-Sep-07	26-Oct-07	SL_GCFX1	\$\$		90,000			90,000	90,000	10.0%	9,000	
1	09	03	16	15	BP10 - Fire Protection (SB UH)	28-Sep-07	10-Oct-07	SL_GCFX1	\$\$		11,452			11,452	11,452	10.0%	1,145	
1	09	03	16	15	UH Service Bldg & Yard 3.1 HVAC Rough-In	28-Sep-07	26-Oct-07	SL_GCFX1	\$\$		400,000			400,000	400,000	10.0%	40,000	
1	09	03	16	15	UH Service Bldg & Yard 3.1 HVAC Trim	13-Nov-07	27-Nov-07	SL_GCFX1	\$\$		50,000			50,000	50,000	10.0%	5,000	
1	09	03	16	15	UH Service Bldg 3.1 HVAC Insulation	29-Oct-07	9-Nov-07	SL_GCFX1	\$\$		60,000			60,000	60,000	10.0%	6,000	
1	09	03	16	15	UH Service Bldg 3.1 HVAC Controls	13-Nov-07	27-Nov-07	SL_GCFX1	\$\$		119,000			119,000	119,000	10.0%	11,900	
1	09	03	16	15	UH Service Bldg 3.1 HVAC Balancing	28-Nov-07	4-Dec-07	SL_GCFX1	\$\$		4,000			4,000	4,000	10.0%	400	
1	09	03	16	16		SB UH - Electrical					-	437,276	-	437,276	437,276		43,728	
1	09	03	16	16	UH 3.1 Install Data Cable Trays	28-Sep-07	19-Oct-07	SL_GCFX1	\$\$		44,071			44,071	44,071	10.0%	4,407	
1	09	03	16	16	UH 3.1 Underslab Electrical	16-Jul-07	3-Aug-07	SL_GCFX1	\$\$		10,669			10,669	10,669	10.0%	1,067	
1	09	03	16	16	UH 3.1 O/H Electrical R/I	28-Sep-07	26-Oct-07	SL_GCFX1	\$\$		326,368			326,368	326,368	10.0%	32,637	
1	09	03	16	16	UH 3.1 Install Panels & Distribution	29-Oct-07	5-Nov-07	SL_GCFX1	\$\$		37,112			37,112	37,112	10.0%	3,711	
1	09	03	16	16	UH 3.1 Electrical - HVAC Pad Elect	18-Dec-07	2-Jan-08	SL_GCFX1	\$\$		3,931			3,931	3,931	10.0%	393	
1	09	03	16	16	UH 3.1 Lighting	29-Oct-07	9-Nov-07	SL_GCFX1	\$\$		15,125			15,125	15,125	10.0%	1,513	
1	09	03	16	17		SB UH - Others (include Div 4, and 6 through 14)					-	461,839	-	461,839	461,839		46,184	
1	09	03	16	17	BP32 - Flooring (Hammock)	28-Sep-07	1-Oct-07	SL_GCFX1	\$\$		1,271			1,271	1,271	10.0%	127	
1	09	03	16	17	BP39 - Metal Buildings (Hammock)	29-Aug-07	27-Sep-07	SL_GCFX1	\$\$		460,568			460,568	460,568	10.0%	46,057	
1	09	03	17			FEH Service Building 8.1 (FEH SB)					-	847,382	-	847,382	847,382		84,738	
1	09	03	17	03		SB FEH - Concrete					-	597,473	-	597,473	597,473		59,747	
1	09	03	17	03	AT Yard Excavate Footings	1-Apr-08	3-Apr-08	SL_GCFX1	\$\$		51,700			51,700	51,700	10.0%	5,170	
1	09	03	17	03	AT Yard Form/Rebar Footings	4-Apr-08	10-Apr-08	SL_GCFX1	\$\$		55,500			55,500	55,500	10.0%	5,550	
1	09	03	17	03	AT Yard Pour Protective Slab	31-Mar-08	31-Mar-08	SL_GCFX1	\$\$		6,300			6,300	6,300	10.0%	630	
1	09	03	17	03	AT Yard Pour Footings	11-Apr-08	11-Apr-08	SL_GCFX1	\$\$		81,373			81,373	81,373	10.0%	8,137	
1	09	03	17	03	AT Yard Form Walls	14-Apr-08	22-Apr-08	SL_GCFX1	\$\$		193,900			193,900	193,900	10.0%	19,390	
1	09	03	17	03	AT Yard Rebar Walls	14-Apr-08	18-Apr-08	SL_GCFX1	\$\$		8,800			8,800	8,800	10.0%	880	
1	09	03	17	03	AT Yard Pour Walls #1	23-Apr-08	24-Apr-08	SL_GCFX1	\$\$		43,200			43,200	43,200	10.0%	4,320	
1	09	03	17	03	AT Yard Pour Walls #2	25-Apr-08	25-Apr-08	SL_GCFX1	\$\$		43,200			43,200	43,200	10.0%	4,320	
1	09	03	17	03	AT Yard Form SOG	28-Apr-08	30-Apr-08	SL_GCFX1	\$\$		32,100			32,100	32,100	10.0%	3,210	
1	09	03	17	03	AT Yard Rebar SOG	1-May-08	5-May-08	SL_GCFX1	\$\$		6,400			6,400	6,400	10.0%	640	
1	09	03	17	03	AT Yard Pour SOG	6-May-08	6-May-08	SL_GCFX1	\$\$		20,100			20,100	20,100	10.0%	2,010	
1	09	03	17	03	AT Yard Form Mech. Deck	7-May-08	9-May-08	SL_GCFX1	\$\$		15,900			15,900	15,900	10.0%	1,590	
1	09	03	17	03	AT Yard Rebar Mech. Deck	12-May-08	13-May-08	SL_GCFX1	\$\$		20,000			20,000	20,000	10.0%	2,000	
1	09	03	17	03	AT Yard Pour Mech. Deck	14-May-08	14-May-08	SL_GCFX1	\$\$		19,000			19,000	19,000	10.0%	1,900	
1	09	03	17	16		SB FEH - Electrical					-	249,909	-	249,909	249,909		24,991	
1	09	03	17	16	AT Yard Electrical Grounding	28-Apr-08	2-May-08	SL_GCFX1	\$\$		35,515			35,515	35,515	10.0%	3,552	
1	09	03	17	16	AT Yard Electrical R/I	22-May-08	29-May-08	SL_GCFX1	\$\$		189,355			189,355	189,355	10.0%	18,936	
1	09	03	17	16	AT Yard Electrical Lighting	30-May-08	5-Jun-08	SL_GCFX1	\$\$		25,039			25,039	25,039	10.0%	2,504	
1	09	03	18			NEH Central Utility Plant (CUP)					-	5,450,286	-	5,455,470	5,455,470		823,102	
1	09	03	18	01		CUP - Site Preparation/General Requirements					-	871	-	871	871		87	
1	09	03	18	01	Bond - B.T. Mancini	1-May-07	1-May-07	SL_GCFX1	\$\$		871			871	871	10.0%	87	
1	09	03	18	02		CUP - Site Construction					-	108,000	-	113,184	113,184		45,274	
1	09	03	18	02	AWARD: Gas Line to CUP Construction	20-Jul-07	20-Jul-07	SL_AWARD	\$\$		113,400			130,459	130,459	40.0%	52,184	
1	09	03	18	02	Start: Gas Line to CUP Construction	23-Jul-07	27-Sep-07	SA_MSPF2	\$\$		108,000			113,184	113,184	40.0%	45,274	
1	09	03	18	03		CUP - Concrete					-	688,071	-	688,071	688,071		68,807	
1	09	03	18	03	Form Retaining Wall Ftgs	18-May-07	25-May-07	SL_GCFX1	\$\$		11,900			11,900	11,900	10.0%	1,190	
1	09	03	18	03	Pour Retaining Wall Ftgs	6-Jun-07	6-Jun-07	SL_GCFX1	\$\$		24,100			24,100	24,100	10.0%	2,410	
1	09	03	18	03	Rebar Retaining Wall Ftgs	29-May-07	5-Jun-07	SL_GCFX1	\$\$		10,295			10,295	10,295	10.0%	1,030	
1	09	03	18	03	Pour CUP Ftgs & Mat - Pour #1	2-Jul-07	2-Jul-07	SL_GCFX1	\$\$		67,250			67,250	67,250	10.0%	6,725	
1	09	03	18	03	Pour CUP Ftgs & Mat - Pour #2	12-Jul-07	12-Jul-07	SL_GCFX1	\$\$		67,150			67,150	67,150	10.0%	6,715	
1	09	03	18	03	Rebar CUP Walls - Pour #1	5-Jul-07	10-Jul-07	SL_GCFX1	\$\$		20,000			20,000	20,000	10.0%	2,000	
1	09	03	18	03	Rebar CUP Walls - Pour #2	17-Jul-07	25-Jul-07	SL_GCFX1	\$\$		20,000			20,000	20,000	10.0%	2,000	
1	09	03	18	03	Form Retaining Wall	7-Jun-07	21-Jun-07	SL_GCFX1	\$\$		42,500			42,500	42,500	10.0%	4,250	
1	09	03	18	03	Pour CUP Walls - Pour #1	11-Jul-07	11-Jul-07	SL_GCFX1	\$\$		34,650			34,650	34,650	10.0%	3,465	
1	09	03	18	03	Pour CUP Walls - Pour #2	31-Jul-07	31-Jul-07	SL_GCFX1	\$\$		34,650			34,650	34,650	10.0%	3,465	
1	09	03	18	03	Excavate CUP Ftgs - Pour #2	15-Jun-07	20-Jun-07	SL_GCFX1	\$\$		7,000			7,000	7,000	10.0%	700	
1	09	03	18	03	Rebar Retaining Wall	8-Jun-07	15-Jun-07	SL_GCFX1	\$\$		27,846			27,846	27,846	10.0%	2,785	
1	09	03	18	03	Pour Retaining Wall	22-Jun-07	22-Jun-07	SL_GCFX1	\$\$		19,100			19,100	19,100	10.0%	1,910	

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early	Early	Res	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont	Contingency	
						Description	Start	Finish	Code		Hours	\$	Labor	M&S	Total	%	\$	
2	01	01	12	5	6	E-Beam Systems Commissioning Management					13,174	-	1,559,240	-	1,559,240		0	
2	01	01	12			Injector Commissioning Management	1-May-07	30-Nov-07	SL_ME2	Hrs	1,043		120,212		120,212			
2	01	01	12			Injector Management - Maintenance I	3-Dec-07	31-Oct-08	SL_ME2	Hrs	781		91,682		91,682			
2	01	01	12			L2/BC2/L3 Commissioning Management	3-Dec-07	31-Oct-08	SL_ME2	Hrs	5,249		616,185		616,185			
2	01	01	12			L2/BC2/L3 Management - Maintenance	3-Nov-08	31-Jul-09	SL_ME2	Hrs	641		76,819		76,819			
2	01	01	12			LTU/Und/Dump Commissioning Management	1-Oct-08	30-Jun-09	SL_ME2	Hrs	5,152		617,429		617,429			
2	01	01	12			LTU/Und/Dump Commissioning Management II	1-Jul-09	31-Jul-09	SL_ME2	Hrs	308		36,912		36,912			
2	01	01	13			E-Beam Systems Physics Support					29,998	-	3,283,768	-	3,283,768		0	
2	01	01	13			Injector Physicist Commissioning Support	1-May-07	30-Nov-07	SL_PHSS2	Hrs	7,092		761,865		761,865			
2	01	01	13			Injector Physicist Comm Support (Dowell/Limborg)	1-May-07	28-Sep-07	SL_PHSS2	Hrs	1,484		158,394		158,394			
2	01	01	13			Injector Physicist Commissioning -Maintenance	3-Dec-07	30-Apr-08	SL_PHSS2	Hrs	1,316		143,693		143,693			
2	01	01	13			L2/BC2/L3 Physicist Commissioning Support	3-Dec-07	31-Oct-08	SL_PHSS2	Hrs	11,395		1,246,791		1,246,791			
2	01	01	13			L2/BC2/L3 Physicist Support - Maintenance I	3-Nov-08	31-Jul-09	SL_PHSS2	Hrs	1,281		143,089		143,089			
2	01	01	13			LTU/Und/Dump Physicist Commissioning Support	3-Nov-08	30-Jun-09	SL_PHSS2	Hrs	6,537		730,188		730,188			
2	01	01	13			LTU/Und/Dump Physicist Commissioning Support II	1-Jul-09	31-Jul-09	SL_PHSS2	Hrs	893		99,749		99,749			
2	01	01	14			Laser Commissioning Management					7,903	-	1,037,334	-	1,037,334		0	
2	01	01	14			Laser Group Commissioning Support I	1-May-07	29-Feb-08	SL_OE2	Hrs	7,000		917,608		917,608			
2	01	01	14			Laser Group Commissioning Support II	3-Mar-08	30-Apr-08	SL_OE2	Hrs	903		119,726		119,726			
2	01	03				Project Mgmt, Planning and Admn - M&S (OPC)					52,902	4,836,923	6,556,858	5,242,146	11,799,004		0	
2	01	03	01			SLAC Project Office - General					38,847	-	4,955,852	-	4,955,852		0	
2	01	03	01			Administrative Support - FY07	1-May-07	28-Sep-07	SL_ADMN2	Hrs	1,484		99,817		99,817			
2	01	03	01			Administrative Support - FY08	1-Oct-07	30-Sep-08	SL_ADMN2	Hrs	3,402		234,089		234,089			
2	01	03	01			Administrative Support - FY09	1-Oct-08	30-Sep-09	SL_ADMN2	Hrs	2,615		184,074		184,074			
2	01	03	01			Administrative Support - FY10	1-Oct-09	28-May-10	SL_ADMN2	Hrs	3,570		257,078		257,078			
2	01	03	01			Budget/Finance Officer - FY07	1-May-07	28-Sep-07	SL_FA2	Hrs	371		38,242		38,242			
2	01	03	01			Budget/Finance Officer - FY08	1-Oct-07	30-Sep-08	SL_FA2	Hrs	851		89,737		89,737			
2	01	03	01			Budget/Finance Officer - FY09	1-Oct-08	30-Sep-09	SL_FA2	Hrs	872		94,067		94,067			
2	01	03	01			Budget/Finance Officer - FY10	1-Oct-09	28-May-10	SL_FA2	Hrs	893		98,548		98,548			
2	01	03	01			Project Director - FY07	1-May-07	28-Sep-07	SL_PM2	Hrs	371		69,165		69,165			
2	01	03	01			Project Director - FY08	1-Oct-07	30-Sep-08	SL_PM2	Hrs	851		162,300		162,300			
2	01	03	01			Project Director- FY09	1-Oct-08	30-Sep-09	SL_PM2	Hrs	872		170,130		170,130			
2	01	03	01			Project Director- FY10	1-Oct-09	28-May-10	SL_PM2	Hrs	893		178,234		178,234			
2	01	03	01			Senior Project Mgrs - FY07	1-May-07	28-Sep-07	SL_PM2	Hrs	1,113		207,495		207,495			
2	01	03	01			Senior Project Mgrs - FY08	1-Oct-07	30-Sep-08	SL_PM2	Hrs	2,552		486,709		486,709			
2	01	03	01			Senior Project Mgrs - FY09	1-Oct-08	30-Sep-09	SL_PM2	Hrs	2,615		510,194		510,194			
2	01	03	01			Senior Project Mgrs - FY10	1-Oct-09	28-May-10	SL_PM2	Hrs	2,678		534,503		534,503			
2	01	03	01			E-Beam Systems Manager - FY07	1-May-07	28-Sep-07	SL_TSM2	Hrs	371		45,173		45,173			
2	01	03	01			E-Beam Systems Manager - FY08	1-Oct-07	30-Sep-08	SL_TSM2	Hrs	851		106,000		106,000			
2	01	03	01			E-Beam Systems Manager - FY09	1-Oct-08	30-Sep-09	SL_TSM2	Hrs	872		111,114		111,114			
2	01	03	01			E-Beam Systems Manager - FY10	1-Oct-09	28-May-10	SL_TSM2	Hrs	893		116,407		116,407			
2	01	03	01			Photon System Manager - FY07	1-May-07	28-Sep-07	SL_TSM2	Hrs	371		45,173		45,173			
2	01	03	01			Photon System Manager - FY08	1-Oct-07	30-Sep-08	SL_TSM2	Hrs	851		106,000		106,000			
2	01	03	01			Photon System Manager - FY09	1-Oct-08	30-Sep-09	SL_TSM2	Hrs	872		111,114		111,114			
2	01	03	01			Photon System Manager - FY10	1-Oct-09	28-May-10	SL_TSM2	Hrs	893		116,407		116,407			
2	01	03	01			Finance Administrative Support - FY07	1-May-07	28-Sep-07	SL_ADMN2	Hrs	186		12,511		12,511			
2	01	03	01			Finance Administrative Support - FY08	1-Oct-07	30-Sep-08	SL_ADMN2	Hrs	425		29,244		29,244			
2	01	03	01			Finance Administrative Support - FY09	1-Oct-08	30-Sep-09	SL_ADMN2	Hrs	436		30,691		30,691			
2	01	03	01			Finance Administrative Support - FY10	1-Oct-09	28-May-10	SL_ADMN2	Hrs	447		32,189		32,189			
2	01	03	01			Global Laser Coordination - FY07	1-May-07	28-Sep-07	SL_LPM2	Hrs	742		90,345		90,345			
2	01	03	01			Global Laser Coordination - FY08	1-Oct-07	30-Sep-08	SL_LPM2	Hrs	1,701		211,876		211,876			
2	01	03	01			Global Laser Coordination - FY09	1-Oct-08	30-Sep-09	SL_LPM2	Hrs	1,743		222,101		222,101			
2	01	03	01			Global Laser Coordination - FY10	1-Oct-09	28-May-10	SL_LPM2	Hrs	1,190		155,123		155,123			
2	01	03	02			SLAC Project Support					14,055	1,697,550	1,601,006	1,902,347	3,503,353		0	
2	01	03	02			PMCS Support - Maintenance - FY07	1-May-07	28-Sep-07	SA_MSPS2	\$\$		232,648		251,136		251,136		
2	01	03	02			PMCS Support - Maintenance - FY08	1-Oct-07	30-Sep-08	SA_MSPS2	\$\$		558,356		616,591		616,591		
2	01	03	02			PMCS Support - Maintenance - FY09	1-Oct-08	30-Sep-09	SA_MSPS2	\$\$		502,520		567,695		567,695		
2	01	03	02			PMCS Support - Maintenance - FY10	1-Oct-09	28-May-10	SA_MSPS2	\$\$		404,026		466,924		466,924		
2	01	03	02			QA/QC Support - FY07	1-May-07	28-Sep-07	SL_QAO2	Hrs	371		29,385		29,385			
2	01	03	02			QA/QC Support - FY08	1-Oct-07	30-Sep-08	SL_QAO2	Hrs	851		68,953		68,953			
2	01	03	02			QA/QC Support - FY09	1-Oct-08	30-Sep-09	SL_QAO2	Hrs	1,307		108,336		108,336			
2	01	03	02			QA/QC Support - FY10	1-Oct-09	28-May-10	SL_QAO2	Hrs	1,071		90,816		90,816			
2	01	03	02			Computing Mgr Support - FY07	1-May-07	28-Sep-07	SL_CRM2	Hrs	279		37,155		37,155			
2	01	03	02			Computing Mgr Support - FY08	1-Oct-07	30-Sep-08	SL_CRM2	Hrs	639		87,055		87,055			
2	01	03	02			Computing Mgr Support - FY09	1-Oct-08	30-Sep-09	SL_CRM2	Hrs	971		135,328		135,328			
2	01	03	02			Computing Mgr Support - FY10	1-Oct-09	28-May-10	SL_CRM2	Hrs	804		114,630		114,630			
2	01	03	02			Computing Res Support - FY07	1-May-07	28-Sep-07	SL_CRA2	Hrs	93		5,637		5,637			
2	01	03	02			Computing Res Support - FY08	1-Oct-07	30-Sep-08	SL_CRA2	Hrs	214		13,269		13,269			
2	01	03	02			Computing Res Support - FY09	1-Oct-08	30-Sep-09	SL_CRA2	Hrs	326		20,679		20,679			
2	01	03	02			Computing Res Support - FY10	1-Oct-09	28-May-10	SL_CRA2	Hrs	269		17,456		17,456			
2	01	03	02			Area Coordination - FY07	1-May-07	28-Sep-07	SL_IPM2	Hrs	742		90,345		90,345			
2	01	03	02			Area Coordination - FY08	1-Oct-07	30-Sep-08	SL_IPM2	Hrs	1,361		169,526		169,526			
2	01	03	02			Area Coordination - FY09	1-Oct-08	30-Sep-09	SL_IPM2	Hrs	2,615		333,215		333,215			

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escldt Cost			Cont %	Contingency \$
Description						Hours					\$	Labor	M&S	Total			
1	2	3	4	5	6	Area Coordination - FY10	1-Oct-09	28-May-10	SL_IPM2	Hrs	2,142		279,221		279,221		
2	01	03	02			Project Mgmt, Planning and Admn - M&S (OPC)					-	3,139,373	-	3,339,799	3,339,799	0	
2	01	03	03			Physics Programmatic Travel	1-May-07	28-May-10	SL_MSTR2	\$\$		241,800		276,431	276,431		
2	01	03	03			Pre-ops Electrical Power Usage- 2007	1-May-07	28-Sep-07	SL_POWB2	\$\$		200,000		200,000	200,000		
2	01	03	03			Pre-ops Electrical Power Usage - 2008	1-Oct-07	29-Sep-08	SL_POWB2	\$\$		500,000		500,000	500,000		
2	01	03	03			Pre-ops Electrical Power Usage - 2009	30-Sep-08	1-Oct-09	SL_POWB2	\$\$		500,000		500,000	500,000		
2	01	03	03			Pre-ops Electrical Power Usage - 2010	2-Oct-09	28-May-10	SL_POWB2	\$\$		250,000		250,000	250,000		
2	01	03	03			SLAC Project Office Consumables- FY07	1-May-07	28-Sep-07	SL_MSCS2	\$\$		321,600		347,157	347,157		
2	01	03	03			SLAC Project Office Consumables- FY08	1-Oct-07	30-Sep-08	SL_MSCS2	\$\$		514,560		568,227	568,227		
2	01	03	03			SLAC Project Office Consumables- FY09	1-Oct-08	30-Sep-09	SL_MSCS2	\$\$		289,440		326,979	326,979		
2	01	03	03			SLAC Project Office Consumables- FY10	1-Oct-09	28-May-10	SL_MSCS2	\$\$		289,440		334,500	334,500		
2	01	03	03			Education/Outreach M&S - FY07-08	1-May-07	30-Sep-08	SL_MSCS2	\$\$		14,200		15,577	15,577		
2	01	03	03			Education/Outreach M&S - FY09	1-Oct-08	30-Sep-09	SL_MSCS2	\$\$		10,000		11,297	11,297		
2	01	03	03			Education/Outreach M&S - FY10	1-Oct-09	28-May-10	SL_MSCS2	\$\$		8,333		9,630	9,630		
2	02					INJECTOR SYSTEM (OPC)					21,854	1,806,762	1,996,008	1,931,197	3,927,206	0	
2	02	02				Injector Controls Subsystem					-	14,200	-	15,364	15,364	0	
2	02	02	04			Power Conv (beamline pwr supp) Spares					-	14,200	-	15,364	15,364	0	
2	02	02	04			Procure 12 AMP MCOR Modules (2)-Spares	1-May-07	18-Oct-07	SL_MSEG2	\$\$		3,600		3,895	3,895		
2	02	02	04			Procure 30 AMP MCOR Modules (1)-Spares	1-May-07	18-Oct-07	SL_MSEG2	\$\$		2,100		2,272	2,272		
2	02	02	04			Procure 15KW Power Supply-Spares	1-May-07	18-Oct-07	SL_MSEG2	\$\$		8,500		9,197	9,197		
2	02	03				Injector Lasers					-	472,000	-	509,559	509,559	0	
2	02	03	02			Drive Laser System					-	470,000	-	507,351	507,351	0	
2	02	03	02			Drive Laser Spares	1-May-07	1-Oct-07	SL_MSEG2	\$\$		470,000		507,351	507,351		
2	02	03	14			LSR HTR - Beam Conditioning Optics (Laser Bay)					-	2,000	-	2,209	2,209	0	
2	02	03	14			Procure Laser Heater Optics Spares	21-May-08	19-Jun-08	SL_MSEG2	\$\$		2,000		2,209	2,209		
2	02	04				Injector RF Subsystem					505	492,394	54,064	496,934	550,997	0	
2	02	04	01			RF Gun & Load Lock					505	437,394	54,064	437,563	491,627	0	
2	02	04	01	01		RF Gun					505	437,394	54,064	437,563	491,627	0	
2	02	04	01	01		Gun 2 - Install and RF Process (Hot Test)	1-May-07	22-Aug-07	SL_MSEG2	\$\$		2,128		2,297	2,297		
2	02	04	01	01		Gun 2 - Install and RF Process (Hot Test)	1-May-07	22-Aug-07	SL_MFAT2	Hrs	240		23,717		23,717		
2	02	04	01	01		Gun 2 - Install and RF Process (Hot Test)	1-May-07	22-Aug-07	SL_ME2	Hrs	265		30,346		30,346		
2	02	04	01	01		RF Gun 2 - SPARE	2-Oct-08	2-Oct-08	SL_MSSY2	\$\$		435,266		435,266	435,266		
2	02	04	02			Cathode Processing (CP) Station					-	55,000	-	59,371	59,371	0	
2	02	04	02	02		CP Load Lock					-	55,000	-	59,371	59,371	0	
2	02	04	02	02		Cathode Cleaning	1-May-07	23-May-07	SL_MSEG2	\$\$		55,000		59,371	59,371		
2	02	08				Injector System Emittance Enhancement					3,480	328,168	374,565	362,395	736,961	0	
2	02	08	01			Heater Integration					854	-	91,423	-	91,423	0	
2	02	08	01			Heater Area Installation Oversight	2-Oct-07	28-Nov-07	SL_ME2	Hrs	36		4,217		4,217		
2	02	08	01			Heater Area Installation Oversight	2-Oct-07	28-Nov-07	SL_MDD2	Hrs	18		1,768		1,768		
2	02	08	01			Heater & Optics Integration	2-Oct-07	30-Jan-08	SL_ME2	Hrs	200		23,430		23,430		
2	02	08	01			Heater & Optics Integration	2-Oct-07	30-Jan-08	SL_MDD2	Hrs	400		39,288		39,288		
2	02	08	01			Heater & Optics Fabrication Oversight	31-Jan-08	2-Apr-08	SL_ME2	Hrs	80		9,372		9,372		
2	02	08	01			Heater & Optics Installation Oversight	13-Aug-08	10-Oct-08	SL_ME2	Hrs	80		9,405		9,405		
2	02	08	01			Heater & Optics Installation Oversight	13-Aug-08	10-Oct-08	SL_MDD2	Hrs	40		3,943		3,943		
2	02	08	02			Heater Laser & Optics					746	86,168	89,258	95,155	184,413	0	
2	02	08	02			Design Transport optics and diagnostics	2-Oct-07	20-May-08	SL_PHS2	Hrs	30		2,574		2,574		
2	02	08	02			Design Transport optics and diagnostics	2-Oct-07	20-May-08	SL_OE2	Hrs	236		31,291		31,291		
2	02	08	02			Design Transport optics and diagnostics	2-Oct-07	20-May-08	SL_MDD2	Hrs	240		23,573		23,573		
2	02	08	02			Procure transport components and diagnostics	2-Oct-07	20-May-08	SL_MSEG2	\$\$		81,168		89,634	89,634		
2	02	08	02			Fabricate Transport optics and diagnostics	21-May-08	28-May-08	SL_MSSC2	\$\$		5,000		5,521	5,521		
2	02	08	02			Install transport components and diagnostics	29-May-08	10-Jul-08	SL_OE2	Hrs	240		31,821		31,821		
2	02	08	03			Heater Magnets					1,012	177,000	102,870	195,461	298,330	0	
2	02	08	03	01		Heater Dipoles					100	52,000	10,241	57,423	67,665	0	
2	02	08	03	01		Vendor Fab Chicane Dipole Assembly	2-Oct-07	12-Nov-07	SL_ME2	Hrs	10		1,171		1,171		
2	02	08	03	01		Vendor Fab Chicane Dipole Assembly	2-Oct-07	12-Nov-07	SL_MDD2	Hrs	10		982		982		
2	02	08	03	01		Fabricate Support	31-Oct-07	12-Nov-07	SL_MSEG2	\$\$		12,000		13,252	13,252		
2	02	08	03	01		RCV: Chicane Dipole Assembly	13-Nov-07	13-Nov-07	SL_MSSC2	\$\$		40,000		44,172	44,172		
2	02	08	03	01		Perform QC/MM on Chicane Dipole Assm	14-Nov-07	13-Dec-07	SL_MFAT2	Hrs	80		8,088		8,088		
2	02	08	03	02		Heater Undulator					912	125,000	92,628	138,037	230,665	0	
2	02	08	03	02		Define Undulator specifications	2-Oct-07	13-Nov-07	SL_PHS2	Hrs	24		2,059		2,059		
2	02	08	03	02		Design Undulator	14-Nov-07	1-Feb-08	SL_PHS2	Hrs	80		6,863		6,863		
2	02	08	03	02		Design Undulator	14-Nov-07	1-Feb-08	SL_ME2	Hrs	160		18,744		18,744		
2	02	08	03	02		Design Undulator	14-Nov-07	1-Feb-08	SL_MDD2	Hrs	320		31,430		31,430		
2	02	08	03	02		Prep Bid Pak - Undulator	6-Feb-08	5-Mar-08	SL_ME2	Hrs	20		2,343		2,343		
2	02	08	03	02		Design Support	4-Feb-08	3-Mar-08	SL_ME2	Hrs	40		4,686		4,686		
2	02	08	03	02		Design Support	4-Feb-08	3-Mar-08	SL_MDD2	Hrs	120		11,786		11,786		
2	02	08	03	02		Evaluate Vendor Proposals - Undulator	6-Mar-08	16-Apr-08	SL_PHS2	Hrs	8		686		686		
2	02	08	03	02		Fabricate Support	4-Mar-08	31-Mar-08	SA_MSEG2	\$\$		25,000		27,607	27,607		
2	02	08	03	02		AWARD: Undulator	17-Apr-08	17-Apr-08	SL_AWARD	\$\$		125,000		147,543	147,543		
2	02	08	03	02		Vendor Fab - Undulator	18-Apr-08	14-Jul-08	SL_ME2	Hrs	20		2,343		2,343		
2	02	08	03	02		RCV: Undulator	15-Jul-08	15-Jul-08	SA_MSEG2	\$\$		100,000		110,430	110,430		
2	02	08	03	02		Perform Magnetic Measurements and QA	16-Jul-08	12-Aug-08	SL_PHS2	Hrs	20		1,716		1,716		

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont %	Contingency \$	
Description										Hours	\$	Labor	M&S	Total				
1	2	02	08	03	02	6	Perform Magnetic Measurements and QA	16-Jul-08	12-Aug-08	SL_MFAT2	Hrs	80		8,088		8,088		
2	02	08	03	02		Perform Magnetic Measurements and QA	16-Jul-08	12-Aug-08	SL_MES2	Hrs	20		1,884		1,884			
2	02	08	04			Heater Vacuum					400	45,000	42,868	49,693	92,561		0	
2	02	08	04			Vacuum Integration Support	2-Oct-07	15-Jan-08	SL_ME2	Hrs	60		7,029		7,029			
2	02	08	04			Laser Heater Chamber Engineering	2-Oct-07	3-Jan-08	SL_ME2	Hrs	120		14,058		14,058			
2	02	08	04			Laser Heater Chamber Design	2-Oct-07	3-Jan-08	SL_MDD2	Hrs	160		15,715		15,715			
2	02	08	04			Fabricate Heater Special Chambers	4-Jan-08	2-Apr-08	SL_MSEG2	\$\$		35,000		38,650		38,650		
2	02	08	04			Vacuum Process Heater Special Chambers	3-Apr-08	1-May-08	SL_MFAT2	Hrs	60		6,066		6,066			
2	02	08	04			Fabricate Heater Vacuum Supports	4-Jan-08	2-Apr-08	SL_MSEG2	\$\$		10,000		11,043		11,043		
2	02	08	05			Heater Diagnostics					296	20,000	30,863	22,086	52,949		0	
2	02	08	05			Design OTRH1/OTRH2 External Optics	2-Oct-07	28-Nov-07	SL_ME2	Hrs	80		9,372		9,372			
2	02	08	05			Design OTRH1/OTRH2 External Optics	2-Oct-07	28-Nov-07	SL_MDD2	Hrs	120		11,786		11,786			
2	02	08	05			Fabricate OTRH1/OTRH2 External Optics	29-Nov-07	30-Jan-08	SL_MSEG2	\$\$		20,000		22,086		22,086		
2	02	08	05			Assemble OTRH1/OTRH2 External Optics (2)	31-Jan-08	27-Feb-08	SL_MFAT2	Hrs	24		2,426		2,426			
2	02	08	05			Assemble OTRH1/OTRH2 Beamline Assy (2)	28-Feb-08	2-Apr-08	SL_MFAT2	Hrs	32		3,235		3,235			
2	02	08	05			Vac Process OTRH1/OTRH2 Beamline Assy (2)	3-Apr-08	30-Apr-08	SL_MFAT2	Hrs	40		4,044		4,044			
2	02	08	06			Heater Install & Align					172	-	17,284	-	17,284		0	
2	02	08	06			Install Enclosures, Tubes & Supports	13-Aug-08	26-Aug-08	SL_MFAT2	Hrs	20		2,022		2,022			
2	02	08	06			Install Magnet Supports	27-Aug-08	10-Sep-08	SL_TMUI2	Hrs	24		2,136		2,136			
2	02	08	06			Install Photon Diagnostics Supports	11-Sep-08	17-Sep-08	SL_MFAT2	Hrs	8		809		809			
2	02	08	06			Install Beampipe	18-Sep-08	1-Oct-08	SL_MFAT2	Hrs	40		4,044		4,044			
2	02	08	06			Install Undulator	2-Oct-08	22-Oct-08	SL_MFAT2	Hrs	80		8,274		8,274			
2	02	17				Injector System Commissioning					17,869	500,000	1,567,379	546,945	2,114,325		0	
2	02	17	11			Injector Engr, Design, Maintenance Support					17,869	500,000	1,567,379	546,945	2,114,325		0	
2	02	17	11			Designer Support - Maintenance	1-May-07	30-Nov-07	SL_MDD2	Hrs	1,043		100,789		100,789			
2	02	17	11			Injector Engr Commissioning Support	1-May-07	30-Nov-07	SL_EE2	Hrs	3,442		370,301		370,301			
2	02	17	11			Injector Engr Support - Maintenance	3-Dec-07	30-Apr-08	SL_EE2	Hrs	855		93,493		93,493			
2	02	17	11			CTL - Maintenance I	1-May-07	30-Nov-07	SL_CCA2	Hrs	5,215		396,184		396,184			
2	02	17	11			CTL - Maintenance II	3-Dec-07	30-Apr-08	SL_CCA2	Hrs	658		50,809		50,809			
2	02	17	11			PCD - Maintenance	1-May-07	30-Apr-08	SL_PCT2	Hrs	1,701		122,308		122,308			
2	02	17	11			MFD - Maintenance I	1-May-07	30-Nov-07	SL_MFAT2	Hrs	2,086		207,478		207,478			
2	02	17	11			MFD - Maintenance II	3-Dec-07	30-Apr-08	SL_MFAT2	Hrs	658		66,520		66,520			
2	02	17	11			KLY - Maintenance	1-May-07	30-Apr-08	SL_KT2	Hrs	1,701		122,308		122,308			
2	02	17	11			CEF - Maintenance	1-May-07	30-Apr-08	SL_SEPM2	Hrs	510		37,189		37,189			
2	02	17	11			M&S - Maintenance	1-May-07	30-Apr-08	SL_MSEQ2	\$\$		500,000		546,945		546,945		
2	03					LINAC SYSTEM (OPC)					21,872	795,858	2,048,137	877,049	2,925,186		0	
2	03	02				Linac Controls & Power Conversion Subsystem					174	73,110	14,594	78,920	93,514		0	
2	03	02	04			Power Conversion					174	73,110	14,594	78,920	93,514		0	
2	03	02	04	01		Spare Power Supply (Dipole Type)					80	21,480	6,547	23,187	29,734		0	
2	03	02	04	01		Spare Pwr Supply (Dipole Type) Procurement	1-May-07	20-Sep-07	SL_MSEG2	\$\$		21,480		23,187		23,187		
2	03	02	04	01		Assemble Pwr Supply, Transducer & Control	21-Sep-07	28-Sep-07	SL_PCT2	Hrs	16		1,135		1,135			
2	03	02	04	01		Assemble Pwr Supply, Transducer & Control	21-Sep-07	28-Sep-07	SL_PCE2	Hrs	8		1,037		1,037			
2	03	02	04	01		Assemble Pwr Supply, Transducer & Control	21-Sep-07	28-Sep-07	SL_PCCA2	Hrs	24		1,812		1,812			
2	03	02	04	01		Integrate Pwr Supply, Transducer & Control	1-Oct-07	9-Oct-07	SL_PCEF2	Hrs	26		1,887		1,887			
2	03	02	04	01		Integrate Cables	10-Oct-07	11-Oct-07	SL_TMUE2	Hrs	6		676		676			
2	03	02	04	02		Spare Power Supply (Quad Type)					82	21,480	6,726	23,187	29,913		0	
2	03	02	04	02		Spare Pwr Supply (Quad Type) Procurement	1-May-07	20-Sep-07	SL_MSEG2	\$\$		21,480		23,187		23,187		
2	03	02	04	02		Assemble Pwr Supply, Transducer & Control	21-Sep-07	28-Sep-07	SL_PCT2	Hrs	16		1,135		1,135			
2	03	02	04	02		Assemble Pwr Supply, Transducer & Control	21-Sep-07	28-Sep-07	SL_PCE2	Hrs	8		1,037		1,037			
2	03	02	04	02		Assemble Pwr Supply, Transducer & Control	21-Sep-07	28-Sep-07	SL_PCCA2	Hrs	24		1,812		1,812			
2	03	02	04	02		Integrate Pwr Supply, Transducer & Control	1-Oct-07	9-Oct-07	SL_PCEF2	Hrs	26		1,887		1,887			
2	03	02	04	02		Integrate Cables	10-Oct-07	11-Oct-07	SL_TMUE2	Hrs	6		676		676			
2	03	02	04	02		Integrate Magnet Interlock	12-Oct-07	12-Oct-07	SL_TMUI1	Hrs	2		179		179			
2	03	02	04	03		Spare Power Supply (Trim Type)					12	30,150	1,321	32,546	33,867		0	
2	03	02	04	03		Spare Power Supply Procurement	1-May-07	20-Sep-07	SL_MSEG2	\$\$		30,150		32,546		32,546		
2	03	02	04	03		Integrate Cables	21-Sep-07	24-Sep-07	SL_TMUE2	Hrs	12		1,321		1,321			
2	03	07				Linac System Commissioning					21,698	722,748	2,033,543	798,129	2,831,672		0	
2	03	07	10			L2/BC2/L3 Commissioning					21,698	722,748	2,033,543	798,129	2,831,672		0	
2	03	07	10			L2/BC2/L3 Designers Support - Maintenance	3-Dec-07	30-Sep-08	SL_MDD2	Hrs	1,400		137,508		137,508			
2	03	07	10			L2/BC2/L3 Engr Commissioning Support	3-Dec-07	30-Sep-08	SL_EE2	Hrs	4,900		535,810		535,810			
2	03	07	10			CTL - Maintenance I	3-Dec-07	30-May-08	SL_TSM2	Hrs	494		61,533		61,533			
2	03	07	10			CTL - Maintenance I	3-Dec-07	30-May-08	SL_PHH2	Hrs	494		55,652		55,652			
2	03	07	10			CTL - Maintenance I	3-Dec-07	30-May-08	SL_CE2	Hrs	494		65,498		65,498			
2	03	07	10			CTL - Maintenance I	3-Dec-07	30-May-08	SL_CCA2	Hrs	4,025		310,799		310,799			
2	03	07	10			CTL - Maintenance II	2-Jun-08	30-Sep-08	SL_TSM2	Hrs	357		44,468		44,468			
2	03	07	10			CTL - Maintenance II	2-Jun-08	30-Sep-08	SL_PHH2	Hrs	357		40,218		40,218			
2	03	07	10			CTL - Maintenance II	2-Jun-08	30-Sep-08	SL_CE2	Hrs	357		47,334		47,334			
2	03	07	10			CTL - Maintenance II	2-Jun-08	30-Sep-08	SL_CCA2	Hrs	1,785		137,832		137,832			
2	03	07	10			PCD - Maintenance I	3-Dec-07	30-May-08	SL_PCT2	Hrs	1,610		116,866		116,866			
2	03	07	10			PCD - Maintenance II	2-Jun-08	30-Sep-08	SL_PCT2	Hrs	595		43,190		43,190			
2	03	07	10			MFD - Maintenance I	3-Dec-07	30-May-08	SL_MFAT2	Hrs	2,415		244,144		244,144			
2	03	07	10			MFD - Maintenance II	2-Jun-08	30-Sep-08	SL_MFAT2	Hrs	595		60,151		60,151			

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early	Early	Res	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont	Contingency
						Description	Start	Finish	Code		Hours	\$	Labor	M&S	Total	%	\$
1	2	3	4	5	6	KLY - Maintenance	3-Dec-07	30-Sep-08	SL_KT2	Hrs	1,400		101,623		101,623		
2	03	07	10			CEF - Maintenance	3-Dec-07	30-Sep-08	SL_SEPM2	Hrs	420		30,918		30,918		
2	03	07	10			M&S - Maintenance	3-Dec-07	30-Sep-08	SL_MSEQ2	\$\$		500,000		552,149	552,149		
2	03	07	10			Controls E-Beam Diagnostics Tech Lead - FY08	3-Dec-07	30-Sep-08	SL_MSPS2	\$\$		111,374		122,990	122,990		
2	03	07	10			Controls - Wire Scanners Tech Lead - FY08	3-Dec-07	30-Sep-08	SL_MSPS2	\$\$		111,374		122,990	122,990		
2	04					UNDULATOR SYSTEM (OPC)					56,638	3,713,651	5,872,952	4,137,705	10,010,657		0
2	04	01				Undulator System Management & Integration					14,115	128,604	1,619,227	174,159	1,793,385		0
2	04	01	01			Undulator System Mgmt & Integration					14,115	128,604	1,619,227	174,159	1,793,385		0
2	04	01	01			SLAC Indirect Tax - FY07 (R&D)	1-May-07	28-Sep-07	SL_MSXX2	\$\$		6,200		6,343	6,343		
2	04	01	01			SLAC Indirect Tax - FY10 (Spares)	2-Oct-08	2-Apr-09	SL_MSXX2	\$\$		30,000		32,118	32,118		
2	04	01	01			Project Management	1-Oct-07	15-Jul-08	AN_PM2	Hrs	1,372		158,948		158,948		
2	04	01	01			Project Management	16-Jul-08	30-Sep-08	AN_PM2	Hrs	189		21,896		21,896		
2	04	01	01			Undulator Documentation	1-Oct-07	15-Jul-08	AN_PM2	Hrs	1,372		158,948		158,948		
2	04	01	01			Undulator Documentation	16-Jul-08	30-Sep-08	AN_PM2	Hrs	189		21,896		21,896		
2	04	01	01			Engineering Oversight	1-Oct-07	15-Jul-08	AN_PM2	Hrs	523		60,590		60,590		
2	04	01	01			Design/Drafter/Integration	1-Oct-07	15-Jul-08	AN_MDD2	Hrs	343		23,330		23,330		
2	04	01	01			Integration Engineer	1-Oct-07	15-Jul-08	AN_PM2	Hrs	1,372		158,948		158,948		
2	04	01	01			Integration Engineer	16-Jul-08	30-Sep-08	AN_PM2	Hrs	189		21,896		21,896		
2	04	01	01			Und Magnet & Support Engr Oversight	1-Oct-07	15-Jul-08	AN_PM2	Hrs	1,372		158,948		158,948		
2	04	01	01			Und Magnet & Support Engr Oversight	16-Jul-08	30-Sep-08	AN_PM2	Hrs	189		21,896		21,896		
2	04	01	01			Vacuum/Diagnostics Engineering Oversight	1-Oct-07	15-Jul-08	AN_PM2	Hrs	686		79,474		79,474		
2	04	01	01			Vacuum/Diagnostics Engineering Oversight	16-Jul-08	30-Sep-08	AN_PM2	Hrs	95		11,006		11,006		
2	04	01	01			Controls System Engineering Oversight	1-Oct-07	15-Jul-08	AN_PM2	Hrs	686		79,474		79,474		
2	04	01	01			Controls System Engineering Oversight	16-Jul-08	30-Sep-08	AN_PM2	Hrs	95		11,006		11,006		
2	04	01	01			Quality Assurance Oversight & Documentation	1-Oct-07	15-Jul-08	AN_PM2	Hrs	2,058		238,421		238,421		
2	04	01	01			Quality Assurance Oversight & Documentation	16-Jul-08	30-Sep-08	AN_PM2	Hrs	211		24,445		24,445		
2	04	01	01			Secretarial/Administrative/IT	1-Oct-07	15-Jul-08	AN_ADMN2	Hrs	906		104,961		104,961		
2	04	01	01			Secretarial/Administrative/IT	16-Jul-08	30-Sep-08	AN_ADMN2	Hrs	125		14,481		14,481		
2	04	01	01			Monitor Budget, Schedule and Contracts	1-Oct-07	15-Jul-08	AN_ADMN2	Hrs	1,372		158,948		158,948		
2	04	01	01			Monitor Budget/Schedule, and Contracts	16-Jul-08	30-Sep-08	AN_ADMN2	Hrs	189		21,896		21,896		
2	04	01	01			ANL Division - PMCS Support	1-Oct-07	15-Jul-08	AN_ADMN2	Hrs	343		39,737		39,737		
2	04	01	01			ANL Division - PMCS Support	16-Jul-08	30-Sep-08	AN_ADMN2	Hrs	50		5,793		5,793		
2	04	01	01			Office Supplies and Misc Materials	3-Mar-08	15-Jul-08	AN_MSCS2	\$\$		1,754		2,004	2,004		
2	04	01	01			Tele/Video Conferencing	3-Mar-08	15-Jul-08	AN_MSEG2	\$\$		843		963	963		
2	04	01	01			CPUs and Software	3-Mar-08	15-Jul-08	AN_MSEG2	\$\$		5,264		6,014	6,014		
2	04	01	01			Domestic Travel	3-Mar-08	15-Jul-08	AN_MSTR2	\$\$		25,000		44,632	44,632		
2	04	01	01			Foreign Travel	3-Mar-08	15-Jul-08	AN_MSTR2	\$\$		3,950		7,052	7,052		
2	04	01	01			Shipping and Storage	3-Mar-08	15-Jul-08	AN_MSTR2	\$\$		13,264		23,680	23,680		
2	04	01	01			Office Supplies and Misc Materials	16-Jul-08	30-Sep-08	AN_MSCS2	\$\$		713		815	815		
2	04	01	01			Tele/Video Conferencing	16-Jul-08	30-Sep-08	AN_MSEG2	\$\$		342		391	391		
2	04	01	01			CPUs and Software	16-Jul-08	30-Sep-08	AN_MSEG2	\$\$		2,138		2,443	2,443		
2	04	01	01			Shipping and Storage	16-Jul-08	30-Sep-08	AN_MSTR2	\$\$		5,386		9,615	9,615		
2	04	01	01			Domestic Travel	16-Jul-08	30-Sep-08	AN_MSTR2	\$\$		3,750		6,695	6,695		
2	04	01	01			Project Management	16-Jul-08	15-Jul-09	AN_PM2	Hrs	189		22,293		22,293		
2	04	01	01			SLAC Indirect Tax - FY08 (PreOps)	1-Oct-07	30-Sep-08	SL_MSXX2	\$\$		30,000		31,396	31,396		
2	04	02				Controls					-	87,444	-	98,785	98,785		0
2	04	02	01			Controls Management and Integration					-	87,444	-	98,785	98,785		0
2	04	02	01			Vendor Fab/Assy - Quad PS+ addl items (2)	2-Oct-08	9-Oct-08	SA_MSSC2	\$\$		60,000		67,782	67,782		
2	04	02	01			Vendor Fab/Assy - Quad Cables (2)	2-Oct-08	15-Oct-08	SA_MSSC2	\$\$		8,000		9,038	9,038		
2	04	02	01			AWARD: Contract-Quad PS+addl items (2)	1-Oct-08	1-Oct-08	SL_AWARD	\$\$		66,000		79,928	79,928		
2	04	02	01			AWARD - Contract - Quad Cables (2)	1-Oct-08	1-Oct-08	SL_AWARD	\$\$		8,800		10,657	10,657		
2	04	02	01			AWARD: SDB Ion Pump (1)	1-Oct-08	2-Oct-08	SL_AWARD	\$\$		1,560		1,889	1,889		
2	04	02	01			AWARD: SDB Ion Pump Power Supply (1)	1-Oct-08	2-Oct-08	SL_AWARD	\$\$		5,496		6,656	6,656		
2	04	02	01			AWARD: SDB Ion Pump Cable (1)	1-Oct-08	2-Oct-08	SL_AWARD	\$\$		594		719	719		
2	04	02	01			REC: SDB Ion Pump	3-Oct-08	13-Nov-08	SA_MSEG2	\$\$		1,418		1,602	1,602		
2	04	02	01			REC: SDB Ion Pump Power Supply	3-Oct-08	13-Nov-08	SA_MSEG2	\$\$		4,996		5,644	5,644		
2	04	02	01			REC: SDB Ion Pump Cable	3-Oct-08	13-Nov-08	SA_MSEG2	\$\$		540		610	610		
2	04	02	01			AWARD: LDB Ion Pump (1)	1-Oct-08	2-Oct-08	SL_AWARD	\$\$		7,649		9,263	9,263		
2	04	02	01			AWARD: LDB Power Supply (1)	1-Oct-08	2-Oct-08	SL_AWARD	\$\$		4,996		6,050	6,050		
2	04	02	01			REC: LDB Power Supply (1)	3-Oct-08	1-Dec-08	SA_MSEG2	\$\$		4,996		5,644	5,644		
2	04	02	01			REC: LDB Cable (1)	2-Oct-08	26-Nov-08	SL_MSEG2	\$\$		540		610	610		
2	04	02	01			REC: LDB Ion Pump (1)	3-Oct-08	1-Dec-08	SA_MSEG2	\$\$		6,954		7,856	7,856		
2	04	03				Undulator Magnet & Support					4,326	2,606,836	454,281	2,847,947	3,302,228		0
2	04	03	01			Undulator Magnets & Support-Mgmt & Integration					810	-	91,882	-	91,882		0
2	04	03	01			Survey and Alignment Support	1-May-07	1-Oct-07	AN_MES2	Hrs	193		21,857		21,857		
2	04	03	01			Dev/Coord Instl/Checkout/Verif/Interface,etc.	1-May-07	29-Oct-07	AN_ME2	Hrs	378		42,959		42,959		
2	04	03	01			Undulator Systems Integration	1-May-07	1-Oct-07	AN_ME2	Hrs	239		27,066		27,066		
2	04	03	03			1st Article Undulators & Long Lead Procurements					191	-	22,128	-	22,128		0
2	04	03	03			Survey & Align	1-Oct-07	7-Apr-08	AN_MES2	Hrs	191		22,128		22,128		
2	04	03	04			Production Undulator					-	2,498,836	-	2,727,889	2,727,889		0
2	04	03	04			Ti Strongback Spares	2-Oct-08	31-Mar-09	AN_MSSF2	\$\$		686,297		749,206	749,206		
2	04	03	04			Magnet Block Spares	2-Oct-08	31-Mar-09	AN_MSSF2	\$\$		183,927		200,786	200,786		

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early	Early	Res	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escldt Cost			Cont	Contingency	
						Description	Start	Finish	Code		Hours	\$	Labor	M&S	Total	%	\$	
1	2	3	4	5	6	Magnet Assy & Supports Spares- 1st Art	2-Oct-08	31-Mar-09	AN_MSSF2	\$\$			399,894		436,550	436,550		
2	04	03	04	Production Undulator Assembly Spares	2-Oct-08	31-Mar-09	AN_MSSF2	\$\$			586,016		639,733	639,733				
2	04	03	04	Mu Metal Shield Spares	2-Oct-08	31-Mar-09	AN_MSSF2	\$\$			32,085		35,026	35,026				
2	04	03	04	RCV: 5 Support/Movers - Spares	2-Oct-08	29-Oct-08	AA_MSSF2	\$\$			450,000		491,249	491,249				
2	04	03	04	AWARD: 5 Support/Movers - Spares	2-Oct-08	2-Oct-08	AN_AWARD	\$\$			450,000		514,118	514,118				
2	04	03	04	Magnet Poles Spares	2-Oct-08	29-Oct-08	AN_MSSF2	\$\$			160,617		175,340	175,340				
2	04	03	05	Focusing Magnets							-		-	32,725		0		
2	04	03	05	Vendor Fab/Assy - Quad Stages, Stands, etc. (2)	2-Oct-08	17-Nov-08	AN_MSSC2	\$\$			28,000		32,725	32,725				
2	04	03	06	Undulator Magnetic Measurement Facility (SLAC)							3,325		340,271		340,271		0	
2	04	03	06	Assy, Tune, Fiducialize Und Spares	1-Apr-09	30-Sep-09	SL_SEE2	Hrs			5		637	637				
2	04	03	06	Assy, Tune, Fiducialize Und Spares	1-Apr-09	30-Sep-09	SL_PHSS2	Hrs			276		30,829	30,829				
2	04	03	06	Assy, Tune, Fiducialize Und Spares	1-Apr-09	30-Sep-09	SL_PHS2	Hrs			100		8,776	8,776				
2	04	03	06	Assy, Tune, Fiducialize Und Spares	1-Apr-09	30-Sep-09	SL_MFAT2	Hrs			2,316		239,520	239,520				
2	04	03	06	Assy, Tune, Fiducialize Und Spares	1-Apr-09	30-Sep-09	SL_MES2	Hrs			628		60,508	60,508				
2	04	03	08	Fixed Supports							-		-	87,333		0		
2	04	03	08	RCV: 5 Fixed Supports - Spare	2-Oct-08	2-Oct-08	AA_MSSF2	\$\$			80,000		87,333	87,333				
2	04	03	08	AWARD: 5 Fixed Supports - Spare	2-Oct-08	2-Oct-08	AN_AWARD	\$\$			80,000		91,399	91,399				
2	04	04		Vacuum System							687		69,758	318,951		0		
2	04	04	02	Undulator Vacuum Chamber Assembly							650		65,501	294,073		0		
2	04	04	02	Fabricate Prototype Extrusion	1-May-07	28-Sep-07	AN_MSEG2	\$\$				31,400		35,067	35,067			
2	04	04	02	Fabricate Prototype Extrusion	1-May-07	28-Sep-07	AN_ME2	Hrs			160		18,119	18,119				
2	04	04	02	AWARD: Vacuum Chamber Spares	2-Oct-08	2-Oct-08	AN_AWARD	\$\$				230,021		262,796	262,796			
2	04	04	02	RCV: Strongback Material (4)	14-Oct-08	14-Oct-08	AA_MSEG2	\$\$				17,068		19,948	19,948			
2	04	04	02	RCV: Chamber Wall Parts (4)	13-Nov-08	13-Nov-08	AA_MSEG2	\$\$				44,132		51,579	51,579			
2	04	04	02	RCV: Strongback Machine (4)	12-Jan-09	12-Jan-09	AA_MSEG2	\$\$				65,332		76,356	76,356			
2	04	04	02	RCV: Laser Weld (4)	18-Feb-09	18-Feb-09	AA_MSEG2	\$\$				13,868		16,208	16,208			
2	04	04	02	RCV: Final Machine (4)	20-Mar-09	20-Mar-09	AA_MSEG2	\$\$				14,668		17,143	17,143			
2	04	04	02	Inspect, Leak Test, Clean, Coat & Bake (4)	23-Mar-09	10-Apr-09	AN_MVE2	Hrs			120		14,222	14,222				
2	04	04	02	Inspect, Leak Test, Clean, Coat & Bake (4)	23-Mar-09	10-Apr-09	AN_MFAT2	Hrs			102		7,097	7,097				
2	04	04	02	Ship Vacuum Chambers to SLAC (4)	13-Apr-09	17-Apr-09	AN_MVE2	Hrs			24		2,844	2,844				
2	04	04	02	Ship Vacuum Chambers to SLAC (4)	13-Apr-09	17-Apr-09	AN_MFAT2	Hrs			102		7,097	7,097				
2	04	04	02	RCV: Chamber Supports (4)	1-Dec-08	1-Dec-08	AN_MVE2	Hrs			24		2,844	2,844				
2	04	04	02	RCV: Chamber Supports (4)	1-Dec-08	1-Dec-08	AA_MSSC2	\$\$				64,000		74,799	74,799			
2	04	04	02	Inspect Chamber Supports (4)	2-Dec-08	17-Dec-08	AN_MVE2	Hrs			64		7,585	7,585				
2	04	04	02	Inspect Chamber Supports (4)	2-Dec-08	17-Dec-08	AN_MFMS2	Hrs			10		1,064	1,064				
2	04	04	02	Package Chamber Supports for Shipment (4)	18-Dec-08	2-Jan-09	AN_MVE2	Hrs			32		3,792	3,792				
2	04	04	02	Package Chamber Supports for Shipment (4)	18-Dec-08	2-Jan-09	AN_MFAT2	Hrs			12		835	835				
2	04	04	02	Ship Chamber Supports to SLAC (4)	5-Jan-09	9-Jan-09	AN_MSEG2	\$\$						2,974	2,974			
2	04	04	03	Beam-line Bellows Module Assembly							-		-	16,718		0		
2	04	04	03	AWARD: Standard Bellows Module (4)	2-Oct-08	3-Oct-08	AN_AWARD	\$\$				15,019		17,159	17,159			
2	04	04	03	REC: Standard Bellows Module (4)	6-Oct-08	2-Dec-08	AA_MSEG2	\$\$				14,304		16,718	16,718			
2	04	04	04	Single Undulator Test (SUV) Vacuum							37		4,257		4,257		0	
2	04	04	04	Support SUT Long Term Test (FY07-08)	11-Jun-07	9-Jun-08	AN_ME2	Hrs			37		4,257	4,257				
2	04	04	05	Short Diagnostic Break (SDB) Assembly							-		-	1,420		0		
2	04	04	05	AWARD: Pump Manifold (1)	2-Oct-08	3-Oct-08	AN_AWARD	\$\$				961		1,098	1,098			
2	04	04	05	AWARD: Pump Support (1)	2-Oct-08	6-Oct-08	AN_AWARD	\$\$				315		360	360			
2	04	04	05	REC: SDB Pump Manifold (1)	6-Oct-08	14-Nov-08	AA_MSEG2	\$\$				915		1,069	1,069			
2	04	04	05	REC: SDB Pump Supports (1)	7-Oct-08	17-Nov-08	AA_MSEG2	\$\$				300		351	351			
2	04	04	06	Long Diagnostic Break (LDB) Assembly							-		-	6,740		0		
2	04	04	06	AWARD: LDB Valve (2)	2-Oct-08	3-Oct-08	AN_AWARD	\$\$				4,391		5,017	5,017			
2	04	04	06	AWARD: LDB Chamber Weldment Assembly (1)	2-Oct-08	3-Oct-08	AN_AWARD	\$\$				509		582	582			
2	04	04	06	AWARD: LDB Chamber Support (1)	2-Oct-08	3-Oct-08	AN_AWARD	\$\$				788		900	900			
2	04	04	06	AWARD: LDB Ion Pump Support (1)	2-Oct-08	3-Oct-08	AN_AWARD	\$\$				368		420	420			
2	04	04	06	REC: LDB Valve (2)	6-Oct-08	2-Dec-08	AA_MSEG2	\$\$				4,182		4,888	4,888			
2	04	04	06	REC: LDB Chamber Weldment Assembly (1)	6-Oct-08	2-Dec-08	AA_MSEG2	\$\$				485		567	567			
2	04	04	06	REC: LDB Chamber Support (1)	6-Oct-08	2-Dec-08	AA_MSEG2	\$\$				750		877	877			
2	04	04	06	REC: LDB Ion Pump Support (1)	6-Oct-08	2-Dec-08	AA_MSEG2	\$\$				350		409	409			
2	04	05		Undulator System Diagnostics [OPC]							85		8,701	133,015		0		
2	04	05	05	RFBPM							32		79,431	81,990		0		
2	04	05	05	AWARD: Copper Body Brazement (2)	8-Aug-07	10-Aug-07	AN_AWARD	\$\$				16,320		17,712	17,712			
2	04	05	05	AWARD: Support & Alignment Mechanism (2)	8-Aug-07	10-Aug-07	AN_AWARD	\$\$				5,032		5,461	5,461			
2	04	05	05	AWARD: RF Cabling (2)	8-Aug-07	10-Aug-07	AN_AWARD	\$\$				3,019		3,277	3,277			
2	04	05	05	REC: Support & Alignment Mechanism (2)	13-Aug-07	22-Oct-07	AA_MSEG2	\$\$				5,000		5,622	5,622			
2	04	05	05	REC: RF Cabling (4)	13-Aug-07	22-Oct-07	AA_MSEG2	\$\$				3,000		3,373	3,373			
2	04	05	05	REC: Copper Body Brazement (2)	11-Dec-07	17-Mar-08	AA_MSEG2	\$\$				16,000		18,279	18,279			
2	04	05	05	AWARD: Undulator Waveguide (2)	8-Aug-07	10-Aug-07	AN_AWARD	\$\$				6,735		7,310	7,310			
2	04	05	05	REC: Undulator Waveguide (2)	13-Aug-07	16-Oct-07	AA_MSEG2	\$\$				6,700		7,523	7,523			
2	04	05	05	AWARD: Down Converter (4)	8-Aug-07	10-Aug-07	AN_AWARD	\$\$				31,920		34,643	34,643			
2	04	05	05	REC: Down Converter (4)	13-Aug-07	15-Aug-07	AA_MSEG2	\$\$				31,920		35,647	35,647			
2	04	05	05	AWARD: Local Oscillator (4)	8-Aug-07	10-Aug-07	AN_AWARD	\$\$				6,000		6,512	6,512			
2	04	05	05	REC: Local Oscillator (4)	13-Aug-07	15-Aug-07	AA_MSEG2	\$\$				6,000		6,701	6,701			
2	04	05	05	Pack/Ship Spares Lot (4) Undulator RFBPM to SLAC	30-Apr-08	30-Apr-08	AN_MSEG2	\$\$				2,000		2,285	2,285			

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early Start	Early Finish	Res Code	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont %	Contingency \$	
Description											Hours	\$	Labor	M&S	Total			
1	2	3	4	5	6	Pack/Ship Spares Lot (4) Undulator RFBPM to SLAC	30-Apr-08	30-Apr-08	AN_MFAT2	Hrs	24			1,632		1,632		
2	04	05	05			Pack/Ship Spares Lot (4) Undulator RFBPM to SLAC	30-Apr-08	30-Apr-08	AN_ME2	Hrs	8			927		927		
2	04	05	06			Beam Finder Wire					16	29,974	1,896	35,032	36,928		0	
2	04	05	06			Machine Components (2)	3-Oct-08	13-Nov-08	AN_ME2	Hrs	8			948		948		
2	04	05	06			Machine Components (2)	3-Oct-08	13-Nov-08	AA_MSEQ2	\$\$		19,154		22,386		22,386		
2	04	05	06			AWARD: Machine Components (2)	2-Oct-08	2-Oct-08	AN_AWARD	\$\$		20,112		22,978		22,978		
2	04	05	06			Weld Components (2)	27-Feb-09	12-Mar-09	AN_MSEQ2	\$\$		9,120		10,659		10,659		
2	04	05	06			Weld Components (2)	27-Feb-09	12-Mar-09	AN_ME2	Hrs	8			948		948		
2	04	05	06			Ship Fifth Lot of Chamber to SLAC (2)	7-May-09	14-May-09	AN_MSEG2	\$\$		1,700		1,987		1,987		
2	04	05	08			Beam Loss Monitoring					-	15,874	-	18,552	18,552		0	
2	04	05	08			AWARD: PMT (2)	2-Oct-08	2-Oct-08	AN_AWARD	\$\$		6,785		7,752		7,752		
2	04	05	08			AWARD: Beam Loss Monitor Fiber (2)	2-Oct-08	2-Oct-08	AN_AWARD	\$\$		4,941		5,645		5,645		
2	04	05	08			AWARD: Integrating Fiber (2)	2-Oct-08	2-Oct-08	AN_AWARD	\$\$		4,941		5,645		5,645		
2	04	05	08			REC: PMT (2)	14-Nov-08	14-Nov-08	AA_MSEG2	\$\$		6,462		7,552		7,552		
2	04	05	08			REC: Beam Loss Monitor Fiber (2)	14-Nov-08	14-Nov-08	AA_MSEG2	\$\$		4,706		5,500		5,500		
2	04	05	08			REC: Integrating Fiber (2)	14-Nov-08	14-Nov-08	AA_MSEG2	\$\$		4,706		5,500		5,500		
2	04	05	10			Single Undulator Test (SUT) Diagnostics					37	-	4,246	-	4,246		0	
2	04	05	10			Support SUT Test (FY07-08)	1-May-07	29-Apr-08	AN_MVE2	Hrs	37			4,246		4,246		
2	04	06				LTU/Undulator/Dump Commissioning					37,425	500,000	3,720,985	564,848	4,285,833		0	
2	04	06	01			LTU/Undulator/Dump Commissioning					37,425	500,000	3,720,985	564,848	4,285,833		0	
2	04	06	01			LTU/Und/Dump Designers Support	1-Oct-08	30-Jun-09	SL_MDD2	Hrs	1,288			129,417		129,417		
2	04	06	01			LTU/Und/Dump Designers Support II	1-Jul-09	31-Jul-09	SL_MDD2	Hrs	77			7,737		7,737		
2	04	06	01			LTU/Und/Dump Engr Commissioning Support	1-Oct-08	30-Jun-09	SL_EE2	Hrs	14,168			1,584,889		1,584,889		
2	04	06	01			LTU/Und/Dump Engr Commissioning Support II	1-Jul-09	31-Jul-09	SL_EE2	Hrs	847			94,749		94,749		
2	04	06	01			Metrology - Maintenance I	1-Oct-08	29-May-09	SL_MES2	Hrs	5,670			546,305		546,305		
2	04	06	01			Metrology - Maintenance II	1-Jun-09	30-Jun-09	SL_MES2	Hrs	308			29,676		29,676		
2	04	06	01			Metrology - Maintenance III	1-Jul-09	31-Jul-09	SL_MES2	Hrs	154			14,838		14,838		
2	04	06	01			CTL - Maintenance I	1-Oct-08	29-May-09	SL_CCA2	Hrs	5,670			447,890		447,890		
2	04	06	01			CTL - Maintenance II	1-Jun-09	30-Jun-09	SL_CCA2	Hrs	462			36,495		36,495		
2	04	06	01			CTL - Maintenance III	1-Jul-09	31-Jul-09	SL_CCA2	Hrs	231			18,247		18,247		
2	04	06	01			PCD - Maintenance I	1-Oct-08	29-May-09	SL_PCT2	Hrs	2,268			168,415		168,415		
2	04	06	01			PCD - Maintenance II	1-Jun-09	30-Jun-09	SL_PCT2	Hrs	154			11,436		11,436		
2	04	06	01			PCD - Maintenance III	1-Jul-09	31-Jul-09	SL_PCT2	Hrs	77			5,718		5,718		
2	04	06	01			MFD - Maintenance I	1-Oct-08	29-May-09	SL_MFAT2	Hrs	4,536			469,113		469,113		
2	04	06	01			MFD - Maintenance II	1-Jun-09	30-Jun-09	SL_MFAT2	Hrs	154			15,927		15,927		
2	04	06	01			MFD - Maintenance III	1-Jul-09	31-Jul-09	SL_MFAT2	Hrs	77			7,963		7,963		
2	04	06	01			CEF - Maintenance II	1-Oct-08	30-Jun-09	SL_SEPM2	Hrs	386			29,069		29,069		
2	04	06	01			CEF - Maintenance III	1-Jul-09	31-Jul-09	SL_SEPM2	Hrs	23			1,732		1,732		
2	04	06	01			M&S - Maintenance	1-Oct-08	31-Jul-09	SL_MSEQ2	\$\$		500,000		564,848		564,848		
2	04	06	01			Support Commissioning - ANL	2-Oct-07	1-Oct-08	AN_CE2	Hrs	875			101,370		101,370		
2	05					X-RAY TRANSPORT & DIAGNOSTICS SYSTEMS (OPC)					3,124	955,000	613,550	1,112,199	1,725,749		0	
2	05	04				Optical Subsystem					-	905,000	-	1,051,414	1,051,414		0	
2	05	04	02			Facility Optics					-	905,000	-	1,051,414	1,051,414		0	
2	05	04	02			Procure Spares - Part 2	1-Oct-09	23-Dec-09	LL_MSXX2	\$\$		405,000		443,565		443,565		
2	05	04	02			Procure Spares - Part 2	1-Oct-09	23-Dec-09	LL_MSCS2	\$\$		95,000		115,491		115,491		
2	05	04	02			Procure Spares - Part 1	1-Oct-09	23-Dec-09	LL_MSCS2	\$\$		405,000		492,357		492,357		
2	05	05				Diagnostics Subsystem					3,124	50,000	613,550	60,785	674,335		0	
2	05	05	02			Modeling & Simulation					3,124	-	613,550	-	613,550		0	
2	05	05	02			Modeling & Simulation - FY07	1-May-07	28-Sep-07	LL_CP2	Hrs	1,423			276,019		276,019		
2	05	05	02			Modeling & Simulation - FY-08	1-Oct-07	30-Sep-08	LL_CP2	Hrs	1,701			337,531		337,531		
2	05	05	03			Facility Diagnostics					-	50,000	-	60,785	60,785		0	
2	05	05	03			Procure Spares - Direct Imager	1-Oct-09	23-Dec-09	LL_MSCS2	\$\$		50,000		60,785		60,785		
2	06					X-RAY END STATION SYSTEMS (OPC)					33,906	3,234,053	4,410,953	3,587,061	7,998,014		0	
2	06	01				XE System Mgmt & Integration					32,866	65,585	4,297,410	91,522	4,388,931		0	
2	06	01				LLNL Commissioning Team - Nov08 thru Jun09	3-Nov-08	30-Jun-09	LL_PHSS2	Hrs	1,210			269,922		269,922		
2	06	01				LLNL Commissioning Team - Nov08 thru Jun09	3-Nov-08	30-Jun-09	LL_ME2	Hrs	605			114,382		114,382		
2	06	01				LLNL Commissioning Team - Nov08 thru Jun09	3-Nov-08	30-Jun-09	LL_MDD2	Hrs	1,210			209,873		209,873		
2	06	01				LLNL Commissioning Team - Nov08 thru Jun09	3-Nov-08	30-Jun-09	LL_EE2	Hrs	605			114,382		114,382		
2	06	01				LLNL Commissioning Team - Nov08 thru Jun09	3-Nov-08	30-Jun-09	LL_CE2	Hrs	1,210			228,765		228,765		
2	06	01				SLAC Commissioning Team - Nov08 thru Jun09	3-Nov-08	30-Jun-09	SL_OE2	Hrs	1,210			164,120		164,120		
2	06	01				SLAC Commissioning Team - Nov08 thru Jun09	3-Nov-08	30-Jun-09	SL_ME2	Hrs	1,210			145,010		145,010		
2	06	01				SLAC Commissioning Team - Nov08 thru Jun09	3-Nov-08	30-Jun-09	SL_EE2	Hrs	1,210			135,355		135,355		
2	06	01				SLAC Commissioning Team - Nov08 thru Jun09	3-Nov-08	30-Jun-09	SL_CP2	Hrs	1,210			119,660		119,660		
2	06	01				SLAC Commissioning Team - Nov08 thru Jun09	3-Nov-08	30-Jun-09	SL_CE2	Hrs	1,210			164,120		164,120		
2	06	01				SLAC Commissioning Team - Jul09 thru Aug09	1-Jul-09	31-Aug-09	SL_PHS2	Hrs	310			27,207		27,207		
2	06	01				SLAC Commissioning Team - Jul09 thru Aug09	1-Jul-09	31-Aug-09	SL_OE2	Hrs	310			42,047		42,047		
2	06	01				SLAC Commissioning Team - Jul09 thru Aug09	1-Jul-09	31-Aug-09	SL_MFAT2	Hrs	310			32,060		32,060		
2	06	01				SLAC Commissioning Team - Jul09 thru Aug09	1-Jul-09	31-Aug-09	SL_ME2	Hrs	310			37,151		37,151		
2	06	01				SLAC Commissioning Team - Jul09 thru Aug09	1-Jul-09	31-Aug-09	SL_EE2	Hrs	310			34,678		34,678		
2	06	01				SLAC Commissioning Team - Jul09 thru Aug09	1-Jul-09	31-Aug-09	SL_CP2	Hrs	619			61,215		61,215		
2	06	01				SLAC Commissioning Team - Jul09 thru Aug09	1-Jul-09	31-Aug-09	SL_CE2	Hrs	619			83,959		83,959		
2	06	01				SLAC Commissioning Team - Oct09 thru May10	1-Oct-09	31-May-10	SL_PHS2	Hrs	1,231			110,523		110,523		

LCLS Estimate to Complete - May07 and Beyond

WBS Level						May 2007 CR Rebaseline	Early	Early	Res	Units	Work Rem. Bud. Qtty		Work Rem. Full Burd and Escltd Cost			Cont	Contingency	
						Description	Start	Finish	Code		Hours	\$	Labor	M&S	Total	%	\$	
1	2	3	4	5	6													
2	06	01				SLAC Commissioning Team - Oct09 thru May10	1-Oct-09	31-May-10	SL_OE2	Hrs	1,231		170,809		170,809			
2	06	01				SLAC Commissioning Team - Oct09 thru May10	1-Oct-09	31-May-10	SL_MFAT2	Hrs	1,231		130,238		130,238			
2	06	01				SLAC Commissioning Team - Oct09 thru May10	1-Oct-09	31-May-10	SL_ME2	Hrs	1,231		150,919		150,919			
2	06	01				SLAC Commissioning Team - Oct09 thru May10	1-Oct-09	31-May-10	SL_EE2	Hrs	1,231		140,872		140,872			
2	06	01				SLAC Commissioning Team - Oct09 thru May10	1-Oct-09	31-May-10	SL_CP2	Hrs	2,462		249,074		249,074			
2	06	01				SLAC Commissioning Team - Oct09 thru May10	1-Oct-09	31-May-10	SL_CE2	Hrs	2,462		341,618		341,618			
2	06	01				Laser Management Nov08 thru Aug09	29-Oct-08	26-Aug-09	SL_PHPU2	Hrs	760		112,286		112,286			
2	06	01				Laser Management Oct09 thru May10	1-Oct-09	31-May-10	SL_PHPU2	Hrs	1,231		186,057		186,057			
2	06	01				AMO Exp. Management - Nov08 thru Aug09	3-Nov-08	31-Aug-09	SL_PHPU2	Hrs	796		117,605		117,605			
2	06	01				AMO Exp. Management - Oct09 thru May10	1-Oct-09	31-May-10	SL_PHPU2	Hrs	1,332		201,322		201,322			
2	06	01				Management X-Ray Detector - Nov08 thru Aug09	3-Nov-08	31-Aug-09	SL_PHS2	Hrs	789		69,246		69,246			
2	06	01				Management X-Ray Detector - Oct09 thru May10	1-Oct-09	31-May-10	SL_PHS2	Hrs	1,279		114,833		114,833			
2	06	01				Management & Oversight - Nov08 thru Aug09	3-Nov-08	31-Aug-09	SL_EE2	Hrs	718		80,318		80,318			
2	06	01				Management & Oversight - Oct09 thru May10	1-Oct-09	31-May-10	SL_EE2	Hrs	1,204		137,782		137,782			
2	06	01				Travel & Misc Expenses - Nov08 thru Sep09	3-Nov-08	30-Sep-09	SL_MSTR2	\$\$		27,228		40,227		40,227		
2	06	01				Travel & Misc Expenses - Nov08 thru Sep09	3-Nov-08	30-Sep-09	SL_MSCS2	\$\$		10,891		12,304		12,304		
2	06	01				Travel & Misc Expenses FY-10	1-Oct-09	31-May-10	SL_MSTR2	\$\$		20,378		30,799		30,799		
2	06	01				Travel & Misc Expenses FY-10	1-Oct-09	31-May-10	SL_MSCS2	\$\$		7,088		8,191		8,191		
2	06	02				Controls Subsystem					400	888,468	38,407	975,777	1,014,184		0	
2	06	02	04			Beamline Controls					-	888,468	-	975,777	975,777		0	
2	06	02	04			Development of LBL Laser Timing System	1-May-07	28-Sep-07	SL_MSSC2	\$\$		215,741		232,886		232,886		
2	06	02	04			LBL Timing Procurement (FY08)	1-Oct-07	30-Sep-08	SL_MSSC2	\$\$		672,727		742,891		742,891		
2	06	02	08			R&D: 2D X-Ray Detector Controls					400	-	38,407	-	38,407		0	
2	06	02	08			Support Design of EPICS Interface	1-May-07	25-Jul-07	SL_CP2	Hrs	80		7,560		7,560			
2	06	02	08			Support Integration with Data Farm	27-Jul-07	23-Aug-07	SL_CP2	Hrs	40		3,780		3,780			
2	06	02	08			Support Development of Control System	29-Oct-07	8-Feb-08	SL_CP2	Hrs	120		11,600		11,600			
2	06	02	08			Prototype Development Support	29-Oct-07	8-Feb-08	SL_CP2	Hrs	40		3,867		3,867			
2	06	02	08			Support for delivery of 2D Detector	11-Feb-08	3-Jun-08	SL_CP2	Hrs	120		11,600		11,600			
2	06	04				Spares					640	120,000	75,137	138,682	213,818		0	
2	06	04	01			Spares - PPS Stoppers					640	120,000	75,137	138,682	213,818		0	
2	06	04	01			Vendor Fab/Ship - Spare PPS Stoppers	2-Oct-09	29-Oct-09	SA_MSEQ2	\$\$		120,000		138,682		138,682		
2	06	04	01			Assemble - Spare PPS Beam Stop Hardware (2)	30-Oct-09	25-Jan-10	SL_MFMS2	Hrs	160		21,665		21,665			
2	06	04	01			Assemble - Spare PPS Beam Stop Hardware (2)	30-Oct-09	25-Jan-10	SL_MFAT2	Hrs	320		33,856		33,856			
2	06	04	01			Assemble - Spare PPS Beam Stop Hardware (2)	30-Oct-09	25-Jan-10	SL_ME2	Hrs	160		19,616		19,616			
2	06	05				X-Ray Detectors					-	2,160,000	-	2,381,081	2,381,081		0	
2	06	05	02			2-D X-Ray Detector					-	2,160,000	-	2,381,081	2,381,081		0	
2	06	05	02			Cornell Labor/Materials Q1-Q3 CY07	1-May-07	28-Sep-07	SA_MSSC2	\$\$		321,600		347,157		347,157		
2	06	05	02			Cornell Labor/Materials Q4 CY07	1-Oct-07	27-Dec-07	SA_MSSC2	\$\$		160,000		176,688		176,688		
2	06	05	02			Cornell Labor/Materials Q1-Q3 CY08	2-Jan-08	30-Sep-08	SA_MSSC2	\$\$		817,500		902,763		902,763		
2	06	05	02			Cornell Labor/Materials Q4 CY08	1-Oct-08	31-Dec-08	SA_MSSC2	\$\$		272,500		307,842		307,842		
2	06	05	02			AWARD: Cornell Contract - CY07	1-May-07	1-May-07	SL_AWARD	\$\$		628,720		723,301		723,301		
2	06	05	02			AWARD: Cornell Contract - CY08	30-Nov-07	30-Nov-07	SL_AWARD	\$\$		1,548,975		1,828,325		1,828,325		
2	06	05	02	03		Full Lot Prototype					-	196,400	-	213,746	213,746		0	
2	06	05	02	03		Fabricate Detector Diode	1-May-07	23-Jul-07	SL_MSSC2	\$\$		46,400		50,087		50,087		
2	06	05	02	03		Fabricate Full Lot ASIC	1-May-07	7-Jun-07	SL_MSSC2	\$\$		80,000		86,358		86,358		
2	06	05	02	03		Bump Bond	1-Oct-07	7-Dec-07	SA_MSSC2	\$\$		70,000		77,301		77,301		
2	06	05	02	04		500px Detector					-	392,000	-	432,885	432,885		0	
2	06	05	02	04		Fabricate Proto 4 ASIC	1-Oct-07	27-Nov-07	SA_MSSC2	\$\$		42,000		46,380		46,380		
2	06	05	02	04		Fabricate final detector ASIC	14-Apr-08	9-Jun-08	SA_MSSC2	\$\$		200,000		220,859		220,859		
2	06	05	02	04		Fabricate final Detector Diode	31-Mar-08	19-Aug-08	SA_MSSC2	\$\$		80,000		88,344		88,344		
2	06	05	02	04		Bump Bond ASIC to final Detector	20-Aug-08	17-Sep-08	SA_MSSC2	\$\$		70,000		77,301		77,301		
2	09					CONVENTIONAL FACILITIES (OPC)					4,957	435,000	617,443	459,012	1,076,455		0	
2	09	03				Beam Path Project Commissioning					4,957	435,000	617,443	459,012	1,076,455		0	
2	09	03	05			Beam Path Project Commissioning					4,957	435,000	617,443	459,012	1,076,455		0	
2	09	03	05			AWARD: Commissioning Beam Path - FY07	4-Jun-07	4-Jun-07	SL_AWARD	\$\$		341,250		392,586		392,586	0.0%	0
2	09	03	05			AWARD: Commissioning Beam Path - FY08	2-Oct-07	2-Oct-07	SL_AWARD	\$\$		78,750		92,952		92,952	0.0%	0
2	09	03	05			Commissioning - Beam Path (FY07)	5-Jun-07	28-Sep-07	SA_MSSF2	\$\$		325,000		342,940		342,940	0.0%	0
2	09	03	05			Commissioning - Beam Path (FY08)	2-Oct-07	1-Jul-08	SA_MSSF2	\$\$		75,000		79,140		79,140	0.0%	0
2	09	03	05			CF Engineering Support - FY08 (Oct-nov 07 OPC)	1-Oct-07	30-Nov-07	SL_SEEM2	Hrs	301		37,493		37,493	0.0%	0	
2	09	03	05			CF Engineering Support - FY08 (Dec07-Feb08 OPC)	3-Dec-07	29-Feb-08	SL_SEEM2	Hrs	826		102,886		102,886	0.0%	0	
2	09	03	05			AWARD: Dispute Resolution Board - FY07	4-Jun-07	4-Jun-07	SL_AWARD	\$\$		36,750		42,278		42,278	0.0%	0
2	09	03	05			Dispute Resolution Board (FY07)	5-Jun-07	28-Sep-07	SA_MSSF2	\$\$		35,000		36,932		36,932	0.0%	0
2	09	03	05			Management - FY08 (part time OPC)	3-Mar-08	30-Sep-08	SL_SEEM2	Hrs	522		65,020		65,020	0.0%	0	
2	09	03	05			CF OPC Support - FY08	3-Mar-08	30-Jun-08	SL_UTR2	Hrs	1,785		222,339		222,339	0.0%	0	
2	09	03	05			CF Construction Management-FY08 (Oct-Nov07 OPC)	1-Oct-07	30-Nov-07	SL_UTR2	Hrs	903		112,478		112,478	0.0%	0	
2	09	03	05			CF Construction Management-FY08 (Jan-Feb08 OPC)	2-Jan-08	29-Feb-08	SL_UTR2	Hrs	431		53,685		53,685	0.0%	0	
2	09	03	05			CF Construction Management - FY08 (Dec07 OPC)	3-Dec-07	27-Dec-07	SL_UTR2	Hrs	189		23,542		23,542	0.0%	0	