

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
1	1.0	LCLS Project			0	25,550.77 wks	\$29,688,941.14	\$82,730,227.00	\$23,466,677.92	\$135,885,846.06	\$23,096,408.72	\$37,521,300.40	\$196,503,555.19
2	1.1	Project Planning, Management and Administration			0	1,441 wks	\$3,886,920.00	\$4,012,000.00	\$2,972,640.00	\$10,871,560.00	\$1,311,352.00	\$189,210.00	\$12,372,122.00
3	1.1.1	Environment, Safety & Health			0	407 wks	\$579,560.00	\$146,000.00	\$892,320.00	\$1,617,880.00	\$289,696.00	\$38,478.00	\$1,946,054.00
4	1.1.1.1	PED			0	143 wks	\$579,560.00	\$0.00	\$0.00	\$579,560.00	\$102,472.00	\$15,264.00	\$697,296.00
5	1.1.1.1.1	ES&H PED			0	143 wks	\$579,560.00	\$0.00	\$0.00	\$579,560.00	\$102,472.00	\$15,264.00	\$697,296.00
6	1.1.1.1.1	Radiation Physics	SLAC	ED&I	0	77 wks	\$261,800.00	\$0.00	\$0.00	\$261,800.00	\$52,360.00	\$0.00	\$314,160.00
		<i>SLAC Physicist -Scientist</i>		<i>ED&I</i>	0	77 wks	\$0.00	\$0.00	\$0.00	\$261,800.00	\$0.00	\$0.00	\$0.00
7	1.1.1.1.1	ES&H Coordination	SLAC	ED&I	0	66 wks	\$221,760.00	\$0.00	\$0.00	\$221,760.00	\$44,352.00	\$0.00	\$266,112.00
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	0	66 wks	\$0.00	\$0.00	\$0.00	\$221,760.00	\$0.00	\$0.00	\$0.00
8	1.1.1.1.1	Subcontracts	SLAC	M&S	1	0 wks	\$60,000.00	\$0.00	\$0.00	\$60,000.00	\$3,600.00	\$9,540.00	\$73,140.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	60,000	\$0.00	\$0.00	\$0.00	\$60,000.00	\$0.00	\$0.00	\$0.00
9	1.1.1.1.1	M&S	SLAC	M&S	1	0 wks	\$32,000.00	\$0.00	\$0.00	\$32,000.00	\$1,920.00	\$5,088.00	\$39,008.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	32,000	\$0.00	\$0.00	\$0.00	\$32,000.00	\$0.00	\$0.00	\$0.00
10	1.1.1.1.1	Travel	SLAC	M&S	1	0 wks	\$4,000.00	\$0.00	\$0.00	\$4,000.00	\$240.00	\$636.00	\$4,876.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	4,000	\$0.00	\$0.00	\$0.00	\$4,000.00	\$0.00	\$0.00	\$0.00
11	1.1.1.2	ES&H Project			0	264 wks	\$0.00	\$146,000.00	\$892,320.00	\$1,038,320.00	\$187,224.00	\$23,214.00	\$1,248,758.00
12	1.1.1.2.1	Radiation Physics	SLAC	ED&I	0	132 wks	\$0.00	\$0.00	\$448,800.00	\$448,800.00	\$89,760.00	\$0.00	\$538,560.00
		<i>SLAC Physicist -Scientist</i>		<i>ED&I</i>	0	132 wks	\$0.00	\$0.00	\$0.00	\$448,800.00	\$0.00	\$0.00	\$0.00
13	1.1.1.2.1	ES&H Coordination	SLAC	ED&I	0	132 wks	\$0.00	\$0.00	\$443,520.00	\$443,520.00	\$88,704.00	\$0.00	\$532,224.00
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	0	132 wks	\$0.00	\$0.00	\$0.00	\$443,520.00	\$0.00	\$0.00	\$0.00
14	1.1.1.2.1	subcontracts	SLAC	M&S	1	0 wks	\$0.00	\$90,000.00	\$0.00	\$90,000.00	\$5,400.00	\$14,310.00	\$109,710.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	90,000	\$0.00	\$0.00	\$0.00	\$90,000.00	\$0.00	\$0.00	\$0.00
15	1.1.1.2.1	M&S	SLAC	M&S	1	0 wks	\$0.00	\$50,000.00	\$0.00	\$50,000.00	\$3,000.00	\$7,950.00	\$60,950.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	50,000	\$0.00	\$0.00	\$0.00	\$50,000.00	\$0.00	\$0.00	\$0.00
16	1.1.1.2.1	Travel	SLAC	M&S	1	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$954.00	\$7,314.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	6,000	\$0.00	\$0.00	\$0.00	\$6,000.00	\$0.00	\$0.00	\$0.00
17	1.1.2	Construction Project Management			0	1,034 wks	\$3,307,360.00	\$3,866,000.00	\$2,080,320.00	\$9,253,680.00	\$1,021,656.00	\$150,732.00	\$10,426,068.00
18	1.1.2.1	PED			0	374 wks	\$3,307,360.00	\$0.00	\$0.00	\$3,307,360.00	\$373,632.00	\$87,768.00	\$3,768,760.00
19	1.1.2.1.1	Supervis/Coord PED			0	374 wks	\$3,307,360.00	\$0.00	\$0.00	\$3,307,360.00	\$373,632.00	\$87,768.00	\$3,768,760.00
20	1.1.2.1.1	Project Director	SLAC	ED&I	0	88 wks	\$422,400.00	\$0.00	\$0.00	\$422,400.00	\$84,480.00	\$0.00	\$506,880.00
		<i>SLAC Project Management</i>		<i>ED&I</i>	0	88 wks	\$0.00	\$0.00	\$0.00	\$422,400.00	\$0.00	\$0.00	\$0.00
21	1.1.2.1.1	Chief Engineer	SLAC	ED&I	0	88 wks	\$422,400.00	\$0.00	\$0.00	\$422,400.00	\$84,480.00	\$0.00	\$506,880.00
		<i>SLAC Project Management</i>		<i>ED&I</i>	0	88 wks	\$0.00	\$0.00	\$0.00	\$422,400.00	\$0.00	\$0.00	\$0.00
22	1.1.2.1.1	Quality Assurance	SLAC	ED&I	0	66 wks	\$221,760.00	\$0.00	\$0.00	\$221,760.00	\$44,352.00	\$0.00	\$266,112.00
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	0	66 wks	\$0.00	\$0.00	\$0.00	\$221,760.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
23	1.1.2.1.1	Admin	SLAC	ED&I	0	132 wks	\$184,800.00	\$0.00	\$0.00	\$184,800.00	\$36,960.00	\$0.00	\$221,760.00
		SLAC Administration		ED&I	0	132 wks	\$0.00	\$0.00	\$0.00	\$184,800.00	\$0.00	\$0.00	\$0.00
24	1.1.2.1.1	PMCS Support	SLAC	M&S	0	0 wks	\$1,504,000.00	\$0.00	\$0.00	\$1,504,000.00	\$90,240.00	\$0.00	\$1,594,240.00
		SLAC M&S Total		M&S	0	1,504,000	\$0.00	\$0.00	\$0.00	\$1,504,000.00	\$0.00	\$0.00	\$0.00
25	1.1.2.1.1	Subcontracts	SLAC	M&S	1	0 wks	\$400,000.00	\$0.00	\$0.00	\$400,000.00	\$24,000.00	\$63,600.00	\$487,600.00
		SLAC M&S Total		M&S	0	400,000	\$0.00	\$0.00	\$0.00	\$400,000.00	\$0.00	\$0.00	\$0.00
26	1.1.2.1.1	M&S	SLAC	M&S	1	0 wks	\$140,000.00	\$0.00	\$0.00	\$140,000.00	\$8,400.00	\$22,260.00	\$170,660.00
		SLAC M&S Total		M&S	0	140,000	\$0.00	\$0.00	\$0.00	\$140,000.00	\$0.00	\$0.00	\$0.00
27	1.1.2.1.1	Travel	SLAC	M&S	1	0 wks	\$12,000.00	\$0.00	\$0.00	\$12,000.00	\$720.00	\$1,908.00	\$14,628.00
		SLAC M&S Total		M&S	0	12,000	\$0.00	\$0.00	\$0.00	\$12,000.00	\$0.00	\$0.00	\$0.00
28	1.1.2.2	Construction			0	660 wks	\$0.00	\$3,866,000.00	\$2,080,320.00	\$5,946,320.00	\$648,024.00	\$62,964.00	\$6,657,308.00
29	1.1.2.2.1	Supervis/Coord Proj			0	660 wks	\$0.00	\$3,866,000.00	\$2,080,320.00	\$5,946,320.00	\$648,024.00	\$62,964.00	\$6,657,308.00
30	1.1.2.1.1	Project Director	SLAC	ED&I	0	132 wks	\$0.00	\$0.00	\$633,600.00	\$633,600.00	\$126,720.00	\$0.00	\$760,320.00
		SLAC Project Management		ED&I	0	132 wks	\$0.00	\$0.00	\$0.00	\$633,600.00	\$0.00	\$0.00	\$0.00
31	1.1.2.1.1	Chief Engineer	SLAC	ED&I	0	132 wks	\$0.00	\$0.00	\$633,600.00	\$633,600.00	\$126,720.00	\$0.00	\$760,320.00
		SLAC Project Management		ED&I	0	132 wks	\$0.00	\$0.00	\$0.00	\$633,600.00	\$0.00	\$0.00	\$0.00
32	1.1.2.1.1	Quality Assurance	SLAC	ED&I	0	132 wks	\$0.00	\$0.00	\$443,520.00	\$443,520.00	\$88,704.00	\$0.00	\$532,224.00
		SLAC Mechanical Engineer		ED&I	0	132 wks	\$0.00	\$0.00	\$0.00	\$443,520.00	\$0.00	\$0.00	\$0.00
33	1.1.2.1.1	Admin	SLAC	ED&I	0	264 wks	\$0.00	\$0.00	\$369,600.00	\$369,600.00	\$73,920.00	\$0.00	\$443,520.00
		SLAC Administration		ED&I	0	264 wks	\$0.00	\$0.00	\$0.00	\$369,600.00	\$0.00	\$0.00	\$0.00
34	1.1.2.1.1	PMCS Support	SLAC	M&S	0	0 wks	\$0.00	\$2,820,000.00	\$0.00	\$2,820,000.00	\$169,200.00	\$0.00	\$2,989,200.00
		SLAC M&S Total		M&S	0	2,820,000	\$0.00	\$0.00	\$0.00	\$2,820,000.00	\$0.00	\$0.00	\$0.00
35	1.1.2.1.1	Subcontracts	SLAC	M&S	0	0 wks	\$0.00	\$650,000.00	\$0.00	\$650,000.00	\$39,000.00	\$0.00	\$689,000.00
		SLAC M&S Total		M&S	0	650,000	\$0.00	\$0.00	\$0.00	\$650,000.00	\$0.00	\$0.00	\$0.00
36	1.1.2.1.1	M&S	SLAC	M&S	1	0 wks	\$0.00	\$360,000.00	\$0.00	\$360,000.00	\$21,600.00	\$57,240.00	\$438,840.00
		SLAC M&S Total		M&S	0	360,000	\$0.00	\$0.00	\$0.00	\$360,000.00	\$0.00	\$0.00	\$0.00
37	1.1.2.1.1	Travel	SLAC	M&S	1	0 wks	\$0.00	\$36,000.00	\$0.00	\$36,000.00	\$2,160.00	\$5,724.00	\$43,884.00
		SLAC M&S Total		M&S	0	36,000	\$0.00	\$0.00	\$0.00	\$36,000.00	\$0.00	\$0.00	\$0.00
38	1.1.3	Reserved			0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
39	1.2	Electronic Beam Handling Systems			0	11,380.63 wks	\$15,010,759.58	\$37,939,724.00	\$15,890,182.12	\$68,840,665.70	\$10,674,991.08	\$22,149,893.97	\$101,665,550.75
40	1.2.1	Injector			0	3,150.98 wks	\$4,134,868.00	\$5,238,124.00	\$4,528,725.76	\$13,901,717.76	\$2,010,746.19	\$4,498,164.26	\$20,410,628.21
41	1.2.1.1	PED			0	1,407.42 wks	\$4,134,868.00	\$0.00	\$0.00	\$4,134,868.00	\$790,713.60	\$1,579,444.84	\$6,505,026.44
42	1.2.1.1.1	System Integration	SLAC		0	47 wks	\$239,000.00	\$0.00	\$0.00	\$239,000.00	\$35,200.00	\$68,550.00	\$342,750.00
43	1.2.1.1.1.1	Computer Equipment	SLAC	M&S	2	0 wks	\$50,000.00	\$0.00	\$0.00	\$50,000.00	\$3,000.00	\$13,250.00	\$66,250.00
		SLAC M&S Total		M&S	0	50,000	\$0.00	\$0.00	\$0.00	\$50,000.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
44	1.2.1.1.1.2	Travel	SLAC	M&S	2	0 wks	\$40,000.00	\$0.00	\$0.00	\$40,000.00	\$2,400.00	\$10,600.00	\$53,000.00
		SLAC M&S Total		M&S	0	40,000	\$0.00	\$0.00	\$0.00	\$40,000.00	\$0.00	\$0.00	\$0.00
45	1.2.1.1.1.3	Physics	SLAC	ED&I	2	30 wks	\$102,000.00	\$0.00	\$0.00	\$102,000.00	\$20,400.00	\$30,600.00	\$153,000.00
		SLAC Physicist -Scientist		ED&I	0	30 wks	\$0.00	\$0.00	\$0.00	\$102,000.00	\$0.00	\$0.00	\$0.00
46	1.2.1.1.1.4	Engineering	SLAC	ED&I	2	13 wks	\$39,000.00	\$0.00	\$0.00	\$39,000.00	\$7,800.00	\$11,700.00	\$58,500.00
		S LAC Electrical Engineer		ED&I	0	13 wks	\$0.00	\$0.00	\$0.00	\$39,000.00	\$0.00	\$0.00	\$0.00
47	1.2.1.1.1.5	Drafting	SLAC	ED&I	2	4 wks	\$8,000.00	\$0.00	\$0.00	\$8,000.00	\$1,600.00	\$2,400.00	\$12,000.00
		SLAC Controls: Coordinator Assoc.		ED&I	0	4 wks	\$0.00	\$0.00	\$0.00	\$8,000.00	\$0.00	\$0.00	\$0.00
48	1.2.1.1.2	Injector Control System			0	206.4 wks	\$538,688.00	\$0.00	\$0.00	\$538,688.00	\$107,737.60	\$323,212.80	\$969,638.40
49	1.2.1.1.2.1	Hardware Engineer / System Integration	SLAC	ED&I	4	36.4 wks	\$109,200.00	\$0.00	\$0.00	\$109,200.00	\$21,840.00	\$65,520.00	\$196,560.00
		S LAC Electrical Engineer		ED&I	0	36.4 wks	\$0.00	\$0.00	\$0.00	\$109,200.00	\$0.00	\$0.00	\$0.00
50	1.2.1.1.2.2	Software Engineer - Feedbacks	SLAC	ED&I	4	52.8 wks	\$133,393.92	\$0.00	\$0.00	\$133,393.92	\$26,678.78	\$80,036.35	\$240,109.06
		SLAC Controls: Programmer		ED&I	4	52.8 wks	\$0.00	\$0.00	\$0.00	\$133,393.92	\$0.00	\$0.00	\$0.00
51	1.2.1.1.2.3	Software Engineer - Networks	SLAC	ED&I	4	30 wks	\$75,792.00	\$0.00	\$0.00	\$75,792.00	\$15,158.40	\$45,475.20	\$136,425.60
		SLAC Controls: Programmer		ED&I	0	30 wks	\$0.00	\$0.00	\$0.00	\$75,792.00	\$0.00	\$0.00	\$0.00
52	1.2.1.1.2.4	Software Engineer - Interfaces	SLAC	ED&I	4	52.2 wks	\$131,878.08	\$0.00	\$0.00	\$131,878.08	\$26,375.62	\$79,126.85	\$237,380.54
		SLAC Controls: Programmer		ED&I	0	52.2 wks	\$0.00	\$0.00	\$0.00	\$131,878.08	\$0.00	\$0.00	\$0.00
53	1.2.1.1.2.5	Programmer - Database comp. & Comm.	SLAC	ED&I	4	35 wks	\$88,424.00	\$0.00	\$0.00	\$88,424.00	\$17,684.80	\$53,054.40	\$159,163.20
		SLAC Controls: Programmer		ED&I	0	35 wks	\$0.00	\$0.00	\$0.00	\$88,424.00	\$0.00	\$0.00	\$0.00
54	1.2.1.1.3	Vacuum System PED			0	170.4 wks	\$451,824.00	\$0.00	\$0.00	\$451,824.00	\$90,364.80	\$170,026.08	\$712,214.88
55	1.2.1.1.3.1	Vacuum System Engineering	SLAC	ED&I	3	53.4 wks	\$179,424.00	\$0.00	\$0.00	\$179,424.00	\$35,884.80	\$75,358.08	\$290,666.88
		SLAC Mechanical Engineer		ED&I	0	53.4 wks	\$0.00	\$0.00	\$0.00	\$179,424.00	\$0.00	\$0.00	\$0.00
56	1.2.1.1.3.2	Vacuum System Design	SLAC	ED&I	3	40 wks	\$92,000.00	\$0.00	\$0.00	\$92,000.00	\$18,400.00	\$38,640.00	\$149,040.00
		SLAC Mech Drafting/Design		ED&I	0	40 wks	\$0.00	\$0.00	\$0.00	\$92,000.00	\$0.00	\$0.00	\$0.00
57	1.2.1.1.3.3	Component layouts,details,assemblies	SLAC	ED&I	3	10 wks	\$23,000.00	\$0.00	\$0.00	\$23,000.00	\$4,600.00	\$9,660.00	\$37,260.00
		SLAC Mech Drafting/Design		ED&I	0	10 wks	\$0.00	\$0.00	\$0.00	\$23,000.00	\$0.00	\$0.00	\$0.00
58	1.2.1.1.3.4	Support layouts,details,assemblies	SLAC	ED&I	3	48 wks	\$110,400.00	\$0.00	\$0.00	\$110,400.00	\$22,080.00	\$46,368.00	\$178,848.00
		SLAC Mech Drafting/Design		ED&I	0	48 wks	\$0.00	\$0.00	\$0.00	\$110,400.00	\$0.00	\$0.00	\$0.00
59	1.2.1.1.3.5	Hardware Engineering	SLAC	ED&I	0	9 wks	\$27,000.00	\$0.00	\$0.00	\$27,000.00	\$5,400.00	\$0.00	\$32,400.00
		S LAC Electrical Engineer		ED&I	0	9 wks	\$0.00	\$0.00	\$0.00	\$27,000.00	\$0.00	\$0.00	\$0.00
60	1.2.1.1.3.6	Coordination & Layout	SLAC	ED&I	0	10 wks	\$20,000.00	\$0.00	\$0.00	\$20,000.00	\$4,000.00	\$0.00	\$24,000.00
		SLAC Controls: Coordinator Assoc.		ED&I	0	10 wks	\$0.00	\$0.00	\$0.00	\$20,000.00	\$0.00	\$0.00	\$0.00
61	1.2.1.1.4	Reserved			0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
62	1.2.1.1.4.1	Area layouts/raceways/supports	SLAC	ED&I	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		SLAC PCD:Engineer		ED&I	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
63	1.2.1.1.4.2	System dwg (EI,WD,Profile,CC&contrac.)	SLAC	ED&I	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		SLAC Mech Drafting/Design		ED&I	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
64	1.2.1.1.5	PPS PED			0	15.97 wks	\$39,440.00	\$0.00	\$0.00	\$39,440.00	\$7,888.00	\$11,832.00	\$59,160.00
65	1.2.1.1.5.1	PPS Design Engineering	SLAC	ED&I	2	7.5 wks	\$22,500.00	\$0.00	\$0.00	\$22,500.00	\$4,500.00	\$6,750.00	\$33,750.00
		S LAC Electrical Engineer		ED&I	0	7.5 wks	\$0.00	\$0.00	\$0.00	\$22,500.00	\$0.00	\$0.00	\$0.00
66	1.2.1.1.5.2	PPS Design Drafting	SLAC	ED&I	2	5.22 wks	\$10,440.00	\$0.00	\$0.00	\$10,440.00	\$2,088.00	\$3,132.00	\$15,660.00
		SLAC Controls: Coordinator Assoc.		ED&I	0	5.22 wks	\$0.00	\$0.00	\$0.00	\$10,440.00	\$0.00	\$0.00	\$0.00
67	1.2.1.1.5.3	Beam stopper drafting	SLAC	ED&I	2	1.5 wks	\$3,000.00	\$0.00	\$0.00	\$3,000.00	\$600.00	\$900.00	\$4,500.00
		SLAC Controls: Coordinator Assoc.		ED&I	0	1.5 wks	\$0.00	\$0.00	\$0.00	\$3,000.00	\$0.00	\$0.00	\$0.00
68	1.2.1.1.5.4	Beam stopper design	SLAC	ED&I	2	1.75 wks	\$3,500.00	\$0.00	\$0.00	\$3,500.00	\$700.00	\$1,050.00	\$5,250.00
		SLAC Controls: Coordinator Assoc.		ED&I	0	1.75 wks	\$0.00	\$0.00	\$0.00	\$3,500.00	\$0.00	\$0.00	\$0.00
69	1.2.1.1.6	Gun Load Lock			0	103 wks	\$294,080.00	\$0.00	\$0.00	\$294,080.00	\$58,816.00	\$98,304.00	\$451,200.00
70	1.2.1.1.6.1	Physics	SLAC	ED&I	2	25 wks	\$85,000.00	\$0.00	\$0.00	\$85,000.00	\$17,000.00	\$25,500.00	\$127,500.00
		SLAC Physicist - Scientist		ED&I	0	25 wks	\$0.00	\$0.00	\$0.00	\$85,000.00	\$0.00	\$0.00	\$0.00
71	1.2.1.1.6.2	Load Lock Design	SLAC	ED&I	3	25 wks	\$84,000.00	\$0.00	\$0.00	\$84,000.00	\$16,800.00	\$35,280.00	\$136,080.00
		SLAC AD: Mech/Vacuum Engineer		ED&I	0	25 wks	\$0.00	\$0.00	\$0.00	\$84,000.00	\$0.00	\$0.00	\$0.00
72	1.2.1.1.6.3	Load Lock Drafting	SLAC	ED&I	2	50 wks	\$115,000.00	\$0.00	\$0.00	\$115,000.00	\$23,000.00	\$34,500.00	\$172,500.00
		SLAC Mech Drafting/Design		ED&I	0	50 wks	\$0.00	\$0.00	\$0.00	\$115,000.00	\$0.00	\$0.00	\$0.00
73	1.2.1.1.6.4	Load Lock Support Design	SLAC	ED&I	2	2 wks	\$6,720.00	\$0.00	\$0.00	\$6,720.00	\$1,344.00	\$2,016.00	\$10,080.00
		SLAC AD: Mech/Vacuum Engineer		ED&I	0	2 wks	\$0.00	\$0.00	\$0.00	\$6,720.00	\$0.00	\$0.00	\$0.00
74	1.2.1.1.6.5	Load Lock Support Drafting	SLAC	ED&I	2	1 wk	\$3,360.00	\$0.00	\$0.00	\$3,360.00	\$672.00	\$1,008.00	\$5,040.00
		SLAC AD: Mech/Vacuum Engineer		ED&I	0	1 wk	\$0.00	\$0.00	\$0.00	\$3,360.00	\$0.00	\$0.00	\$0.00
75	1.2.1.1.7	Bend Magnets - 5D7.1			0	17 wks	\$44,400.00	\$0.00	\$0.00	\$44,400.00	\$8,880.00	\$13,320.00	\$66,600.00
76	1.2.1.1.7.1	Magnetic Modeling	SLAC	ED&I	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		SLAC Mechanical Engineer		ED&I	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
77	1.2.1.1.7.2	Magnet Design	SLAC	ED&I	2	3 wks	\$10,080.00	\$0.00	\$0.00	\$10,080.00	\$2,016.00	\$3,024.00	\$15,120.00
		SLAC AD: Mech/Vacuum Engineer		ED&I	0	3 wks	\$0.00	\$0.00	\$0.00	\$10,080.00	\$0.00	\$0.00	\$0.00
78	1.2.1.1.7.3	Magnet Drafting	SLAC	ED&I	2	8 wks	\$18,400.00	\$0.00	\$0.00	\$18,400.00	\$3,680.00	\$5,520.00	\$27,600.00
		SLAC Mech Drafting/Design		ED&I	0	8 wks	\$0.00	\$0.00	\$0.00	\$18,400.00	\$0.00	\$0.00	\$0.00
79	1.2.1.1.7.4	Magnet Support Design	SLAC	ED&I	2	2 wks	\$6,720.00	\$0.00	\$0.00	\$6,720.00	\$1,344.00	\$2,016.00	\$10,080.00
		SLAC Mechanical Engineer		ED&I	0	2 wks	\$0.00	\$0.00	\$0.00	\$6,720.00	\$0.00	\$0.00	\$0.00
80	1.2.1.1.7.5	Magnet Support Drafting	SLAC	ED&I	2	4 wks	\$9,200.00	\$0.00	\$0.00	\$9,200.00	\$1,840.00	\$2,760.00	\$13,800.00
		SLAC Mech Drafting/Design		ED&I	0	4 wks	\$0.00	\$0.00	\$0.00	\$9,200.00	\$0.00	\$0.00	\$0.00
81	1.2.1.1.8	Quadrupoles - 1Q5.6			0	16 wks	\$43,160.00	\$0.00	\$0.00	\$43,160.00	\$8,632.00	\$12,948.00	\$64,740.00
82	1.2.1.1.8.1	Magnetic Modeling	SLAC	ED&I	2	2 wks	\$6,720.00	\$0.00	\$0.00	\$6,720.00	\$1,344.00	\$2,016.00	\$10,080.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	0	2 wks	\$0.00	\$0.00	\$0.00	\$6,720.00	\$0.00	\$0.00	\$0.00
83	1.2.1.1.8.2	Magnet Design	SLAC	ED&I	2	3 wks	\$10,080.00	\$0.00	\$0.00	\$10,080.00	\$2,016.00	\$3,024.00	\$15,120.00
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	0	3 wks	\$0.00	\$0.00	\$0.00	\$10,080.00	\$0.00	\$0.00	\$0.00
84	1.2.1.1.8.3	Magnet Drafting	SLAC	ED&I	2	8 wks	\$18,400.00	\$0.00	\$0.00	\$18,400.00	\$3,680.00	\$5,520.00	\$27,600.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	0	8 wks	\$0.00	\$0.00	\$0.00	\$18,400.00	\$0.00	\$0.00	\$0.00
85	1.2.1.1.8.4	Magnet Support Design	SLAC	ED&I	2	1 wk	\$3,360.00	\$0.00	\$0.00	\$3,360.00	\$672.00	\$1,008.00	\$5,040.00
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$3,360.00	\$0.00	\$0.00	\$0.00
86	1.2.1.1.8.5	Magnet Support Drafting	SLAC	ED&I	2	2 wks	\$4,600.00	\$0.00	\$0.00	\$4,600.00	\$920.00	\$1,380.00	\$6,900.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	0	2 wks	\$0.00	\$0.00	\$0.00	\$4,600.00	\$0.00	\$0.00	\$0.00
87	1.2.1.1.9	Gun Solenoid			0	46 wks	\$125,080.00	\$0.00	\$0.00	\$125,080.00	\$25,016.00	\$22,514.40	\$172,610.40
88	1.2.1.1.9.1	Physics	SLAC	ED&I	1	5 wks	\$17,000.00	\$0.00	\$0.00	\$17,000.00	\$3,400.00	\$3,060.00	\$23,460.00
		<i>SLAC Physicist - Senior Scientist</i>		<i>ED&I</i>	0	5 wks	\$0.00	\$0.00	\$0.00	\$17,000.00	\$0.00	\$0.00	\$0.00
89	1.2.1.1.9.2	Magnet Design	SLAC	ED&I	1	8 wks	\$26,880.00	\$0.00	\$0.00	\$26,880.00	\$5,376.00	\$4,838.40	\$37,094.40
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	0	8 wks	\$0.00	\$0.00	\$0.00	\$26,880.00	\$0.00	\$0.00	\$0.00
90	1.2.1.1.9.3	Magnet Drafting	SLAC	ED&I	1	18 wks	\$41,400.00	\$0.00	\$0.00	\$41,400.00	\$8,280.00	\$7,452.00	\$57,132.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	0	18 wks	\$0.00	\$0.00	\$0.00	\$41,400.00	\$0.00	\$0.00	\$0.00
91	1.2.1.1.9.4	Magnet Support Design	SLAC	ED&I	1	5 wks	\$16,800.00	\$0.00	\$0.00	\$16,800.00	\$3,360.00	\$3,024.00	\$23,184.00
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	0	5 wks	\$0.00	\$0.00	\$0.00	\$16,800.00	\$0.00	\$0.00	\$0.00
92	1.2.1.1.9.5	Magnet Support Drafting	SLAC	ED&I	1	10 wks	\$23,000.00	\$0.00	\$0.00	\$23,000.00	\$4,600.00	\$4,140.00	\$31,740.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	0	10 wks	\$0.00	\$0.00	\$0.00	\$23,000.00	\$0.00	\$0.00	\$0.00
93	1.2.1.1.10	Linac Solenoid			0	65 wks	\$181,500.00	\$0.00	\$0.00	\$181,500.00	\$36,300.00	\$54,450.00	\$272,250.00
94	1.2.1.1.10.1	Physics	SLAC	ED&I	2	5 wks	\$17,000.00	\$0.00	\$0.00	\$17,000.00	\$3,400.00	\$5,100.00	\$25,500.00
		<i>SLAC Physicist -Scientist</i>		<i>ED&I</i>	0	5 wks	\$0.00	\$0.00	\$0.00	\$17,000.00	\$0.00	\$0.00	\$0.00
95	1.2.1.1.10.2	Magnet Design	SLAC	ED&I	2	12.5 wks	\$42,000.00	\$0.00	\$0.00	\$42,000.00	\$8,400.00	\$12,600.00	\$63,000.00
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	0	12.5 wks	\$0.00	\$0.00	\$0.00	\$42,000.00	\$0.00	\$0.00	\$0.00
96	1.2.1.1.10.3	Magnet Drafting	SLAC	ED&I	2	25 wks	\$57,500.00	\$0.00	\$0.00	\$57,500.00	\$11,500.00	\$17,250.00	\$86,250.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	0	25 wks	\$0.00	\$0.00	\$0.00	\$57,500.00	\$0.00	\$0.00	\$0.00
97	1.2.1.1.10.4	Magnet Support Design	SLAC	ED&I	2	12.5 wks	\$42,000.00	\$0.00	\$0.00	\$42,000.00	\$8,400.00	\$12,600.00	\$63,000.00
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	0	12.5 wks	\$0.00	\$0.00	\$0.00	\$42,000.00	\$0.00	\$0.00	\$0.00
98	1.2.1.1.10.5	Magnet Support Drafting	SLAC	ED&I	2	10 wks	\$23,000.00	\$0.00	\$0.00	\$23,000.00	\$4,600.00	\$6,900.00	\$34,500.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	0	10 wks	\$0.00	\$0.00	\$0.00	\$23,000.00	\$0.00	\$0.00	\$0.00
99	1.2.1.1.11	Correctors			0	23 wks	\$60,320.00	\$0.00	\$0.00	\$60,320.00	\$12,064.00	\$18,096.00	\$90,480.00
100	1.2.1.1.11.1	Magnetic Modeling	SLAC	ED&I	2	1 wk	\$3,360.00	\$0.00	\$0.00	\$3,360.00	\$672.00	\$1,008.00	\$5,040.00
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$3,360.00	\$0.00	\$0.00	\$0.00
101	1.2.1.1.11.2	Magnet Design	SLAC	ED&I	2	4 wks	\$13,440.00	\$0.00	\$0.00	\$13,440.00	\$2,688.00	\$4,032.00	\$20,160.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	0	4 wks	\$0.00	\$0.00	\$0.00	\$13,440.00	\$0.00	\$0.00	\$0.00
102	1.2.1.1.11.3	Magnet Drafting	SLAC	ED&I	2	8 wks	\$18,400.00	\$0.00	\$0.00	\$18,400.00	\$3,680.00	\$5,520.00	\$27,600.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	0	8 wks	\$0.00	\$0.00	\$0.00	\$18,400.00	\$0.00	\$0.00	\$0.00
103	1.2.1.1.11.4	Magnet Support Design	SLAC	ED&I	2	2 wks	\$6,720.00	\$0.00	\$0.00	\$6,720.00	\$1,344.00	\$2,016.00	\$10,080.00
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	0	2 wks	\$0.00	\$0.00	\$0.00	\$6,720.00	\$0.00	\$0.00	\$0.00
104	1.2.1.1.11.5	Magnet Support Drafting	SLAC	ED&I	2	8 wks	\$18,400.00	\$0.00	\$0.00	\$18,400.00	\$3,680.00	\$5,520.00	\$27,600.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	0	8 wks	\$0.00	\$0.00	\$0.00	\$18,400.00	\$0.00	\$0.00	\$0.00
105	1.2.1.1.12	Gun E Spectrometer			0	17 wks	\$44,400.00	\$0.00	\$0.00	\$44,400.00	\$8,880.00	\$13,320.00	\$66,600.00
106	1.2.1.1.12.1	Magnet Design	SLAC	ED&I	2	3 wks	\$10,080.00	\$0.00	\$0.00	\$10,080.00	\$2,016.00	\$3,024.00	\$15,120.00
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	0	3 wks	\$0.00	\$0.00	\$0.00	\$10,080.00	\$0.00	\$0.00	\$0.00
107	1.2.1.1.12.2	Magnet Drafting	SLAC	ED&I	2	8 wks	\$18,400.00	\$0.00	\$0.00	\$18,400.00	\$3,680.00	\$5,520.00	\$27,600.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	0	8 wks	\$0.00	\$0.00	\$0.00	\$18,400.00	\$0.00	\$0.00	\$0.00
108	1.2.1.1.12.3	Magnet Support Design	SLAC	ED&I	2	2 wks	\$6,720.00	\$0.00	\$0.00	\$6,720.00	\$1,344.00	\$2,016.00	\$10,080.00
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	0	2 wks	\$0.00	\$0.00	\$0.00	\$6,720.00	\$0.00	\$0.00	\$0.00
109	1.2.1.1.12.4	Magnet Support Drafting	SLAC	ED&I	2	4 wks	\$9,200.00	\$0.00	\$0.00	\$9,200.00	\$1,840.00	\$2,760.00	\$13,800.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	0	4 wks	\$0.00	\$0.00	\$0.00	\$9,200.00	\$0.00	\$0.00	\$0.00
110	1.2.1.1.13	Straight Ahead E Spectrometer			0	17 wks	\$44,400.00	\$0.00	\$0.00	\$44,400.00	\$8,880.00	\$13,320.00	\$66,600.00
111	1.2.1.1.13.1	Magnet Design	SLAC	ED&I	2	3 wks	\$10,080.00	\$0.00	\$0.00	\$10,080.00	\$2,016.00	\$3,024.00	\$15,120.00
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	0	3 wks	\$0.00	\$0.00	\$0.00	\$10,080.00	\$0.00	\$0.00	\$0.00
112	1.2.1.1.13.2	Magnet Drafting	SLAC	ED&I	2	8 wks	\$18,400.00	\$0.00	\$0.00	\$18,400.00	\$3,680.00	\$5,520.00	\$27,600.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	0	8 wks	\$0.00	\$0.00	\$0.00	\$18,400.00	\$0.00	\$0.00	\$0.00
113	1.2.1.1.13.3	Magnet Support Design	SLAC	ED&I	2	2 wks	\$6,720.00	\$0.00	\$0.00	\$6,720.00	\$1,344.00	\$2,016.00	\$10,080.00
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	0	2 wks	\$0.00	\$0.00	\$0.00	\$6,720.00	\$0.00	\$0.00	\$0.00
114	1.2.1.1.13.4	Magnet Support Drafting	SLAC	ED&I	2	4 wks	\$9,200.00	\$0.00	\$0.00	\$9,200.00	\$1,840.00	\$2,760.00	\$13,800.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	0	4 wks	\$0.00	\$0.00	\$0.00	\$9,200.00	\$0.00	\$0.00	\$0.00
115	1.2.1.1.14	Gun			0	100 wks	\$293,540.00	\$0.00	\$0.00	\$293,540.00	\$58,708.00	\$115,242.00	\$467,490.00
116	1.2.1.1.14.1	Physics	SLAC	ED&I	3	25 wks	\$85,000.00	\$0.00	\$0.00	\$85,000.00	\$17,000.00	\$35,700.00	\$137,700.00
		<i>SLAC Physicist - Scientist</i>		<i>ED&I</i>	0	25 wks	\$0.00	\$0.00	\$0.00	\$85,000.00	\$0.00	\$0.00	\$0.00
117	1.2.1.1.14.2	Gun Design	SLAC	ED&I	3	25 wks	\$84,000.00	\$0.00	\$0.00	\$84,000.00	\$16,800.00	\$35,280.00	\$136,080.00
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	0	25 wks	\$0.00	\$0.00	\$0.00	\$84,000.00	\$0.00	\$0.00	\$0.00
118	1.2.1.1.14.3	Gun Drafting	SLAC	ED&I	3	25 wks	\$57,500.00	\$0.00	\$0.00	\$57,500.00	\$11,500.00	\$24,150.00	\$93,150.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	0	25 wks	\$0.00	\$0.00	\$0.00	\$57,500.00	\$0.00	\$0.00	\$0.00
119	1.2.1.1.14.4	Gun Support Design	SLAC	ED&I	2	6 wks	\$20,160.00	\$0.00	\$0.00	\$20,160.00	\$4,032.00	\$6,048.00	\$30,240.00
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	0	6 wks	\$0.00	\$0.00	\$0.00	\$20,160.00	\$0.00	\$0.00	\$0.00
120	1.2.1.1.14.5	Gun Support Drafting	SLAC	ED&I	2	10 wks	\$23,000.00	\$0.00	\$0.00	\$23,000.00	\$4,600.00	\$6,900.00	\$34,500.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	0	10 wks	\$0.00	\$0.00	\$0.00	\$23,000.00	\$0.00	\$0.00	\$0.00
121	1.2.1.1.14.6	Gun Waveguide Design	SLAC	ED&I	2	3 wks	\$10,080.00	\$0.00	\$0.00	\$10,080.00	\$2,016.00	\$3,024.00	\$15,120.00
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	0	3 wks	\$0.00	\$0.00	\$0.00	\$10,080.00	\$0.00	\$0.00	\$0.00
122	1.2.1.1.14.7	Gun Waveguide Drafting	SLAC	ED&I	2	6 wks	\$13,800.00	\$0.00	\$0.00	\$13,800.00	\$2,760.00	\$4,140.00	\$20,700.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	0	6 wks	\$0.00	\$0.00	\$0.00	\$13,800.00	\$0.00	\$0.00	\$0.00
123	1.2.1.1.15	Accelerator Structures			0	19 wks	\$60,240.00	\$0.00	\$0.00	\$60,240.00	\$12,048.00	\$18,072.00	\$90,360.00
124	1.2.1.1.15.1	Structure Support Design (all injector)	SLAC		2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
125	1.2.1.1.15.2	Structure Support Drafting (all injector)	SLAC		2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
126	1.2.1.1.15.3	Modulator Refurbish PED (all stations)	SLAC		2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
127	1.2.1.1.15.4	Solid State Subbooster PED (all stations)	SLAC		2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
128	1.2.1.1.15.5	Controls Interface PED (all stations)	SLAC	ED&I	2	10 wks	\$30,000.00	\$0.00	\$0.00	\$30,000.00	\$6,000.00	\$9,000.00	\$45,000.00
		<i>S LAC Electrical Engineer</i>		<i>ED&I</i>	0	10 wks	\$0.00	\$0.00	\$0.00	\$30,000.00	\$0.00	\$0.00	\$0.00
129	1.2.1.1.15.6	Structure Waveguide Design	SLAC	ED&I	2	3 wks	\$10,080.00	\$0.00	\$0.00	\$10,080.00	\$2,016.00	\$3,024.00	\$15,120.00
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	0	3 wks	\$0.00	\$0.00	\$0.00	\$10,080.00	\$0.00	\$0.00	\$0.00
130	1.2.1.1.15.7	Structure Waveguide Drafting	SLAC	ED&I	2	6 wks	\$20,160.00	\$0.00	\$0.00	\$20,160.00	\$4,032.00	\$6,048.00	\$30,240.00
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	0	6 wks	\$0.00	\$0.00	\$0.00	\$20,160.00	\$0.00	\$0.00	\$0.00
131	1.2.1.1.16	Transverse RF Structure			0	9 wks	\$23,880.00	\$0.00	\$0.00	\$23,880.00	\$4,776.00	\$7,164.00	\$35,820.00
132	1.2.1.1.16.1	Structure Waveguide Design	SLAC	ED&I	2	3 wks	\$10,080.00	\$0.00	\$0.00	\$10,080.00	\$2,016.00	\$3,024.00	\$15,120.00
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	0	3 wks	\$0.00	\$0.00	\$0.00	\$10,080.00	\$0.00	\$0.00	\$0.00
133	1.2.1.1.16.2	Structure Waveguide Drafting	SLAC	ED&I	2	6 wks	\$13,800.00	\$0.00	\$0.00	\$13,800.00	\$2,760.00	\$4,140.00	\$20,700.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	0	6 wks	\$0.00	\$0.00	\$0.00	\$13,800.00	\$0.00	\$0.00	\$0.00
134	1.2.1.1.17	RF Distribution System			0	263.6 wks	\$909,482.00	\$0.00	\$0.00	\$909,482.00	\$158,236.40	\$347,656.48	\$1,415,374.88
135	1.2.1.1.17.1	System RF Design	SLAC		0	228 wks	\$810,060.40	\$0.00	\$0.00	\$810,060.40	\$138,352.08	\$317,830.00	\$1,266,242.48
136	1.2.1.1.17.1	System Drawings	SLAC	ED&I	2	50 wks	\$115,000.00	\$0.00	\$0.00	\$115,000.00	\$23,000.00	\$34,500.00	\$172,500.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	0	50 wks	\$0.00	\$0.00	\$0.00	\$115,000.00	\$0.00	\$0.00	\$0.00
137	1.2.1.1.17.1	System Drawings	SLAC	ED&I	2	10 wks	\$28,932.00	\$0.00	\$0.00	\$28,932.00	\$5,786.40	\$8,679.60	\$43,398.00
		<i>SLAC Klystron: Engineer</i>		<i>ED&I</i>	0	10 wks	\$0.00	\$0.00	\$0.00	\$28,932.00	\$0.00	\$0.00	\$0.00
138	1.2.1.1.17.1	LCLS Oscillator	SLAC	ED&I	3	24 wks	\$69,436.80	\$0.00	\$0.00	\$69,436.80	\$13,887.36	\$29,163.46	\$112,487.62
		<i>SLAC Klystron: Engineer</i>		<i>ED&I</i>	0	24 wks	\$0.00	\$0.00	\$0.00	\$69,436.80	\$0.00	\$0.00	\$0.00
139	1.2.1.1.17.1	LCLS Oscillator	SLAC	M&S	3	0 wks	\$20,000.00	\$0.00	\$0.00	\$20,000.00	\$1,200.00	\$7,420.00	\$28,620.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	20,000	\$0.00	\$0.00	\$0.00	\$20,000.00	\$0.00	\$0.00	\$0.00
140	1.2.1.1.17.1	2.8MHz Fiducial Design	SLAC	ED&I	3	4 wks	\$11,788.80	\$0.00	\$0.00	\$11,788.80	\$2,357.76	\$4,951.30	\$19,097.86
		<i>SLAC Controls: Engineer</i>		<i>ED&I</i>	0	4 wks	\$0.00	\$0.00	\$0.00	\$11,788.80	\$0.00	\$0.00	\$0.00
141	1.2.1.1.17.1	SLD Countdown	SLAC	ED&I	2	4 wks	\$11,572.80	\$0.00	\$0.00	\$11,572.80	\$2,314.56	\$3,471.84	\$17,359.20
		<i>SLAC Klystron: Engineer</i>		<i>ED&I</i>	0	4 wks	\$0.00	\$0.00	\$0.00	\$11,572.80	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
142	1.2.1.1.17.1	MTG Modifications	SLAC	ED&I	3	12 wks	\$35,366.40	\$0.00	\$0.00	\$35,366.40	\$7,073.28	\$14,853.89	\$57,293.57
		<i>SLAC Controls: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>12 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35,366.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
143	1.2.1.1.17.1	RF Distribution L0, L1	SLAC	ED&I	2	2 wks	\$5,786.40	\$0.00	\$0.00	\$5,786.40	\$1,157.28	\$1,735.92	\$8,679.60
		<i>SLAC Klystron: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,786.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
144	1.2.1.1.17.1	Laser Phase Locking Chassis	SLAC	ED&I	2	16 wks	\$46,291.20	\$0.00	\$0.00	\$46,291.20	\$9,258.24	\$13,887.36	\$69,436.80
		<i>SLAC Klystron: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>16 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$46,291.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
145	1.2.1.1.17.1	Laser Phase Locking Chassis	SLAC	M&S	2	0 wks	\$20,000.00	\$0.00	\$0.00	\$20,000.00	\$1,200.00	\$5,300.00	\$26,500.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>20,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$20,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
146	1.2.1.1.17.1	Optical Detectors	SLAC	ED&I	2	4 wks	\$11,572.80	\$0.00	\$0.00	\$11,572.80	\$2,314.56	\$3,471.84	\$17,359.20
		<i>SLAC Klystron: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,572.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
147	1.2.1.1.17.1	Optical Detectors	SLAC	M&S	2	0 wks	\$10,000.00	\$0.00	\$0.00	\$10,000.00	\$600.00	\$2,650.00	\$13,250.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
148	1.2.1.1.17.1	Beam Phase / Length Detector	SLAC	ED&I	4	20 wks	\$68,000.00	\$0.00	\$0.00	\$68,000.00	\$13,600.00	\$40,800.00	\$122,400.00
		<i>SLAC Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>20 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$68,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
149	1.2.1.1.17.1	Beam Phase / Length Detector	SLAC	M&S	4	0 wks	\$80,000.00	\$0.00	\$0.00	\$80,000.00	\$4,800.00	\$42,400.00	\$127,200.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>80,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$80,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
150	1.2.1.1.17.1	Distribution Amplifier	SLAC	ED&I	2	5 wks	\$14,466.00	\$0.00	\$0.00	\$14,466.00	\$2,893.20	\$4,339.80	\$21,699.00
		<i>SLAC Klystron: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$14,466.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
151	1.2.1.1.17.1	S-Band Phase Measurement	SLAC	ED&I	2	12 wks	\$34,718.40	\$0.00	\$0.00	\$34,718.40	\$6,943.68	\$10,415.52	\$52,077.60
		<i>SLAC Klystron: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>12 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$34,718.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
152	1.2.1.1.17.1	S-Band Phase Measurement	SLAC	M&S	2	0 wks	\$15,000.00	\$0.00	\$0.00	\$15,000.00	\$900.00	\$3,975.00	\$19,875.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>15,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$15,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
153	1.2.1.1.17.1	DAC, SAM Breakout	SLAC	ED&I	2	4 wks	\$11,572.80	\$0.00	\$0.00	\$11,572.80	\$2,314.56	\$3,471.84	\$17,359.20
		<i>SLAC Klystron: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,572.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
154	1.2.1.1.17.1	DAC, SAM Breakout	SLAC	M&S	2	0 wks	\$4,000.00	\$0.00	\$0.00	\$4,000.00	\$240.00	\$1,060.00	\$5,300.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
155	1.2.1.1.17.1	Sec. 20 Enclosure	SLAC	ED&I	2	1 wk	\$2,424.00	\$0.00	\$0.00	\$2,424.00	\$484.80	\$727.20	\$3,636.00
		<i>SLAC Site Engineering: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,424.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
156	1.2.1.1.17.1	Solid State Subbooster	SLAC	ED&I	3	50 wks	\$144,660.00	\$0.00	\$0.00	\$144,660.00	\$28,932.00	\$60,757.20	\$234,349.20
		<i>SLAC Klystron: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>50 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$144,660.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
157	1.2.1.1.17.1	Solid State Subbooster	SLAC	M&S	3	0 wks	\$20,000.00	\$0.00	\$0.00	\$20,000.00	\$1,200.00	\$7,420.00	\$28,620.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>20,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$20,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
158	1.2.1.1.17.1	Modulator	SLAC	ED&I	3	10 wks	\$29,472.00	\$0.00	\$0.00	\$29,472.00	\$5,894.40	\$12,378.24	\$47,744.64
		<i>SLAC Controls: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>10 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$29,472.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
159	1.2.1.1.17.2	Controls Design	SLAC	ED&I	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC Controls: Engineer</i>		<i>ED&I</i>	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
160	1.2.1.1.17.3	Drafting	SLAC	ED&I	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
161	1.2.1.1.17.4	Sector 20 RF Hut design	SLAC		2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
162	1.2.1.1.17.5	RF Controls Design Engineering	SLAC	ED&I	2	10.1 wks	\$30,300.00	\$0.00	\$0.00	\$30,300.00	\$6,060.00	\$9,090.00	\$45,450.00
		<i>S LAC Electrical Engineer</i>		<i>ED&I</i>	0	10.1 wks	\$0.00	\$0.00	\$0.00	\$30,300.00	\$0.00	\$0.00	\$0.00
163	1.2.1.1.17.6	RF Controls Hardware Engineering	SLAC	ED&I	2	14.7 wks	\$44,100.00	\$0.00	\$0.00	\$44,100.00	\$8,820.00	\$13,230.00	\$66,150.00
		<i>S LAC Electrical Engineer</i>		<i>ED&I</i>	0	14.7 wks	\$0.00	\$0.00	\$0.00	\$44,100.00	\$0.00	\$0.00	\$0.00
164	1.2.1.1.17.6	RF Controls Software Engineering	SLAC	ED&I	2	6.5 wks	\$16,421.60	\$0.00	\$0.00	\$16,421.60	\$3,284.32	\$4,926.48	\$24,632.40
		<i>SLAC Controls: Programmer</i>		<i>ED&I</i>	0	6.5 wks	\$0.00	\$0.00	\$0.00	\$16,421.60	\$0.00	\$0.00	\$0.00
165	1.2.1.1.17.8	RF Controls Coordintaion & Doc.	SLAC	ED&I	2	4.3 wks	\$8,600.00	\$0.00	\$0.00	\$8,600.00	\$1,720.00	\$2,580.00	\$12,900.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	0	4.3 wks	\$0.00	\$0.00	\$0.00	\$8,600.00	\$0.00	\$0.00	\$0.00
166	1.2.1.1.26	Alignment Laser			0	11.5 wks	\$31,800.00	\$0.00	\$0.00	\$31,800.00	\$6,360.00	\$10,260.00	\$48,420.00
167	1.2.1.1.26.1	Alignment Laser Design	SLAC	ED&I	2	4 wks	\$13,600.00	\$0.00	\$0.00	\$13,600.00	\$2,720.00	\$4,080.00	\$20,400.00
		<i>SLAC Physicist -Scientist</i>		<i>ED&I</i>	0	4 wks	\$0.00	\$0.00	\$0.00	\$13,600.00	\$0.00	\$0.00	\$0.00
168	1.2.1.1.26.2	Alignment Laser Drafting	SLAC	ED&I	2	4 wks	\$9,200.00	\$0.00	\$0.00	\$9,200.00	\$1,840.00	\$2,760.00	\$13,800.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	0	4 wks	\$0.00	\$0.00	\$0.00	\$9,200.00	\$0.00	\$0.00	\$0.00
169	1.2.1.1.26.3	Hardware Engineering	SLAC	ED&I	3	2 wks	\$6,000.00	\$0.00	\$0.00	\$6,000.00	\$1,200.00	\$2,520.00	\$9,720.00
		<i>S LAC Electrical Engineer</i>		<i>ED&I</i>	0	2 wks	\$0.00	\$0.00	\$0.00	\$6,000.00	\$0.00	\$0.00	\$0.00
170	1.2.1.1.26.4	Coordination & Layout	SLAC	ED&I	2	1.5 wks	\$3,000.00	\$0.00	\$0.00	\$3,000.00	\$600.00	\$900.00	\$4,500.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	0	1.5 wks	\$0.00	\$0.00	\$0.00	\$3,000.00	\$0.00	\$0.00	\$0.00
171	1.2.1.1.18	Wire Scanners			0	23.9 wks	\$62,340.00	\$0.00	\$0.00	\$62,340.00	\$12,468.00	\$18,702.00	\$93,510.00
172	1.2.1.1.18.1	WS Design	SLAC	ED&I	2	2 wks	\$6,720.00	\$0.00	\$0.00	\$6,720.00	\$1,344.00	\$2,016.00	\$10,080.00
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	0	2 wks	\$0.00	\$0.00	\$0.00	\$6,720.00	\$0.00	\$0.00	\$0.00
173	1.2.1.1.18.2	WS Drafting	SLAC	ED&I	2	6 wks	\$13,800.00	\$0.00	\$0.00	\$13,800.00	\$2,760.00	\$4,140.00	\$20,700.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	0	6 wks	\$0.00	\$0.00	\$0.00	\$13,800.00	\$0.00	\$0.00	\$0.00
174	1.2.1.1.18.3	WS Support Design	SLAC	ED&I	2	2 wks	\$6,720.00	\$0.00	\$0.00	\$6,720.00	\$1,344.00	\$2,016.00	\$10,080.00
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	0	2 wks	\$0.00	\$0.00	\$0.00	\$6,720.00	\$0.00	\$0.00	\$0.00
175	1.2.1.1.18.4	WS Support Drafting	SLAC	ED&I	2	4 wks	\$9,200.00	\$0.00	\$0.00	\$9,200.00	\$1,840.00	\$2,760.00	\$13,800.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	0	4 wks	\$0.00	\$0.00	\$0.00	\$9,200.00	\$0.00	\$0.00	\$0.00
176	1.2.1.1.18.5	Controls W. S. Hardware Engineering	SLAC	ED&I	2	6.1 wks	\$18,300.00	\$0.00	\$0.00	\$18,300.00	\$3,660.00	\$5,490.00	\$27,450.00
		<i>S LAC Electrical Engineer</i>		<i>ED&I</i>	0	6.1 wks	\$0.00	\$0.00	\$0.00	\$18,300.00	\$0.00	\$0.00	\$0.00
177	1.2.1.1.18.6	Coordintaion & Doc.	SLAC	ED&I	2	3.8 wks	\$7,600.00	\$0.00	\$0.00	\$7,600.00	\$1,520.00	\$2,280.00	\$11,400.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	0	3.8 wks	\$0.00	\$0.00	\$0.00	\$7,600.00	\$0.00	\$0.00	\$0.00
178	1.2.1.1.19	BPM PED			0	26 wks	\$68,940.00	\$0.00	\$0.00	\$68,940.00	\$13,788.00	\$20,682.00	\$103,410.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
179	1.2.1.1.19.1	Controls Hardware Engineering	SLAC	ED&I	2	8.5 wks	\$25,500.00	\$0.00	\$0.00	\$25,500.00	\$5,100.00	\$7,650.00	\$38,250.00
		<i>S LAC Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>8.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$25,500.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
180	1.2.1.1.19.1	Controls Hardware Engineering	SLAC	ED&I	2	3.5 wks	\$7,000.00	\$0.00	\$0.00	\$7,000.00	\$1,400.00	\$2,100.00	\$10,500.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	<i>0</i>	<i>3.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
181	1.2.1.1.19.2	Controls Coordination and Documentation	SLAC	ED&I	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	<i>0</i>	<i>0 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
182	1.2.1.1.19.2	Controls Coordination and Documentation	SLAC	B&H	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
183	1.2.1.1.19.3	Design	SLAC	ED&I	2	4 wks	\$13,440.00	\$0.00	\$0.00	\$13,440.00	\$2,688.00	\$4,032.00	\$20,160.00
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,440.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
184	1.2.1.1.19.4	Drafting	SLAC	ED&I	2	10 wks	\$23,000.00	\$0.00	\$0.00	\$23,000.00	\$4,600.00	\$6,900.00	\$34,500.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>10 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$23,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
185	1.2.1.1.19.5	BPM support design	SLAC		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
186	1.2.1.1.19.6	BPM support drafting	SLAC		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
187	1.2.1.1.20	Toroids			0	12 wks	\$30,920.00	\$0.00	\$0.00	\$30,920.00	\$6,184.00	\$9,276.00	\$46,380.00
188	1.2.1.1.20.1	Toroid Design	SLAC	ED&I	2	1 wk	\$3,360.00	\$0.00	\$0.00	\$3,360.00	\$672.00	\$1,008.00	\$5,040.00
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,360.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
189	1.2.1.1.20.2	Toroid Drafting	SLAC	ED&I	2	1 wk	\$2,300.00	\$0.00	\$0.00	\$2,300.00	\$460.00	\$690.00	\$3,450.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,300.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
190	1.2.1.1.20.3	Toroid Support Design	SLAC	ED&I	2	1 wk	\$3,360.00	\$0.00	\$0.00	\$3,360.00	\$672.00	\$1,008.00	\$5,040.00
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,360.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
191	1.2.1.1.20.4	Toroid Support Drafting	SLAC	ED&I	2	3 wks	\$6,900.00	\$0.00	\$0.00	\$6,900.00	\$1,380.00	\$2,070.00	\$10,350.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,900.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
192	1.2.1.1.20.5	Controls Hardware Engineering	SLAC	ED&I	2	3 wks	\$9,000.00	\$0.00	\$0.00	\$9,000.00	\$1,800.00	\$2,700.00	\$13,500.00
		<i>S LAC Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
193	1.2.1.1.20.6	Controls Coordintaion & Doc.	SLAC	ED&I	2	3 wks	\$6,000.00	\$0.00	\$0.00	\$6,000.00	\$1,200.00	\$1,800.00	\$9,000.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
194	1.2.1.1.21	Faraday Cup			0	26.5 wks	\$72,380.00	\$0.00	\$0.00	\$72,380.00	\$14,476.00	\$30,399.60	\$117,255.60
195	1.2.1.1.21.1	Parameter Definition	SLAC	ED&I	3	1 wk	\$3,400.00	\$0.00	\$0.00	\$3,400.00	\$680.00	\$1,428.00	\$5,508.00
		<i>SLAC Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
196	1.2.1.1.21.2	Faraday Cup Design	SLAC	ED&I	3	6 wks	\$20,160.00	\$0.00	\$0.00	\$20,160.00	\$4,032.00	\$8,467.20	\$32,659.20
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$20,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
197	1.2.1.1.21.3	Faraday Cup Drafting	SLAC	ED&I	3	8 wks	\$18,400.00	\$0.00	\$0.00	\$18,400.00	\$3,680.00	\$7,728.00	\$29,808.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$18,400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
198	1.2.1.1.21.4	Faraday Cup Support Design	SLAC	ED&I	3	2 wks	\$6,720.00	\$0.00	\$0.00	\$6,720.00	\$1,344.00	\$2,822.40	\$10,886.40

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	0	2 wks	\$0.00	\$0.00	\$0.00	\$6,720.00	\$0.00	\$0.00	\$0.00
199	1.2.1.1.21.5	Faraday Cup Support Drafting	SLAC	ED&I	3	4 wks	\$9,200.00	\$0.00	\$0.00	\$9,200.00	\$1,840.00	\$3,864.00	\$14,904.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	0	4 wks	\$0.00	\$0.00	\$0.00	\$9,200.00	\$0.00	\$0.00	\$0.00
200	1.2.1.1.21.6	Controls Hardware Engineering	SLAC	ED&I	3	3.5 wks	\$10,500.00	\$0.00	\$0.00	\$10,500.00	\$2,100.00	\$4,410.00	\$17,010.00
		<i>S LAC Electrical Engineer</i>		<i>ED&I</i>	0	3.5 wks	\$0.00	\$0.00	\$0.00	\$10,500.00	\$0.00	\$0.00	\$0.00
201	1.2.1.1.21.7	Controls Coordintaion & Doc.	SLAC	ED&I	3	2 wks	\$4,000.00	\$0.00	\$0.00	\$4,000.00	\$800.00	\$1,680.00	\$6,480.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	0	2 wks	\$0.00	\$0.00	\$0.00	\$4,000.00	\$0.00	\$0.00	\$0.00
202	1.2.1.1.22	Tune-up Dump			0	24.65 wks	\$66,930.00	\$0.00	\$0.00	\$66,930.00	\$13,386.00	\$27,576.60	\$107,892.60
203	1.2.1.1.22.1	Parameter Definition	SLAC	ED&I	3	1 wk	\$3,400.00	\$0.00	\$0.00	\$3,400.00	\$680.00	\$1,428.00	\$5,508.00
		<i>SLAC Physicist -Scientist</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$3,400.00	\$0.00	\$0.00	\$0.00
204	1.2.1.1.22.2	TD Design	SLAC	ED&I	3	6 wks	\$20,160.00	\$0.00	\$0.00	\$20,160.00	\$4,032.00	\$8,467.20	\$32,659.20
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	0	6 wks	\$0.00	\$0.00	\$0.00	\$20,160.00	\$0.00	\$0.00	\$0.00
205	1.2.1.1.22.3	TD Drafting	SLAC	ED&I	3	8 wks	\$18,400.00	\$0.00	\$0.00	\$18,400.00	\$3,680.00	\$7,728.00	\$29,808.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	0	8 wks	\$0.00	\$0.00	\$0.00	\$18,400.00	\$0.00	\$0.00	\$0.00
206	1.2.1.1.22.4	TD Support Design	SLAC	ED&I	3	2 wks	\$6,720.00	\$0.00	\$0.00	\$6,720.00	\$1,344.00	\$2,822.40	\$10,886.40
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	0	2 wks	\$0.00	\$0.00	\$0.00	\$6,720.00	\$0.00	\$0.00	\$0.00
207	1.2.1.1.22.5	TD Support Drafting	SLAC	ED&I	3	6 wks	\$13,800.00	\$0.00	\$0.00	\$13,800.00	\$2,760.00	\$5,796.00	\$22,356.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	0	6 wks	\$0.00	\$0.00	\$0.00	\$13,800.00	\$0.00	\$0.00	\$0.00
208	1.2.1.1.22.6	Controls Hardware Engineering	SLAC	ED&I	2	1.15 wks	\$3,450.00	\$0.00	\$0.00	\$3,450.00	\$690.00	\$1,035.00	\$5,175.00
		<i>S LAC Electrical Engineer</i>		<i>ED&I</i>	0	1.15 wks	\$0.00	\$0.00	\$0.00	\$3,450.00	\$0.00	\$0.00	\$0.00
209	1.2.1.1.22.7	Controls Coordintaion & Doc.	SLAC	ED&I	2	0.5 wks	\$1,000.00	\$0.00	\$0.00	\$1,000.00	\$200.00	\$300.00	\$1,500.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	0	0.5 wks	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
210	1.2.1.1.23	Profile Monitor			0	49.5 wks	\$137,100.00	\$0.00	\$0.00	\$137,100.00	\$27,420.00	\$57,582.00	\$222,102.00
211	1.2.1.1.23.1	Parameter Definition	SLAC	ED&I	3	2 wks	\$6,800.00	\$0.00	\$0.00	\$6,800.00	\$1,360.00	\$2,856.00	\$11,016.00
		<i>SLAC Physicist -Scientist</i>		<i>ED&I</i>	0	2 wks	\$0.00	\$0.00	\$0.00	\$6,800.00	\$0.00	\$0.00	\$0.00
212	1.2.1.1.23.2	Profile Monitor Design	SLAC	ED&I	3	8 wks	\$26,880.00	\$0.00	\$0.00	\$26,880.00	\$5,376.00	\$11,289.60	\$43,545.60
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	0	8 wks	\$0.00	\$0.00	\$0.00	\$26,880.00	\$0.00	\$0.00	\$0.00
213	1.2.1.1.23.3	Profile Monitor Drafting	SLAC	ED&I	3	10 wks	\$23,000.00	\$0.00	\$0.00	\$23,000.00	\$4,600.00	\$9,660.00	\$37,260.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	0	10 wks	\$0.00	\$0.00	\$0.00	\$23,000.00	\$0.00	\$0.00	\$0.00
214	1.2.1.1.23.4	Profile Monitor Support Design	SLAC	ED&I	3	2 wks	\$6,720.00	\$0.00	\$0.00	\$6,720.00	\$1,344.00	\$2,822.40	\$10,886.40
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	0	2 wks	\$0.00	\$0.00	\$0.00	\$6,720.00	\$0.00	\$0.00	\$0.00
215	1.2.1.1.23.5	Profile Monitor Support Drafting	SLAC	ED&I	3	4 wks	\$9,200.00	\$0.00	\$0.00	\$9,200.00	\$1,840.00	\$3,864.00	\$14,904.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	0	4 wks	\$0.00	\$0.00	\$0.00	\$9,200.00	\$0.00	\$0.00	\$0.00
216	1.2.1.1.23.6	Prof. Mon Engineer	SLAC	ED&I	3	8 wks	\$24,000.00	\$0.00	\$0.00	\$24,000.00	\$4,800.00	\$10,080.00	\$38,880.00
		<i>S LAC Electrical Engineer</i>		<i>ED&I</i>	0	8 wks	\$0.00	\$0.00	\$0.00	\$24,000.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
217	1.2.1.1.23.7	Prof. Mon Coordination & Doc.	SLAC	ED&I	3	3 wks	\$6,000.00	\$0.00	\$0.00	\$6,000.00	\$1,200.00	\$2,520.00	\$9,720.00
		SLAC Controls: Coordinator Assoc.		ED&I	0	3 wks	\$0.00	\$0.00	\$0.00	\$6,000.00	\$0.00	\$0.00	\$0.00
218	1.2.1.1.23.8	Controls Hardware Engineering	SLAC	ED&I	3	9.5 wks	\$28,500.00	\$0.00	\$0.00	\$28,500.00	\$5,700.00	\$11,970.00	\$46,170.00
		S LAC Electrical Engineer		ED&I	0	9.5 wks	\$0.00	\$0.00	\$0.00	\$28,500.00	\$0.00	\$0.00	\$0.00
219	1.2.1.1.23.9	Controls Coordintaion & Doc.	SLAC	ED&I	3	3 wks	\$6,000.00	\$0.00	\$0.00	\$6,000.00	\$1,200.00	\$2,520.00	\$9,720.00
		SLAC Controls: Coordinator Assoc.		ED&I	0	3 wks	\$0.00	\$0.00	\$0.00	\$6,000.00	\$0.00	\$0.00	\$0.00
220	1.2.1.1.24	Gun E-O Diagnostic			0	31.5 wks	\$90,984.00	\$0.00	\$0.00	\$90,984.00	\$18,196.80	\$43,646.88	\$152,827.68
221	1.2.1.1.24.1	E-O Physics	SLAC	ED&I	4	12 wks	\$40,800.00	\$0.00	\$0.00	\$40,800.00	\$8,160.00	\$24,480.00	\$73,440.00
		SLAC Physicist -Scientist		ED&I	0	12 wks	\$0.00	\$0.00	\$0.00	\$40,800.00	\$0.00	\$0.00	\$0.00
222	1.2.1.1.24.2	E-O Design	SLAC	ED&I	2	1 wk	\$3,360.00	\$0.00	\$0.00	\$3,360.00	\$672.00	\$1,008.00	\$5,040.00
		SLAC AD: Mech/Vacuum Engineer		ED&I	0	1 wk	\$0.00	\$0.00	\$0.00	\$3,360.00	\$0.00	\$0.00	\$0.00
223	1.2.1.1.24.3	E-O Drafting	SLAC	ED&I	2	2 wks	\$4,600.00	\$0.00	\$0.00	\$4,600.00	\$920.00	\$1,380.00	\$6,900.00
		SLAC Mech Drafting/Design		ED&I	0	2 wks	\$0.00	\$0.00	\$0.00	\$4,600.00	\$0.00	\$0.00	\$0.00
224	1.2.1.1.24.4	E-O Support Design	SLAC	ED&I	2	1 wk	\$3,360.00	\$0.00	\$0.00	\$3,360.00	\$672.00	\$1,008.00	\$5,040.00
		SLAC AD: Mech/Vacuum Engineer		ED&I	0	1 wk	\$0.00	\$0.00	\$0.00	\$3,360.00	\$0.00	\$0.00	\$0.00
225	1.2.1.1.24.5	E-O Support Drafting	SLAC	ED&I	2	2 wks	\$4,600.00	\$0.00	\$0.00	\$4,600.00	\$920.00	\$1,380.00	\$6,900.00
		SLAC Mech Drafting/Design		ED&I	0	2 wks	\$0.00	\$0.00	\$0.00	\$4,600.00	\$0.00	\$0.00	\$0.00
226	1.2.1.1.24.6	Hardware Engineering	SLAC	ED&I	3	2 wks	\$6,000.00	\$0.00	\$0.00	\$6,000.00	\$1,200.00	\$2,520.00	\$9,720.00
		S LAC Electrical Engineer		ED&I	0	2 wks	\$0.00	\$0.00	\$0.00	\$6,000.00	\$0.00	\$0.00	\$0.00
227	1.2.1.1.24.7	CCD Software Interface	SLAC	ED&I	3	10 wks	\$25,264.00	\$0.00	\$0.00	\$25,264.00	\$5,052.80	\$10,610.88	\$40,927.68
		SLAC Controls: Programmer		ED&I	0	10 wks	\$0.00	\$0.00	\$0.00	\$25,264.00	\$0.00	\$0.00	\$0.00
228	1.2.1.1.24.8	Controls Coordintaion & Doc.	SLAC	ED&I	3	1.5 wks	\$3,000.00	\$0.00	\$0.00	\$3,000.00	\$600.00	\$1,260.00	\$4,860.00
		SLAC Controls: Coordinator Assoc.		ED&I	0	1.5 wks	\$0.00	\$0.00	\$0.00	\$3,000.00	\$0.00	\$0.00	\$0.00
229	1.2.1.1.25	Gun Laser			0	6 wks	\$15,000.00	\$0.00	\$0.00	\$15,000.00	\$3,000.00	\$2,700.00	\$20,700.00
230	1.2.1.1.25.1	Senior Physicist and Physicist	SLAC	ED&I	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		SLAC Physicist - Senior Scientist		ED&I	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
231	1.2.1.1.25.2	Oscillator and diagnostics	SLAC	ED&I	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		SLAC Physicist -Scientist		ED&I	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
232	1.2.1.1.25.3	Temporal conditioning (stretchers, compressors, shapes)	SLAC		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
233	1.2.1.1.25.4	Spatial conditioning (spatial filters, flatteners)	SLAC		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
234	1.2.1.1.25.5	Amplifier system and diagnostics (pumps, pockels cells, layout)	SLAC		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
235	1.2.1.1.25.6	UV conversion and optical trnsort to cathode	SLAC		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
236	1.2.1.1.25.7	Timing stabilization	SLAC		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
237	1.2.1.1.25.8	Hot Spares program	SLAC		2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
238	1.2.1.1.25.9	Hardware Engineering	SLAC	ED&I	2	3 wks	\$9,000.00	\$0.00	\$0.00	\$9,000.00	\$1,800.00	\$2,700.00	\$13,500.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC Electrical Engineer</i>		<i>ED&I</i>	0	3 wks	\$0.00	\$0.00	\$0.00	\$9,000.00	\$0.00	\$0.00	\$0.00
239	1.2.1.1.25.10	Coordintaion & Layout	SLAC	ED&I	0	3 wks	\$6,000.00	\$0.00	\$0.00	\$6,000.00	\$1,200.00	\$0.00	\$7,200.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	0	3 wks	\$0.00	\$0.00	\$0.00	\$6,000.00	\$0.00	\$0.00	\$0.00
240	1.2.1.1.27	Beam Stopper PED			0	15.5 wks	\$40,840.00	\$0.00	\$0.00	\$40,840.00	\$8,168.00	\$13,332.00	\$62,340.00
241	1.2.1.1.27.1	Engineering	SLAC	ED&I	2	4 wks	\$13,440.00	\$0.00	\$0.00	\$13,440.00	\$2,688.00	\$4,032.00	\$20,160.00
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	0	4 wks	\$0.00	\$0.00	\$0.00	\$13,440.00	\$0.00	\$0.00	\$0.00
242	1.2.1.1.27.2	Design/Drafting	SLAC	ED&I	2	8 wks	\$18,400.00	\$0.00	\$0.00	\$18,400.00	\$3,680.00	\$5,520.00	\$27,600.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	0	8 wks	\$0.00	\$0.00	\$0.00	\$18,400.00	\$0.00	\$0.00	\$0.00
243	1.2.1.1.27.3	Controls Hardware Engineering	SLAC	ED&I	3	2 wks	\$6,000.00	\$0.00	\$0.00	\$6,000.00	\$1,200.00	\$2,520.00	\$9,720.00
		<i>S LAC Electrical Engineer</i>		<i>ED&I</i>	0	2 wks	\$0.00	\$0.00	\$0.00	\$6,000.00	\$0.00	\$0.00	\$0.00
244	1.2.1.1.27.4	Controls Coordintaion & Doc.	SLAC	ED&I	3	1.5 wks	\$3,000.00	\$0.00	\$0.00	\$3,000.00	\$600.00	\$1,260.00	\$4,860.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	0	1.5 wks	\$0.00	\$0.00	\$0.00	\$3,000.00	\$0.00	\$0.00	\$0.00
245	1.2.1.1.28	New Power Supplies			0	45 wks	\$124,200.00	\$0.00	\$0.00	\$124,200.00	\$24,840.00	\$37,260.00	\$186,300.00
246	1.2.1.1.28.1	Planning (PS and Cable Plant)	SLAC	ED&I	2	35 wks	\$105,000.00	\$0.00	\$0.00	\$105,000.00	\$21,000.00	\$31,500.00	\$157,500.00
		<i>SLAC PCD:Engineer</i>		<i>ED&I</i>	0	35 wks	\$0.00	\$0.00	\$0.00	\$105,000.00	\$0.00	\$0.00	\$0.00
247	1.2.1.1.28.3	System Dwgs (EI, WD, Profile for Cable Plant)	SLAC	ED&I	2	10 wks	\$19,200.00	\$0.00	\$0.00	\$19,200.00	\$3,840.00	\$5,760.00	\$28,800.00
		<i>SLAC PCD:Coordinator Associate</i>		<i>ED&I</i>	0	10 wks	\$0.00	\$0.00	\$0.00	\$19,200.00	\$0.00	\$0.00	\$0.00
248	1.2.1.2	Mechanical			0	162.1 wks	\$0.00	\$182,000.00	\$403,159.40	\$585,159.40	\$91,551.88	\$184,989.56	\$861,700.84
249	1.2.1.2.1	Gun Load Lock			0	40.5 wks	\$0.00	\$70,000.00	\$117,342.60	\$187,342.60	\$27,668.52	\$56,750.98	\$271,762.10
250	1.2.1.2.1.1	Physics	SLAC	ED&I	2	25 wks	\$0.00	\$0.00	\$85,000.00	\$85,000.00	\$17,000.00	\$25,500.00	\$127,500.00
		<i>SLAC Physicist - Scientist</i>		<i>ED&I</i>	0	25 wks	\$0.00	\$0.00	\$0.00	\$85,000.00	\$0.00	\$0.00	\$0.00
251	1.2.1.2.1.2	Gun Load Lock Materials	SLAC	M&S	2	0 wks	\$0.00	\$65,000.00	\$0.00	\$65,000.00	\$3,900.00	\$17,225.00	\$86,125.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	65,000	\$0.00	\$0.00	\$0.00	\$65,000.00	\$0.00	\$0.00	\$0.00
252	1.2.1.2.1.3	Gun Load Lock Assembly	SLAC	B&H	3	12.5 wks	\$0.00	\$0.00	\$24,985.00	\$24,985.00	\$4,997.00	\$10,493.70	\$40,475.70
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	12.5 wks	\$0.00	\$0.00	\$0.00	\$24,985.00	\$0.00	\$0.00	\$0.00
253	1.2.1.2.1.4	Gun Load Lock Support Materials	SLAC	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$1,325.00	\$6,625.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	5,000	\$0.00	\$0.00	\$0.00	\$5,000.00	\$0.00	\$0.00	\$0.00
254	1.2.1.2.1.5	Gun Load Lock Support Assembly	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$3,997.60	\$3,997.60	\$799.52	\$1,199.28	\$5,996.40
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	2 wks	\$0.00	\$0.00	\$0.00	\$3,997.60	\$0.00	\$0.00	\$0.00
255	1.2.1.2.1.6	Proc. Man. & Assembly Supervision	SLAC	ED&I	2	1 wk	\$0.00	\$0.00	\$3,360.00	\$3,360.00	\$672.00	\$1,008.00	\$5,040.00
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$3,360.00	\$0.00	\$0.00	\$0.00
256	1.2.1.2.2	Bend Magnets - 5D7.1			0	1.6 wks	\$0.00	\$1,000.00	\$4,639.52	\$5,639.52	\$987.90	\$1,656.86	\$8,284.28
257	1.2.1.2.2.1	Support Materials	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
258	1.2.1.2.2.2	Support Machining	SLAC	B&H	2	1.2 wks	\$0.00	\$0.00	\$3,840.00	\$3,840.00	\$768.00	\$1,152.00	\$5,760.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>1.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,840.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
259	1.2.1.2.2.3	Magnet Support Assembly	SLAC	B&H	2	0.4 wks	\$0.00	\$0.00	\$799.52	\$799.52	\$159.90	\$239.86	\$1,199.28
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$799.52</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
260	1.2.1.2.3	Quadrupoles - 1Q5.6			0	14.4 wks	\$0.00	\$5,000.00	\$41,755.68	\$46,755.68	\$8,651.14	\$13,851.70	\$69,258.52
261	1.2.1.2.3.1	Support Materials	SLAC	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$1,325.00	\$6,625.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
262	1.2.1.2.3.2	Support Machining	SLAC	B&H	2	10.8 wks	\$0.00	\$0.00	\$34,560.00	\$34,560.00	\$6,912.00	\$10,368.00	\$51,840.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>10.8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$34,560.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
263	1.2.1.2.3.3	Magnet Support Assembly	SLAC	B&H	2	3.6 wks	\$0.00	\$0.00	\$7,195.68	\$7,195.68	\$1,439.14	\$2,158.70	\$10,793.52
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>3.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,195.68</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
264	1.2.1.2.4	Gun Solenoid			0	4 wks	\$0.00	\$4,000.00	\$7,995.20	\$11,995.20	\$1,839.04	\$636.00	\$14,470.24
265	1.2.1.2.4.1	Gun Sol Support Materials	SLAC	M&S	1	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$636.00	\$4,876.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
266	1.2.1.2.4.2	Gun Sol Support Assembly	SLAC	B&H	6	4 wks	\$0.00	\$0.00	\$7,995.20	\$7,995.20	\$1,599.04	\$0.00	\$9,594.24
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,995.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
267	1.2.1.2.5	Linac Solenoid			0	8 wks	\$0.00	\$10,000.00	\$15,990.40	\$25,990.40	\$3,798.08	\$7,447.12	\$37,235.60
268	1.2.1.2.5.1	Support materials	SLAC	M&S	2	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$600.00	\$2,650.00	\$13,250.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
269	1.2.1.2.5.2	Supports assembly	SLAC	B&H	2	8 wks	\$0.00	\$0.00	\$15,990.40	\$15,990.40	\$3,198.08	\$4,797.12	\$23,985.60
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$15,990.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
270	1.2.1.2.6	Correctors			0	6.6 wks	\$0.00	\$6,000.00	\$18,477.36	\$24,477.36	\$4,055.47	\$7,133.21	\$35,666.04
271	1.2.1.2.6.1	Support Materials	SLAC	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$1,590.00	\$7,950.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
272	1.2.1.2.6.2	Support Machining	SLAC	B&H	2	4.4 wks	\$0.00	\$0.00	\$14,080.00	\$14,080.00	\$2,816.00	\$4,224.00	\$21,120.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>4.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$14,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
273	1.2.1.2.6.3	Magnet Support Assembly	SLAC	B&H	2	2.2 wks	\$0.00	\$0.00	\$4,397.36	\$4,397.36	\$879.47	\$1,319.21	\$6,596.04
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>2.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,397.36</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
274	1.2.1.2.7	Gun E Spectrometer			0	12 wks	\$0.00	\$12,000.00	\$23,985.60	\$35,985.60	\$5,517.12	\$16,299.36	\$57,802.08
275	1.2.1.2.7.1	Support Materials	SLAC	M&S	1	0 wks	\$0.00	\$12,000.00	\$0.00	\$12,000.00	\$720.00	\$1,908.00	\$14,628.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>12,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
276	1.2.1.2.7.2	Assembly/Mfg	SLAC	B&H	4	12 wks	\$0.00	\$0.00	\$23,985.60	\$23,985.60	\$4,797.12	\$14,391.36	\$43,174.08
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>12 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$23,985.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
277	1.2.1.2.8	Straight Ahead E Spectrometer			0	1.6 wks	\$0.00	\$1,000.00	\$4,639.52	\$5,639.52	\$987.90	\$1,790.71	\$8,418.14
278	1.2.1.2.8.1	Support Materials	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
279	1.2.1.2.8.2	Support Machining	SLAC	B&H	2	1.2 wks	\$0.00	\$0.00	\$3,840.00	\$3,840.00	\$768.00	\$1,152.00	\$5,760.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>1.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,840.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
280	1.2.1.2.8.3	Magnet Support Assembly	SLAC	B&H	4	0.4 wks	\$0.00	\$0.00	\$799.52	\$799.52	\$159.90	\$479.71	\$1,439.14
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$799.52</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
281	1.2.1.2.9	Accelerator Structures			0	18.5 wks	\$0.00	\$34,000.00	\$36,977.80	\$70,977.80	\$9,435.56	\$22,555.70	\$102,969.06
282	1.2.1.2.9.1	Accelerator Base Support Materials	SLAC	M&S	1	0 wks	\$0.00	\$23,000.00	\$0.00	\$23,000.00	\$1,380.00	\$3,657.00	\$28,037.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>23,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$23,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
283	1.2.1.2.9.2	Accelerator Base Support Assembly	SLAC	B&H	4	12.5 wks	\$0.00	\$0.00	\$24,985.00	\$24,985.00	\$4,997.00	\$14,991.00	\$44,973.00
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>12.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$24,985.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
284		Accelerator Materials		M&S	1	0 wks	\$0.00	\$11,000.00	\$0.00	\$11,000.00	\$660.00	\$1,749.00	\$13,409.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>11,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
285		Accelerator Assembly		B&H	1	6 wks	\$0.00	\$0.00	\$11,992.80	\$11,992.80	\$2,398.56	\$2,158.70	\$16,550.06
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,992.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
286	1.2.1.2.10	Gun			0	6 wks	\$0.00	\$5,000.00	\$11,992.80	\$16,992.80	\$2,698.56	\$7,990.68	\$27,682.04
287	1.2.1.2.10.1	Support Materials	SLAC	M&S	1	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$795.00	\$6,095.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
288	1.2.1.2.10.2	Support Assembly	SLAC	B&H	4	6 wks	\$0.00	\$0.00	\$11,992.80	\$11,992.80	\$2,398.56	\$7,195.68	\$21,587.04
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,992.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
289	1.2.1.2.11	Transverse RF Structure			0	4 wks	\$0.00	\$4,000.00	\$7,995.20	\$11,995.20	\$1,839.04	\$5,433.12	\$19,267.36
290	1.2.1.2.11.1	Transverse RF Support Materials	SLAC	M&S	1	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$636.00	\$4,876.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
291	1.2.1.2.11.2	Transverse RF Support Assembly	SLAC	B&H	4	4 wks	\$0.00	\$0.00	\$7,995.20	\$7,995.20	\$1,599.04	\$4,797.12	\$14,391.36
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,995.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
292	1.2.1.2.12	Wire Scanners			0	6 wks	\$0.00	\$3,000.00	\$17,998.80	\$20,998.80	\$3,779.76	\$6,194.64	\$30,973.20
293	1.2.1.2.12.1	Support Materials	SLAC	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$795.00	\$3,975.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
294	1.2.1.2.12.2	Support Machining	SLAC	B&H	2	4 wks	\$0.00	\$0.00	\$12,800.00	\$12,800.00	\$2,560.00	\$3,840.00	\$19,200.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
295	1.2.1.2.12.3	Support Welding	SLAC	B&H	2	1 wk	\$0.00	\$0.00	\$3,200.00	\$3,200.00	\$640.00	\$960.00	\$4,800.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
296	1.2.1.2.12.4	WS Support Assembly	SLAC	B&H	2	1 wk	\$0.00	\$0.00	\$1,998.80	\$1,998.80	\$399.76	\$599.64	\$2,998.20
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,998.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
297	1.2.1.2.13	BPMs			0	13.5 wks	\$0.00	\$16,000.00	\$26,983.80	\$42,983.80	\$6,356.76	\$12,335.14	\$61,675.70
298	1.2.1.2.13.1	BPM Materials	SLAC	M&S	2	0 wks	\$0.00	\$16,000.00	\$0.00	\$16,000.00	\$960.00	\$4,240.00	\$21,200.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>16,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$16,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
299	1.2.1.2.13.2	BPM Assembly	SLAC	B&H	2	13.5 wks	\$0.00	\$0.00	\$26,983.80	\$26,983.80	\$5,396.76	\$8,095.14	\$40,475.70
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>13.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$26,983.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
300	1.2.1.2.14	Toroids			0	4 wks	\$0.00	\$1,000.00	\$11,598.80	\$12,598.80	\$2,379.76	\$3,744.64	\$18,723.20
301	1.2.1.2.14.1	Support Materials	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
302	1.2.1.2.14.2	Support Machining		B&H	2	3 wks	\$0.00	\$0.00	\$9,600.00	\$9,600.00	\$1,920.00	\$2,880.00	\$14,400.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
303	1.2.1.2.14.3	Toro Support Assembly	SLAC	B&H	2	1 wk	\$0.00	\$0.00	\$1,998.80	\$1,998.80	\$399.76	\$599.64	\$2,998.20
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,998.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
304	1.2.1.2.15	Faraday Cup			0	3.6 wks	\$0.00	\$1,000.00	\$10,318.80	\$11,318.80	\$2,123.76	\$4,704.90	\$18,147.46
305	1.2.1.2.15.1	Support Materials	SLAC	M&S	3	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$371.00	\$1,431.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
306	1.2.1.2.15.2	Support Machining	SLAC	B&H	3	2 wks	\$0.00	\$0.00	\$6,400.00	\$6,400.00	\$1,280.00	\$2,688.00	\$10,368.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
307	1.2.1.2.15.3	Support Welding	SLAC	B&H	3	0.6 wks	\$0.00	\$0.00	\$1,920.00	\$1,920.00	\$384.00	\$806.40	\$3,110.40
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,920.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
308	1.2.1.2.15.4	FC Support Assembly	SLAC	B&H	3	1 wk	\$0.00	\$0.00	\$1,998.80	\$1,998.80	\$399.76	\$839.50	\$3,238.06
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,998.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
309	1.2.1.2.16	Tune-up Dump			0	1.8 wks	\$0.00	\$1,000.00	\$5,279.52	\$6,279.52	\$1,115.90	\$2,588.40	\$9,983.82
310	1.2.1.2.16.1	Support Materials	SLAC	M&S	3	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$371.00	\$1,431.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
311	1.2.1.2.16.2	Support Machining	SLAC	B&H	3	1 wk	\$0.00	\$0.00	\$3,200.00	\$3,200.00	\$640.00	\$1,344.00	\$5,184.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
312	1.2.1.2.16.3	Support Welding	SLAC	B&H	3	0.4 wks	\$0.00	\$0.00	\$1,280.00	\$1,280.00	\$256.00	\$537.60	\$2,073.60
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,280.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
313	1.2.1.2.16.4	TD Support Assembly	SLAC	B&H	3	0.4 wks	\$0.00	\$0.00	\$799.52	\$799.52	\$159.90	\$335.80	\$1,295.22
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$799.52</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
314	1.2.1.2.17	Profile Monitor			0	10 wks	\$0.00	\$5,000.00	\$27,195.20	\$32,195.20	\$5,739.04	\$9,483.56	\$47,417.80
315	1.2.1.2.17.1	Support Materials	SLAC	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$1,325.00	\$6,625.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
316	1.2.1.2.17.2	Support Machining	SLAC	B&H	2	6 wks	\$0.00	\$0.00	\$19,200.00	\$19,200.00	\$3,840.00	\$5,760.00	\$28,800.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$19,200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
317	1.2.1.2.17.3	Prof Support Assembly	SLAC	B&H	2	4 wks	\$0.00	\$0.00	\$7,995.20	\$7,995.20	\$1,599.04	\$2,398.56	\$11,992.80
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,995.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
318	1.2.1.2.18	Beam Stopper			0	6 wks	\$0.00	\$3,000.00	\$11,992.80	\$14,992.80	\$2,578.56	\$4,392.84	\$21,964.20

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
319	1.2.1.2.18.1	Beam Stopper Support Materials	SLAC	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$795.00	\$3,975.00
		SLAC M&S Total		M&S	0	3,000	\$0.00	\$0.00	\$0.00	\$3,000.00	\$0.00	\$0.00	\$0.00
320	1.2.1.2.18.2	Beam Stopper Support Assembly	SLAC	B&H	2	6 wks	\$0.00	\$0.00	\$11,992.80	\$11,992.80	\$2,398.56	\$3,597.84	\$17,989.20
		SLAC Mech. Fab: Assembly Tech		B&H	0	6 wks	\$0.00	\$0.00	\$0.00	\$11,992.80	\$0.00	\$0.00	\$0.00
321	1.2.1.2.19	Reserved			0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
322	1.2.1.2.19.1	E-O Support Materials	SLAC		1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
323	1.2.1.2.19.2	E-O Support Assembly	SLAC	B&H	4	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		SLAC Mech. Fab: Assembly Tech		B&H	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
324	1.2.1.3	Vaccum			0	116.2 wks	\$0.00	\$550,000.00	\$244,180.04	\$794,180.04	\$81,836.01	\$306,605.62	\$1,182,621.66
325	1.2.1.3.1	Beamline Vacuum System			0	70.9 wks	\$0.00	\$250,000.00	\$150,150.92	\$400,150.92	\$45,030.18	\$155,813.39	\$600,994.49
326	1.2.1.3.1.1	Ion Pumps	SLAC	B&H	3	1 wk	\$0.00	\$0.00	\$1,998.80	\$1,998.80	\$399.76	\$839.50	\$3,238.06
		SLAC Mech. Fab: Assembly Tech		B&H	0	1 wk	\$0.00	\$0.00	\$0.00	\$1,998.80	\$0.00	\$0.00	\$0.00
327	1.2.1.3.1.2	Combination Ion Pumps	SLAC	B&H	3	1.2 wks	\$0.00	\$0.00	\$2,398.56	\$2,398.56	\$479.71	\$1,007.40	\$3,885.67
		SLAC Mech. Fab: Assembly Tech		B&H	0	1.2 wks	\$0.00	\$0.00	\$0.00	\$2,398.56	\$0.00	\$0.00	\$0.00
328	1.2.1.3.1.3	Pump PS	SLAC	B&H	3	0.9 wks	\$0.00	\$0.00	\$1,798.92	\$1,798.92	\$359.78	\$755.55	\$2,914.25
		SLAC Mech. Fab: Assembly Tech		B&H	0	0.9 wks	\$0.00	\$0.00	\$0.00	\$1,798.92	\$0.00	\$0.00	\$0.00
329	1.2.1.3.1.4	Cold cath & pirani gauges	SLAC	B&H	3	0.8 wks	\$0.00	\$0.00	\$1,599.04	\$1,599.04	\$319.81	\$671.60	\$2,590.44
		SLAC Mech. Fab: Assembly Tech		B&H	0	0.8 wks	\$0.00	\$0.00	\$0.00	\$1,599.04	\$0.00	\$0.00	\$0.00
330	1.2.1.3.1.5	Hot filament gauges	SLAC	B&H	3	0.3 wks	\$0.00	\$0.00	\$599.64	\$599.64	\$119.93	\$251.85	\$971.42
		SLAC Mech. Fab: Assembly Tech		B&H	0	0.3 wks	\$0.00	\$0.00	\$0.00	\$599.64	\$0.00	\$0.00	\$0.00
331	1.2.1.3.1.6	Gauge controller	SLAC	B&H	3	0.4 wks	\$0.00	\$0.00	\$799.52	\$799.52	\$159.90	\$335.80	\$1,295.22
		SLAC Mech. Fab: Assembly Tech		B&H	0	0.4 wks	\$0.00	\$0.00	\$0.00	\$799.52	\$0.00	\$0.00	\$0.00
332	1.2.1.3.1.7	Drift sections	SLAC	B&H	3	1.75 wks	\$0.00	\$0.00	\$3,497.90	\$3,497.90	\$699.58	\$1,469.12	\$5,666.60
		SLAC Mech. Fab: Assembly Tech		B&H	0	1.75 wks	\$0.00	\$0.00	\$0.00	\$3,497.90	\$0.00	\$0.00	\$0.00
333	1.2.1.3.1.8	Bellows/manifold	SLAC	B&H	3	3 wks	\$0.00	\$0.00	\$5,996.40	\$5,996.40	\$1,199.28	\$2,518.49	\$9,714.17
		SLAC Mech. Fab: Assembly Tech		B&H	0	3 wks	\$0.00	\$0.00	\$0.00	\$5,996.40	\$0.00	\$0.00	\$0.00
334	1.2.1.3.1.9	Vac tees/hdw	SLAC	B&H	3	1.25 wks	\$0.00	\$0.00	\$2,498.50	\$2,498.50	\$499.70	\$1,049.37	\$4,047.57
		SLAC Mech. Fab: Assembly Tech		B&H	0	1.25 wks	\$0.00	\$0.00	\$0.00	\$2,498.50	\$0.00	\$0.00	\$0.00
335	1.2.1.3.1.10	Valve	SLAC	B&H	3	0.8 wks	\$0.00	\$0.00	\$1,599.04	\$1,599.04	\$319.81	\$671.60	\$2,590.44
		SLAC Mech. Fab: Assembly Tech		B&H	0	0.8 wks	\$0.00	\$0.00	\$0.00	\$1,599.04	\$0.00	\$0.00	\$0.00
336	1.2.1.3.1.11	Fast valve	SLAC	B&H	3	0.4 wks	\$0.00	\$0.00	\$799.52	\$799.52	\$159.90	\$335.80	\$1,295.22
		SLAC Mech. Fab: Assembly Tech		B&H	0	0.4 wks	\$0.00	\$0.00	\$0.00	\$799.52	\$0.00	\$0.00	\$0.00
337	1.2.1.3.1.12	Fast valve controller/sensor	SLAC	B&H	3	0.3 wks	\$0.00	\$0.00	\$599.64	\$599.64	\$119.93	\$251.85	\$971.42
		SLAC Mech. Fab: Assembly Tech		B&H	0	0.3 wks	\$0.00	\$0.00	\$0.00	\$599.64	\$0.00	\$0.00	\$0.00
338	1.2.1.3.1.13	Supports	SLAC	B&H	3	12.8 wks	\$0.00	\$0.00	\$25,584.64	\$25,584.64	\$5,116.93	\$10,745.55	\$41,447.12

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>12.8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$25,584.64</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
339	1.2.1.3.1.14	QC/alignment	SLAC	B&H	3	30 wks	\$0.00	\$0.00	\$68,400.00	\$68,400.00	\$13,680.00	\$28,728.00	\$110,808.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>30 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$68,400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
340	1.2.1.3.1.15	Assembly	SLAC	B&H	3	16 wks	\$0.00	\$0.00	\$31,980.80	\$31,980.80	\$6,396.16	\$13,431.94	\$51,808.90
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>16 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$31,980.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
341	1.2.1.3.1.1	Ion Pumps	SLAC	M&S	3	0 wks	\$0.00	\$12,000.00	\$0.00	\$12,000.00	\$720.00	\$4,452.00	\$17,172.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>12,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
342	1.2.1.3.1.2	Combination Ion Pumps	SLAC	M&S	3	0 wks	\$0.00	\$23,000.00	\$0.00	\$23,000.00	\$1,380.00	\$8,533.00	\$32,913.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>23,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$23,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
343	1.2.1.3.1.3	Pump PS	SLAC	M&S	3	0 wks	\$0.00	\$83,000.00	\$0.00	\$83,000.00	\$4,980.00	\$30,793.00	\$118,773.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>83,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$83,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
344	1.2.1.3.1.4	Cold cath & pirani gauges	SLAC	M&S	3	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$1,113.00	\$4,293.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
345	1.2.1.3.1.5	Hot filament gauges	SLAC	M&S	3	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$371.00	\$1,431.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
346	1.2.1.3.1.6	Gauge controller	SLAC	M&S	3	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$480.00	\$2,968.00	\$11,448.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
347	1.2.1.3.1.7	Drift sections	SLAC	M&S	3	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$1,484.00	\$5,724.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
348	1.2.1.3.1.8	Bellows/manifold	SLAC	M&S	3	0 wks	\$0.00	\$11,000.00	\$0.00	\$11,000.00	\$660.00	\$4,081.00	\$15,741.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>11,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
349	1.2.1.3.1.9	Vac tees/hdw	SLAC	M&S	3	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$742.00	\$2,862.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
350	1.2.1.3.1.10	Valve	SLAC	M&S	3	0 wks	\$0.00	\$53,000.00	\$0.00	\$53,000.00	\$3,180.00	\$19,663.00	\$75,843.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>53,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$53,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
351	1.2.1.3.1.11	Fast valve	SLAC	M&S	3	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$480.00	\$2,968.00	\$11,448.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
352	1.2.1.3.1.12	Fast valve controller/sensor	SLAC	M&S	3	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$600.00	\$3,710.00	\$14,310.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
353	1.2.1.3.1.13	Supports	SLAC	M&S	3	0 wks	\$0.00	\$32,000.00	\$0.00	\$32,000.00	\$1,920.00	\$11,872.00	\$45,792.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>32,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$32,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
354	1.2.1.3.2	RF			0	45.3 wks	\$0.00	\$300,000.00	\$94,029.12	\$394,029.12	\$36,805.82	\$150,792.23	\$581,627.17
355	1.2.1.3.2.1	Waveguide Ion Pumps	SLAC	B&H	3	2.9 wks	\$0.00	\$0.00	\$9,280.00	\$9,280.00	\$1,856.00	\$3,897.60	\$15,033.60
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>2.9 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,280.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
356	1.2.1.3.2.1	Waveguide Ion Pumps	SLAC	M&S	3	0 wks	\$0.00	\$35,000.00	\$0.00	\$35,000.00	\$2,100.00	\$12,985.00	\$50,085.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>35,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
357	1.2.1.3.2.2	Pump PS	SLAC	B&H	3	1.8 wks	\$0.00	\$0.00	\$3,597.84	\$3,597.84	\$719.57	\$1,511.09	\$5,828.50
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1.8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,597.84</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
358	1.2.1.3.2.2	Pump PS	SLAC	M&S	3	0 wks	\$0.00	\$173,000.00	\$0.00	\$173,000.00	\$10,380.00	\$64,183.00	\$247,563.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>173,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$173,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
359	1.2.1.3.2.3	Supports	SLAC	B&H	3	14.8 wks	\$0.00	\$0.00	\$29,582.24	\$29,582.24	\$5,916.45	\$12,424.54	\$47,923.23
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>14.8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$29,582.24</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
360	1.2.1.3.2.3	Supports	SLAC	M&S	3	0 wks	\$0.00	\$39,000.00	\$0.00	\$39,000.00	\$2,340.00	\$14,469.00	\$55,809.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>39,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$39,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
361	1.2.1.3.2.3	Loads	SLAC	B&H	3	0.8 wks	\$0.00	\$0.00	\$1,599.04	\$1,599.04	\$319.81	\$671.60	\$2,590.44
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,599.04</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
362	1.2.1.3.2.3	Loads	SLAC	M&S	3	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$1,113.00	\$4,293.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
363	1.2.1.3.2.3	Waveguids	SLAC	B&H	3	25 wks	\$0.00	\$0.00	\$49,970.00	\$49,970.00	\$9,994.00	\$20,987.40	\$80,951.40
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>25 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$49,970.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
364	1.2.1.3.2.3	Waveguids	SLAC	M&S	3	0 wks	\$0.00	\$50,000.00	\$0.00	\$50,000.00	\$3,000.00	\$18,550.00	\$71,550.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>50,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$50,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
365	1.2.1.4	Diagnostics			0	187.8 wks	\$0.00	\$676,000.00	\$505,530.40	\$1,181,530.40	\$141,666.08	\$373,119.99	\$1,696,316.47
366	1.2.1.4.1	Tune-up Dumps			0	8.2 wks	\$0.00	\$5,000.00	\$22,620.40	\$27,620.40	\$4,824.08	\$11,355.57	\$43,800.05
367	1.2.1.4.1.1	TD Materials	SLAC	M&S	3	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$1,855.00	\$7,155.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
368	1.2.1.4.1.2	TD Part Machining	SLAC	B&H	3	4 wks	\$0.00	\$0.00	\$12,800.00	\$12,800.00	\$2,560.00	\$5,376.00	\$20,736.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
369	1.2.1.4.1.3	TD Parts QA	SLAC	B&H	3	0.6 wks	\$0.00	\$0.00	\$1,368.00	\$1,368.00	\$273.60	\$574.56	\$2,216.16
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,368.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
370	1.2.1.4.1.4	TD Plating Cleaning	SLAC	B&H	3	0.4 wks	\$0.00	\$0.00	\$2,000.00	\$2,000.00	\$400.00	\$840.00	\$3,240.00
		<i>SLAC Mech. Fab: Plating & Cleaning</i>		<i>B&H</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
371	1.2.1.4.1.5	TD Brazing/Welding	SLAC	B&H	3	2 wks	\$0.00	\$0.00	\$3,997.60	\$3,997.60	\$799.52	\$1,678.99	\$6,476.11
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,997.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
372	1.2.1.4.1.6	TD Assembly	SLAC	B&H	3	1 wk	\$0.00	\$0.00	\$1,998.80	\$1,998.80	\$399.76	\$839.50	\$3,238.06
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,998.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
373	1.2.1.4.1.7	TD Fiducialize	SLAC	B&H	3	0.2 wks	\$0.00	\$0.00	\$456.00	\$456.00	\$91.20	\$191.52	\$738.72
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$456.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
374	1.2.1.4.2	Wire Scanners			0	33 wks	\$0.00	\$30,000.00	\$91,576.80	\$121,576.80	\$20,115.36	\$35,423.04	\$177,115.20
375	1.2.1.4.2.1	WS Materials	SLAC	M&S	2	0 wks	\$0.00	\$30,000.00	\$0.00	\$30,000.00	\$1,800.00	\$7,950.00	\$39,750.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>30,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$30,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
376	1.2.1.4.2.2	WS Part Machining	SLAC	B&H	2	16 wks	\$0.00	\$0.00	\$51,200.00	\$51,200.00	\$10,240.00	\$15,360.00	\$76,800.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>16 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$51,200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
377	1.2.1.4.2.3	WS Parts QA	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$4,560.00	\$4,560.00	\$912.00	\$1,368.00	\$6,840.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,560.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
378	1.2.1.4.2.4	WS Plating Cleaning	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$10,000.00	\$10,000.00	\$2,000.00	\$3,000.00	\$15,000.00
		<i>SLAC Mech. Fab: Plating & Cleaning</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
379	1.2.1.4.2.5	WS Brazing/Welding	SLAC	B&H	2	4 wks	\$0.00	\$0.00	\$7,995.20	\$7,995.20	\$1,599.04	\$2,398.56	\$11,992.80
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,995.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
380	1.2.1.4.2.6	WS Coating	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$3,548.80	\$3,548.80	\$709.76	\$1,064.64	\$5,323.20
		<i>SLAC Klystron: Technician</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,548.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
381	1.2.1.4.2.7	WS Assembly	SLAC	B&H	2	4 wks	\$0.00	\$0.00	\$7,995.20	\$7,995.20	\$1,599.04	\$2,398.56	\$11,992.80
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,995.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
382	1.2.1.4.2.8	WS Fiducialize	SLAC	B&H	2	1 wk	\$0.00	\$0.00	\$2,280.00	\$2,280.00	\$456.00	\$684.00	\$3,420.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,280.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
383	1.2.1.4.2.9	WS Vac Process	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$3,997.60	\$3,997.60	\$799.52	\$1,199.28	\$5,996.40
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,997.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
384	1.2.1.4.3	BPMs			0	45 wks	\$0.00	\$38,000.00	\$89,946.00	\$127,946.00	\$20,269.20	\$35,572.88	\$183,788.08
385	1.2.1.4.3.1	BPMs	SLAC		0	30 wks	\$0.00	\$28,000.00	\$59,964.00	\$87,964.00	\$13,672.80	\$35,572.88	\$137,209.68
386	1.2.1.4.3.1	Materials	SLAC	M&S	3	0 wks	\$0.00	\$28,000.00	\$0.00	\$28,000.00	\$1,680.00	\$10,388.00	\$40,068.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>28,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$28,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
387	1.2.1.4.3.1	Assembly/Mfg	SLAC	B&H	3	30 wks	\$0.00	\$0.00	\$59,964.00	\$59,964.00	\$11,992.80	\$25,184.88	\$97,141.68
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>30 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$59,964.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
388	1.2.1.4.3.2	SPECIAL PBM	SLAC		0	15 wks	\$0.00	\$10,000.00	\$29,982.00	\$39,982.00	\$6,596.40	\$0.00	\$46,578.40
389	1.2.1.4.3.2	Materials	SLAC	M&S	0	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$600.00	\$0.00	\$10,600.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
390	1.2.1.4.3.2	Assembly/Mfg	SLAC	B&H	0	15 wks	\$0.00	\$0.00	\$29,982.00	\$29,982.00	\$5,996.40	\$0.00	\$35,978.40
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>15 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$29,982.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
391	1.2.1.4.4	Toroids			0	16 wks	\$0.00	\$18,000.00	\$39,676.00	\$57,676.00	\$9,015.20	\$16,672.80	\$83,364.00
392	1.2.1.4.4.1	Toro Materials	SLAC	M&S	2	0 wks	\$0.00	\$18,000.00	\$0.00	\$18,000.00	\$1,080.00	\$4,770.00	\$23,850.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>18,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$18,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
393	1.2.1.4.4.2	Toro Part Machining	SLAC	B&H	2	4 wks	\$0.00	\$0.00	\$12,800.00	\$12,800.00	\$2,560.00	\$3,840.00	\$19,200.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
394	1.2.1.4.4.3	Toro Parts QA	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$4,560.00	\$4,560.00	\$912.00	\$1,368.00	\$6,840.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,560.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
395	1.2.1.4.4.4	Toro Plating Cleaning	SLAC	B&H	2	1 wk	\$0.00	\$0.00	\$5,000.00	\$5,000.00	\$1,000.00	\$1,500.00	\$7,500.00
		<i>SLAC Mech. Fab: Plating & Cleaning</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
396	1.2.1.4.4.5	Toro Brazing/Welding	SLAC	B&H	2	3 wks	\$0.00	\$0.00	\$5,996.40	\$5,996.40	\$1,199.28	\$1,798.92	\$8,994.60
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,996.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
397	1.2.1.4.4.6	Toro Assembly	SLAC	B&H	2	1 wk	\$0.00	\$0.00	\$1,998.80	\$1,998.80	\$399.76	\$599.64	\$2,998.20
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,998.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
398	1.2.1.4.4.7	Toro Coating	SLAC	B&H	2	3 wks	\$0.00	\$0.00	\$5,323.20	\$5,323.20	\$1,064.64	\$1,596.96	\$7,984.80
		<i>SLAC Klystron: Technician</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,323.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
399	1.2.1.4.4.8	Toro Vac Process	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$3,997.60	\$3,997.60	\$799.52	\$1,199.28	\$5,996.40
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,997.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
400	1.2.1.4.5	Faraday Cup			0	19.6 wks	\$0.00	\$16,000.00	\$53,117.20	\$69,117.20	\$11,583.44	\$28,245.22	\$108,945.86
401	1.2.1.4.5.1	FC Materials	SLAC	M&S	3	0 wks	\$0.00	\$16,000.00	\$0.00	\$16,000.00	\$960.00	\$5,936.00	\$22,896.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>16,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$16,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
402	1.2.1.4.5.2	FC Part Machining	SLAC	B&H	3	6 wks	\$0.00	\$0.00	\$19,200.00	\$19,200.00	\$3,840.00	\$8,064.00	\$31,104.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$19,200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
403	1.2.1.4.5.3	FC Parts QA	SLAC	B&H	3	2 wks	\$0.00	\$0.00	\$4,560.00	\$4,560.00	\$912.00	\$1,915.20	\$7,387.20
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,560.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
404	1.2.1.4.5.4	FC Plating Cleaning	SLAC	B&H	3	2 wks	\$0.00	\$0.00	\$10,000.00	\$10,000.00	\$2,000.00	\$4,200.00	\$16,200.00
		<i>SLAC Mech. Fab: Plating & Cleaning</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
405	1.2.1.4.5.5	FC Brazing/Welding	SLAC	B&H	3	4 wks	\$0.00	\$0.00	\$7,995.20	\$7,995.20	\$1,599.04	\$3,357.98	\$12,952.22
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,995.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
406	1.2.1.4.5.6	FC Assembly	SLAC	B&H	3	4 wks	\$0.00	\$0.00	\$7,995.20	\$7,995.20	\$1,599.04	\$3,357.98	\$12,952.22
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,995.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
407	1.2.1.4.5.7	FC Fiducialize	SLAC	B&H	3	0.6 wks	\$0.00	\$0.00	\$1,368.00	\$1,368.00	\$273.60	\$574.56	\$2,216.16
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,368.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
408	1.2.1.4.5.8	FC Vac Process	SLAC	B&H	3	1 wk	\$0.00	\$0.00	\$1,998.80	\$1,998.80	\$399.76	\$839.50	\$3,238.06
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,998.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
409	1.2.1.4.6	Profile Monitor			0	36 wks	\$0.00	\$66,000.00	\$110,877.60	\$176,877.60	\$26,135.52	\$71,054.59	\$274,067.71
410	1.2.1.4.6.1	Prof Materials	SLAC	M&S	3	0 wks	\$0.00	\$66,000.00	\$0.00	\$66,000.00	\$3,960.00	\$24,486.00	\$94,446.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>66,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$66,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
411	1.2.1.4.6.2	Prof Part Machining	SLAC	B&H	3	16 wks	\$0.00	\$0.00	\$51,200.00	\$51,200.00	\$10,240.00	\$21,504.00	\$82,944.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>16 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$51,200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
412	1.2.1.4.6.3	Prof Parts QA	SLAC	B&H	3	4 wks	\$0.00	\$0.00	\$9,120.00	\$9,120.00	\$1,824.00	\$3,830.40	\$14,774.40
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,120.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
413	1.2.1.4.6.4	Prof Plating Cleaning	SLAC	B&H	3	2 wks	\$0.00	\$0.00	\$10,000.00	\$10,000.00	\$2,000.00	\$4,200.00	\$16,200.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC Mech. Fab: Plating & Cleaning</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
414	1.2.1.4.6.5	Prof Brazing/Welding	SLAC	B&H	3	6 wks	\$0.00	\$0.00	\$19,200.00	\$19,200.00	\$3,840.00	\$8,064.00	\$31,104.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$19,200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
415	1.2.1.4.6.6	Prof Assembly	SLAC	B&H	3	4 wks	\$0.00	\$0.00	\$12,800.00	\$12,800.00	\$2,560.00	\$5,376.00	\$20,736.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
416	1.2.1.4.6.7	Prof Fiducialize	SLAC	B&H	3	2 wks	\$0.00	\$0.00	\$4,560.00	\$4,560.00	\$912.00	\$1,915.20	\$7,387.20
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,560.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
417	1.2.1.4.6.8	Prof Vac Process	SLAC	B&H	3	2 wks	\$0.00	\$0.00	\$3,997.60	\$3,997.60	\$799.52	\$1,678.99	\$6,476.11
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,997.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
418	1.2.1.4.7	E-O Diagnostic			0	30 wks	\$0.00	\$363,000.00	\$97,716.40	\$460,716.40	\$41,323.28	\$152,535.89	\$654,575.57
419	1.2.1.4.7.1	E-O Physics	SLAC	ED&I	4	25 wks	\$0.00	\$0.00	\$85,000.00	\$85,000.00	\$17,000.00	\$51,000.00	\$153,000.00
		<i>SLAC Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>25 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$85,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
420	1.2.1.4.7.2	E-O Optics	SLAC	M&S	2	0 wks	\$0.00	\$87,000.00	\$0.00	\$87,000.00	\$5,220.00	\$23,055.00	\$115,275.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>87,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$87,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
421	1.2.1.4.7.3	E-O Instruments	SLAC	M&S	2	0 wks	\$0.00	\$180,000.00	\$0.00	\$180,000.00	\$10,800.00	\$47,700.00	\$238,500.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>180,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$180,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
422	1.2.1.4.7.4	E-O Vacuum	SLAC	M&S	2	0 wks	\$0.00	\$96,000.00	\$0.00	\$96,000.00	\$5,760.00	\$25,440.00	\$127,200.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>96,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$96,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
423	1.2.1.4.7.5	E-O Assembly	SLAC	B&H	3	3 wks	\$0.00	\$0.00	\$5,996.40	\$5,996.40	\$1,199.28	\$2,518.49	\$9,714.17
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,996.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
424	1.2.1.4.7.6	Proc., Man. & Assembly Supervision	SLAC	ED&I	3	2 wks	\$0.00	\$0.00	\$6,720.00	\$6,720.00	\$1,344.00	\$2,822.40	\$10,886.40
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,720.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
425	1.2.1.4.8	Miscellaneous Dignostic Equip			0	0 wks	\$0.00	\$140,000.00	\$0.00	\$140,000.00	\$8,400.00	\$22,260.00	\$170,660.00
426	1.2.1.4.8.1	Gating & Timing system gate generator	SLAC	M&S	1	0 wks	\$0.00	\$15,000.00	\$0.00	\$15,000.00	\$900.00	\$2,385.00	\$18,285.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>15,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$15,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
427	1.2.1.4.8.2	Gating & Timing video synch unit	SLAC	M&S	1	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$600.00	\$1,590.00	\$12,190.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
428	1.2.1.4.8.3	Video System video switcher	SLAC	M&S	1	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$795.00	\$6,095.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
429	1.2.1.4.8.4	Video System frame grabber	SLAC	M&S	1	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$795.00	\$6,095.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
430	1.2.1.4.8.5	Video System software	SLAC	M&S	1	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$795.00	\$6,095.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
431	1.2.1.4.8.6	Gated Intensified cameras	SLAC	M&S	1	0 wks	\$0.00	\$100,000.00	\$0.00	\$100,000.00	\$6,000.00	\$15,900.00	\$121,900.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>100,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$100,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
432	1.2.1.5	Power Conversion			0	179.8 wks	\$0.00	\$311,600.00	\$405,776.00	\$717,376.00	\$99,851.20	\$204,306.80	\$1,021,534.00
433	1.2.1.5.1	New Power Supplies			0	102 wks	\$0.00	\$122,900.00	\$215,280.00	\$338,180.00	\$50,430.00	\$97,152.50	\$485,762.50
434	1.2.1.5.1.1	Solenoid Sol1 15KW	SLAC	M&S	2	0 wks	\$0.00	\$6,500.00	\$0.00	\$6,500.00	\$390.00	\$1,722.50	\$8,612.50
		<i>SLAC M&S Total</i>		M&S	0	6,500	\$0.00	\$0.00	\$0.00	\$6,500.00	\$0.00	\$0.00	\$0.00
435	1.2.1.5.1.2	Solenoid Sol2 30KW	SLAC	M&S	2	0 wks	\$0.00	\$13,000.00	\$0.00	\$13,000.00	\$780.00	\$3,445.00	\$17,225.00
		<i>SLAC M&S Total</i>		M&S	0	13,000	\$0.00	\$0.00	\$0.00	\$13,000.00	\$0.00	\$0.00	\$0.00
436	1.2.1.5.1.3	B0.5 Spect 2KW	SLAC	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$1,325.00	\$6,625.00
		<i>SLAC M&S Total</i>		M&S	0	5,000	\$0.00	\$0.00	\$0.00	\$5,000.00	\$0.00	\$0.00	\$0.00
437	1.2.1.5.1.4	B1-2 15KW	SLAC	M&S	2	0 wks	\$0.00	\$6,500.00	\$0.00	\$6,500.00	\$390.00	\$1,722.50	\$8,612.50
		<i>SLAC M&S Total</i>		M&S	0	6,500	\$0.00	\$0.00	\$0.00	\$6,500.00	\$0.00	\$0.00	\$0.00
438	1.2.1.5.1.5	B3 Spect.15KW	SLAC	M&S	2	0 wks	\$0.00	\$6,500.00	\$0.00	\$6,500.00	\$390.00	\$1,722.50	\$8,612.50
		<i>SLAC M&S Total</i>		M&S	0	6,500	\$0.00	\$0.00	\$0.00	\$6,500.00	\$0.00	\$0.00	\$0.00
439	1.2.1.5.1.6	MCOR Bulk 10KW	SLAC	M&S	2	0 wks	\$0.00	\$32,500.00	\$0.00	\$32,500.00	\$1,950.00	\$8,612.50	\$43,062.50
		<i>SLAC M&S Total</i>		M&S	0	32,500	\$0.00	\$0.00	\$0.00	\$32,500.00	\$0.00	\$0.00	\$0.00
440	1.2.1.5.1.7	XCS1, 40V/12A MCOR	SLAC	M&S	2	0 wks	\$0.00	\$1,300.00	\$0.00	\$1,300.00	\$78.00	\$344.50	\$1,722.50
		<i>SLAC M&S Total</i>		M&S	0	1,300	\$0.00	\$0.00	\$0.00	\$1,300.00	\$0.00	\$0.00	\$0.00
441	1.2.1.5.1.8	YCS1, 40V/12A MCOR	SLAC	M&S	2	0 wks	\$0.00	\$1,300.00	\$0.00	\$1,300.00	\$78.00	\$344.50	\$1,722.50
		<i>SLAC M&S Total</i>		M&S	0	1,300	\$0.00	\$0.00	\$0.00	\$1,300.00	\$0.00	\$0.00	\$0.00
442	1.2.1.5.1.9	XCS2, 40V/12A MCOR	SLAC	M&S	2	0 wks	\$0.00	\$1,300.00	\$0.00	\$1,300.00	\$78.00	\$344.50	\$1,722.50
		<i>SLAC M&S Total</i>		M&S	0	1,300	\$0.00	\$0.00	\$0.00	\$1,300.00	\$0.00	\$0.00	\$0.00
443	1.2.1.5.1.10	YCS2, 40V/12A MCOR	SLAC	M&S	2	0 wks	\$0.00	\$1,300.00	\$0.00	\$1,300.00	\$78.00	\$344.50	\$1,722.50
		<i>SLAC M&S Total</i>		M&S	0	1,300	\$0.00	\$0.00	\$0.00	\$1,300.00	\$0.00	\$0.00	\$0.00
444	1.2.1.5.1.11	XCS3, 50V/30A MCOR	SLAC	M&S	2	0 wks	\$0.00	\$1,800.00	\$0.00	\$1,800.00	\$108.00	\$477.00	\$2,385.00
		<i>SLAC M&S Total</i>		M&S	0	1,800	\$0.00	\$0.00	\$0.00	\$1,800.00	\$0.00	\$0.00	\$0.00
445	1.2.1.5.1.12	YCS3, 50V/30A MCOR	SLAC	M&S	2	0 wks	\$0.00	\$1,800.00	\$0.00	\$1,800.00	\$108.00	\$477.00	\$2,385.00
		<i>SLAC M&S Total</i>		M&S	0	1,800	\$0.00	\$0.00	\$0.00	\$1,800.00	\$0.00	\$0.00	\$0.00
446	1.2.1.5.1.13	XCS4, 50V/30A MCOR	SLAC	M&S	2	0 wks	\$0.00	\$1,800.00	\$0.00	\$1,800.00	\$108.00	\$477.00	\$2,385.00
		<i>SLAC M&S Total</i>		M&S	0	1,800	\$0.00	\$0.00	\$0.00	\$1,800.00	\$0.00	\$0.00	\$0.00
447	1.2.1.5.1.14	YCS4, 50V/30A MCOR	SLAC	M&S	2	0 wks	\$0.00	\$1,800.00	\$0.00	\$1,800.00	\$108.00	\$477.00	\$2,385.00
		<i>SLAC M&S Total</i>		M&S	0	1,800	\$0.00	\$0.00	\$0.00	\$1,800.00	\$0.00	\$0.00	\$0.00
448	1.2.1.5.1.15	XCS5, 50V/30A MCOR	SLAC	M&S	2	0 wks	\$0.00	\$1,800.00	\$0.00	\$1,800.00	\$108.00	\$477.00	\$2,385.00
		<i>SLAC M&S Total</i>		M&S	0	1,800	\$0.00	\$0.00	\$0.00	\$1,800.00	\$0.00	\$0.00	\$0.00
449	1.2.1.5.1.16	YCS5, 50V/30A MCOR	SLAC	M&S	2	0 wks	\$0.00	\$1,800.00	\$0.00	\$1,800.00	\$108.00	\$477.00	\$2,385.00
		<i>SLAC M&S Total</i>		M&S	0	1,800	\$0.00	\$0.00	\$0.00	\$1,800.00	\$0.00	\$0.00	\$0.00
450	1.2.1.5.1.17	QE01, 40V/12A MCOR	SLAC	M&S	2	0 wks	\$0.00	\$1,300.00	\$0.00	\$1,300.00	\$78.00	\$344.50	\$1,722.50

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,300</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,300.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
451	1.2.1.5.1.18	QE02, 40V/12A MCOR	SLAC	M&S	2	0 wks	\$0.00	\$1,300.00	\$0.00	\$1,300.00	\$78.00	\$344.50	\$1,722.50
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,300</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,300.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
452	1.2.1.5.1.19	XCS6, 50V/30A MCOR	SLAC	M&S	2	0 wks	\$0.00	\$1,800.00	\$0.00	\$1,800.00	\$108.00	\$477.00	\$2,385.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,800</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
453	1.2.1.5.1.20	QE03, 40V/12A MCOR	SLAC	M&S	2	0 wks	\$0.00	\$1,300.00	\$0.00	\$1,300.00	\$78.00	\$344.50	\$1,722.50
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,300</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,300.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
454	1.2.1.5.1.21	YCS6, 50V/30A MCOR	SLAC	M&S	2	0 wks	\$0.00	\$1,800.00	\$0.00	\$1,800.00	\$108.00	\$477.00	\$2,385.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,800</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
455	1.2.1.5.1.22	QE04, 40V/12A MCOR	SLAC	M&S	2	0 wks	\$0.00	\$1,300.00	\$0.00	\$1,300.00	\$78.00	\$344.50	\$1,722.50
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,300</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,300.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
456	1.2.1.5.1.23	XCS7, 50V/30A MCOR	SLAC	M&S	2	0 wks	\$0.00	\$1,800.00	\$0.00	\$1,800.00	\$108.00	\$477.00	\$2,385.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,800</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
457	1.2.1.5.1.24	YCS7, 50V/30A MCOR	SLAC	M&S	2	0 wks	\$0.00	\$1,800.00	\$0.00	\$1,800.00	\$108.00	\$477.00	\$2,385.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,800</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
458	1.2.1.5.1.25	XCS8, 50V/30A MCOR	SLAC	M&S	2	0 wks	\$0.00	\$1,800.00	\$0.00	\$1,800.00	\$108.00	\$477.00	\$2,385.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,800</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
459	1.2.1.5.1.26	YCS8, 50V/30A MCOR	SLAC	M&S	2	0 wks	\$0.00	\$1,800.00	\$0.00	\$1,800.00	\$108.00	\$477.00	\$2,385.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,800</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
460	1.2.1.5.1.27	QM01, 40V/12A MCOR	SLAC	M&S	2	0 wks	\$0.00	\$1,300.00	\$0.00	\$1,300.00	\$78.00	\$344.50	\$1,722.50
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,300</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,300.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
461	1.2.1.5.1.28	QM02, 40V/12A MCOR	SLAC	M&S	2	0 wks	\$0.00	\$1,300.00	\$0.00	\$1,300.00	\$78.00	\$344.50	\$1,722.50
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,300</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,300.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
462	1.2.1.5.1.29	B01T, 50V/30A MCOR	SLAC	M&S	2	0 wks	\$0.00	\$1,800.00	\$0.00	\$1,800.00	\$108.00	\$477.00	\$2,385.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,800</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
463	1.2.1.5.1.30	B02T, 50V/30A MCOR	SLAC	M&S	2	0 wks	\$0.00	\$1,800.00	\$0.00	\$1,800.00	\$108.00	\$477.00	\$2,385.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,800</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
464	1.2.1.5.1.31	QB, 40V/12A MCOR	SLAC	M&S	2	0 wks	\$0.00	\$1,300.00	\$0.00	\$1,300.00	\$78.00	\$344.50	\$1,722.50
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,300</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,300.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
465	1.2.1.5.1.32	QM03, 40V/12A MCOR	SLAC	M&S	2	0 wks	\$0.00	\$1,300.00	\$0.00	\$1,300.00	\$78.00	\$344.50	\$1,722.50
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,300</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,300.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
466	1.2.1.5.1.33	YCS9V, 50V/30A MCOR	SLAC	M&S	2	0 wks	\$0.00	\$1,800.00	\$0.00	\$1,800.00	\$108.00	\$477.00	\$2,385.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,800</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
467	1.2.1.5.1.34	QM04, 40V/12A MCOR	SLAC	M&S	2	0 wks	\$0.00	\$1,300.00	\$0.00	\$1,300.00	\$78.00	\$344.50	\$1,722.50
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,300</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,300.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
468	1.2.1.5.1.35	HCS9H, 50V/30A MCOR	SLAC	M&S	2	0 wks	\$0.00	\$1,800.00	\$0.00	\$1,800.00	\$108.00	\$477.00	\$2,385.00
		SLAC M&S Total		M&S	0	1,800	\$0.00	\$0.00	\$0.00	\$1,800.00	\$0.00	\$0.00	\$0.00
469	1.2.1.5.1.36	XCS10, 50V/30A MCOR	SLAC	M&S	2	0 wks	\$0.00	\$1,800.00	\$0.00	\$1,800.00	\$108.00	\$477.00	\$2,385.00
		SLAC M&S Total		M&S	0	1,800	\$0.00	\$0.00	\$0.00	\$1,800.00	\$0.00	\$0.00	\$0.00
470	1.2.1.5.1.37	YCS10, 50V/30A MCOR	SLAC	M&S	2	0 wks	\$0.00	\$1,800.00	\$0.00	\$1,800.00	\$108.00	\$477.00	\$2,385.00
		SLAC M&S Total		M&S	0	1,800	\$0.00	\$0.00	\$0.00	\$1,800.00	\$0.00	\$0.00	\$0.00
471	1.2.1.5.1.38	XCS11, 50V/30A MCOR	SLAC	M&S	2	0 wks	\$0.00	\$1,800.00	\$0.00	\$1,800.00	\$108.00	\$477.00	\$2,385.00
		SLAC M&S Total		M&S	0	1,800	\$0.00	\$0.00	\$0.00	\$1,800.00	\$0.00	\$0.00	\$0.00
472	1.2.1.5.1.39	YCS11, 50V/30A MCOR	SLAC	M&S	2	0 wks	\$0.00	\$1,800.00	\$0.00	\$1,800.00	\$108.00	\$477.00	\$2,385.00
		SLAC M&S Total		M&S	0	1,800	\$0.00	\$0.00	\$0.00	\$1,800.00	\$0.00	\$0.00	\$0.00
473	1.2.1.5.1.40	Planning (PS and Cable Plant)	SLAC	ED&I	2	20 wks	\$0.00	\$0.00	\$60,000.00	\$60,000.00	\$12,000.00	\$18,000.00	\$90,000.00
		SLAC PCD:Engineer		ED&I	0	20 wks	\$0.00	\$0.00	\$0.00	\$60,000.00	\$0.00	\$0.00	\$0.00
474	1.2.1.5.1.40	Planning (PS and Cable Plant)	SLAC	B&H	2	25 wks	\$0.00	\$0.00	\$43,840.00	\$43,840.00	\$8,768.00	\$13,152.00	\$65,760.00
		SLAC PCD:Technician		B&H	0	25 wks	\$0.00	\$0.00	\$0.00	\$43,840.00	\$0.00	\$0.00	\$0.00
475	1.2.1.5.1.41	System Dwg (EI, WD, Profile for Cable Plant)	SLAC	ED&I	2	32 wks	\$0.00	\$0.00	\$61,440.00	\$61,440.00	\$12,288.00	\$18,432.00	\$92,160.00
		SLAC PCD:Coordinator Associate		ED&I	0	32 wks	\$0.00	\$0.00	\$0.00	\$61,440.00	\$0.00	\$0.00	\$0.00
476	1.2.1.5.1.41	System Dwg (EI, WD, Profile for Cable Plant)	SLAC	B&H	2	25 wks	\$0.00	\$0.00	\$50,000.00	\$50,000.00	\$10,000.00	\$15,000.00	\$75,000.00
		SLACL PCD:Inst-Cabling-Elec Fab		B&H	0	25 wks	\$0.00	\$0.00	\$0.00	\$50,000.00	\$0.00	\$0.00	\$0.00
477	1.2.1.5.2	Cntrlrs/Transducers/Switches			0	0 wks	\$0.00	\$32,100.00	\$0.00	\$32,100.00	\$1,926.00	\$8,506.50	\$42,532.50
478	1.2.1.5.2.1	MCOR Chassis	SLAC	B&H	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		SLAC PCD:Technician		B&H	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
479	1.2.1.5.2.1	MCOR Chassis	SLAC	ED&I	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		SLAC PCD:Engineer		ED&I	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
480	1.2.1.5.2.1	MCOR Chassis	SLAC	M&S	2	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$600.00	\$2,650.00	\$13,250.00
		SLAC M&S Total		M&S	0	10,000	\$0.00	\$0.00	\$0.00	\$10,000.00	\$0.00	\$0.00	\$0.00
481	1.2.1.5.2.2	Bitbus Controller	SLAC	B&H	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		SLAC PCD:Technician		B&H	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
482	1.2.1.5.2.2	Bitbus Controller	SLAC	ED&I	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		SLAC PCD:Engineer		ED&I	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
483	1.2.1.5.2.2	Bitbus Controller	SLAC	M&S	2	0 wks	\$0.00	\$9,000.00	\$0.00	\$9,000.00	\$540.00	\$2,385.00	\$11,925.00
		SLAC M&S Total		M&S	0	9,000	\$0.00	\$0.00	\$0.00	\$9,000.00	\$0.00	\$0.00	\$0.00
484	1.2.1.5.2.3	Klixon/Run Safe Box	SLAC	B&H	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		SLAC PCD:Technician		B&H	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
485	1.2.1.5.2.3	Klixon/Run Safe Box	SLAC	ED&I	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		SLAC PCD:Engineer		ED&I	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
486	1.2.1.5.2.3	Klixon/Run Safe Box	SLAC	M&S	2	0 wks	\$0.00	\$7,500.00	\$0.00	\$7,500.00	\$450.00	\$1,987.50	\$9,937.50
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>7,500</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,500.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
487	1.2.1.5.2.4	150 A Transductor	SLAC	B&H	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC PCD:Technician</i>		<i>B&H</i>	<i>0</i>	<i>0 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
488	1.2.1.5.2.4	150 A Transductor	SLAC	ED&I	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC PCD:Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
489	1.2.1.5.2.4	150 A Transductor	SLAC	M&S	2	0 wks	\$0.00	\$1,400.00	\$0.00	\$1,400.00	\$84.00	\$371.00	\$1,855.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,400</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
490	1.2.1.5.2.5	300 A Transductor	SLAC	M&S	2	0 wks	\$0.00	\$1,400.00	\$0.00	\$1,400.00	\$84.00	\$371.00	\$1,855.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,400</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
491	1.2.1.5.2.6	600 A Transductor	SLAC	M&S	2	0 wks	\$0.00	\$2,800.00	\$0.00	\$2,800.00	\$168.00	\$742.00	\$3,710.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,800</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
492	1.2.1.5.3	Racks, Cables, Trays			0	77.8 wks	\$0.00	\$156,600.00	\$190,496.00	\$347,096.00	\$47,495.20	\$98,647.80	\$493,239.00
493	1.2.1.5.3.1	Rack, Single Bay (DC and I&C)	SLAC	B&H	2	1 wk	\$0.00	\$0.00	\$2,720.00	\$2,720.00	\$544.00	\$816.00	\$4,080.00
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,720.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
494	1.2.1.5.3.1	Rack, Single Bay (DC and I&C)	SLAC	M&S	2	0 wks	\$0.00	\$25,200.00	\$0.00	\$25,200.00	\$1,512.00	\$6,678.00	\$33,390.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>25,200</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$25,200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
495	1.2.1.5.3.2	Rack, Double bay	SLAC	B&H	2	2.13 wks	\$0.00	\$0.00	\$5,793.60	\$5,793.60	\$1,158.72	\$1,738.08	\$8,690.40
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>2.13 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,793.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
496	1.2.1.5.3.2	Rack, Double bay	SLAC	M&S	2	0 wks	\$0.00	\$22,500.00	\$0.00	\$22,500.00	\$1,350.00	\$5,962.50	\$29,812.50
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>22,500</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$22,500.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
497	1.2.1.5.3.3	AC Pwr to rack(DC and I&C)	SLAC	B&H	2	3.13 wks	\$0.00	\$0.00	\$8,513.60	\$8,513.60	\$1,702.72	\$2,554.08	\$12,770.40
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>3.13 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,513.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
498	1.2.1.5.3.3	AC Pwr to rack(DC and I&C)	SLAC	M&S	2	0 wks	\$0.00	\$25,000.00	\$0.00	\$25,000.00	\$1,500.00	\$6,625.00	\$33,125.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>25,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$25,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
499	1.2.1.5.3.4	Earthquake racks(DC and I&C)	SLAC	B&H	2	0.67 wks	\$0.00	\$0.00	\$1,822.40	\$1,822.40	\$364.48	\$546.72	\$2,733.60
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>0.67 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,822.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
500	1.2.1.5.3.4	Earthquake racks(DC and I&C)	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
501	1.2.1.5.3.5	20A 2P Latching NR Contactor(DC and I&C)	SLAC	B&H	2	0.5 wks	\$0.00	\$0.00	\$1,360.00	\$1,360.00	\$272.00	\$408.00	\$2,040.00
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>0.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,360.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
502	1.2.1.5.3.5	20A 2P Latching NR Contactor(DC and I&C)	SLAC	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$795.00	\$3,975.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
503	1.2.1.5.3.6	200A 2P Latching NR Contactor (DC and I&C)	SLAC	B&H	2	1.13 wks	\$0.00	\$0.00	\$3,073.60	\$3,073.60	\$614.72	\$922.08	\$4,610.40
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>1.13 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,073.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
504	1.2.1.5.3.6	200A 2P Latching NR Contactor (DC and I&C)	SLAC	M&S	2	0 wks	\$0.00	\$21,000.00	\$0.00	\$21,000.00	\$1,260.00	\$5,565.00	\$27,825.00
		SLAC M&S Total		M&S	0	21,000	\$0.00	\$0.00	\$0.00	\$21,000.00	\$0.00	\$0.00	\$0.00
505	1.2.1.5.3.7	20 - 200A Contactor Control (DC and I&C)	SLAC	B&H	2	0.83 wks	\$0.00	\$0.00	\$2,257.60	\$2,257.60	\$451.52	\$677.28	\$3,386.40
		SLAC T&M Crafts - Union Electrician		B&H	0	0.83 wks	\$0.00	\$0.00	\$0.00	\$2,257.60	\$0.00	\$0.00	\$0.00
506	1.2.1.5.3.7	20 - 200A Contactor Control (DC and I&C)	SLAC	M&S	2	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$600.00	\$2,650.00	\$13,250.00
		SLAC M&S Total		M&S	0	10,000	\$0.00	\$0.00	\$0.00	\$10,000.00	\$0.00	\$0.00	\$0.00
507	1.2.1.5.3.8	Corr, Low Power Trims, Bipolar	SLAC	B&H	2	0.83 wks	\$0.00	\$0.00	\$2,257.60	\$2,257.60	\$451.52	\$677.28	\$3,386.40
		SLAC T&M Crafts - Union Electrician		B&H	0	0.83 wks	\$0.00	\$0.00	\$0.00	\$2,257.60	\$0.00	\$0.00	\$0.00
508	1.2.1.5.3.8	Corr, Low Power Trims, Bipolar	SLAC	M&S	2	0 wks	\$0.00	\$1,500.00	\$0.00	\$1,500.00	\$90.00	\$397.50	\$1,987.50
		SLAC M&S Total		M&S	0	1,500	\$0.00	\$0.00	\$0.00	\$1,500.00	\$0.00	\$0.00	\$0.00
509	1.2.1.5.3.9	2/C#18AWG Interlock	SLAC	B&H	2	0.4 wks	\$0.00	\$0.00	\$1,088.00	\$1,088.00	\$217.60	\$326.40	\$1,632.00
		SLAC T&M Crafts - Union Electrician		B&H	0	0.4 wks	\$0.00	\$0.00	\$0.00	\$1,088.00	\$0.00	\$0.00	\$0.00
510	1.2.1.5.3.9	2/C#18AWG Interlock	SLAC	M&S	2	0 wks	\$0.00	\$400.00	\$0.00	\$400.00	\$24.00	\$106.00	\$530.00
		SLAC M&S Total		M&S	0	400	\$0.00	\$0.00	\$0.00	\$400.00	\$0.00	\$0.00	\$0.00
511	1.2.1.5.3.10	1-2/C#8 AWG	SLAC	B&H	2	3.33 wks	\$0.00	\$0.00	\$9,057.60	\$9,057.60	\$1,811.52	\$2,717.28	\$13,586.40
		SLAC T&M Crafts - Union Electrician		B&H	0	3.33 wks	\$0.00	\$0.00	\$0.00	\$9,057.60	\$0.00	\$0.00	\$0.00
512	1.2.1.5.3.10	1-2/C#8 AWG	SLAC	M&S	2	0 wks	\$0.00	\$8,200.00	\$0.00	\$8,200.00	\$492.00	\$2,173.00	\$10,865.00
		SLAC M&S Total		M&S	0	8,200	\$0.00	\$0.00	\$0.00	\$8,200.00	\$0.00	\$0.00	\$0.00
513	1.2.1.5.3.11	1/C#600kcmil	SLAC	B&H	2	3.63 wks	\$0.00	\$0.00	\$9,873.60	\$9,873.60	\$1,974.72	\$2,962.08	\$14,810.40
		SLAC T&M Crafts - Union Electrician		B&H	0	3.63 wks	\$0.00	\$0.00	\$0.00	\$9,873.60	\$0.00	\$0.00	\$0.00
514	1.2.1.5.3.12	Cable lugs, Splices, Etc	SLAC	M&S	2	0 wks	\$0.00	\$500.00	\$0.00	\$500.00	\$30.00	\$132.50	\$662.50
		SLAC M&S Total		M&S	0	500	\$0.00	\$0.00	\$0.00	\$500.00	\$0.00	\$0.00	\$0.00
515	1.2.1.5.3.13	18"W 4"D G Stl Cable Tray (DC and I&C)	SLAC	B&H	2	3.71 wks	\$0.00	\$0.00	\$10,091.20	\$10,091.20	\$2,018.24	\$3,027.36	\$15,136.80
		SLAC T&M Crafts - Union Electrician		B&H	0	3.71 wks	\$0.00	\$0.00	\$0.00	\$10,091.20	\$0.00	\$0.00	\$0.00
516	1.2.1.5.3.13	18"W 4"D G Stl Cable Tray (DC and I&C)	SLAC	M&S	2	0 wks	\$0.00	\$19,000.00	\$0.00	\$19,000.00	\$1,140.00	\$5,035.00	\$25,175.00
		SLAC M&S Total		M&S	0	19,000	\$0.00	\$0.00	\$0.00	\$19,000.00	\$0.00	\$0.00	\$0.00
517	1.2.1.5.3.14	Cable Tray Fittings (DC and I&C)	SLAC	B&H	2	0.83 wks	\$0.00	\$0.00	\$2,257.60	\$2,257.60	\$451.52	\$677.28	\$3,386.40
		SLAC T&M Crafts - Union Electrician		B&H	0	0.83 wks	\$0.00	\$0.00	\$0.00	\$2,257.60	\$0.00	\$0.00	\$0.00
518	1.2.1.5.3.14	Cable Tray Fittings (DC and I&C)	SLAC	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$1,590.00	\$7,950.00
		SLAC M&S Total		M&S	0	6,000	\$0.00	\$0.00	\$0.00	\$6,000.00	\$0.00	\$0.00	\$0.00
519	1.2.1.5.3.15	Trapeze Cable Tray Supports (DC and I&C)	SLAC	B&H	2	3.75 wks	\$0.00	\$0.00	\$10,200.00	\$10,200.00	\$2,040.00	\$3,060.00	\$15,300.00
		SLAC T&M Crafts - Union Electrician		B&H	0	3.75 wks	\$0.00	\$0.00	\$0.00	\$10,200.00	\$0.00	\$0.00	\$0.00
520	1.2.1.5.3.15	Trapeze Cable Tray Supports (DC and I&C)	SLAC	M&S	2	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$420.00	\$1,855.00	\$9,275.00
		SLAC M&S Total		M&S	0	7,000	\$0.00	\$0.00	\$0.00	\$7,000.00	\$0.00	\$0.00	\$0.00
521	1.2.1.5.3.16	Cable Tray Grounding (DC and I&C, \$1.8/ft)	SLAC	B&H	2	1.33 wks	\$0.00	\$0.00	\$3,617.60	\$3,617.60	\$723.52	\$1,085.28	\$5,426.40

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>1.33 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,617.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
522	1.2.1.5.3.16	Cable Tray Grounding (DC and I&C, \$1.8/ft)	SLAC	M&S	2	0 wks	\$0.00	\$3,600.00	\$0.00	\$3,600.00	\$216.00	\$954.00	\$4,770.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,600</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
523	1.2.1.5.3.17	Gnd Jumpers (DC and I&C)	SLAC	B&H	2	1 wk	\$0.00	\$0.00	\$2,720.00	\$2,720.00	\$544.00	\$816.00	\$4,080.00
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,720.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
524	1.2.1.5.3.17	Gnd Jumpers (DC and I&C)	SLAC	M&S	2	0 wks	\$0.00	\$1,500.00	\$0.00	\$1,500.00	\$90.00	\$397.50	\$1,987.50
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,500</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,500.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
525	1.2.1.5.3.18	Conduits for Linac penetrations, 4"ID	SLAC	B&H	2	1.6 wks	\$0.00	\$0.00	\$4,352.00	\$4,352.00	\$870.40	\$1,305.60	\$6,528.00
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>1.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,352.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
526	1.2.1.5.3.18	Conduits for Linac penetrations, 4"ID	SLAC	M&S	2	0 wks	\$0.00	\$1,200.00	\$0.00	\$1,200.00	\$72.00	\$318.00	\$1,590.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,200</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
527	1.2.1.5.3.19	Area Layouts/Raceways/Supports (DC and I&C)	SLAC	ED&I	2	16 wks	\$0.00	\$0.00	\$48,000.00	\$48,000.00	\$9,600.00	\$14,400.00	\$72,000.00
		<i>SLAC PCD:Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>16 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$48,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
528	1.2.1.5.3.20	Corordination/UTR&Engr(C. Plant Group, DC and I&C)	SLAC	ED&I	2	24 wks	\$0.00	\$0.00	\$46,080.00	\$46,080.00	\$9,216.00	\$13,824.00	\$69,120.00
		<i>SLAC PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>24 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$46,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
529	1.2.1.5.3.21	Captar Documentation (DC and I&C)	SLAC	ED&I	2	8 wks	\$0.00	\$0.00	\$15,360.00	\$15,360.00	\$3,072.00	\$4,608.00	\$23,040.00
		<i>SLAC PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$15,360.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
530	1.2.1.6	Magnets			0	150.9 wks	\$0.00	\$92,001.00	\$372,047.36	\$464,048.36	\$79,929.53	\$158,758.44	\$702,736.33
531	1.2.1.6.1	Bend Magnets - 5D7.1			0	12 wks	\$0.00	\$15,000.00	\$33,820.16	\$48,820.16	\$7,664.03	\$14,121.05	\$70,605.24
532	1.2.1.6.1.1	Magnet Materials	SLAC	M&S	2	0 wks	\$0.00	\$15,000.00	\$0.00	\$15,000.00	\$900.00	\$3,975.00	\$19,875.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>15,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$15,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
533	1.2.1.6.1.2	Magnet Machining	SLAC	B&H	2	8 wks	\$0.00	\$0.00	\$25,600.00	\$25,600.00	\$5,120.00	\$7,680.00	\$38,400.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$25,600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
534	1.2.1.6.1.3	Mag Coil Winding	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$3,997.60	\$3,997.60	\$799.52	\$1,199.28	\$5,996.40
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,997.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
535	1.2.1.6.1.4	Magnet Assembly	SLAC	B&H	2	1.2 wks	\$0.00	\$0.00	\$2,398.56	\$2,398.56	\$479.71	\$719.57	\$3,597.84
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,398.56</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
536	1.2.1.6.1.5	Fiducialization	SLAC	B&H	2	0.4 wks	\$0.00	\$0.00	\$912.00	\$912.00	\$182.40	\$273.60	\$1,368.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$912.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
537	1.2.1.6.1.6	Mag Measure	SLAC	B&H	2	0.4 wks	\$0.00	\$0.00	\$912.00	\$912.00	\$182.40	\$273.60	\$1,368.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$912.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
538	1.2.1.6.2	Quadrupoles - 1Q5.6			0	45 wks	\$0.00	\$45,000.00	\$123,390.72	\$168,390.72	\$27,378.14	\$48,942.22	\$244,711.08
539	1.2.1.6.2.1	Magnet Materials	SLAC	M&S	2	0 wks	\$0.00	\$45,000.00	\$0.00	\$45,000.00	\$2,700.00	\$11,925.00	\$59,625.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>45,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$45,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
540	1.2.1.6.2.2	Magnet Machining	SLAC	B&H	2	27 wks	\$0.00	\$0.00	\$86,400.00	\$86,400.00	\$17,280.00	\$25,920.00	\$129,600.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>27 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$86,400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
541	1.2.1.6.2.3	Mag Coil Winding	SLAC	B&H	2	9 wks	\$0.00	\$0.00	\$17,989.20	\$17,989.20	\$3,597.84	\$5,396.76	\$26,983.80
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>9 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$17,989.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
542	1.2.1.6.2.4	Magnet Assembly	SLAC	B&H	2	5.4 wks	\$0.00	\$0.00	\$10,793.52	\$10,793.52	\$2,158.70	\$3,238.06	\$16,190.28
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>5.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,793.52</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
543	1.2.1.6.2.5	Fiducialization	SLAC	B&H	2	1.8 wks	\$0.00	\$0.00	\$4,104.00	\$4,104.00	\$820.80	\$1,231.20	\$6,156.00
		<i>SLAC Metrology:Eng. & Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>1.8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,104.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
544	1.2.1.6.2.6	Mag Measure	SLAC	B&H	2	1.8 wks	\$0.00	\$0.00	\$4,104.00	\$4,104.00	\$820.80	\$1,231.20	\$6,156.00
		<i>SLAC Metrology:Eng. & Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>1.8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,104.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
545	1.2.1.6.3	Gun Solenoid			0	54.5 wks	\$0.00	\$5,000.00	\$113,698.80	\$118,698.80	\$23,039.76	\$58,198.61	\$199,937.17
546	1.2.1.6.3.1	Magnet Materials	SLAC	M&S	1	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$795.00	\$6,095.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
547	1.2.1.6.3.2	Magnet Assembly	SLAC	B&H	4	44 wks	\$0.00	\$0.00	\$87,947.20	\$87,947.20	\$17,589.44	\$52,768.32	\$158,304.96
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>44 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$87,947.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
548	1.2.1.6.3.3	Proc., Man. & Assembly Supervision	SLAC	ED&I	1	3.5 wks	\$0.00	\$0.00	\$11,760.00	\$11,760.00	\$2,352.00	\$2,116.80	\$16,228.80
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>3.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,760.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
549	1.2.1.6.3.4	Magnet Tests in Lab	SLAC	B&H	1	7 wks	\$0.00	\$0.00	\$13,991.60	\$13,991.60	\$2,798.32	\$2,518.49	\$19,308.41
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>7 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,991.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
550	1.2.1.6.4	Linac Solenoid			0	12 wks	\$0.00	\$1.00	\$25,346.80	\$25,347.80	\$5,069.42	\$7,604.31	\$38,021.53
551	1.2.1.6.4.1	Magnet materials	SLAC	M&S	2	0 wks	\$0.00	\$1.00	\$0.00	\$1.00	\$0.06	\$0.27	\$1.33
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
552	1.2.1.6.4.2	Magnet assembly	SLAC	B&H	2	10 wks	\$0.00	\$0.00	\$19,988.00	\$19,988.00	\$3,997.60	\$5,996.40	\$29,982.00
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>10 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$19,988.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
553	1.2.1.6.4.3	Supervision	SLAC	ED&I	2	1 wk	\$0.00	\$0.00	\$3,360.00	\$3,360.00	\$672.00	\$1,008.00	\$5,040.00
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,360.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
554	1.2.1.6.4.4	Lab Testing	SLAC	B&H	2	1 wk	\$0.00	\$0.00	\$1,998.80	\$1,998.80	\$399.76	\$599.64	\$2,998.20
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,998.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
555	1.2.1.6.5	Correctors			0	15.4 wks	\$0.00	\$11,000.00	\$41,970.72	\$52,970.72	\$9,054.14	\$15,506.22	\$77,531.08
556	1.2.1.6.5.1	Magnet Materials	SLAC	M&S	2	0 wks	\$0.00	\$11,000.00	\$0.00	\$11,000.00	\$660.00	\$2,915.00	\$14,575.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>11,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
557	1.2.1.6.5.2	Magnet Machining	SLAC	B&H	2	8.8 wks	\$0.00	\$0.00	\$28,160.00	\$28,160.00	\$5,632.00	\$8,448.00	\$42,240.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>8.8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$28,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
558	1.2.1.6.5.3	Mag Coil Winding	SLAC	B&H	2	2.2 wks	\$0.00	\$0.00	\$4,397.36	\$4,397.36	\$879.47	\$1,319.21	\$6,596.04
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>2.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,397.36</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
559	1.2.1.6.5.4	Magnet Assembly	SLAC	B&H	2	2.2 wks	\$0.00	\$0.00	\$4,397.36	\$4,397.36	\$879.47	\$1,319.21	\$6,596.04

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	2.2 wks	\$0.00	\$0.00	\$0.00	\$4,397.36	\$0.00	\$0.00	\$0.00
560	1.2.1.6.5.5	Mag Measure	SLAC	B&H	2	2.2 wks	\$0.00	\$0.00	\$5,016.00	\$5,016.00	\$1,003.20	\$1,504.80	\$7,524.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	0	2.2 wks	\$0.00	\$0.00	\$0.00	\$5,016.00	\$0.00	\$0.00	\$0.00
561	1.2.1.6.6	Gun E Spectrometer			0	6 wks	\$0.00	\$8,000.00	\$16,910.08	\$24,910.08	\$3,862.02	\$7,193.02	\$35,965.12
562	1.2.1.6.6.1	Magnet Materials	SLAC	M&S	2	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$480.00	\$2,120.00	\$10,600.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	8,000	\$0.00	\$0.00	\$0.00	\$8,000.00	\$0.00	\$0.00	\$0.00
563	1.2.1.6.6.2	Magnet Machining	SLAC	B&H	2	4 wks	\$0.00	\$0.00	\$12,800.00	\$12,800.00	\$2,560.00	\$3,840.00	\$19,200.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	0	4 wks	\$0.00	\$0.00	\$0.00	\$12,800.00	\$0.00	\$0.00	\$0.00
564	1.2.1.6.6.2	Magnet Coil Winding	SLAC	B&H	2	1 wk	\$0.00	\$0.00	\$1,998.80	\$1,998.80	\$399.76	\$599.64	\$2,998.20
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$1,998.80	\$0.00	\$0.00	\$0.00
565	1.2.1.6.6.3	Magnet Assembly	SLAC	B&H	2	0.6 wks	\$0.00	\$0.00	\$1,199.28	\$1,199.28	\$239.86	\$359.78	\$1,798.92
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	0.6 wks	\$0.00	\$0.00	\$0.00	\$1,199.28	\$0.00	\$0.00	\$0.00
566	1.2.1.6.6.3	Fiducialization	SLAC	B&H	2	0.2 wks	\$0.00	\$0.00	\$456.00	\$456.00	\$91.20	\$136.80	\$684.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$456.00	\$0.00	\$0.00	\$0.00
567	1.2.1.6.6.4	Mag Measure	SLAC	B&H	2	0.2 wks	\$0.00	\$0.00	\$456.00	\$456.00	\$91.20	\$136.80	\$684.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$456.00	\$0.00	\$0.00	\$0.00
568	1.2.1.6.7	Straight Ahead E Spectrometer			0	6 wks	\$0.00	\$8,000.00	\$16,910.08	\$24,910.08	\$3,862.02	\$7,193.02	\$35,965.12
569	1.2.1.6.7.1	Magnet Materials	SLAC	M&S	2	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$480.00	\$2,120.00	\$10,600.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	8,000	\$0.00	\$0.00	\$0.00	\$8,000.00	\$0.00	\$0.00	\$0.00
570	1.2.1.6.7.2	Magnet Machining	SLAC	B&H	2	4 wks	\$0.00	\$0.00	\$12,800.00	\$12,800.00	\$2,560.00	\$3,840.00	\$19,200.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	0	4 wks	\$0.00	\$0.00	\$0.00	\$12,800.00	\$0.00	\$0.00	\$0.00
571	1.2.1.6.7.3	Magnet Coil Winding	SLAC	B&H	2	1 wk	\$0.00	\$0.00	\$1,998.80	\$1,998.80	\$399.76	\$599.64	\$2,998.20
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$1,998.80	\$0.00	\$0.00	\$0.00
572	1.2.1.6.7.4	Magnet Assembly	SLAC	B&H	2	0.6 wks	\$0.00	\$0.00	\$1,199.28	\$1,199.28	\$239.86	\$359.78	\$1,798.92
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	0.6 wks	\$0.00	\$0.00	\$0.00	\$1,199.28	\$0.00	\$0.00	\$0.00
573	1.2.1.6.7.5	Fiducialization	SLAC	B&H	2	0.2 wks	\$0.00	\$0.00	\$456.00	\$456.00	\$91.20	\$136.80	\$684.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$456.00	\$0.00	\$0.00	\$0.00
574	1.2.1.6.7.6	Mag Measure	SLAC	B&H	2	0.2 wks	\$0.00	\$0.00	\$456.00	\$456.00	\$91.20	\$136.80	\$684.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$456.00	\$0.00	\$0.00	\$0.00
575	1.2.1.7	Controls			0	227.1 wks	\$0.00	\$696,000.00	\$556,024.42	\$1,252,024.42	\$152,964.88	\$441,338.93	\$1,846,328.23
576	1.2.1.7.1	Computers & Crates			0	56.3 wks	\$0.00	\$116,400.00	\$138,962.56	\$255,362.56	\$34,776.51	\$82,626.15	\$372,765.22
577	1.2.1.7.1.1	VME Crates, IOC's & Interface Chassis (3)	SLAC	M&S	2	0 wks	\$0.00	\$11,000.00	\$0.00	\$11,000.00	\$660.00	\$2,915.00	\$14,575.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	11,000	\$0.00	\$0.00	\$0.00	\$11,000.00	\$0.00	\$0.00	\$0.00
578	1.2.1.7.1.1	Install VME Crates, IOC's & Interface Chassis	SLAC	B&H	2	0.6 wks	\$0.00	\$0.00	\$1,052.16	\$1,052.16	\$210.43	\$315.65	\$1,578.24
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	0	0.6 wks	\$0.00	\$0.00	\$0.00	\$1,052.16	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
579	1.2.1.7.1.1	Cableplant	SLAC	M&S	2	0 wks	\$0.00	\$200.00	\$0.00	\$200.00	\$12.00	\$53.00	\$265.00
		SLAC M&S Total		M&S	0	200	\$0.00	\$0.00	\$0.00	\$200.00	\$0.00	\$0.00	\$0.00
580	1.2.1.7.1.1	Multibus Crate w/ CPU & cards	SLAC	M&S	0	0 wks	\$0.00	\$45,000.00	\$0.00	\$45,000.00	\$2,700.00	\$0.00	\$47,700.00
		SLAC M&S Total		M&S	0	45,000	\$0.00	\$0.00	\$0.00	\$45,000.00	\$0.00	\$0.00	\$0.00
581	1.2.1.7.1.1	Assemble & Test Multibus Crate w/ CPU & cards	SLAC	B&H	3	1.5 wks	\$0.00	\$0.00	\$2,630.40	\$2,630.40	\$526.08	\$1,104.77	\$4,261.25
		SLAC Controls: Technician		B&H	0	1.5 wks	\$0.00	\$0.00	\$0.00	\$2,630.40	\$0.00	\$0.00	\$0.00
582	1.2.1.7.1.1	Cable Fab	SLAC	B&H	2	0.2 wks	\$0.00	\$0.00	\$400.00	\$400.00	\$80.00	\$120.00	\$600.00
		SLACL PCD:Inst-Cabling-Elec Fab		B&H	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$400.00	\$0.00	\$0.00	\$0.00
583	1.2.1.7.1.1	Multibus Cableplant	SLAC	M&S	2	0 wks	\$0.00	\$600.00	\$0.00	\$600.00	\$36.00	\$159.00	\$795.00
		SLAC M&S Total		M&S	0	600	\$0.00	\$0.00	\$0.00	\$600.00	\$0.00	\$0.00	\$0.00
584	1.2.1.7.1.1	CAMAC Crates, Control & Support Modules	SLAC	ED&I	3	52 wks	\$0.00	\$0.00	\$131,372.80	\$131,372.80	\$26,274.56	\$55,176.58	\$212,823.94
		SLAC Controls: Programmer		ED&I	0	52 wks	\$0.00	\$0.00	\$0.00	\$131,372.80	\$0.00	\$0.00	\$0.00
585	1.2.1.7.1.1	CAMAC Crates, Control & Support Modules	SLAC	M&S	3	0 wks	\$0.00	\$56,000.00	\$0.00	\$56,000.00	\$3,360.00	\$20,776.00	\$80,136.00
		SLAC M&S Total		M&S	0	56,000	\$0.00	\$0.00	\$0.00	\$56,000.00	\$0.00	\$0.00	\$0.00
586	1.2.1.7.1.1	Install CAMAC Crates, CTL & Support Modules	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$3,507.20	\$3,507.20	\$701.44	\$1,052.16	\$5,260.80
		SLAC Controls: Technician		B&H	0	2 wks	\$0.00	\$0.00	\$0.00	\$3,507.20	\$0.00	\$0.00	\$0.00
587	1.2.1.7.1.1	CAMAC System Cableplant	SLAC	M&S	2	0 wks	\$0.00	\$3,600.00	\$0.00	\$3,600.00	\$216.00	\$954.00	\$4,770.00
		SLAC M&S Total		M&S	0	3,600	\$0.00	\$0.00	\$0.00	\$3,600.00	\$0.00	\$0.00	\$0.00
588	1.2.1.7.2	TIMING DISTRIBUTION SYSTEM-CAMAC			0	100.5 wks	\$0.00	\$45,000.00	\$253,516.80	\$298,516.80	\$53,403.36	\$171,722.04	\$523,642.20
589	1.2.1.7.2.1	Master & Distributed Timing Hardware	SLAC	M&S	4	0 wks	\$0.00	\$30,000.00	\$0.00	\$30,000.00	\$1,800.00	\$15,900.00	\$47,700.00
		SLAC M&S Total		M&S	0	30,000	\$0.00	\$0.00	\$0.00	\$30,000.00	\$0.00	\$0.00	\$0.00
590	1.2.1.7.2.1	Software & Timing Interface	SLAC	ED&I	4	100 wks	\$0.00	\$0.00	\$252,640.00	\$252,640.00	\$50,528.00	\$151,584.00	\$454,752.00
		SLAC Controls: Programmer		ED&I	0	100 wks	\$0.00	\$0.00	\$0.00	\$252,640.00	\$0.00	\$0.00	\$0.00
591	1.2.1.7.2.1	Install M&D Timing System Hardware	SLAC	B&H	2	0.5 wks	\$0.00	\$0.00	\$876.80	\$876.80	\$175.36	\$263.04	\$1,315.20
		SLAC Controls: Technician		B&H	0	0.5 wks	\$0.00	\$0.00	\$0.00	\$876.80	\$0.00	\$0.00	\$0.00
592	1.2.1.7.2.1	Timing System Helix Cableplant	SLAC	M&S	2	0 wks	\$0.00	\$15,000.00	\$0.00	\$15,000.00	\$900.00	\$3,975.00	\$19,875.00
		SLAC M&S Total		M&S	0	15,000	\$0.00	\$0.00	\$0.00	\$15,000.00	\$0.00	\$0.00	\$0.00
593	1.2.1.7.3	LCLS VACUUM SYSTEM (11)			0	0.97 wks	\$0.00	\$135,400.00	\$1,723.17	\$137,123.17	\$8,468.63	\$26,544.86	\$172,136.66
594	1.2.1.7.3.1	Programmed Multi Valve Controller Ch. 6 Chnl. (2)	SLAC	B&H	2	0.2 wks	\$0.00	\$0.00	\$350.72	\$350.72	\$70.14	\$105.22	\$526.08
		SLAC Controls: Technician		B&H	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$350.72	\$0.00	\$0.00	\$0.00
595	1.2.1.7.3.1	Programmed Multi Valve Controller Ch. 6 Chnl. (2)	SLAC	M&S	2	0 wks	\$0.00	\$20,000.00	\$0.00	\$20,000.00	\$1,200.00	\$5,300.00	\$26,500.00
		SLAC M&S Total		M&S	0	20,000	\$0.00	\$0.00	\$0.00	\$20,000.00	\$0.00	\$0.00	\$0.00
596	1.2.1.7.3.2	Valve Controller J-Box (11)	SLAC	B&H	1	0.2 wks	\$0.00	\$0.00	\$350.72	\$350.72	\$70.14	\$63.13	\$483.99
		SLAC Controls: Technician		B&H	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$350.72	\$0.00	\$0.00	\$0.00
597	1.2.1.7.3.2	Valve Controller J-Box (11)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
598	1.2.1.7.3.3	Fast Valve Controller (1)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$6.31	\$48.40
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35.07</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
599	1.2.1.7.3.3	Fast Valve Controller (1)	SLAC	M&S	1	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$795.00	\$6,095.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
600	1.2.1.7.3.4	Vacuum Guage Controller Chassis (10)	SLAC	B&H	1	0.2 wks	\$0.00	\$0.00	\$350.72	\$350.72	\$70.14	\$63.13	\$483.99
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$350.72</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
601	1.2.1.7.3.4	Vacuum Guage Controller Chassis (10)	SLAC	M&S	1	0 wks	\$0.00	\$30,000.00	\$0.00	\$30,000.00	\$1,800.00	\$4,770.00	\$36,570.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>30,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$30,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
602	1.2.1.7.3.5	Vacuum Pump Power Supplies (10)	SLAC	B&H	1	0.2 wks	\$0.00	\$0.00	\$350.72	\$350.72	\$70.14	\$63.13	\$483.99
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$350.72</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
603	1.2.1.7.3.5	Vacuum Pump Power Supplies (10)	SLAC	M&S	1	0 wks	\$0.00	\$35,000.00	\$0.00	\$35,000.00	\$2,100.00	\$5,565.00	\$42,665.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>35,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
604	1.2.1.7.3.6	CAMAC Module, SAM (2)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$6.31	\$48.40
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35.07</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
605	1.2.1.7.3.6	CAMAC Module, SAM (2)	SLAC	M&S	1	0 wks	\$0.00	\$12,000.00	\$0.00	\$12,000.00	\$720.00	\$1,908.00	\$14,628.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>12,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
606	1.2.1.7.3.7	CAMAC Module, IDOM (6)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$6.31	\$48.40
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35.07</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
607	1.2.1.7.3.7	CAMAC Module, IDOM (6)	SLAC	M&S	1	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$480.00	\$1,272.00	\$9,752.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
608	1.2.1.7.3.8	CAMAC Module, IDIM (6)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$6.31	\$48.40
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35.07</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
609	1.2.1.7.3.8	CAMAC Module, IDIM (6)	SLAC	M&S	1	0 wks	\$0.00	\$9,000.00	\$0.00	\$9,000.00	\$540.00	\$1,431.00	\$10,971.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>9,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
610	1.2.1.7.3.9	Delete 2-ch Valve Controller	SLAC		1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
611	1.2.1.7.3.10	Valve Control Cable (250')	SLAC	M&S	3	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$2,226.00	\$8,586.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
612	1.2.1.7.3.11	Vacuum Guage Cable (coax) (250')	SLAC	M&S	3	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$1,113.00	\$4,293.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
613	1.2.1.7.3.12	Valve Controller J-Box Cable (20')	SLAC	M&S	3	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$1,113.00	\$4,293.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
614	1.2.1.7.3.13	CAMAC cable SAM (3)	SLAC	B&H	1	0.03 wks	\$0.00	\$0.00	\$60.00	\$60.00	\$12.00	\$10.80	\$82.80
		<i>SLACL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>0.03 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$60.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
615	1.2.1.7.3.13	CAMAC cable SAM (3)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
616	1.2.1.7.3.14	CAMAC cable ID0M (2)	SLAC	B&H	1	0.03 wks	\$0.00	\$0.00	\$60.00	\$60.00	\$12.00	\$10.80	\$82.80
		<i>SLACL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>0.03 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$60.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
617	1.2.1.7.3.14	CAMAC cable ID0M (2)	SLAC	M&S	1	0 wks	\$0.00	\$400.00	\$0.00	\$400.00	\$24.00	\$63.60	\$487.60
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>400</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
618	1.2.1.7.3.15	CAMAC cable IDIM	SLAC	B&H	1	0.03 wks	\$0.00	\$0.00	\$60.00	\$60.00	\$12.00	\$10.80	\$82.80
		<i>SLACL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>0.03 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$60.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
619	1.2.1.7.3.15	CAMAC cable IDIM	SLAC	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$318.00	\$2,438.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
620	1.2.1.7.4	TUNE-UP DUMPS (1)			0	0.15 wks	\$0.00	\$8,500.00	\$285.22	\$8,785.22	\$567.04	\$1,402.84	\$10,755.10
621	1.2.1.7.4.1	IDIM Module 2)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$6.31	\$48.40
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35.07</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
622	1.2.1.7.4.1	IDIM Module 2)	SLAC	M&S	1	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$477.00	\$3,657.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
623	1.2.1.7.4.2	IDOM Module (1)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$6.31	\$48.40
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35.07</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
624	1.2.1.7.4.2	IDOM Module (1)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
625	1.2.1.7.4.3	Profile Monitor Chassis (1)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$6.31	\$48.40
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35.07</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
626	1.2.1.7.4.3	Profile Monitor Chassis (1)	SLAC	M&S	1	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$636.00	\$4,876.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
627	1.2.1.7.4.4	Multi-conductor (21C/16GA-CONT&STAT) (2)	SLAC		1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
628	1.2.1.7.4.5	CAMAC cable IDIM (2)	SLAC	B&H	1	0.03 wks	\$0.00	\$0.00	\$60.00	\$60.00	\$12.00	\$10.80	\$82.80
		<i>SLACL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>0.03 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$60.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
629	1.2.1.7.4.5	CAMAC cable IDIM (2)	SLAC	M&S	1	0 wks	\$0.00	\$200.00	\$0.00	\$200.00	\$12.00	\$31.80	\$243.80
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>200</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
630	1.2.1.7.4.6	CAMAC cable IDOM (1)	SLAC	B&H	1	0.03 wks	\$0.00	\$0.00	\$60.00	\$60.00	\$12.00	\$10.80	\$82.80
		<i>SLACL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>0.03 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$60.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
631	1.2.1.7.4.6	CAMAC cable IDOM (1)	SLAC	M&S	1	0 wks	\$0.00	\$200.00	\$0.00	\$200.00	\$12.00	\$31.80	\$243.80
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>200</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
632	1.2.1.7.4.7	WIRING OF TD ASSEMBLY IN LAB (1)	SLAC	B&H	1	0.03 wks	\$0.00	\$0.00	\$60.00	\$60.00	\$12.00	\$10.80	\$82.80
		<i>SLACL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>0.03 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$60.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
633	1.2.1.7.4.7	WIRING OF TD ASSEMBLY IN LAB (1)	SLAC	M&S	1	0 wks	\$0.00	\$100.00	\$0.00	\$100.00	\$6.00	\$15.90	\$121.90
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>100</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$100.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
634	1.2.1.7.5	WIRE SCANNERS (4)			0	1.24 wks	\$0.00	\$38,000.00	\$2,194.18	\$40,194.18	\$2,718.84	\$10,493.02	\$53,406.03
635	1.2.1.7.5.1	Power Supply EMI 20v@50A (1)	SLAC	B&H	1	0.2 wks	\$0.00	\$0.00	\$350.72	\$350.72	\$70.14	\$63.13	\$483.99
		SLAC Controls: Technician		B&H	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$350.72	\$0.00	\$0.00	\$0.00
636	1.2.1.7.5.1	Power Supply EMI 20v@50A (1)	SLAC	M&S	1	0 wks	\$0.00	\$1,200.00	\$0.00	\$1,200.00	\$72.00	\$190.80	\$1,462.80
		SLAC M&S Total		M&S	0	1,200	\$0.00	\$0.00	\$0.00	\$1,200.00	\$0.00	\$0.00	\$0.00
637	1.2.1.7.5.2	DATRONICS Controller (MN 10k-1) (1)	SLAC	B&H	1	0.2 wks	\$0.00	\$0.00	\$350.72	\$350.72	\$70.14	\$63.13	\$483.99
		SLAC Controls: Technician		B&H	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$350.72	\$0.00	\$0.00	\$0.00
638	1.2.1.7.5.2	DATRONICS Controller (MN 10k-1) (1)	SLAC	M&S	1	0 wks	\$0.00	\$3,500.00	\$0.00	\$3,500.00	\$210.00	\$556.50	\$4,266.50
		SLAC M&S Total		M&S	0	3,500	\$0.00	\$0.00	\$0.00	\$3,500.00	\$0.00	\$0.00	\$0.00
639	1.2.1.7.5.3	LVDT PCB (2)	SLAC	B&H	2	0.2 wks	\$0.00	\$0.00	\$350.72	\$350.72	\$70.14	\$105.22	\$526.08
		SLAC Controls: Technician		B&H	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$350.72	\$0.00	\$0.00	\$0.00
640	1.2.1.7.5.3	LVDT PCB (2)	SLAC	M&S	2	0 wks	\$0.00	\$1,200.00	\$0.00	\$1,200.00	\$72.00	\$318.00	\$1,590.00
		SLAC M&S Total		M&S	0	1,200	\$0.00	\$0.00	\$0.00	\$1,200.00	\$0.00	\$0.00	\$0.00
641	1.2.1.7.5.4	LVDT Unit (4)	SLAC	B&H	2	0.2 wks	\$0.00	\$0.00	\$350.72	\$350.72	\$70.14	\$105.22	\$526.08
		SLAC Controls: Technician		B&H	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$350.72	\$0.00	\$0.00	\$0.00
642	1.2.1.7.5.4	LVDT Unit (4)	SLAC	M&S	2	0 wks	\$0.00	\$2,400.00	\$0.00	\$2,400.00	\$144.00	\$636.00	\$3,180.00
		SLAC M&S Total		M&S	0	2,400	\$0.00	\$0.00	\$0.00	\$2,400.00	\$0.00	\$0.00	\$0.00
643	1.2.1.7.5.5	10 Channel Resistor Interface Chassis (1)	SLAC	B&H	2	0.2 wks	\$0.00	\$0.00	\$350.72	\$350.72	\$70.14	\$105.22	\$526.08
		SLAC Controls: Technician		B&H	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$350.72	\$0.00	\$0.00	\$0.00
644	1.2.1.7.5.5	10 Channel Resistor Interface Chassis (1)	SLAC	M&S	2	0 wks	\$0.00	\$1,700.00	\$0.00	\$1,700.00	\$102.00	\$450.50	\$2,252.50
		SLAC M&S Total		M&S	0	1,700	\$0.00	\$0.00	\$0.00	\$1,700.00	\$0.00	\$0.00	\$0.00
645	1.2.1.7.5.6	CAMAC Module, SAM (1)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$6.31	\$48.40
		SLAC Controls: Technician		B&H	0	0.02 wks	\$0.00	\$0.00	\$0.00	\$35.07	\$0.00	\$0.00	\$0.00
646	1.2.1.7.5.6	CAMAC Module, SAM (1)	SLAC	M&S	1	0 wks	\$0.00	\$1,900.00	\$0.00	\$1,900.00	\$114.00	\$302.10	\$2,316.10
		SLAC M&S Total		M&S	0	1,900	\$0.00	\$0.00	\$0.00	\$1,900.00	\$0.00	\$0.00	\$0.00
647	1.2.1.7.5.7	CAMAC Module, GADC (1)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$6.31	\$48.40
		SLAC Controls: Technician		B&H	0	0.02 wks	\$0.00	\$0.00	\$0.00	\$35.07	\$0.00	\$0.00	\$0.00
648	1.2.1.7.5.7	CAMAC Module, GADC (1)	SLAC	M&S	1	0 wks	\$0.00	\$2,800.00	\$0.00	\$2,800.00	\$168.00	\$445.20	\$3,413.20
		SLAC M&S Total		M&S	0	2,800	\$0.00	\$0.00	\$0.00	\$2,800.00	\$0.00	\$0.00	\$0.00
649	1.2.1.7.5.8	CAMAC Module, PDGG (1)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$6.31	\$48.40
		SLAC Controls: Technician		B&H	0	0.02 wks	\$0.00	\$0.00	\$0.00	\$35.07	\$0.00	\$0.00	\$0.00
650	1.2.1.7.5.8	CAMAC Module, PDGG (1)	SLAC	M&S	1	0 wks	\$0.00	\$1,500.00	\$0.00	\$1,500.00	\$90.00	\$238.50	\$1,828.50
		SLAC M&S Total		M&S	0	1,500	\$0.00	\$0.00	\$0.00	\$1,500.00	\$0.00	\$0.00	\$0.00
651	1.2.1.7.5.9	CAMAC Module, DAC (1)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$6.31	\$48.40
		SLAC Controls: Technician		B&H	0	0.02 wks	\$0.00	\$0.00	\$0.00	\$35.07	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
652	1.2.1.7.5.9	CAMAC Module,DAC (1)	SLAC	M&S	1	0 wks	\$0.00	\$2,200.00	\$0.00	\$2,200.00	\$132.00	\$349.80	\$2,681.80
		SLAC M&S Total		M&S	0	2,200	\$0.00	\$0.00	\$0.00	\$2,200.00	\$0.00	\$0.00	\$0.00
653	1.2.1.7.5.10	CAMAC Module,Stepper Motor Controller, SMC-24BP (4)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$6.31	\$48.40
		SLAC Controls: Technician		B&H	0	0.02 wks	\$0.00	\$0.00	\$0.00	\$35.07	\$0.00	\$0.00	\$0.00
654	1.2.1.7.5.10	CAMAC Module,Stepper Motor Controller, SMC-24BP (4)	SLAC	M&S	1	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$954.00	\$7,314.00
		SLAC M&S Total		M&S	0	6,000	\$0.00	\$0.00	\$0.00	\$6,000.00	\$0.00	\$0.00	\$0.00
655	1.2.1.7.5.11	16 Channel Interface Chassis (1)	SLAC	B&H	2	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$10.52	\$52.61
		SLAC Controls: Technician		B&H	0	0.02 wks	\$0.00	\$0.00	\$0.00	\$35.07	\$0.00	\$0.00	\$0.00
656	1.2.1.7.5.11	16 Channel Interface Chassis (1)	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
657	1.2.1.7.5.12	HV P.S., 8 CH. BEAMSTRAHLUNG CH. (1)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$6.31	\$48.40
		SLAC Controls: Technician		B&H	0	0.02 wks	\$0.00	\$0.00	\$0.00	\$35.07	\$0.00	\$0.00	\$0.00
658	1.2.1.7.5.12	HV P.S., 8 CH. BEAMSTRAHLUNG CH. (1)	SLAC	M&S	1	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$477.00	\$3,657.00
		SLAC M&S Total		M&S	0	3,000	\$0.00	\$0.00	\$0.00	\$3,000.00	\$0.00	\$0.00	\$0.00
659	1.2.1.7.5.13	Photo-multiplier Tube Electronics Assem., Phillips (4)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$6.31	\$48.40
		SLAC Controls: Technician		B&H	0	0.02 wks	\$0.00	\$0.00	\$0.00	\$35.07	\$0.00	\$0.00	\$0.00
660	1.2.1.7.5.13	Photo-multiplier Tube Electronics Assem., Phillips (4)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
661	1.2.1.7.5.14	RG58 to PMT 250'	SLAC	M&S	4	0 wks	\$0.00	\$1,200.00	\$0.00	\$1,200.00	\$72.00	\$636.00	\$1,908.00
		SLAC M&S Total		M&S	0	1,200	\$0.00	\$0.00	\$0.00	\$1,200.00	\$0.00	\$0.00	\$0.00
662	1.2.1.7.5.15	MULTI-COND (4PR) DATRONIC TO LVDT 250'	SLAC	M&S	4	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$1,060.00	\$3,180.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
663	1.2.1.7.5.16	MULTI-COND (12/C) REST. CH. TO SMC MODULE	SLAC	B&H	4	0.02 wks	\$0.00	\$0.00	\$40.00	\$40.00	\$8.00	\$24.00	\$72.00
		SLACL PCD:Inst-Cabling-Elec Fab		B&H	0	0.02 wks	\$0.00	\$0.00	\$0.00	\$40.00	\$0.00	\$0.00	\$0.00
664	1.2.1.7.5.16	MULTI-COND (12/C) REST. CH. TO SMC MODULE	SLAC	M&S	4	0 wks	\$0.00	\$800.00	\$0.00	\$800.00	\$48.00	\$424.00	\$1,272.00
		SLAC M&S Total		M&S	0	800	\$0.00	\$0.00	\$0.00	\$800.00	\$0.00	\$0.00	\$0.00
665	1.2.1.7.5.17	MULTI-COND (12/C) REST. CH. TO WIRE SCANNER	SLAC	B&H	4	0.02 wks	\$0.00	\$0.00	\$40.00	\$40.00	\$8.00	\$24.00	\$72.00
		SLACL PCD:Inst-Cabling-Elec Fab		B&H	0	0.02 wks	\$0.00	\$0.00	\$0.00	\$40.00	\$0.00	\$0.00	\$0.00
666	1.2.1.7.5.17	MULTI-COND (12/C) REST. CH. TO WIRE SCANNER	SLAC	M&S	4	0 wks	\$0.00	\$1,600.00	\$0.00	\$1,600.00	\$96.00	\$848.00	\$2,544.00
		SLAC M&S Total		M&S	0	1,600	\$0.00	\$0.00	\$0.00	\$1,600.00	\$0.00	\$0.00	\$0.00
667	1.2.1.7.5.18	CAMAC CABLE (36/C)16 CHNL DIST. TO SAM	SLAC	B&H	4	0.02 wks	\$0.00	\$0.00	\$40.00	\$40.00	\$8.00	\$24.00	\$72.00
		SLACL PCD:Inst-Cabling-Elec Fab		B&H	0	0.02 wks	\$0.00	\$0.00	\$0.00	\$40.00	\$0.00	\$0.00	\$0.00
668	1.2.1.7.5.18	CAMAC CABLE (36/C)16 CHNL DIST. TO SAM	SLAC	M&S	4	0 wks	\$0.00	\$600.00	\$0.00	\$600.00	\$36.00	\$318.00	\$954.00
		SLAC M&S Total		M&S	0	600	\$0.00	\$0.00	\$0.00	\$600.00	\$0.00	\$0.00	\$0.00
669	1.2.1.7.5.19	SINGLE-COND P.S. TO REST. CH.	SLAC	B&H	4	0.02 wks	\$0.00	\$0.00	\$40.00	\$40.00	\$8.00	\$24.00	\$72.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLACL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$40.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
670	1.2.1.7.5.20	SINGLE-COND P.S. TO REST. CH.	SLAC	M&S	4	0 wks	\$0.00	\$400.00	\$0.00	\$400.00	\$24.00	\$212.00	\$636.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>400</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
671	1.2.1.7.5.21	WIRING OF WIRE SCANNER ASSEMBLY IN LAB (4)	SLAC	M&S	4	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$1,060.00	\$3,180.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
672	1.2.1.7.6	BEAM POSITION MONITORS (13)			0	4.2 wks	\$0.00	\$87,000.00	\$8,400.00	\$95,400.00	\$6,900.00	\$26,902.00	\$129,202.00
673	1.2.1.7.6.1	BPM Processor Modules	SLAC	ED&I	2	0.2 wks	\$0.00	\$0.00	\$400.00	\$400.00	\$80.00	\$120.00	\$600.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
674	1.2.1.7.6.1	BPM Processor Modules	SLAC	M&S	2	0 wks	\$0.00	\$28,000.00	\$0.00	\$28,000.00	\$1,680.00	\$7,420.00	\$37,100.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>28,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$28,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
675	1.2.1.7.6.2	Head Amplifier Chassis	SLAC	ED&I	1	0.15 wks	\$0.00	\$0.00	\$300.00	\$300.00	\$60.00	\$54.00	\$414.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	<i>0</i>	<i>0.15 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$300.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
676	1.2.1.7.6.2	Head Amplifier Chassis	SLAC	M&S	1	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$477.00	\$3,657.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
677	1.2.1.7.6.3	Head Amplifier Modules	SLAC	ED&I	2	0.15 wks	\$0.00	\$0.00	\$300.00	\$300.00	\$60.00	\$90.00	\$450.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	<i>0</i>	<i>0.15 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$300.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
678	1.2.1.7.6.3	Head Amplifier Modules	SLAC	M&S	2	0 wks	\$0.00	\$28,000.00	\$0.00	\$28,000.00	\$1,680.00	\$7,420.00	\$37,100.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>28,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$28,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
679	1.2.1.7.6.4	Test Pulse Generator Modules	SLAC	ED&I	1	0.2 wks	\$0.00	\$0.00	\$400.00	\$400.00	\$80.00	\$72.00	\$552.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
680	1.2.1.7.6.4	Test Pulse Generator Modules	SLAC	M&S	1	0 wks	\$0.00	\$21,000.00	\$0.00	\$21,000.00	\$1,260.00	\$3,339.00	\$25,599.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>21,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$21,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
681	1.2.1.7.6.5	Controls Technician	SLAC	ED&I	4	2 wks	\$0.00	\$0.00	\$4,000.00	\$4,000.00	\$800.00	\$2,400.00	\$7,200.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
682	1.2.1.7.6.6	RG233 (4 ea BPM, timed&matched, 200')	SLAC	M&S	4	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$2,120.00	\$6,360.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
683	1.2.1.7.6.7	RG233 pigtails (8 ea BPM, timed&matched, 10')	SLAC	B&H	4	0.2 wks	\$0.00	\$0.00	\$400.00	\$400.00	\$80.00	\$240.00	\$720.00
		<i>SLACL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
684	1.2.1.7.6.7	RG233 pigtails (8 ea BPM, timed&matched, 10')	SLAC	M&S	4	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$1,590.00	\$4,770.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
685	1.2.1.7.6.8	Technician BPM initial calibration	SLAC	ED&I	4	1.3 wks	\$0.00	\$0.00	\$2,600.00	\$2,600.00	\$520.00	\$1,560.00	\$4,680.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	<i>0</i>	<i>1.3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
686	1.2.1.7.7	TOROIDS (6)			0	3.6 wks	\$0.00	\$41,000.00	\$6,744.16	\$47,744.16	\$3,808.83	\$7,732.95	\$59,285.94
687	1.2.1.7.7.1	CAMAC Module, TCM (6)	SLAC	ED&I	1	0.5 wks	\$0.00	\$0.00	\$1,000.00	\$1,000.00	\$200.00	\$180.00	\$1,380.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	<i>0</i>	<i>0.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
688	1.2.1.7.7.1	CAMAC Module, TCM (6)	SLAC	M&S	1	0 wks	\$0.00	\$13,000.00	\$0.00	\$13,000.00	\$780.00	\$2,067.00	\$15,847.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>13,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
689	1.2.1.7.7.2	TCM PreAmps (6)	SLAC	ED&I	1	0.25 wks	\$0.00	\$0.00	\$500.00	\$500.00	\$100.00	\$90.00	\$690.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	<i>0</i>	<i>0.25 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$500.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
690	1.2.1.7.7.2	TCM PreAmps (6)	SLAC	M&S	1	0 wks	\$0.00	\$18,000.00	\$0.00	\$18,000.00	\$1,080.00	\$2,862.00	\$21,942.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>18,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$18,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
691	1.2.1.7.7.3	Lead Shielding (12 Bricks/Unit) (6)	SLAC	B&H	1	1 wk	\$0.00	\$0.00	\$2,000.00	\$2,000.00	\$400.00	\$360.00	\$2,760.00
		<i>SLACL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
692	1.2.1.7.7.3	Lead Shielding (12 Bricks/Unit) (6)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
693	1.2.1.7.7.4	Steel Covers (6)	SLAC	B&H	1	1.05 wks	\$0.00	\$0.00	\$1,841.28	\$1,841.28	\$368.26	\$331.43	\$2,540.97
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>1.05 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,841.28</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
694	1.2.1.7.7.4	Steel Covers (6)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
695	1.2.1.7.7.5	Platforms (6)	SLAC	B&H	1	0.74 wks	\$0.00	\$0.00	\$1,297.66	\$1,297.66	\$259.53	\$233.58	\$1,790.78
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.74 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,297.66</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
696	1.2.1.7.7.5	Platforms (6)	SLAC	M&S	1	0 wks	\$0.00	\$600.00	\$0.00	\$600.00	\$36.00	\$95.40	\$731.40
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>600</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
697	1.2.1.7.7.6	Adapter Box, RG22 to Twinax (2 each toroid)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$6.31	\$48.40
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35.07</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
698	1.2.1.7.7.6	Adapter Box, RG22 to Twinax (2 each toroid)	SLAC	M&S	1	0 wks	\$0.00	\$1,200.00	\$0.00	\$1,200.00	\$72.00	\$190.80	\$1,462.80
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,200</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
699	1.2.1.7.7.7	RG22, TCM PreAmp to Toroid (1 each toroid))	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$6.31	\$48.40
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35.07</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
700	1.2.1.7.7.7	RG22, TCM PreAmp to Toroid (1 each toroid))	SLAC	M&S	1	0 wks	\$0.00	\$600.00	\$0.00	\$600.00	\$36.00	\$95.40	\$731.40
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>600</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
701	1.2.1.7.7.8	RG214, TCM PreAmp to Toroid (1)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$6.31	\$48.40
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35.07</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
702	1.2.1.7.7.8	RG214, TCM PreAmp to Toroid (1)	SLAC	M&S	1	0 wks	\$0.00	\$600.00	\$0.00	\$600.00	\$36.00	\$95.40	\$731.40
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>600</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
703	1.2.1.7.7.9	RG22, TCM to TCM PreAmp (2)	SLAC	M&S	1	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$477.00	\$3,657.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
704	1.2.1.7.7.10	2/c power, TCM to TCM PreAmp (1 each toroid)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
705	1.2.1.7.7.11	RG58, TCM to TCM PreAmp (1 each toroid))	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
706	1.2.1.7.8	FARADAY CUP (3)			0	1.12 wks	\$0.00	\$36,500.00	\$2,161.15	\$38,661.15	\$2,622.23	\$8,975.01	\$50,258.39
707	1.2.1.7.8.1	CAMAC Module, DAC (1)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$6.31	\$48.40
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35.07</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
708	1.2.1.7.8.1	CAMAC Module, DAC (1)	SLAC	M&S	1	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$477.00	\$3,657.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
709	1.2.1.7.8.2	IDIM Module (2)	SLAC	B&H	1	0.04 wks	\$0.00	\$0.00	\$70.14	\$70.14	\$14.03	\$12.63	\$96.80
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.04 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$70.14</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
710	1.2.1.7.8.2	IDIM Module (2)	SLAC	M&S	1	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$477.00	\$3,657.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
711	1.2.1.7.8.3	IDOM Module (2)	SLAC	B&H	1	0.04 wks	\$0.00	\$0.00	\$70.14	\$70.14	\$14.03	\$12.63	\$96.80
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.04 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$70.14</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
712	1.2.1.7.8.3	IDOM Module (2)	SLAC	M&S	1	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$477.00	\$3,657.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
713	1.2.1.7.8.4	Profile monitor chassis (2)	SLAC	B&H	1	0.2 wks	\$0.00	\$0.00	\$350.72	\$350.72	\$70.14	\$63.13	\$483.99
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$350.72</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
714	1.2.1.7.8.4	Profile monitor chassis (2)	SLAC	M&S	1	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$420.00	\$1,113.00	\$8,533.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>7,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
715	1.2.1.7.8.5	Profile Monitor Camera/Electronics (3)	SLAC	ED&I	1	0.6 wks	\$0.00	\$0.00	\$1,200.00	\$1,200.00	\$240.00	\$216.00	\$1,656.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
716	1.2.1.7.8.5	Profile Monitor Camera/Electronics (3)	SLAC	M&S	1	0 wks	\$0.00	\$9,000.00	\$0.00	\$9,000.00	\$540.00	\$1,431.00	\$10,971.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>9,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
717	1.2.1.7.8.6	Profile Monitor Lamp Units (3)	SLAC	ED&I	1	0.2 wks	\$0.00	\$0.00	\$400.00	\$400.00	\$80.00	\$72.00	\$552.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
718	1.2.1.7.8.6	Profile Monitor Lamp Units (3)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
719	1.2.1.7.8.7	GADC, LeCroy	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$6.31	\$48.40
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35.07</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
720	1.2.1.7.8.7	GADC, LeCroy	SLAC	M&S	1	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$477.00	\$3,657.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
721	1.2.1.7.8.8	RG214, coax (3ea) Chassis to Faraday Cup	SLAC	M&S	4	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$530.00	\$1,590.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
722	1.2.1.7.8.9	RG214, coax (3ea) Chassis to Faraday Cup	SLAC	M&S	4	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$530.00	\$1,590.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
723	1.2.1.7.8.10	Multi-conductor (8/C) Chassis to Faraday Cup	SLAC	M&S	4	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$1,060.00	\$3,180.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
724	1.2.1.7.8.11	Multi-conductor (8/C) Chassis to Faraday Cup	SLAC	M&S	4	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$1,060.00	\$3,180.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
725	1.2.1.7.8.12	CAMAC cable IDIM (3ea) Chassis to Crate	SLAC	M&S	4	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$530.00	\$1,590.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
726	1.2.1.7.8.13	CAMAC cable IDOM (2ea) Chassis to Crate	SLAC	M&S	4	0 wks	\$0.00	\$200.00	\$0.00	\$200.00	\$12.00	\$106.00	\$318.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>200</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
727	1.2.1.7.8.14	Wiring of Faraday Cup units in lab (3)	SLAC	M&S	4	0 wks	\$0.00	\$300.00	\$0.00	\$300.00	\$18.00	\$159.00	\$477.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>300</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$300.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
728	1.2.1.7.9	PROFILE MONITORS (7) / COLLIMATOR (1)			0	10.64 wks	\$0.00	\$95,500.00	\$20,974.46	\$116,474.46	\$9,924.89	\$23,301.12	\$149,700.48
729	1.2.1.7.9.1	CAMAC Module, DAC (1)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$6.31	\$48.40
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35.07</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
730	1.2.1.7.9.1	CAMAC Module, DAC (1)	SLAC	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$318.00	\$2,438.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
731	1.2.1.7.9.2	CAMAC Module, IDIM (4)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$6.31	\$48.40
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35.07</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
732	1.2.1.7.9.2	CAMAC Module, IDIM (4)	SLAC	M&S	1	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$954.00	\$7,314.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
733	1.2.1.7.9.3	CAMAC Module, IDOM (4)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$6.31	\$48.40
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35.07</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
734	1.2.1.7.9.3	CAMAC Module, IDOM (4)	SLAC	M&S	1	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$795.00	\$6,095.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
735	1.2.1.7.9.4	Video Modulator Chassis (7)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$6.31	\$48.40
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35.07</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
736	1.2.1.7.9.4	Video Modulator Chassis (7)	SLAC	M&S	1	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$420.00	\$1,113.00	\$8,533.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>7,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
737	1.2.1.7.9.5	16 Channel Interface Chassis (1)	SLAC	B&H	2	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$10.52	\$52.61
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35.07</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
738	1.2.1.7.9.5	16 Channel Interface Chassis (1)	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
739	1.2.1.7.9.6	Profile Monitor Lamp Units (7)	SLAC	B&H	1	0.5 wks	\$0.00	\$0.00	\$876.80	\$876.80	\$175.36	\$157.82	\$1,209.98
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$876.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
740	1.2.1.7.9.6	Profile Monitor Lamp Units (7)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
741	1.2.1.7.9.7	Profile Monitor Chassis (4)	SLAC	B&H	1	0.5 wks	\$0.00	\$0.00	\$876.80	\$876.80	\$175.36	\$157.82	\$1,209.98

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$876.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
742	1.2.1.7.9.7	Profile Monitor Chassis (4)	SLAC	M&S	1	0 wks	\$0.00	\$18,000.00	\$0.00	\$18,000.00	\$1,080.00	\$2,862.00	\$21,942.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>18,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$18,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
743	1.2.1.7.9.8	Profile Monitor Camera/Electronics (7)	SLAC	ED&I	2	4 wks	\$0.00	\$0.00	\$8,000.00	\$8,000.00	\$1,600.00	\$2,400.00	\$12,000.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
744	1.2.1.7.9.8	Profile Monitor Camera/Electronics (7)	SLAC	M&S	2	0 wks	\$0.00	\$21,000.00	\$0.00	\$21,000.00	\$1,260.00	\$5,565.00	\$27,825.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>21,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$21,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
745	1.2.1.7.9.9	RG59, coax-video (7)	SLAC	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$318.00	\$2,438.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
746	1.2.1.7.9.10	Multi-conductor (21C/16GA-CONT&STAT) (7)	SLAC	M&S	1	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$795.00	\$6,095.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
747	1.2.1.7.9.11	Multi-conductor (3C/16GA-AC POWER) (7)	SLAC	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$318.00	\$2,438.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
748	1.2.1.7.9.12	CAMAC cable IDIM (8)	SLAC	B&H	1	0.2 wks	\$0.00	\$0.00	\$400.00	\$400.00	\$80.00	\$72.00	\$552.00
		<i>SLACL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
749	1.2.1.7.9.12	CAMAC cable IDIM (8)	SLAC	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$318.00	\$2,438.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
750	1.2.1.7.9.13	CAMAC cable IDOM (8)	SLAC	B&H	1	0.2 wks	\$0.00	\$0.00	\$400.00	\$400.00	\$80.00	\$72.00	\$552.00
		<i>SLACL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
751	1.2.1.7.9.13	CAMAC cable IDOM (8)	SLAC	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$318.00	\$2,438.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
752	1.2.1.7.9.14	CAMAC cable DAC (1)	SLAC	ED&I	1	4 wks	\$0.00	\$0.00	\$8,000.00	\$8,000.00	\$1,600.00	\$1,440.00	\$11,040.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
753	1.2.1.7.9.14	CAMAC cable DAC (1)	SLAC	M&S	1	0 wks	\$0.00	\$200.00	\$0.00	\$200.00	\$12.00	\$31.80	\$243.80
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>200</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
754	1.2.1.7.9.15	WIRING OF PROFILE MONT. ASSEMBLY IN LAB (7)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
755	1.2.1.7.9.16	Collimator (1)	SLAC		0	1.14 wks	\$0.00	\$20,300.00	\$2,245.50	\$22,545.50	\$1,667.10	\$4,676.90	\$28,889.50
756	1.2.1.7.9.16.1	DATRONICS Controller (MN 10k-1, 7 slots) (1)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$6.31	\$48.40
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35.07</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
757	1.2.1.7.9.16.1	DATRONICS Controller (MN 10k-1, 7 slots) (1)	SLAC	M&S	1	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$636.00	\$4,876.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
758	1.2.1.7.9.16.2	10 Channel Resistor Interface Chassis (1)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$6.31	\$48.40
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35.07</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
759	1.2.1.7.9.16.2	10 Channel Resistor Interface Chassis (1)	SLAC	M&S	1	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$477.00	\$3,657.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
760	1.2.1.7.9.16.3	16 Channel Stepper Motor Controller Ch. (1)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$6.31	\$48.40
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35.07</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
761	1.2.1.7.9.16.3	16 Channel Stepper Motor Controller Ch. (1)	SLAC	M&S	1	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$477.00	\$3,657.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
762	1.2.1.7.9.16.4	16 Channel Interface Chassis (1)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$6.31	\$48.40
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35.07</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
763	1.2.1.7.9.16.4	16 Channel Interface Chassis (1)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
764	1.2.1.7.9.16.5	CAMAC Module,MMC (1)	SLAC	B&H	2	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$10.52	\$52.61
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35.07</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
765	1.2.1.7.9.16.5	CAMAC Module,MMC (1)	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
766	1.2.1.7.9.16.6	CAMAC Module, IDIM (1)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$6.31	\$48.40
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35.07</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
767	1.2.1.7.9.16.6	CAMAC Module, IDIM (1)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
768	1.2.1.7.9.16.7	CAMAC Module, SAM (1)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$6.31	\$48.40
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35.07</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
769	1.2.1.7.9.16.7	CAMAC Module, SAM (1)	SLAC	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$318.00	\$2,438.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
770	1.2.1.7.9.16.8	LVDT PCB -2 CHNLS (1)	SLAC	ED&I	1	0.02 wks	\$0.00	\$0.00	\$40.00	\$40.00	\$8.00	\$7.20	\$55.20
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$40.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
771	1.2.1.7.9.16.8	LVDT PCB -2 CHNLS (1)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
772	1.2.1.7.9.16.9	LVDT UNIT (2)	SLAC	M&S	3	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$371.00	\$1,431.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
773	2.1.7.9.16.10	Power supply 30V@100A (1)	SLAC	M&S	3	0 wks	\$0.00	\$300.00	\$0.00	\$300.00	\$18.00	\$111.30	\$429.30
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>300</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$300.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
774	2.1.7.9.16.11	MULTI-COND (4PR) DATRONIC TO LVDT	SLAC	M&S	3	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$371.00	\$1,431.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
775	2.1.7.9.16.12	MULTI-COND (2/C) DATRONIC TO16 CHNL DIST.	SLAC	B&H	2	0.03 wks	\$0.00	\$0.00	\$60.00	\$60.00	\$12.00	\$18.00	\$90.00
		<i>SLACL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>0.03 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$60.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
776	2.1.7.9.16.12	MULTI-COND (2/C) DATRONIC TO16 CHNL DIST.	SLAC	M&S	2	0 wks	\$0.00	\$200.00	\$0.00	\$200.00	\$12.00	\$53.00	\$265.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>200</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
777	2.1.7.9.16.13	MULTI-COND (12/C) REST. CH. TO 16 Ch. Stpr. Ch.	SLAC	B&H	2	0.03 wks	\$0.00	\$0.00	\$60.00	\$60.00	\$12.00	\$18.00	\$90.00
		SLACL PCD:Inst-Cabling-Elec Fab		B&H	0	0.03 wks	\$0.00	\$0.00	\$0.00	\$60.00	\$0.00	\$0.00	\$0.00
778	2.1.7.9.16.13	MULTI-COND (12/C) REST. CH. TO 16 Ch. Stpr. Ch.	SLAC	M&S	2	0 wks	\$0.00	\$200.00	\$0.00	\$200.00	\$12.00	\$53.00	\$265.00
		SLAC M&S Total		M&S	0	200	\$0.00	\$0.00	\$0.00	\$200.00	\$0.00	\$0.00	\$0.00
779	2.1.7.9.16.14	MULTI-COND (12/C) REST. CH. TO COLLIMATOR	SLAC	ED&I	2	0.32 wks	\$0.00	\$0.00	\$640.00	\$640.00	\$128.00	\$192.00	\$960.00
		SLAC Controls: Coordinator Assoc.		ED&I	0	0.32 wks	\$0.00	\$0.00	\$0.00	\$640.00	\$0.00	\$0.00	\$0.00
780	2.1.7.9.16.14	MULTI-COND (12/C) REST. CH. TO COLLIMATOR	SLAC	M&S	2	0 wks	\$0.00	\$400.00	\$0.00	\$400.00	\$24.00	\$106.00	\$530.00
		SLAC M&S Total		M&S	0	400	\$0.00	\$0.00	\$0.00	\$400.00	\$0.00	\$0.00	\$0.00
781	2.1.7.9.16.15	CAMAC CABLE (36/C)16 CHNL DIST. TO IDIM	SLAC	B&H	2	0.2 wks	\$0.00	\$0.00	\$400.00	\$400.00	\$80.00	\$120.00	\$600.00
		SLACL PCD:Inst-Cabling-Elec Fab		B&H	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$400.00	\$0.00	\$0.00	\$0.00
782	2.1.7.9.16.15	CAMAC CABLE (36/C)16 CHNL DIST. TO IDIM	SLAC	M&S	2	0 wks	\$0.00	\$200.00	\$0.00	\$200.00	\$12.00	\$53.00	\$265.00
		SLAC M&S Total		M&S	0	200	\$0.00	\$0.00	\$0.00	\$200.00	\$0.00	\$0.00	\$0.00
783	2.1.7.9.16.16	CAMAC CABLE (36/C)16 CHNL STPR Ch. TO MMC	SLAC	B&H	2	0.2 wks	\$0.00	\$0.00	\$400.00	\$400.00	\$80.00	\$120.00	\$600.00
		SLACL PCD:Inst-Cabling-Elec Fab		B&H	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$400.00	\$0.00	\$0.00	\$0.00
784	2.1.7.9.16.16	CAMAC CABLE (36/C)16 CHNL STPR Ch. TO MMC	SLAC	M&S	2	0 wks	\$0.00	\$200.00	\$0.00	\$200.00	\$12.00	\$53.00	\$265.00
		SLAC M&S Total		M&S	0	200	\$0.00	\$0.00	\$0.00	\$200.00	\$0.00	\$0.00	\$0.00
785	2.1.7.9.16.17	CAMAC CABLE (36/C)16 CHNL DIST Ch. TO SAM	SLAC	B&H	2	0.2 wks	\$0.00	\$0.00	\$400.00	\$400.00	\$80.00	\$120.00	\$600.00
		SLACL PCD:Inst-Cabling-Elec Fab		B&H	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$400.00	\$0.00	\$0.00	\$0.00
786	2.1.7.9.16.17	CAMAC CABLE (36/C)16 CHNL DIST Ch. TO SAM	SLAC	M&S	2	0 wks	\$0.00	\$200.00	\$0.00	\$200.00	\$12.00	\$53.00	\$265.00
		SLAC M&S Total		M&S	0	200	\$0.00	\$0.00	\$0.00	\$200.00	\$0.00	\$0.00	\$0.00
787	2.1.7.9.16.18	WIRING OF COLLIMATOR ASSEMBLY IN LAB (7)	SLAC	M&S	2	0 wks	\$0.00	\$600.00	\$0.00	\$600.00	\$36.00	\$159.00	\$795.00
		SLAC M&S Total		M&S	0	600	\$0.00	\$0.00	\$0.00	\$600.00	\$0.00	\$0.00	\$0.00
788	1.2.1.7.10	E-O Diagnostic			0	41.06 wks	\$0.00	\$5,200.00	\$103,047.87	\$108,247.87	\$20,921.57	\$43,628.86	\$172,798.30
789	1.2.1.7.10.1	Profile Monitor Camera/Electronics	SLAC	ED&I	1	0.5 wks	\$0.00	\$0.00	\$1,000.00	\$1,000.00	\$200.00	\$180.00	\$1,380.00
		SLAC Controls: Coordinator Assoc.		ED&I	0	0.5 wks	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
790	1.2.1.7.10.1	Profile Monitor Camera/Electronics	SLAC	M&S	1	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$477.00	\$3,657.00
		SLAC M&S Total		M&S	0	3,000	\$0.00	\$0.00	\$0.00	\$3,000.00	\$0.00	\$0.00	\$0.00
791	1.2.1.7.10.2	Laser / CCD Diagnostic Software	SLAC	ED&I	3	40 wks	\$0.00	\$0.00	\$101,056.00	\$101,056.00	\$20,211.20	\$42,443.52	\$163,710.72
		SLAC Controls: Programmer		ED&I	0	40 wks	\$0.00	\$0.00	\$0.00	\$101,056.00	\$0.00	\$0.00	\$0.00
792	1.2.1.7.10.3	CAMAC Module, IDOM (1)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$6.31	\$48.40
		SLAC Controls: Technician		B&H	0	0.02 wks	\$0.00	\$0.00	\$0.00	\$35.07	\$0.00	\$0.00	\$0.00
793	1.2.1.7.10.3	CAMAC Module, IDOM (1)	SLAC	M&S	1	0 wks	\$0.00	\$1,200.00	\$0.00	\$1,200.00	\$72.00	\$190.80	\$1,462.80
		SLAC M&S Total		M&S	0	1,200	\$0.00	\$0.00	\$0.00	\$1,200.00	\$0.00	\$0.00	\$0.00
794	1.2.1.7.10.4	CAMAC cable IDOM (1)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$40.00	\$40.00	\$8.00	\$7.20	\$55.20
		SLACL PCD:Inst-Cabling-Elec Fab		B&H	0	0.02 wks	\$0.00	\$0.00	\$0.00	\$40.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
795	1.2.1.7.10.4	CAMAC cable IDOM (1)	SLAC	M&S	1	0 wks	\$0.00	\$200.00	\$0.00	\$200.00	\$12.00	\$31.80	\$243.80
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>200</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
796	1.2.1.7.10.4	CAMAC cable IDOM (1)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$40.00	\$40.00	\$8.00	\$7.20	\$55.20
		<i>SLACL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$40.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
797	1.2.1.7.10.4	CAMAC cable IDOM (1)	SLAC	M&S	1	0 wks	\$0.00	\$200.00	\$0.00	\$200.00	\$12.00	\$31.80	\$243.80
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>200</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
798	1.2.1.7.10.5	Actuator/Attenuator Interface panel	SLAC	B&H	1	0.5 wks	\$0.00	\$0.00	\$876.80	\$876.80	\$175.36	\$157.82	\$1,209.98
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$876.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
799	1.2.1.7.10.6	Multi-Cond. cable (4PR)	SLAC	M&S	1	0 wks	\$0.00	\$600.00	\$0.00	\$600.00	\$36.00	\$95.40	\$731.40
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>600</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
800	1.2.1.7.11	Gun & Injector System			0	2.08 wks	\$0.00	\$35,700.00	\$3,903.74	\$39,603.74	\$2,922.75	\$6,378.97	\$48,905.47
801	1.2.1.7.11.1	Laser Control & Interlock Chassis (2)	SLAC	ED&I	1	0.5 wks	\$0.00	\$0.00	\$1,000.00	\$1,000.00	\$200.00	\$180.00	\$1,380.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	<i>0</i>	<i>0.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
802	1.2.1.7.11.1	Laser Control & Interlock Chassis (2)	SLAC	M&S	1	0 wks	\$0.00	\$20,000.00	\$0.00	\$20,000.00	\$1,200.00	\$3,180.00	\$24,380.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>20,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$20,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
803	1.2.1.7.11.2	Stepper Motor Controller Chassis (1)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$6.31	\$48.40
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35.07</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
804	1.2.1.7.11.2	Stepper Motor Controller Chassis (1)	SLAC	M&S	1	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$795.00	\$6,095.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
805	1.2.1.7.11.3	DC Power Supply, Stepper Motor System (1)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$40.00	\$40.00	\$8.00	\$7.20	\$55.20
		<i>SLACL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$40.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
806	1.2.1.7.11.3	DC Power Supply, Stepper Motor System (1)	SLAC	M&S	1	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$477.00	\$3,657.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
807	1.2.1.7.11.4	CAMAC Module, MMC (1)	SLAC	B&H	1	0.5 wks	\$0.00	\$0.00	\$876.80	\$876.80	\$175.36	\$157.82	\$1,209.98
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$876.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
808	1.2.1.7.11.4	CAMAC Module, MMC (1)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
809	1.2.1.7.11.5	CAMAC Module, SAM (1)	SLAC		1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
810	1.2.1.7.11.5	CAMAC Module, SAM (1)	SLAC	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$318.00	\$2,438.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
811	1.2.1.7.11.6	CAMAC Module, IDOM (1)	SLAC	M&S	1	0 wks	\$0.00	\$1,200.00	\$0.00	\$1,200.00	\$72.00	\$190.80	\$1,462.80
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,200</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
812	1.2.1.7.11.7	CAMAC Module, IDIM (1)	SLAC	ED&I	1	0.5 wks	\$0.00	\$0.00	\$1,000.00	\$1,000.00	\$200.00	\$180.00	\$1,380.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	<i>0</i>	<i>0.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
813	1.2.1.7.11.7	CAMAC Module, IDIM (1)	SLAC	M&S	1	0 wks	\$0.00	\$1,500.00	\$0.00	\$1,500.00	\$90.00	\$238.50	\$1,828.50

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,500</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,500.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
814	1.2.1.7.11.8	Gun Control Chassis CableS (6)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$6.31	\$48.40
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35.07</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
815	1.2.1.7.11.8	Gun Control Chassis CableS (6)	SLAC	M&S	1	0 wks	\$0.00	\$1,200.00	\$0.00	\$1,200.00	\$72.00	\$190.80	\$1,462.80
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,200</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
816	1.2.1.7.11.9	CAMAC cable MMC (1)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$40.00	\$40.00	\$8.00	\$7.20	\$55.20
		<i>SLACL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$40.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
817	1.2.1.7.11.9	CAMAC cable MMC (1)	SLAC	M&S	1	0 wks	\$0.00	\$200.00	\$0.00	\$200.00	\$12.00	\$31.80	\$243.80
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>200</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
818	1.2.1.7.11.10	CAMAC cable SAM (1)	SLAC	B&H	1	0.5 wks	\$0.00	\$0.00	\$876.80	\$876.80	\$175.36	\$157.82	\$1,209.98
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$876.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
819	1.2.1.7.11.10	CAMAC cable SAM (1)	SLAC	M&S	1	0 wks	\$0.00	\$200.00	\$0.00	\$200.00	\$12.00	\$31.80	\$243.80
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>200</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
820	1.2.1.7.11.11	CAMAC cable IDOM (1)	SLAC	M&S	1	0 wks	\$0.00	\$200.00	\$0.00	\$200.00	\$12.00	\$31.80	\$243.80
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>200</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
821	1.2.1.7.11.12	CAMAC cable IDIM (1)	SLAC	M&S	1	0 wks	\$0.00	\$200.00	\$0.00	\$200.00	\$12.00	\$31.80	\$243.80
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>200</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
822	1.2.1.7.12	Alignment Laser Systems			0	1.04 wks	\$0.00	\$5,000.00	\$1,951.87	\$6,951.87	\$690.37	\$1,794.77	\$9,437.02
823	1.2.1.7.12.1	Actuator/Attenuator Interface panel	SLAC	B&H	3	0.5 wks	\$0.00	\$0.00	\$876.80	\$876.80	\$175.36	\$368.26	\$1,420.42
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$876.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
824	1.2.1.7.12.2	Profile Monitor Camera/Electronics	SLAC	ED&I	2	0.5 wks	\$0.00	\$0.00	\$1,000.00	\$1,000.00	\$200.00	\$300.00	\$1,500.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	<i>0</i>	<i>0.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
825	1.2.1.7.12.2	Profile Monitor Camera/Electronics	SLAC	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$795.00	\$3,975.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
826	1.2.1.7.12.3	CAMAC Module, IDOM (1)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$6.31	\$48.40
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35.07</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
827	1.2.1.7.12.3	CAMAC Module, IDOM (1)	SLAC	M&S	1	0 wks	\$0.00	\$1,200.00	\$0.00	\$1,200.00	\$72.00	\$190.80	\$1,462.80
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,200</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
828	1.2.1.7.12.4	CAMAC cable IDOM (1)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$40.00	\$40.00	\$8.00	\$7.20	\$55.20
		<i>SLACL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$40.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
829	1.2.1.7.12.4	CAMAC cable IDOM (1)	SLAC	M&S	1	0 wks	\$0.00	\$200.00	\$0.00	\$200.00	\$12.00	\$31.80	\$243.80
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>200</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
830	1.2.1.7.12.5	MULTI-COND (4PR)	SLAC	M&S	1	0 wks	\$0.00	\$600.00	\$0.00	\$600.00	\$36.00	\$95.40	\$731.40
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>600</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
831	1.2.1.7.13	RF Controls			0	4.2 wks	\$0.00	\$46,800.00	\$12,159.23	\$58,959.23	\$5,239.85	\$29,836.35	\$94,035.43

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
832	1.2.1.7.13.1	Sector 20	SLAC		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
833	1.2.1.7.13.2	RF Phase & Amplitude, BLM, Temp. Controls Hdw.	SLAC	ED&I	4	4 wks	\$0.00	\$0.00	\$11,788.80	\$11,788.80	\$2,357.76	\$7,073.28	\$21,219.84
		<i>SLAC Controls: Engineer</i>		<i>ED&I</i>	0	4 wks	\$0.00	\$0.00	\$0.00	\$11,788.80	\$0.00	\$0.00	\$0.00
834	1.2.1.7.13.2	RF Phase & Amplitude, BLM, Temp. Controls Hdw.	SLAC	M&S	4	0 wks	\$0.00	\$30,000.00	\$0.00	\$30,000.00	\$1,800.00	\$15,900.00	\$47,700.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	30,000	\$0.00	\$0.00	\$0.00	\$30,000.00	\$0.00	\$0.00	\$0.00
835	1.2.1.7.13.3	CAMAC Module, GADC (1)	SLAC	B&H	4	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$21.04	\$63.13
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	0	0.02 wks	\$0.00	\$0.00	\$0.00	\$35.07	\$0.00	\$0.00	\$0.00
836	1.2.1.7.13.3	CAMAC Module, GADC (1)	SLAC	M&S	4	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$3,180.00	\$9,540.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	6,000	\$0.00	\$0.00	\$0.00	\$6,000.00	\$0.00	\$0.00	\$0.00
837	1.2.1.7.13.4	CAMAC Module, DAC (1)	SLAC	B&H	4	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$21.04	\$63.13
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	0	0.02 wks	\$0.00	\$0.00	\$0.00	\$35.07	\$0.00	\$0.00	\$0.00
838	1.2.1.7.13.4	CAMAC Module, DAC (1)	SLAC	M&S	4	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$1,060.00	\$3,180.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
839	1.2.1.7.13.5	CAMAC Module, SAM (1)	SLAC	B&H	4	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$21.04	\$63.13
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	0	0.02 wks	\$0.00	\$0.00	\$0.00	\$35.07	\$0.00	\$0.00	\$0.00
840	1.2.1.7.13.5	CAMAC Module, SAM (1)	SLAC	M&S	4	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$1,060.00	\$3,180.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
841	1.2.1.7.13.6	CAMAC Module PAU (2)	SLAC	B&H	1	0.06 wks	\$0.00	\$0.00	\$105.22	\$105.22	\$21.04	\$18.94	\$145.20
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	0	0.06 wks	\$0.00	\$0.00	\$0.00	\$105.22	\$0.00	\$0.00	\$0.00
842	1.2.1.7.13.6	CAMAC Module PAU (2)	SLAC	M&S	1	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$795.00	\$6,095.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	5,000	\$0.00	\$0.00	\$0.00	\$5,000.00	\$0.00	\$0.00	\$0.00
843	1.2.1.7.13.7	CAMAC cable GADC (2)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$40.00	\$40.00	\$8.00	\$7.20	\$55.20
		<i>SLACL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	0	0.02 wks	\$0.00	\$0.00	\$0.00	\$40.00	\$0.00	\$0.00	\$0.00
844	1.2.1.7.13.7	CAMAC cable GADC (2)	SLAC	M&S	1	0 wks	\$0.00	\$200.00	\$0.00	\$200.00	\$12.00	\$31.80	\$243.80
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	200	\$0.00	\$0.00	\$0.00	\$200.00	\$0.00	\$0.00	\$0.00
845	1.2.1.7.13.8	CAMAC cable DAC (1)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$40.00	\$40.00	\$8.00	\$7.20	\$55.20
		<i>SLACL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	0	0.02 wks	\$0.00	\$0.00	\$0.00	\$40.00	\$0.00	\$0.00	\$0.00
846	1.2.1.7.13.8	CAMAC cable DAC (1)	SLAC	M&S	1	0 wks	\$0.00	\$200.00	\$0.00	\$200.00	\$12.00	\$31.80	\$243.80
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	200	\$0.00	\$0.00	\$0.00	\$200.00	\$0.00	\$0.00	\$0.00
847	1.2.1.7.13.9	CAMAC cable SAM (2)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$40.00	\$40.00	\$8.00	\$7.20	\$55.20
		<i>SLACL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	0	0.02 wks	\$0.00	\$0.00	\$0.00	\$40.00	\$0.00	\$0.00	\$0.00
848	1.2.1.7.13.9	CAMAC cable SAM (2)	SLAC	M&S	1	0 wks	\$0.00	\$200.00	\$0.00	\$200.00	\$12.00	\$31.80	\$243.80
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	200	\$0.00	\$0.00	\$0.00	\$200.00	\$0.00	\$0.00	\$0.00
849	1.2.1.7.13.10	CAMAC cable PAU	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$40.00	\$40.00	\$8.00	\$7.20	\$55.20
		<i>SLACL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	0	0.02 wks	\$0.00	\$0.00	\$0.00	\$40.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
850	1.2.1.7.13.10	CAMAC cable PAU	SLAC	M&S	1	0 wks	\$0.00	\$200.00	\$0.00	\$200.00	\$12.00	\$31.80	\$243.80
		SLAC M&S Total		M&S	0	200	\$0.00	\$0.00	\$0.00	\$200.00	\$0.00	\$0.00	\$0.00
851	1.2.1.7.13.11	Cableplant Phase & Amp., BLM, Temp.	SLAC	M&S	4	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$530.00	\$1,590.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
852	1.2.1.7.14	Reserved			0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
853	1.2.1.7.14.1	Beam Stopper Controls	SLAC		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
854	1.2.1.8	PPS			0	63.21 wks	\$0.00	\$75,019.00	\$130,995.42	\$206,014.42	\$30,700.22	\$58,780.89	\$295,495.54
855	1.2.1.8.1	Injector PPS			0	39.21 wks	\$0.00	\$37,017.00	\$83,024.22	\$120,041.22	\$18,825.86	\$42,876.62	\$181,743.71
856	1.2.1.8.1.1	Injector PPS	SLAC		4	39.21 wks	\$0.00	\$37,017.00	\$83,024.22	\$120,041.22	\$18,825.86	\$42,876.62	\$181,743.71
857	1.2.1.8.1.1	Limit Switches (6)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
858	1.2.1.8.1.1	Door (1)	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
859	1.2.1.8.1.1	Emergency Entry Key Box (1)	SLAC	M&S	1	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$477.00	\$3,657.00
		SLAC M&S Total		M&S	0	3,000	\$0.00	\$0.00	\$0.00	\$3,000.00	\$0.00	\$0.00	\$0.00
860	1.2.1.8.1.1	Annunciator Sign (1)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
861	1.2.1.8.1.1	Search Preset Box (1)	SLAC	M&S	1	0 wks	\$0.00	\$1.00	\$0.00	\$1.00	\$0.06	\$0.16	\$1.22
		SLAC M&S Total		M&S	0	1	\$0.00	\$0.00	\$0.00	\$1.00	\$0.00	\$0.00	\$0.00
862	1.2.1.8.1.1	Search Reset (1)	SLAC	M&S	1	0 wks	\$0.00	\$1.00	\$0.00	\$1.00	\$0.06	\$0.16	\$1.22
		SLAC M&S Total		M&S	0	1	\$0.00	\$0.00	\$0.00	\$1.00	\$0.00	\$0.00	\$0.00
863	1.2.1.8.1.1	PLC Controllers (2)	SLAC	M&S	1	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$636.00	\$4,876.00
		SLAC M&S Total		M&S	0	4,000	\$0.00	\$0.00	\$0.00	\$4,000.00	\$0.00	\$0.00	\$0.00
864	1.2.1.8.1.1	Gate (1)	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
865	1.2.1.8.1.1	Rask Beacon (1)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
866	1.2.1.8.1.1	Audio Annunciator (1)	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
867	1.2.1.8.1.1	Audio Amplifier (1)	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
868	1.2.1.8.1.1	Speakers (5)	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
869	1.2.1.8.1.1	Audio Mixer (1)	SLAC	M&S	2	0 wks	\$0.00	\$1.00	\$0.00	\$1.00	\$0.06	\$0.27	\$1.33
		SLAC M&S Total		M&S	0	1	\$0.00	\$0.00	\$0.00	\$1.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
870	1.2.1.8.1.1	EO Buttons (5)	SLAC	M&S	1	0 wks	\$0.00	\$1.00	\$0.00	\$1.00	\$0.06	\$0.16	\$1.22
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
871	1.2.1.8.1.1	EE Buttons (5)	SLAC	M&S	1	0 wks	\$0.00	\$1.00	\$0.00	\$1.00	\$0.06	\$0.16	\$1.22
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
872	1.2.1.8.1.1	Y/M Lights	SLAC	M&S	1	0 wks	\$0.00	\$1.00	\$0.00	\$1.00	\$0.06	\$0.16	\$1.22
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
873	1.2.1.8.1.1	Hazard Interface Chassis	SLAC	M&S	3	0 wks	\$0.00	\$1.00	\$0.00	\$1.00	\$0.06	\$0.37	\$1.43
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
874	1.2.1.8.1.1	LASER Safety Interface Chassis Interface Chassis	SLAC	M&S	3	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$1,855.00	\$7,155.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
875	1.2.1.8.1.1	Control/Logic Panels (S20)	SLAC	M&S	3	0 wks	\$0.00	\$1.00	\$0.00	\$1.00	\$0.06	\$0.37	\$1.43
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
876	1.2.1.8.1.1	Logic Array Package (S20)	SLAC	M&S	3	0 wks	\$0.00	\$1.00	\$0.00	\$1.00	\$0.06	\$0.37	\$1.43
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
877	1.2.1.8.1.1	CAMAC Module, IDOM	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
878	1.2.1.8.1.1	CAMAC Module, LDIM	SLAC	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$795.00	\$3,975.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
879	1.2.1.8.1.1	CAMAC Module, SAM	SLAC	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$318.00	\$2,438.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
880	1.2.1.8.1.1	CAMAC cable, Panel to IDOM	SLAC	M&S	1	0 wks	\$0.00	\$1.00	\$0.00	\$1.00	\$0.06	\$0.16	\$1.22
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
881	1.2.1.8.1.1	CAMAC cable, Panel to LDIM	SLAC	M&S	1	0 wks	\$0.00	\$1.00	\$0.00	\$1.00	\$0.06	\$0.16	\$1.22
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
882	1.2.1.8.1.1	CAMAC cable, Panel to LDIM	SLAC	M&S	1	0 wks	\$0.00	\$1.00	\$0.00	\$1.00	\$0.06	\$0.16	\$1.22
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
883	1.2.1.8.1.1	CAMAC cable, Panel to SAM (BSOIC R/O)	SLAC	M&S	1	0 wks	\$0.00	\$1.00	\$0.00	\$1.00	\$0.06	\$0.16	\$1.22
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
884	1.2.1.8.1.1	Cable, 36 PR Arm, Logic Panel to Control Console (1)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
885	1.2.1.8.1.1	Cable, Multi-conductor, PA System to X-connects (1)	SLAC	M&S	1	0 wks	\$0.00	\$1.00	\$0.00	\$1.00	\$0.06	\$0.16	\$1.22
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
886	1.2.1.8.1.1	12 pr Cable (1000ft)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
887	1.2.1.8.1.1	50 pr cable (250ft)	SLAC	M&S	1	0 wks	\$0.00	\$1.00	\$0.00	\$1.00	\$0.06	\$0.16	\$1.22

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
888	1.2.1.8.1.1	4 pr (1500ft)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
889	1.2.1.8.1.1	Cable,TBD Hazards Intf.	SLAC	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$318.00	\$2,438.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
890	1.2.1.8.1.1	Cable,TBD LASER Safety Intf.	SLAC	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$318.00	\$2,438.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
891	1.2.1.8.1.1	CAMAC cable, Panel to LDIM	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
892	1.2.1.8.1.1	CAMAC cable, Panel to SAM (BSOIC R/O)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
893	1.2.1.8.1.1	Cable, 36 PR Arm, Logic Panel to Control Console (1)	SLAC	M&S	1	0 wks	\$0.00	\$1.00	\$0.00	\$1.00	\$0.06	\$0.16	\$1.22
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
894	1.2.1.8.1.1	Cable, Multi-conductor, PA System to X-connects (1)	SLAC	M&S	1	0 wks	\$0.00	\$1.00	\$0.00	\$1.00	\$0.06	\$0.16	\$1.22
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
895	1.2.1.8.1.1	PPS Systems Checkout & Certification- Engineering	SLAC	ED&I	3	9 wks	\$0.00	\$0.00	\$27,000.00	\$27,000.00	\$5,400.00	\$11,340.00	\$43,740.00
		<i>S LAC Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>9 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$27,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
896	1.2.1.8.1.1	PPS Systems Checkout & Certification- Coordination	SLAC	ED&I	3	12.37 wks	\$0.00	\$0.00	\$24,740.00	\$24,740.00	\$4,948.00	\$10,390.80	\$40,078.80
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	<i>0</i>	<i>12.37 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$24,740.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
897	1.2.1.8.1.1	PPS Systems Checkout & Certification- Technician	SLAC	B&H	3	17.84 wks	\$0.00	\$0.00	\$31,284.22	\$31,284.22	\$6,256.84	\$13,139.37	\$50,680.44
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>17.84 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$31,284.22</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
898	1.2.1.8.2	Injector BCS			0	0 wks	\$0.00	\$14,002.00	\$0.00	\$14,002.00	\$840.12	\$2,650.32	\$17,492.44
899	1.2.1.8.2.1	Machine Protection PIC Module (2)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
900	1.2.1.8.2.1	Cable, Coax, PIC Module to PIC Detector (6)	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
901	1.2.1.8.2.1	Cable, Coax, HV P.S. to PIC Detector (6)	SLAC	M&S	1	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$477.00	\$3,657.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
902	1.2.1.8.2.1	Cable,1553, PIC Module Chain to VME A.P. Crate	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
903	1.2.1.8.2.1	Cable,8/C, HV P.S. to X-connects (P.S. Status)	SLAC	M&S	1	0 wks	\$0.00	\$1.00	\$0.00	\$1.00	\$0.06	\$0.16	\$1.22
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
904	1.2.1.8.2.1	Cable,4/C, HV P.S. to X-connects (HV Enable)	SLAC	M&S	1	0 wks	\$0.00	\$1.00	\$0.00	\$1.00	\$0.06	\$0.16	\$1.22
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
905	1.2.1.8.2.1	Interrack X-connects	SLAC	M&S	1	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$636.00	\$4,876.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
906	1.2.1.8.2.1	Summary & Interlock Chassis	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
907	1.2.1.8.2.1	CAMAC Module, LDIM	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
908	1.2.1.8.2.1	Cable, LDIM to X-connects	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
909	1.2.1.8.3	Beam Stopper			0	12 wks	\$0.00	\$12,000.00	\$23,985.60	\$35,985.60	\$5,517.12	\$13,253.95	\$54,756.67
910	1.2.1.8.3.1	Materials	SLAC	M&S	2	0 wks	\$0.00	\$12,000.00	\$0.00	\$12,000.00	\$720.00	\$3,180.00	\$15,900.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>12,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
911	1.2.1.8.3.2	Assembly/Mfg	SLAC	B&H	3	12 wks	\$0.00	\$0.00	\$23,985.60	\$23,985.60	\$4,797.12	\$10,073.95	\$38,856.67
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>12 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$23,985.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
912	1.2.1.8.4	Beam Spectrometer			0	12 wks	\$0.00	\$12,000.00	\$23,985.60	\$35,985.60	\$5,517.12	\$0.00	\$41,502.72
913	1.2.1.8.4.1	Materials	SLAC	M&S	0	0 wks	\$0.00	\$12,000.00	\$0.00	\$12,000.00	\$720.00	\$0.00	\$12,720.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>12,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
914	1.2.1.8.4.2	Assembly/Mfg	SLAC	B&H	0	12 wks	\$0.00	\$0.00	\$23,985.60	\$23,985.60	\$4,797.12	\$0.00	\$28,782.72
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>12 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$23,985.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
915	1.2.1.9	RF			0	399 wks	\$0.00	\$795,000.00	\$1,047,889.20	\$1,842,889.20	\$257,277.84	\$578,204.82	\$2,678,371.86
916	1.2.1.9.1	Gun			0	110 wks	\$0.00	\$150,000.00	\$294,934.00	\$444,934.00	\$67,986.80	\$185,290.20	\$698,211.00
917	1.2.1.9.1.1	Gun Materials	SLAC	M&S	3	0 wks	\$0.00	\$30,000.00	\$0.00	\$30,000.00	\$1,800.00	\$11,130.00	\$42,930.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>30,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$30,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
918	1.2.1.9.1.2	Gun Fabrication	SLAC	M&S	3	0 wks	\$0.00	\$30,000.00	\$0.00	\$30,000.00	\$1,800.00	\$11,130.00	\$42,930.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>30,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$30,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
919	1.2.1.9.1.3	Gun Assembly	SLAC	B&H	4	25 wks	\$0.00	\$0.00	\$49,970.00	\$49,970.00	\$9,994.00	\$29,982.00	\$89,946.00
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>25 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$49,970.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
920	1.2.1.9.1.4	Proc., Man. & Assembly Supervision	SLAC	ED&I	4	25 wks	\$0.00	\$0.00	\$84,000.00	\$84,000.00	\$16,800.00	\$50,400.00	\$151,200.00
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>25 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$84,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
921	1.2.1.9.1.5	Gun Tests in Lab	SLAC	B&H	0	25 wks	\$0.00	\$0.00	\$49,970.00	\$49,970.00	\$9,994.00	\$0.00	\$59,964.00
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>25 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$49,970.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
922	1.2.1.9.1.5	Gun Tests in Lab	SLAC	ED&I	4	25 wks	\$0.00	\$0.00	\$85,000.00	\$85,000.00	\$17,000.00	\$51,000.00	\$153,000.00
		<i>SLAC Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>25 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$85,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
923	1.2.1.9.1.6	High Power Waveguides	SLAC	B&H	2	5 wks	\$0.00	\$0.00	\$9,994.00	\$9,994.00	\$1,998.80	\$2,998.20	\$14,991.00
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,994.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
924	1.2.1.9.1.6	High Power Waveguides	SLAC	M&S	2	0 wks	\$0.00	\$77,000.00	\$0.00	\$77,000.00	\$4,620.00	\$20,405.00	\$102,025.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>77,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$77,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
925	1.2.1.9.1.7	Couplers	SLAC	B&H	2	3 wks	\$0.00	\$0.00	\$9,600.00	\$9,600.00	\$1,920.00	\$2,880.00	\$14,400.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
926	1.2.1.9.1.7	Couplers	SLAC	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$795.00	\$3,975.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
927	1.2.1.9.1.8	Loads	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$6,400.00	\$6,400.00	\$1,280.00	\$1,920.00	\$9,600.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
928	1.2.1.9.1.8	Loads	SLAC	M&S	2	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$600.00	\$2,650.00	\$13,250.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
929	1.2.1.9.2	Accelerator Structures			0	37 wks	\$0.00	\$185,000.00	\$87,756.40	\$272,756.40	\$28,651.28	\$75,351.92	\$376,759.60
930	1.2.1.9.2.1	Structure Refurbish	SLAC	B&H	2	13 wks	\$0.00	\$0.00	\$25,984.40	\$25,984.40	\$5,196.88	\$7,795.32	\$38,976.60
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>13 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$25,984.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
931	1.2.1.9.2.1	Structure Refurbish	SLAC	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$1,325.00	\$6,625.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
932	1.2.1.9.2.2	Structure Testing	SLAC	ED&I	2	2 wks	\$0.00	\$0.00	\$5,786.40	\$5,786.40	\$1,157.28	\$1,735.92	\$8,679.60
		<i>SLAC Klystron: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,786.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
933	1.2.1.9.2.3	Proc., Man. & Assembly Supervision	SLAC	B&H	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
934	1.2.1.9.2.3	Proc., Man. & Assembly Supervision	SLAC	ED&I	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
935	1.2.1.9.2.4	High Power Waveguide	SLAC	B&H	2	10 wks	\$0.00	\$0.00	\$19,988.00	\$19,988.00	\$3,997.60	\$5,996.40	\$29,982.00
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>10 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$19,988.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
936	1.2.1.9.2.4	High Power Waveguide	SLAC	M&S	2	0 wks	\$0.00	\$154,000.00	\$0.00	\$154,000.00	\$9,240.00	\$40,810.00	\$204,050.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>154,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$154,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
937	1.2.1.9.2.5	Couplers	SLAC	B&H	2	6 wks	\$0.00	\$0.00	\$19,200.00	\$19,200.00	\$3,840.00	\$5,760.00	\$28,800.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$19,200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
938	1.2.1.9.2.5	Couplers	SLAC	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$1,590.00	\$7,950.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
939	1.2.1.9.2.6	Loads	SLAC	B&H	2	4 wks	\$0.00	\$0.00	\$12,800.00	\$12,800.00	\$2,560.00	\$3,840.00	\$19,200.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
940	1.2.1.9.2.6	Loads	SLAC	M&S	2	0 wks	\$0.00	\$20,000.00	\$0.00	\$20,000.00	\$1,200.00	\$5,300.00	\$26,500.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>20,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$20,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
941	1.2.1.9.2.7	Refurbish Modulator	SLAC		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
942	1.2.1.9.2.8	Solid State Subbooster	SLAC		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
943	1.2.1.9.2.9	IPA Mods	SLAC		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
944	1.2.1.9.2.10	Controls Interface	SLAC		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
945	1.2.1.9.2.11	Installation	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$3,997.60	\$3,997.60	\$799.52	\$1,199.28	\$5,996.40
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,997.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
946	1.2.1.9.3	Transverse RF Cavity			0	20 wks	\$0.00	\$93,000.00	\$49,278.80	\$142,278.80	\$15,435.76	\$39,428.64	\$197,143.20
947	1.2.1.9.3.1	Structure Refurbish	SLAC	B&H	2	7 wks	\$0.00	\$0.00	\$13,991.60	\$13,991.60	\$2,798.32	\$4,197.48	\$20,987.40
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>7 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,991.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
948	1.2.1.9.3.1	Structure Refurbish	SLAC	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$795.00	\$3,975.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
949	1.2.1.9.3.2	Structure Testing	SLAC	ED&I	2	1 wk	\$0.00	\$0.00	\$2,893.20	\$2,893.20	\$578.64	\$867.96	\$4,339.80
		<i>SLAC Klystron: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,893.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
950	1.2.1.9.3.3	Proc., Man. & Assembly Supervision	SLAC	B&H	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
951	1.2.1.9.3.3	Proc., Man. & Assembly Supervision	SLAC	ED&I	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
952	1.2.1.9.3.4	High Power Waveguide	SLAC	B&H	2	5 wks	\$0.00	\$0.00	\$9,994.00	\$9,994.00	\$1,998.80	\$2,998.20	\$14,991.00
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,994.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
953	1.2.1.9.3.4	High Power Waveguide	SLAC	M&S	2	0 wks	\$0.00	\$77,000.00	\$0.00	\$77,000.00	\$4,620.00	\$20,405.00	\$102,025.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>77,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$77,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
954	1.2.1.9.3.5	Couplers	SLAC	B&H	2	3 wks	\$0.00	\$0.00	\$9,600.00	\$9,600.00	\$1,920.00	\$2,880.00	\$14,400.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
955	1.2.1.9.3.5	Couplers	SLAC	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$795.00	\$3,975.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
956	1.2.1.9.3.6	Loads	SLAC	B&H	2	4 wks	\$0.00	\$0.00	\$12,800.00	\$12,800.00	\$2,560.00	\$3,840.00	\$19,200.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
957	1.2.1.9.3.6	Loads	SLAC	M&S	2	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$600.00	\$2,650.00	\$13,250.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
958	1.2.1.9.3.7	Refurbish Modulator	SLAC		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
959	1.2.1.9.3.8	Solid State Subbooster	SLAC		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
960	1.2.1.9.3.9	IPA Mods	SLAC		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
961	1.2.1.9.3.10	Controls Interface	SLAC		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
962	1.2.1.9.4	RF Distribution System			0	232 wks	\$0.00	\$367,000.00	\$615,920.00	\$982,920.00	\$145,204.00	\$278,134.06	\$1,406,258.06
963	1.2.1.9.4.1	Master Oscillator	SLAC		1	2 wks	\$0.00	\$55,000.00	\$5,786.40	\$60,786.40	\$4,457.28	\$9,786.55	\$75,030.23
964	1.2.1.9.4.1	Master Oscillator [3]	SLAC	M&S	1	0 wks	\$0.00	\$55,000.00	\$0.00	\$55,000.00	\$3,300.00	\$8,745.00	\$67,045.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>55,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$55,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
965	1.2.1.9.4.1	Testing	SLAC	ED&I	1	2 wks	\$0.00	\$0.00	\$5,786.40	\$5,786.40	\$1,157.28	\$1,041.55	\$7,985.23
		<i>SLAC Klystron: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,786.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
966	1.2.1.9.4.2	LCLS Oscillator	SLAC		1	6 wks	\$0.00	\$30,000.00	\$10,646.40	\$40,646.40	\$3,929.28	\$7,963.92	\$52,539.60
967	1.2.1.9.4.2	LCLS Master Osc. [3]	SLAC	M&S	1	0 wks	\$0.00	\$30,000.00	\$0.00	\$30,000.00	\$1,800.00	\$4,770.00	\$36,570.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>30,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$30,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
968	1.2.1.9.4.2	Integration / Testing	SLAC	B&H	2	6 wks	\$0.00	\$0.00	\$10,646.40	\$10,646.40	\$2,129.28	\$3,193.92	\$15,969.60
		<i>SLAC Klystron: Technician</i>		<i>B&H</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,646.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
969	1.2.1.9.4.3	Sector 0 & MDL Mods	SLAC		1	17 wks	\$0.00	\$23,000.00	\$32,302.40	\$55,302.40	\$7,840.48	\$17,359.11	\$80,501.99
970	1.2.1.9.4.3	SLD Countdown Chassis	SLAC	B&H	2	4 wks	\$0.00	\$0.00	\$7,097.60	\$7,097.60	\$1,419.52	\$2,129.28	\$10,646.40
		<i>SLAC Klystron: Technician</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,097.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
971	1.2.1.9.4.3	SLD Countdown Chassis	SLAC	M&S	2	0 wks	\$0.00	\$20,000.00	\$0.00	\$20,000.00	\$1,200.00	\$5,300.00	\$26,500.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>20,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$20,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
972	1.2.1.9.4.3	MTG Modifications Test	SLAC	ED&I	2	2 wks	\$0.00	\$0.00	\$5,894.40	\$5,894.40	\$1,178.88	\$1,768.32	\$8,841.60
		<i>SLAC Controls: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,894.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
973	1.2.1.9.4.3	Sector 20 MDL Mods	SLAC	B&H	1	1 wk	\$0.00	\$0.00	\$1,774.40	\$1,774.40	\$354.88	\$319.39	\$2,448.67
		<i>SLAC Klystron: Technician</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,774.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
974	1.2.1.9.4.3	Sector 20 MDL Mods	SLAC	M&S	1	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$477.00	\$3,657.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
975	1.2.1.9.4.3	System Tests	SLAC	B&H	3	10 wks	\$0.00	\$0.00	\$17,536.00	\$17,536.00	\$3,507.20	\$7,365.12	\$28,408.32
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>10 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$17,536.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
976	1.2.1.9.4.4	RF Distribution L0, L1	SLAC		2	10 wks	\$0.00	\$43,000.00	\$19,097.60	\$62,097.60	\$6,399.52	\$12,186.28	\$80,683.40
977	1.2.1.9.4.4	S-Band RF Cables 31	SLAC	B&H	1	4 wks	\$0.00	\$0.00	\$8,000.00	\$8,000.00	\$1,600.00	\$1,440.00	\$11,040.00
		<i>SLACL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
978	1.2.1.9.4.4	S-Band RF Cables 31	SLAC	M&S	1	0 wks	\$0.00	\$31,000.00	\$0.00	\$31,000.00	\$1,860.00	\$4,929.00	\$37,789.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>31,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$31,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
979	1.2.1.9.4.4	Dist. Amp Chassis	SLAC	B&H	2	4 wks	\$0.00	\$0.00	\$7,097.60	\$7,097.60	\$1,419.52	\$2,129.28	\$10,646.40
		<i>SLAC Klystron: Technician</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,097.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
980	1.2.1.9.4.4	Dist. Amp Chassis	SLAC	M&S	2	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$600.00	\$2,650.00	\$13,250.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
981	1.2.1.9.4.4	Cable Guides	SLAC	B&H	1	2 wks	\$0.00	\$0.00	\$4,000.00	\$4,000.00	\$800.00	\$720.00	\$5,520.00
		<i>SLACL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
982	1.2.1.9.4.4	Cable Guides	SLAC	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$318.00	\$2,438.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
983	1.2.1.9.4.5	RF Distribution L0,L1 Electronics	SLAC		0	2 wks	\$0.00	\$10,000.00	\$3,548.80	\$13,548.80	\$1,309.76	\$5,200.50	\$20,059.06
984	1.2.1.9.4.5	Laser Phase Locking Chassis	SLAC	B&H	3	2 wks	\$0.00	\$0.00	\$3,548.80	\$3,548.80	\$709.76	\$1,490.50	\$5,749.06
		<i>SLAC Klystron: Technician</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,548.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
985	1.2.1.9.4.5	Laser Phase Locking Chassis	SLAC	M&S	3	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$600.00	\$3,710.00	\$14,310.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
986	1.2.1.9.4.6	Beam Phase / Length Electronics	SLAC		0	3 wks	\$0.00	\$30,000.00	\$5,323.20	\$35,323.20	\$2,864.64	\$19,093.92	\$57,281.76
987	1.2.1.9.4.6	Fabrication	SLAC	B&H	4	3 wks	\$0.00	\$0.00	\$5,323.20	\$5,323.20	\$1,064.64	\$3,193.92	\$9,581.76
		<i>SLAC Klystron: Technician</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,323.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
988	1.2.1.9.4.6	Fabrication	SLAC	M&S	4	0 wks	\$0.00	\$30,000.00	\$0.00	\$30,000.00	\$1,800.00	\$15,900.00	\$47,700.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>30,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$30,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
989	1.2.1.9.4.7	RF Phase Measurement	SLAC		0	12 wks	\$0.00	\$36,000.00	\$21,292.80	\$57,292.80	\$6,418.56	\$15,927.84	\$79,639.20
990	1.2.1.9.4.7	12 units S-Band	SLAC	B&H	2	12 wks	\$0.00	\$0.00	\$21,292.80	\$21,292.80	\$4,258.56	\$6,387.84	\$31,939.20
		<i>SLAC Klystron: Technician</i>		<i>B&H</i>	<i>0</i>	<i>12 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$21,292.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
991	1.2.1.9.4.7	12 units S-Band	SLAC	M&S	2	0 wks	\$0.00	\$36,000.00	\$0.00	\$36,000.00	\$2,160.00	\$9,540.00	\$47,700.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>36,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$36,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
992	1.2.1.9.4.8	DAC, SAM Breakout	SLAC		0	5 wks	\$0.00	\$12,000.00	\$9,323.20	\$21,323.20	\$2,584.64	\$5,976.96	\$29,884.80
993	1.2.1.9.4.8	Fab 6 units	SLAC	B&H	2	3 wks	\$0.00	\$0.00	\$5,323.20	\$5,323.20	\$1,064.64	\$1,596.96	\$7,984.80
		<i>SLAC Klystron: Technician</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,323.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
994	1.2.1.9.4.8	Cables 60 Fab and Route	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$4,000.00	\$4,000.00	\$800.00	\$1,200.00	\$6,000.00
		<i>SLACL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
995	1.2.1.9.4.8	Cables 60 Fab and Route	SLAC	M&S	2	0 wks	\$0.00	\$12,000.00	\$0.00	\$12,000.00	\$720.00	\$3,180.00	\$15,900.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>12,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
996	1.2.1.9.4.9	RF Sector 20 Enclosure	SLAC		0	2 wks	\$0.00	\$13,000.00	\$5,400.00	\$18,400.00	\$1,860.00	\$5,065.00	\$25,325.00
997	1.2.1.9.4.9	Insulated Enclosure	SLAC	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$1,590.00	\$7,950.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
998	1.2.1.9.4.9	Air / Electrical	SLAC	B&H	2	1 wk	\$0.00	\$0.00	\$2,720.00	\$2,720.00	\$544.00	\$816.00	\$4,080.00
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,720.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
999	1.2.1.9.4.9	Air / Electrical	SLAC	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$1,590.00	\$7,950.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1000	1.2.1.9.4.9	LCW Supply - Chassis	SLAC	B&H	2	1 wk	\$0.00	\$0.00	\$2,680.00	\$2,680.00	\$536.00	\$804.00	\$4,020.00
		<i>SLAC T&M Crafts - Union Pipefitter</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,680.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1001	1.2.1.9.4.9	LCW Supply - Chassis	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1002	1.2.1.9.4.10	Modulator Referbish (4)	SLAC		0	8 wks	\$0.00	\$48,000.00	\$14,112.00	\$62,112.00	\$5,702.40	\$16,953.60	\$84,768.00
1003	1.2.1.9.4.10	Refurbish Modulator	SLAC	B&H	2	4 wks	\$0.00	\$0.00	\$7,014.40	\$7,014.40	\$1,402.88	\$2,104.32	\$10,521.60
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,014.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1004	1.2.1.9.4.10	Klystron Change to Source Tube	SLAC	B&H	2	4 wks	\$0.00	\$0.00	\$7,097.60	\$7,097.60	\$1,419.52	\$2,129.28	\$10,646.40
		<i>SLAC Klystron: Technician</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,097.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1005	1.2.1.9.4.10	Thyratron and Parts	SLAC	M&S	2	0 wks	\$0.00	\$48,000.00	\$0.00	\$48,000.00	\$2,880.00	\$12,720.00	\$63,600.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>48,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$48,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1006	1.2.1.9.4.11	Solid State Subbooster	SLAC		0	10 wks	\$0.00	\$60,000.00	\$17,744.00	\$77,744.00	\$7,148.80	\$21,223.20	\$106,116.00
1007	1.2.1.9.4.11	Amplifier	SLAC	B&H	2	5 wks	\$0.00	\$0.00	\$8,872.00	\$8,872.00	\$1,774.40	\$2,661.60	\$13,308.00
		<i>SLAC Klystron: Technician</i>		<i>B&H</i>	<i>0</i>	<i>5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,872.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1008	1.2.1.9.4.11	Amplifier	SLAC	M&S	2	0 wks	\$0.00	\$50,000.00	\$0.00	\$50,000.00	\$3,000.00	\$13,250.00	\$66,250.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>50,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$50,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1009	1.2.1.9.4.11	Phase Control	SLAC	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$1,325.00	\$6,625.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1010	1.2.1.9.4.11	Amplitude Control	SLAC	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$1,325.00	\$6,625.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1011	1.2.1.9.4.11	Integration	SLAC	B&H	2	5 wks	\$0.00	\$0.00	\$8,872.00	\$8,872.00	\$1,774.40	\$2,661.60	\$13,308.00
		<i>SLAC Klystron: Technician</i>		<i>B&H</i>	<i>0</i>	<i>5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,872.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1012	1.2.1.9.4.12	IPA Modifications	SLAC		0	2 wks	\$0.00	\$2,000.00	\$3,548.80	\$5,548.80	\$829.76	\$956.78	\$7,335.34
1013	1.2.1.9.4.12	Modify IPA Chassis	SLAC	B&H	1	1 wk	\$0.00	\$0.00	\$1,774.40	\$1,774.40	\$354.88	\$319.39	\$2,448.67
		<i>SLAC Klystron: Technician</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,774.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1014	1.2.1.9.4.12	Modify IPA Chassis	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1015	1.2.1.9.4.12	Recable Station	SLAC	B&H	1	1 wk	\$0.00	\$0.00	\$1,774.40	\$1,774.40	\$354.88	\$319.39	\$2,448.67
		<i>SLAC Klystron: Technician</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,774.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1016	1.2.1.9.4.12	Recable Station	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1017	1.2.1.9.4.13	Modulator Control Interface (4)	SLAC		0	3 wks	\$0.00	\$5,000.00	\$5,774.40	\$10,774.40	\$1,454.88	\$1,834.39	\$14,063.67
1018	1.2.1.9.4.13	Cables	SLAC	B&H	1	1 wk	\$0.00	\$0.00	\$1,774.40	\$1,774.40	\$354.88	\$319.39	\$2,448.67
		<i>SLAC Klystron: Technician</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,774.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1019	1.2.1.9.4.13	Installation	SLAC	B&H	1	2 wks	\$0.00	\$0.00	\$4,000.00	\$4,000.00	\$800.00	\$720.00	\$5,520.00
		<i>SLACL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1020	1.2.1.9.4.13	Installation	SLAC	M&S	1	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$795.00	\$6,095.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1021	1.2.1.9.4.14	RF Stability Setup	SLAC		0	150 wks	\$0.00	\$0.00	\$462,020.00	\$462,020.00	\$92,404.00	\$138,606.00	\$693,030.00
1022	1.2.1.9.4.14	RF feedback measurements	SLAC	ED&I	2	50 wks	\$0.00	\$0.00	\$144,660.00	\$144,660.00	\$28,932.00	\$43,398.00	\$216,990.00
		<i>SLAC Klystron: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>50 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$144,660.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1023	1.2.1.9.4.14	RF Feedback Setup	SLAC	ED&I	2	50 wks	\$0.00	\$0.00	\$170,000.00	\$170,000.00	\$34,000.00	\$51,000.00	\$255,000.00
		<i>SLAC Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>50 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$170,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1024	1.2.1.9.4.14	RF Feedback Algorithm Adjustments	SLAC	ED&I	2	50 wks	\$0.00	\$0.00	\$147,360.00	\$147,360.00	\$29,472.00	\$44,208.00	\$221,040.00
		<i>SLAC Controls: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>50 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$147,360.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
1025	1.2.1.10	Lasers			0	257.45 wks	\$0.00	\$1,860,504.00	\$863,123.52	\$2,723,627.52	\$284,254.94	\$612,614.37	\$3,620,496.84
1026	1.2.1.10.1	Gun Laser			0	228.45 wks	\$0.00	\$1,795,504.00	\$771,128.32	\$2,566,632.32	\$261,955.90	\$612,614.37	\$3,441,202.60
1027	1.2.1.10.1.1	Oscillator Laser & Pump	SLAC		1	8 wks	\$0.00	\$141,000.00	\$27,200.00	\$168,200.00	\$13,900.00	\$30,579.00	\$212,679.00
1028	1.2.1.10.1.1.1	Scientist	SLAC	ED&I	2	4 wks	\$0.00	\$0.00	\$13,600.00	\$13,600.00	\$2,720.00	\$4,080.00	\$20,400.00
		<i>SLAC Physicist -Scientist</i>		<i>ED&I</i>	0	4 wks	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1029	1.2.1.10.1.1.1	Scientist	SLAC	ED&I	2	4 wks	\$0.00	\$0.00	\$13,600.00	\$13,600.00	\$2,720.00	\$4,080.00	\$20,400.00
		<i>SLAC Physicist - Senior Scientist</i>		<i>ED&I</i>	0	4 wks	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1030	1.2.1.10.1.1.1	CW diode-pumped doubled Nd:YVO4 (eg. Model Millennia Xs-P)	SLAC	M&S	1	0 wks	\$0.00	(\$1,000.00)	\$0.00	(\$1,000.00)	(\$60.00)	(\$159.00)	(\$1,219.00)
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	104,000	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$104,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1031	1.2.1.10.1.1.2	Nd:YVO4 Service Contract	SLAC	M&S	1	0 wks	\$0.00	\$13,000.00	\$0.00	\$13,000.00	\$780.00	\$2,067.00	\$15,847.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	13,000	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1032	1.2.1.10.1.1.3	CW mode locked Ti:S Oscillator,1.4W (eg. Model 3960-X1M)	SLAC	M&S	1	0 wks	\$0.00	\$98,000.00	\$0.00	\$98,000.00	\$5,880.00	\$15,582.00	\$119,462.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	98,000	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$98,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1033	1.2.1.10.1.1.4	Ti:S Oscillator Service Contract	SLAC	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$318.00	\$2,438.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	2,000	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1034	1.2.1.10.1.1.5	Oscillator synchronization option (eg. C-Option)	SLAC	M&S	1	0 wks	\$0.00	\$29,000.00	\$0.00	\$29,000.00	\$1,740.00	\$4,611.00	\$35,351.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	29,000	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$29,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1035	1.2.1.10.1.2	Oscillator Diagnostics	SLAC		0	8 wks	\$0.00	\$229,000.00	\$27,200.00	\$256,200.00	\$19,180.00	\$45,843.00	\$321,223.00
1036	1.2.1.10.1.2.1	Scientist	SLAC	ED&I	2	4 wks	\$0.00	\$0.00	\$13,600.00	\$13,600.00	\$2,720.00	\$4,080.00	\$20,400.00
		<i>SLAC Physicist -Scientist</i>		<i>ED&I</i>	0	4 wks	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1037	1.2.1.10.1.2.1	Scientist	SLAC	ED&I	2	4 wks	\$0.00	\$0.00	\$13,600.00	\$13,600.00	\$2,720.00	\$4,080.00	\$20,400.00
		<i>SLAC Physicist - Senior Scientist</i>		<i>ED&I</i>	0	4 wks	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1038	1.2.1.10.1.2.1	Autocorrelators (scanning)	SLAC	M&S	1	0 wks	\$0.00	\$19,000.00	\$0.00	\$19,000.00	\$1,140.00	\$3,021.00	\$23,161.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	19,000	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$19,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1039	1.2.1.10.1.2.2	IR wavelength monitors (spectrometers)	SLAC	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$1,325.00	\$6,625.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	5,000	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1040	1.2.1.10.1.2.3	CCD camera	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	2,000	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1041	1.2.1.10.1.2.4	Power/energy meter (2 channel)	SLAC	M&S	1	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$480.00	\$1,272.00	\$9,752.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	8,000	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1042	1.2.1.10.1.2.5	Power /energy sensor , 10W	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	1,000	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1043	1.2.1.10.1.2.6	Power /energy sensor , 2W	SLAC	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$318.00	\$2,438.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	2,000	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1044	1.2.1.10.1.2.7	>12 GHz photodiodes	SLAC	M&S	1	0 wks	\$0.00	\$14,000.00	\$0.00	\$14,000.00	\$840.00	\$2,226.00	\$17,066.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>14,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$14,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1045	1.2.1.10.1.2.8	20-50GHz, 4 channel scope	SLAC	M&S	1	0 wks	\$0.00	\$70,000.00	\$0.00	\$70,000.00	\$4,200.00	\$11,130.00	\$85,330.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>70,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$70,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1046	1.2.1.10.1.2.9	1-ns risetime diodes	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1047	2.1.10.1.2.10	IR FROG	SLAC	M&S	1	0 wks	\$0.00	\$21,000.00	\$0.00	\$21,000.00	\$1,260.00	\$3,339.00	\$25,599.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>21,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$21,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1048	2.1.10.1.2.11	Fiber-coupled spectrometer (vis-ir)	SLAC	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$795.00	\$3,975.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1049	2.1.10.1.2.12	Planar mirrors/splitters	SLAC	M&S	1	0 wks	\$0.00	\$11,000.00	\$0.00	\$11,000.00	\$660.00	\$1,749.00	\$13,409.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>11,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1050	2.1.10.1.2.13	Mirror mounts	SLAC	M&S	1	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$477.00	\$3,657.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1051	2.1.10.1.2.14	Pop-in mounts (rotary)	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1052	2.1.10.1.2.15	Alignment irises on posts	SLAC	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$318.00	\$2,438.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1053	2.1.10.1.2.16	post collars	SLAC	M&S	1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1054	2.1.10.1.2.17	Beam profiler system (includes ir,vis,uv cameras + PC)	SLAC	M&S	1	0 wks	\$0.00	\$60,000.00	\$0.00	\$60,000.00	\$3,600.00	\$9,540.00	\$73,140.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>60,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$60,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1055	2.1.10.1.2.18	Posts	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1056	2.1.10.1.2.19	Posts Holders	SLAC	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$318.00	\$2,438.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1057	2.1.10.1.2.20	Post Holder Bases	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1058	2.1.10.1.2.21	beam dumps	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1059	1.2.1.10.1.3	Temporal Pulse Shaper	SLAC		2	21.4 wks	\$0.00	\$38,200.00	\$72,199.52	\$110,399.52	\$16,731.90	\$29,556.86	\$156,688.28
1060	1.2.1.10.1.3.1	Scientist	SLAC	ED&I	2	12 wks	\$0.00	\$0.00	\$40,800.00	\$40,800.00	\$8,160.00	\$12,240.00	\$61,200.00
		<i>SLAC Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>12 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$40,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1061	1.2.1.10.1.3.1	Scientist	SLAC	ED&I	2	9 wks	\$0.00	\$0.00	\$30,600.00	\$30,600.00	\$6,120.00	\$9,180.00	\$45,900.00
		<i>SLAC Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>9 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$30,600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1062	1.2.1.10.1.3.1	Gratings, 1x2 in, 1700 li/mm, 780 nm	SLAC	M&S	2	0 wks	\$0.00	\$12,000.00	\$0.00	\$12,000.00	\$720.00	\$3,180.00	\$15,900.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>12,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1063	1.2.1.10.1.3.2	Grating mounts, tip,tilt,azim knobs	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1064	1.2.1.10.1.3.3	Lenses,D=2 in f=0.5m,coated, 780nm	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1065	1.2.1.10.1.3.4	2 inch lens mounts	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1066	1.2.1.10.1.3.5	Mask mounts	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1067	1.2.1.10.1.3.6	Spatial light modulators for amplitude	SLAC	M&S	1	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$420.00	\$1,113.00	\$8,533.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>7,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1068	1.2.1.10.1.3.7	Spatial light modulators for phase	SLAC	M&S	1	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$420.00	\$1,113.00	\$8,533.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>7,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1069	1.2.1.10.1.3.8	Spatial modulator controllers	SLAC	M&S	1	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$420.00	\$1,113.00	\$8,533.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>7,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1070	1.2.1.10.1.3.9	PC with GPIB and interface to SCP	SLAC	M&S	2	0 wks	\$0.00	\$200.00	\$0.00	\$200.00	\$12.00	\$53.00	\$265.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>200</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1071	2.1.10.1.3.10	beam covers	SLAC	B&H	2	0.4 wks	\$0.00	\$0.00	\$799.52	\$799.52	\$159.90	\$239.86	\$1,199.28
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$799.52</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1072	1.2.1.10.1.4	Dump Support Machining	SLAC		0	4.9 wks	\$0.00	\$217,000.00	\$16,099.52	\$233,099.52	\$16,239.90	\$60,542.91	\$309,882.34
1073	1.2.1.10.1.4.1	Dump Support Assembly	SLAC	ED&I	2	2.5 wks	\$0.00	\$0.00	\$8,500.00	\$8,500.00	\$1,700.00	\$2,550.00	\$12,750.00
		<i>SLAC Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>2.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,500.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1074	1.2.1.10.1.4.1	Scientist	SLAC	ED&I	2	2 wks	\$0.00	\$0.00	\$6,800.00	\$6,800.00	\$1,360.00	\$2,040.00	\$10,200.00
		<i>SLAC Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1075	1.2.1.10.1.4.1	Gratings, 1x2 in, 1700 li/mm, 780 nm	SLAC	M&S	1	0 wks	\$0.00	\$12,000.00	\$0.00	\$12,000.00	\$720.00	\$1,908.00	\$14,628.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>12,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1076	1.2.1.10.1.4.2	Grating mounts, tip,tilt,azim knobs	SLAC	M&S	2	0 wks	\$0.00	\$200,000.00	\$0.00	\$200,000.00	\$12,000.00	\$53,000.00	\$265,000.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>200,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$200,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1077	1.2.1.10.1.4.3	Lenses,D=2 in f=0.5m,coated, 780nm	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1078	1.2.1.10.1.4.4	2 inch lens mounts	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1079	1.2.1.10.1.4.5	Prisms, 2x2 in, coated, 780nm	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1080	1.2.1.10.1.4.6	Prism mount with tip,tilt	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1081	1.2.1.10.1.4.7	Translation stages with micrometer	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1082	1.2.1.10.1.4.8	beam covers	SLAC	B&H	1	0.4 wks	\$0.00	\$0.00	\$799.52	\$799.52	\$159.90	\$143.91	\$1,103.34
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$799.52</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1083	1.2.1.10.1.5	Pockels Cells and Drivers (ir)			0	15.65 wks	\$0.00	\$27,002.00	\$52,649.52	\$79,651.52	\$12,150.02	\$20,300.17	\$112,101.72
1084	1.2.1.10.1.5.1	Senior Physicist	SLAC	ED&I	2	7 wks	\$0.00	\$0.00	\$23,800.00	\$23,800.00	\$4,760.00	\$7,140.00	\$35,700.00
		<i>SLAC Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>7 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$23,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1085	1.2.1.10.1.5.1	Physicist	SLAC	ED&I	2	8.25 wks	\$0.00	\$0.00	\$28,050.00	\$28,050.00	\$5,610.00	\$8,415.00	\$42,075.00
		<i>SLAC Physicist - Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>8.25 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$28,050.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1086	1.2.1.10.1.5.1	Pockels cells, 8mm, sol-gel@780nm	SLAC	M&S	1	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$477.00	\$3,657.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1087	1.2.1.10.1.5.2	Tilt mounts for pockels cells	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1088	1.2.1.10.1.5.3	V-block clamps for pockels cells	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1089	1.2.1.10.1.5.4	6.5 kV pulsers, full off-on-off in <12ns	SLAC	M&S	1	0 wks	\$0.00	\$20,000.00	\$0.00	\$20,000.00	\$1,200.00	\$3,180.00	\$24,380.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>20,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$20,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1090	1.2.1.10.1.5.5	Polarizers, coated for 780 nm (cubes)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1091	1.2.1.10.1.5.6	Polarizer mounts	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1092	1.2.1.10.1.5.7	post collars	SLAC	M&S	1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1093	1.2.1.10.1.5.8	posts	SLAC	M&S	1	0 wks	\$0.00	\$1.00	\$0.00	\$1.00	\$0.06	\$0.16	\$1.22
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1094	1.2.1.10.1.5.9	post holders	SLAC	M&S	1	0 wks	\$0.00	\$1.00	\$0.00	\$1.00	\$0.06	\$0.16	\$1.22
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1095	2.1.10.1.5.10	post holder bases	SLAC	M&S	1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1096	2.1.10.1.5.11	beam covers	SLAC	B&H	2	0.4 wks	\$0.00	\$0.00	\$799.52	\$799.52	\$159.90	\$239.86	\$1,199.28
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$799.52</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1097	1.2.1.10.1.6	Pump Laser System	SLAC		0	22.8 wks	\$0.00	\$358,000.00	\$77,360.00	\$435,360.00	\$36,952.00	\$87,126.00	\$559,438.00
1098	1.2.1.10.1.6.1	Pump Laser System	SLAC	ED&I	2	11 wks	\$0.00	\$0.00	\$37,400.00	\$37,400.00	\$7,480.00	\$11,220.00	\$56,100.00
		<i>SLAC Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>11 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$37,400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
1099	1.2.1.10.1.6.1	Pump Laser System	SLAC	ED&I	2	11 wks	\$0.00	\$0.00	\$37,400.00	\$37,400.00	\$7,480.00	\$11,220.00	\$56,100.00
		SLAC Physicist -Scientist		ED&I	0	11 wks	\$0.00	\$0.00	\$0.00	\$37,400.00	\$0.00	\$0.00	\$0.00
1100	1.2.1.10.1.6.1	Q-switched Nd:YAG, 532nm, 60HZ, 200mJ	SLAC	M&S	1	0 wks	\$0.00	\$238,000.00	\$0.00	\$238,000.00	\$14,280.00	\$37,842.00	\$290,122.00
		SLAC M&S Total		M&S	0	238,000	\$0.00	\$0.00	\$0.00	\$238,000.00	\$0.00	\$0.00	\$0.00
1101	1.2.1.10.1.6.2	Nd:YAG Service Contract	SLAC	M&S	1	0 wks	\$0.00	\$16,000.00	\$0.00	\$16,000.00	\$960.00	\$2,544.00	\$19,504.00
		SLAC M&S Total		M&S	0	16,000	\$0.00	\$0.00	\$0.00	\$16,000.00	\$0.00	\$0.00	\$0.00
1102	1.2.1.10.1.6.3	Pockels cells(19mm) sol-gel @532nm	SLAC	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$795.00	\$3,975.00
		SLAC M&S Total		M&S	0	3,000	\$0.00	\$0.00	\$0.00	\$3,000.00	\$0.00	\$0.00	\$0.00
1103	1.2.1.10.1.6.4	Tilt mounts for pockels cells	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
1104	1.2.1.10.1.6.5	V-block clamps for pockels cells	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
1105	1.2.1.10.1.6.6	6.5 KV pulser	SLAC	M&S	2	0 wks	\$0.00	\$20,000.00	\$0.00	\$20,000.00	\$1,200.00	\$5,300.00	\$26,500.00
		SLAC M&S Total		M&S	0	20,000	\$0.00	\$0.00	\$0.00	\$20,000.00	\$0.00	\$0.00	\$0.00
1106	1.2.1.10.1.6.7	Pockels cell HV feedforward drivers	SLAC	M&S	2	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$600.00	\$2,650.00	\$13,250.00
		SLAC M&S Total		M&S	0	10,000	\$0.00	\$0.00	\$0.00	\$10,000.00	\$0.00	\$0.00	\$0.00
1107	1.2.1.10.1.6.8	PDU unit (80ns risetime, SCP interface)	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
1108	1.2.1.10.1.6.9	CAMAC controller	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
1109	2.1.10.1.6.10	Digital delay generators	SLAC	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$1,325.00	\$6,625.00
		SLAC M&S Total		M&S	0	5,000	\$0.00	\$0.00	\$0.00	\$5,000.00	\$0.00	\$0.00	\$0.00
1110	2.1.10.1.6.11	Polarizers, coated for 532 nm (cubes)	SLAC	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$795.00	\$3,975.00
		SLAC M&S Total		M&S	0	3,000	\$0.00	\$0.00	\$0.00	\$3,000.00	\$0.00	\$0.00	\$0.00
1111	2.1.10.1.6.12	Polarizer mounts	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
1112	2.1.10.1.6.13	Waveplates	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
1113	2.1.10.1.6.14	Waveplate mounts	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
1114	2.1.10.1.6.15	irises	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
1115	2.1.10.1.6.16	post collars	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
1116	2.1.10.1.6.17	posts	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1117	2.1.10.1.6.18	post holders	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1118	2.1.10.1.6.19	post holder bases	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1119	2.1.10.1.6.20	CCD camera	SLAC	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$795.00	\$3,975.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1120	2.1.10.1.6.21	planar mirrors/splitters	SLAC	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$1,060.00	\$5,300.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1121	2.1.10.1.6.22	mirror mounts	SLAC	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$795.00	\$3,975.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1122	2.1.10.1.6.23	diodes (1 nsec)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1123	2.1.10.1.6.24	6 GHz photodiodes	SLAC	M&S	1	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$600.00	\$1,590.00	\$12,190.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1124	2.1.10.1.6.25	power/energy sensors	SLAC	M&S	1	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$795.00	\$6,095.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1125	2.1.10.1.6.26	power/energy meters	SLAC	M&S	1	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$600.00	\$1,590.00	\$12,190.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1126	2.1.10.1.6.27	Faraday isolator	SLAC	M&S	1	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$420.00	\$1,113.00	\$8,533.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>7,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1127	2.1.10.1.6.28	isolator mount	SLAC	B&H	2	0.4 wks	\$0.00	\$0.00	\$1,280.00	\$1,280.00	\$256.00	\$384.00	\$1,920.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,280.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1128	2.1.10.1.6.29	Spherical lenses	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1129	2.1.10.1.6.30	lens mounts	SLAC	M&S	1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1130	2.1.10.1.6.31	beam dumps	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1131	2.1.10.1.6.32	Integrate&hold mods (peak detector)	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1132	2.1.10.1.6.33	beam covers	SLAC	B&H	2	0.4 wks	\$0.00	\$0.00	\$1,280.00	\$1,280.00	\$256.00	\$384.00	\$1,920.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,280.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1133	1.2.1.10.1.7	Low Power Pulse Compressor	SLAC		0	4.9 wks	\$0.00	\$13,000.00	\$16,580.00	\$29,580.00	\$4,096.00	\$8,419.00	\$42,095.00
1134	1.2.1.10.1.7.1	Scientist	SLAC	ED&I	2	2 wks	\$0.00	\$0.00	\$6,800.00	\$6,800.00	\$1,360.00	\$2,040.00	\$10,200.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1135	1.2.1.10.1.7.1	Scientist	SLAC	ED&I	2	2.5 wks	\$0.00	\$0.00	\$8,500.00	\$8,500.00	\$1,700.00	\$2,550.00	\$12,750.00
		<i>SLAC Physicist - Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>2.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,500.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1136	1.2.1.10.1.7.1	Gratings, 1x2 in, 1700 l/mm, 780nm	SLAC	M&S	2	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$480.00	\$2,120.00	\$10,600.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1137	1.2.1.10.1.7.2	Grating mounts with tip/tilt/azim knobs	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1138	1.2.1.10.1.7.3	Prisms, 2x2 in, coated 780 nm	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1139	1.2.1.10.1.7.4	Prism mounts with tip/tilt	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1140	1.2.1.10.1.7.5	Translation stage with micrometer	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1141	1.2.1.10.1.7.6	Optical rail (12 inch)	SLAC	M&S	1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1142	1.2.1.10.1.7.7	beam cover	SLAC	B&H	2	0.4 wks	\$0.00	\$0.00	\$1,280.00	\$1,280.00	\$256.00	\$384.00	\$1,920.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,280.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1143	1.2.1.10.1.8	Timing Stabilization	SLAC		0	8 wks	\$0.00	\$195,000.00	\$27,200.00	\$222,200.00	\$17,140.00	\$54,429.00	\$293,769.00
1144	1.2.1.10.1.8.1	Scientist	SLAC	ED&I	2	6 wks	\$0.00	\$0.00	\$20,400.00	\$20,400.00	\$4,080.00	\$6,120.00	\$30,600.00
		<i>SLAC Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$20,400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1145	1.2.1.10.1.8.1	Scientist	SLAC	ED&I	2	2 wks	\$0.00	\$0.00	\$6,800.00	\$6,800.00	\$1,360.00	\$2,040.00	\$10,200.00
		<i>SLAC Physicist - Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1146	1.2.1.10.1.8.1	Fiber optic link	SLAC	M&S	2	0 wks	\$0.00	\$20,000.00	\$0.00	\$20,000.00	\$1,200.00	\$5,300.00	\$26,500.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>20,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$20,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1147	1.2.1.10.1.8.2	20 GHz photodiode	SLAC	M&S	1	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$420.00	\$1,113.00	\$8,533.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>7,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1148	1.2.1.10.1.8.3	Low Pass & Band Pass filters	SLAC	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$1,060.00	\$5,300.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1149	1.2.1.10.1.8.4	RF amplifier	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1150	1.2.1.10.1.8.5	Isolator	SLAC	M&S	2	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$600.00	\$2,650.00	\$13,250.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1151	1.2.1.10.1.8.6	Phase shifter	SLAC	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$1,060.00	\$5,300.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1152	1.2.1.10.1.8.7	Double-balanced mixer	SLAC	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$1,060.00	\$5,300.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1153	1.2.1.10.1.8.8	DC amp, 200V	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1154	1.2.1.10.1.8.9	DC amp, 10V	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1155	2.1.10.1.8.10	20 GHz sampling scope	SLAC	M&S	1	0 wks	\$0.00	\$44,000.00	\$0.00	\$44,000.00	\$2,640.00	\$6,996.00	\$53,636.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>44,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$44,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1156	2.1.10.1.8.11	DC-3GHz spectrum analyzer	SLAC	M&S	2	0 wks	\$0.00	\$50,000.00	\$0.00	\$50,000.00	\$3,000.00	\$13,250.00	\$66,250.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>50,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$50,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1157	2.1.10.1.8.12	Computer interface	SLAC	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$795.00	\$3,975.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1158	2.1.10.1.8.13	Prism on computer controlled stage	SLAC	M&S	2	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$420.00	\$1,855.00	\$9,275.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>7,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1159	2.1.10.1.8.14	Integrated electro-optic module	SLAC	M&S	2	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$420.00	\$1,855.00	\$9,275.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>7,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1160	2.1.10.1.8.15	Planar mirrors / splitters	SLAC	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$1,590.00	\$7,950.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1161	2.1.10.1.8.16	BPM or res. Cavity	SLAC	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$1,325.00	\$6,625.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1162	2.1.10.1.8.17	S/H meas. Module	SLAC	M&S	2	0 wks	\$0.00	\$20,000.00	\$0.00	\$20,000.00	\$1,200.00	\$5,300.00	\$26,500.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>20,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$20,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1163	1.2.1.10.1.9	Laser Amplifiers	SLAC		0	51.9 wks	\$0.00	\$78,000.00	\$174,730.00	\$252,730.00	\$39,626.00	\$70,333.00	\$362,689.00
1164	1.2.1.10.1.9.1	Scientist	SLAC	ED&I	2	28 wks	\$0.00	\$0.00	\$95,200.00	\$95,200.00	\$19,040.00	\$28,560.00	\$142,800.00
		<i>SLAC Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>28 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$95,200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1165	1.2.1.10.1.9.1	Scientist	SLAC	ED&I	2	22 wks	\$0.00	\$0.00	\$74,800.00	\$74,800.00	\$14,960.00	\$22,440.00	\$112,200.00
		<i>SLAC Physicist - Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>22 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$74,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1166	1.2.1.10.1.9.1	Ti-Sapphire crystals	SLAC	M&S	2	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$480.00	\$2,120.00	\$10,600.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1167	1.2.1.10.1.9.2	Hor crystal mounts with water cooling	SLAC	ED&I	2	1.5 wks	\$0.00	\$0.00	\$3,450.00	\$3,450.00	\$690.00	\$1,035.00	\$5,175.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,450.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1168	1.2.1.10.1.9.3	Planar mirrors/splitters	SLAC	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$1,590.00	\$7,950.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1169	1.2.1.10.1.9.4	Mirror mounts	SLAC	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$1,060.00	\$5,300.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1170	1.2.1.10.1.9.5	Spherical lenses, f = 1m, coated	SLAC	M&S	2	0 wks	\$0.00	\$23,000.00	\$0.00	\$23,000.00	\$1,380.00	\$6,095.00	\$30,475.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>23,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$23,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1171	1.2.1.10.1.9.6	Lens mounts	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1172	1.2.1.10.1.9.7	Pinholes	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1173	1.2.1.10.1.9.8	Pinhole mounts (with xy translation)	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1174	1.2.1.10.1.9.9	Alignment irises (on posts)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1175	2.1.10.1.9.10	post collars	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1176	2.1.10.1.9.11	Posts	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1177	2.1.10.1.9.12	Post Holders	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1178	2.1.10.1.9.13	Post Holder Bases	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1179	2.1.10.1.9.14	CCD cameras	SLAC	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$1,325.00	\$6,625.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1180	2.1.10.1.9.15	Power/energy sensors	SLAC	M&S	1	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$954.00	\$7,314.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1181	2.1.10.1.9.16	Power/energy meters	SLAC	M&S	1	0 wks	\$0.00	\$13,000.00	\$0.00	\$13,000.00	\$780.00	\$2,067.00	\$15,847.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>13,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1182	2.1.10.1.9.17	Half waveplates	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1183	2.1.10.1.9.18	waveplate mounts	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1184	2.1.10.1.9.19	Polarizing cube	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1185	2.1.10.1.9.20	polarizer cube mount	SLAC	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1186	2.1.10.1.9.21	beam dumps	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1187	2.1.10.1.9.22	beam covers	SLAC	B&H	2	0.4 wks	\$0.00	\$0.00	\$1,280.00	\$1,280.00	\$256.00	\$384.00	\$1,920.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,280.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
1188	1.2.1.10.1.10	Amplifier Diagnostics	SLAC		0	15.25 wks	\$0.00	\$89,000.00	\$51,850.00	\$140,850.00	\$15,710.00	\$35,006.00	\$191,566.00
1189	2.1.10.1.10.1	Scientist	SLAC	ED&I	2	8.25 wks	\$0.00	\$0.00	\$28,050.00	\$28,050.00	\$5,610.00	\$8,415.00	\$42,075.00
		<i>SLAC Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>8.25 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$28,050.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1190	2.1.10.1.10.1	Scientist	SLAC	ED&I	2	7 wks	\$0.00	\$0.00	\$23,800.00	\$23,800.00	\$4,760.00	\$7,140.00	\$35,700.00
		<i>SLAC Physicist - Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>7 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$23,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1191	2.1.10.1.10.1	Power/energy meters (2 channel)	SLAC	M&S	1	0 wks	\$0.00	\$13,000.00	\$0.00	\$13,000.00	\$780.00	\$2,067.00	\$15,847.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>13,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1192	2.1.10.1.10.2	Power/energy sensors	SLAC	M&S	1	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$954.00	\$7,314.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1193	2.1.10.1.10.3	ND Filter set	SLAC	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$1,590.00	\$7,950.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1194	2.1.10.1.10.4	532 nm filter	SLAC	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1195	2.1.10.1.10.5	780 nm filter	SLAC	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1196	2.1.10.1.10.6	Filter/attenuator holders	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1197	2.1.10.1.10.7	photodiodes (nsec)	SLAC	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$318.00	\$2,438.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1198	2.1.10.1.10.8	12 GHz photodiode	SLAC	M&S	1	0 wks	\$0.00	\$14,000.00	\$0.00	\$14,000.00	\$840.00	\$2,226.00	\$17,066.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>14,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$14,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1199	2.1.10.1.10.9	CCD cameras	SLAC	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$1,590.00	\$7,950.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1200	2.1.10.1.10.10	Frame grabber card for PC	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1201	2.1.10.1.10.11	Labview software	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1202	2.1.10.1.10.12	Beam analysis software	SLAC	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$795.00	\$3,975.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1203	2.1.10.1.10.13	planar mirrors/splitters	SLAC	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$1,325.00	\$6,625.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1204	2.1.10.1.10.14	mirror mounts	SLAC	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$795.00	\$3,975.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1205	2.1.10.1.10.15	FROG (ir)	SLAC	M&S	2	0 wks	\$0.00	\$21,000.00	\$0.00	\$21,000.00	\$1,260.00	\$5,565.00	\$27,825.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>21,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$21,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
1206	1.1.10.1.10.16	PC (FROG analyses)	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
1207	1.1.10.1.10.17	alignment irises	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
1208	1.1.10.1.10.18	post collars	SLAC	M&S	1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		SLAC M&S Total		M&S	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1209	1.1.10.1.10.19	posts	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
1210	1.1.10.1.10.20	post holders	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
1211	1.1.10.1.10.21	post holder bases	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
1212	1.2.1.10.1.11	Vacuum Spatial Filters	SLAC		0	4.9 wks	\$0.00	\$0.00	\$16,580.00	\$16,580.00	\$3,316.00	\$4,974.00	\$24,870.00
1213	2.1.10.1.11.1	Scientist	SLAC	ED&I	2	2 wks	\$0.00	\$0.00	\$6,800.00	\$6,800.00	\$1,360.00	\$2,040.00	\$10,200.00
		SLAC Physicist - Senior Scientist		ED&I	0	2 wks	\$0.00	\$0.00	\$0.00	\$6,800.00	\$0.00	\$0.00	\$0.00
1214	2.1.10.1.11.1	Scientist	SLAC	ED&I	2	2.5 wks	\$0.00	\$0.00	\$8,500.00	\$8,500.00	\$1,700.00	\$2,550.00	\$12,750.00
		SLAC Physicist - Senior Scientist		ED&I	0	2.5 wks	\$0.00	\$0.00	\$0.00	\$8,500.00	\$0.00	\$0.00	\$0.00
1215	2.1.10.1.11.1	Lenses, f - 0.5 m, AR coated	SLAC	M&S	1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		SLAC M&S Total		M&S	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1216	2.1.10.1.11.2	Vacuum tubing, 1.5" dia, 16", flanged (includes pinhole viewport)	SLAC	M&S	1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		SLAC M&S Total		M&S	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1217	2.1.10.1.11.3	Vacuum welded bellows	SLAC	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		SLAC M&S Total		M&S	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1218	2.1.10.1.11.4	Diamond pinholes, mounted	SLAC	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		SLAC M&S Total		M&S	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1219	2.1.10.1.11.5	xyz mounts, 1 in travel	SLAC	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		SLAC M&S Total		M&S	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1220	2.1.10.1.11.6	Diode vacuum pumps 8 l/s	SLAC	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		SLAC M&S Total		M&S	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1221	2.1.10.1.11.7	Ion-pump controller and cable	SLAC	M&S	1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		SLAC M&S Total		M&S	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1222	2.1.10.1.11.8	Rack-mount, setpoint display, pumps	SLAC	M&S	1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		SLAC M&S Total		M&S	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1223	2.1.10.1.11.9	Turbo roughing and support pump	SLAC	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		SLAC M&S Total		M&S	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
1224	1.1.10.1.11.10	Misc vacuum hardware	SLAC	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1225	1.1.10.1.11.11	Vacuum windows (AR coated for 780 nm)	SLAC	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1226	1.1.10.1.11.12	lens mounts	SLAC	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1227	1.1.10.1.11.13	beam covers	SLAC	B&H	2	0.4 wks	\$0.00	\$0.00	\$1,280.00	\$1,280.00	\$256.00	\$384.00	\$1,920.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,280.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1228	1.2.1.10.1.12	Transverse Mode Flattener	SLAC		0	3 wks	\$0.00	\$5,000.00	\$10,200.00	\$15,200.00	\$2,340.00	\$4,385.00	\$21,925.00
1229	2.1.10.1.12.1	Scientist	SLAC	ED&I	2	1.5 wks	\$0.00	\$0.00	\$5,100.00	\$5,100.00	\$1,020.00	\$1,530.00	\$7,650.00
		<i>SLAC Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>1.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,100.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1230	2.1.10.1.12.1	Scientist	SLAC	ED&I	2	1.5 wks	\$0.00	\$0.00	\$5,100.00	\$5,100.00	\$1,020.00	\$1,530.00	\$7,650.00
		<i>SLAC Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>1.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,100.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1231	2.1.10.1.12.1	Lenses	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1232	2.1.10.1.12.2	Lens mounts	SLAC	M&S	1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1233	2.1.10.1.12.3	profile flattener	SLAC	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$795.00	\$3,975.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1234	2.1.10.1.12.4	Flattener mount	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1235	2.1.10.1.12.5	alignment irises	SLAC	M&S	1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1236	2.1.10.1.12.6	post collars	SLAC	M&S	1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1237	2.1.10.1.12.7	Posts	SLAC	M&S	1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1238	2.1.10.1.12.8	Post Holders	SLAC	M&S	1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1239	2.1.10.1.12.9	Post Holder Bases	SLAC	M&S	1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1240	1.2.1.10.1.13	High Power Pulse Compressor	SLAC		0	6.4 wks	\$0.00	\$0.00	\$20,400.00	\$20,400.00	\$4,080.00	\$6,120.00	\$30,600.00
1241	2.1.10.1.13.1	Scientist	SLAC	ED&I	2	3 wks	\$0.00	\$0.00	\$10,200.00	\$10,200.00	\$2,040.00	\$3,060.00	\$15,300.00
		<i>SLAC Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1242	2.1.10.1.13.1	Scientist	SLAC	ED&I	2	3 wks	\$0.00	\$0.00	\$10,200.00	\$10,200.00	\$2,040.00	\$3,060.00	\$15,300.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC Physicist -Scientist</i>		<i>ED&I</i>	0	3 wks	\$0.00	\$0.00	\$0.00	\$10,200.00	\$0.00	\$0.00	\$0.00
1243	2.1.10.1.13.1	Gratings, 2x4 in, 1700 l/mm, 780 nm	SLAC	M&S	1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1244	2.1.10.1.13.2	Grating mounts with tip/tilt/azim knobs	SLAC	M&S	1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1245	2.1.10.1.13.3	Prisms, 3x3 in, coated 780 nm	SLAC	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1246	2.1.10.1.13.4	Prism mounts with tip/tilt	SLAC	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1247	2.1.10.1.13.5	Translation stages with micrometer	SLAC	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1248	2.1.10.1.13.6	Optical rail (24 inch)	SLAC	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1249	2.1.10.1.13.7	planar mirrors/splitters	SLAC	M&S	1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1250	2.1.10.1.13.8	mirror mounts	SLAC	M&S	1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1251	2.1.10.1.13.9	alignment irises	SLAC	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1252	2.1.10.1.13.10	post collars	SLAC	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1253	2.1.10.1.13.11	Posts	SLAC	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1254	2.1.10.1.13.12	Post Holders	SLAC	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1255	2.1.10.1.13.13	Post Holder Bases	SLAC	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1256	2.1.10.1.13.14	beam covers	SLAC		2	0.4 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1257	1.2.1.10.1.14	Frequency Conversion	SLAC		0	31.15 wks	\$0.00	\$115,300.00	\$105,680.00	\$220,980.00	\$28,054.00	\$58,770.50	\$307,804.50
1258	2.1.10.1.14.1	Scientist	SLAC	ED&I	2	18 wks	\$0.00	\$0.00	\$61,200.00	\$61,200.00	\$12,240.00	\$18,360.00	\$91,800.00
		<i>SLAC Physicist - Senior Scientist</i>		<i>ED&I</i>	0	18 wks	\$0.00	\$0.00	\$0.00	\$61,200.00	\$0.00	\$0.00	\$0.00
1259	2.1.10.1.14.1	Scientist	SLAC	ED&I	2	12 wks	\$0.00	\$0.00	\$40,800.00	\$40,800.00	\$8,160.00	\$12,240.00	\$61,200.00
		<i>SLAC Physicist -Scientist</i>		<i>ED&I</i>	0	12 wks	\$0.00	\$0.00	\$0.00	\$40,800.00	\$0.00	\$0.00	\$0.00
1260	2.1.10.1.14.1	Frequency doubling crystal	SLAC	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$1,590.00	\$7,950.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	6,000	\$0.00	\$0.00	\$0.00	\$6,000.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
1261	2.1.10.1.14.2	Frequency tripling crystal	SLAC	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$1,590.00	\$7,950.00
		SLAC M&S Total		M&S	0	6,000	\$0.00	\$0.00	\$0.00	\$6,000.00	\$0.00	\$0.00	\$0.00
1262	2.1.10.1.14.3	Crystal Mounts (tip/tilt/rotation)	SLAC	B&H	2	0.5 wks	\$0.00	\$0.00	\$1,600.00	\$1,600.00	\$320.00	\$480.00	\$2,400.00
		SLAC Mech. Fab: Machine Shop		B&H	0	0.5 wks	\$0.00	\$0.00	\$0.00	\$1,600.00	\$0.00	\$0.00	\$0.00
1263	2.1.10.1.14.4	crystal shroud & temp control	SLAC	B&H	1	0.25 wks	\$0.00	\$0.00	\$800.00	\$800.00	\$160.00	\$144.00	\$1,104.00
		SLAC Mech. Fab: Machine Shop		B&H	0	0.25 wks	\$0.00	\$0.00	\$0.00	\$800.00	\$0.00	\$0.00	\$0.00
1264	2.1.10.1.14.5	power/energy sensor	SLAC	M&S	1	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$420.00	\$1,113.00	\$8,533.00
		SLAC M&S Total		M&S	0	7,000	\$0.00	\$0.00	\$0.00	\$7,000.00	\$0.00	\$0.00	\$0.00
1265	2.1.10.1.14.6	power/energy meter (2 channel)	SLAC	M&S	1	0 wks	\$0.00	\$17,000.00	\$0.00	\$17,000.00	\$1,020.00	\$2,703.00	\$20,723.00
		SLAC M&S Total		M&S	0	17,000	\$0.00	\$0.00	\$0.00	\$17,000.00	\$0.00	\$0.00	\$0.00
1266	2.1.10.1.14.7	pinhole	SLAC	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		SLAC M&S Total		M&S	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1267	2.1.10.1.14.8	dichroic splitters	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
1268	2.1.10.1.14.9	Color filters - 780nm,390nm,260nm	SLAC	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		SLAC M&S Total		M&S	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1269	2.1.10.1.14.10	Filter holders	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
1270	2.1.10.1.14.11	Streak camera (uv)	SLAC	M&S	2	0 wks	\$0.00	\$300.00	\$0.00	\$300.00	\$18.00	\$79.50	\$397.50
		SLAC M&S Total		M&S	0	300	\$0.00	\$0.00	\$0.00	\$300.00	\$0.00	\$0.00	\$0.00
1271	2.1.10.1.14.12	Uv FROG	SLAC	M&S	2	0 wks	\$0.00	\$42,000.00	\$0.00	\$42,000.00	\$2,520.00	\$11,130.00	\$55,650.00
		SLAC M&S Total		M&S	0	42,000	\$0.00	\$0.00	\$0.00	\$42,000.00	\$0.00	\$0.00	\$0.00
1272	2.1.10.1.14.13	Reducer lenses	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
1273	2.1.10.1.14.14	Reducer rail	SLAC	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		SLAC M&S Total		M&S	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1274	2.1.10.1.14.15	Reducer lens mounts	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
1275	2.1.10.1.14.16	Planar mirrors/splitters	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
1276	2.1.10.1.14.17	Mirror mounts	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
1277	2.1.10.1.14.18	Half waveplate (uv)	SLAC	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$1,060.00	\$5,300.00
		SLAC M&S Total		M&S	0	4,000	\$0.00	\$0.00	\$0.00	\$4,000.00	\$0.00	\$0.00	\$0.00
1278	2.1.10.1.14.19	Half waveplate mount	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1279	1.1.10.1.14.20	Polarizing cube	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1280	1.1.10.1.14.21	Cube mount	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1281	1.1.10.1.14.22	CCD camera (vis & ir)	SLAC	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$1,325.00	\$6,625.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1282	1.1.10.1.14.23	CCD camera (uv)	SLAC	M&S	2	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$600.00	\$2,650.00	\$13,250.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1283	1.1.10.1.14.24	alignment irises	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1284	1.1.10.1.14.25	post collars	SLAC	M&S	1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1285	1.1.10.1.14.26	Posts	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1286	1.1.10.1.14.27	Post Holders	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1287	1.1.10.1.14.28	Post Holder Bases	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1288	1.1.10.1.14.29	beam dumps	SLAC	M&S	1	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$477.00	\$3,657.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1289	1.1.10.1.14.30	beam covers	SLAC	B&H	2	0.4 wks	\$0.00	\$0.00	\$1,280.00	\$1,280.00	\$256.00	\$384.00	\$1,920.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,280.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1290	1.2.1.10.1.15	Cross-Correlation Detectors (uv & ir) and ir Probe beam	SLAC		0	8.8 wks	\$0.00	\$38,000.00	\$29,920.00	\$67,920.00	\$8,264.00	\$18,410.00	\$94,594.00
1291	2.1.10.1.15.1	Scientist	SLAC	ED&I	2	4.8 wks	\$0.00	\$0.00	\$16,320.00	\$16,320.00	\$3,264.00	\$4,896.00	\$24,480.00
		<i>SLAC Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>4.8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$16,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1292	2.1.10.1.15.1	Scientist	SLAC	ED&I	2	4 wks	\$0.00	\$0.00	\$13,600.00	\$13,600.00	\$2,720.00	\$4,080.00	\$20,400.00
		<i>SLAC Physicist - Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1293	2.1.10.1.15.1	Kerr target	SLAC	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$1,060.00	\$5,300.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1294	2.1.10.1.15.2	Kerr target mount	SLAC	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1295	2.1.10.1.15.3	Polarizers coated (uv)	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1296	2.1.10.1.15.4	Polarizer mounts	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1297	2.1.10.1.15.5	Photodiode array, electronics board &P	SLAC	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$1,060.00	\$5,300.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1298	2.1.10.1.15.6	100 MHz oscilloscope	SLAC	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$1,590.00	\$7,950.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1299	2.1.10.1.15.7	Translation stage with micrometer	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1300	2.1.10.1.15.8	Planar mirrors/splitters	SLAC	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$1,590.00	\$7,950.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1301	2.1.10.1.15.9	Mirror mounts	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1302	2.1.10.1.15.10	Half waveplate	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1303	2.1.10.1.15.11	Waveplate mount	SLAC	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1304	2.1.10.1.15.12	Alignment irises on posts	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1305	2.1.10.1.15.13	Cylindrical lenses	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1306	2.1.10.1.15.14	Cylindrical lens mounts	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1307	2.1.10.1.15.15	Spherical lenses	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1308	2.1.10.1.15.16	Spherical lens mounts	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1309	2.1.10.1.15.17	post collars	SLAC	M&S	1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1310	2.1.10.1.15.18	Posts	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1311	2.1.10.1.15.19	Post Holders	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1312	2.1.10.1.15.20	Post Holder Bases	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1313	2.1.10.1.15.21	diodes (nsec)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
1314	1.2.1.10.1.16	Optical Transport	SLAC		0	4.2 wks	\$0.00	\$47,000.00	\$14,280.00	\$61,280.00	\$5,676.00	\$15,785.00	\$82,741.00
1315	2.1.10.1.16.1	Scientist	SLAC	ED&I	2	0.2 wks	\$0.00	\$0.00	\$680.00	\$680.00	\$136.00	\$204.00	\$1,020.00
		<i>SLAC Physicist - Senior Scientist</i>		<i>ED&I</i>	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$680.00	\$0.00	\$0.00	\$0.00
1316	2.1.10.1.16.1	Scientist	SLAC	ED&I	2	4 wks	\$0.00	\$0.00	\$13,600.00	\$13,600.00	\$2,720.00	\$4,080.00	\$20,400.00
		<i>SLAC Physicist -Scientist</i>		<i>ED&I</i>	0	4 wks	\$0.00	\$0.00	\$0.00	\$13,600.00	\$0.00	\$0.00	\$0.00
1317	2.1.10.1.16.1	Spherical Lenses (uv)	SLAC	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$318.00	\$2,438.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
1318	2.1.10.1.16.2	Transport tube windows	SLAC	M&S	1	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$477.00	\$3,657.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	3,000	\$0.00	\$0.00	\$0.00	\$3,000.00	\$0.00	\$0.00	\$0.00
1319	2.1.10.1.16.3	Diode vacuum pump	SLAC	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$1,590.00	\$7,950.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	6,000	\$0.00	\$0.00	\$0.00	\$6,000.00	\$0.00	\$0.00	\$0.00
1320	2.1.10.1.16.4	Ion pump controller and cable	SLAC	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$1,590.00	\$7,950.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	6,000	\$0.00	\$0.00	\$0.00	\$6,000.00	\$0.00	\$0.00	\$0.00
1321	2.1.10.1.16.5	Misc vacuum hardware	SLAC	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1322	2.1.10.1.16.6	Drilling penetration	SLAC	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1323	2.1.10.1.16.7	Installation of transport tube	SLAC	M&S	1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1324	2.1.10.1.16.8	Spherical lenses - (green)	SLAC	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$318.00	\$2,438.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
1325	2.1.10.1.16.9	Spherical lenses (ir)	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
1326	2.1.10.1.16.10	Spherical lens mounts	SLAC	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$795.00	\$3,975.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	3,000	\$0.00	\$0.00	\$0.00	\$3,000.00	\$0.00	\$0.00	\$0.00
1327	2.1.10.1.16.11	Planar mirrors/splitters	SLAC	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$1,325.00	\$6,625.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	5,000	\$0.00	\$0.00	\$0.00	\$5,000.00	\$0.00	\$0.00	\$0.00
1328	2.1.10.1.16.12	mirror mounts	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
1329	2.1.10.1.16.13	power/energy sensor	SLAC	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$1,060.00	\$5,300.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	4,000	\$0.00	\$0.00	\$0.00	\$4,000.00	\$0.00	\$0.00	\$0.00
1330	2.1.10.1.16.14	power/energy meter (2 ch)	SLAC	M&S	2	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$480.00	\$2,120.00	\$10,600.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	8,000	\$0.00	\$0.00	\$0.00	\$8,000.00	\$0.00	\$0.00	\$0.00
1331	2.1.10.1.16.15	Posts	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
1332	1.1.10.1.16.16	Post Holders	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
1333	1.1.10.1.16.17	Post Holder Bases	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
1334	1.1.10.1.16.18	alignment irises	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
1335	1.1.10.1.16.19	post collars	SLAC	M&S	1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		SLAC M&S Total		M&S	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1336			SLAC	M&S	0	0 wks	\$0.00	\$1.00	\$0.00	\$1.00	\$0.06	\$0.00	\$1.06
		SLAC M&S Total		M&S	0	1	\$0.00	\$0.00	\$0.00	\$1.00	\$0.00	\$0.00	\$0.00
1337			SLAC	M&S	0	0 wks	\$0.00	\$1.00	\$0.00	\$1.00	\$0.06	\$0.00	\$1.06
		SLAC M&S Total		M&S	0	1	\$0.00	\$0.00	\$0.00	\$1.00	\$0.00	\$0.00	\$0.00
1338	1.2.1.10.1.17	Imaging onto Photocathode	SLAC		0	9.2 wks	\$0.00	\$51,000.00	\$30,999.76	\$81,999.76	\$9,259.95	\$21,648.93	\$112,908.64
1339	2.1.10.1.17.1	Scientist	SLAC	ED&I	2	5 wks	\$0.00	\$0.00	\$17,000.00	\$17,000.00	\$3,400.00	\$5,100.00	\$25,500.00
		SLAC Physicist - Scientist		ED&I	0	5 wks	\$0.00	\$0.00	\$0.00	\$17,000.00	\$0.00	\$0.00	\$0.00
1340	2.1.10.1.17.1	Scientist	SLAC	ED&I	2	4 wks	\$0.00	\$0.00	\$13,600.00	\$13,600.00	\$2,720.00	\$4,080.00	\$20,400.00
		SLAC Physicist - Scientist		ED&I	0	4 wks	\$0.00	\$0.00	\$0.00	\$13,600.00	\$0.00	\$0.00	\$0.00
1341	2.1.10.1.17.1	Grating, 260 nm	SLAC	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$1,060.00	\$5,300.00
		SLAC M&S Total		M&S	0	4,000	\$0.00	\$0.00	\$0.00	\$4,000.00	\$0.00	\$0.00	\$0.00
1342	2.1.10.1.17.2	grating mount	SLAC	B&H	2	0.2 wks	\$0.00	\$0.00	\$399.76	\$399.76	\$79.95	\$119.93	\$599.64
		SLAC Mech. Fab: Assembly Tech		B&H	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$399.76	\$0.00	\$0.00	\$0.00
1343	2.1.10.1.17.2	grating mount	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
1344	2.1.10.1.17.3	Spherical Lenses	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
1345	2.1.10.1.17.4	spherical lens mount	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
1346	2.1.10.1.17.5	Planars mirrors/splitters	SLAC	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$1,590.00	\$7,950.00
		SLAC M&S Total		M&S	0	6,000	\$0.00	\$0.00	\$0.00	\$6,000.00	\$0.00	\$0.00	\$0.00
1347	2.1.10.1.17.6	Trimming aperture	SLAC	M&S	1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		SLAC M&S Total		M&S	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1348	2.1.10.1.17.7	Mirror mounts	SLAC	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$318.00	\$2,438.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
1349	2.1.10.1.17.8	Alignment irises on posts	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
1350	2.1.10.1.17.9	Cylindrical lens	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1351	1.1.10.1.17.10	Cylindrical lens mount	SLAC	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1352	1.1.10.1.17.11	CCD camera (uv)	SLAC	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$1,325.00	\$6,625.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1353	1.1.10.1.17.12	power/energy sensor	SLAC	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$318.00	\$2,438.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1354	1.1.10.1.17.13	power/energy meter (2 ch)	SLAC	M&S	1	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$636.00	\$4,876.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1355	1.1.10.1.17.14	Posts	SLAC	M&S	1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1356	1.1.10.1.17.15	Post Holders	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1357	1.1.10.1.17.16	Post Holder Bases	SLAC	M&S	1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1358	1.1.10.1.17.17	uv FROG	SLAC	M&S	2	0 wks	\$0.00	\$21,000.00	\$0.00	\$21,000.00	\$1,260.00	\$5,565.00	\$27,825.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>21,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$21,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1359	1.1.10.1.17.18	post collars	SLAC	M&S	1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1360	1.1.10.1.17.19	beam dumps	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1361	1.2.1.10.1.18	Laser Support Systems & Miscellaneous Items			0	0 wks	\$0.00	\$154,000.00	\$0.00	\$154,000.00	\$9,240.00	\$40,386.00	\$203,626.00
1362	2.1.10.1.18.1	Scientist	SLAC		2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1363	2.1.10.1.18.1	Scientist	SLAC		2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1364	2.1.10.1.18.1	Optical tables for clean room	SLAC	M&S	2	0 wks	\$0.00	\$42,000.00	\$0.00	\$42,000.00	\$2,520.00	\$11,130.00	\$55,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>42,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$42,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1365	2.1.10.1.18.2	Table enclosures	SLAC	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$1,325.00	\$6,625.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1366	2.1.10.1.18.3	Optical table next to the RF gun	SLAC	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$795.00	\$3,975.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1367	2.1.10.1.18.4	Support and enclosure for breadboard	SLAC	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$1,590.00	\$7,950.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1368	2.1.10.1.18.5	Racks and other furniture	SLAC	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$1,325.00	\$6,625.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
1369	2.1.10.1.18.6	Elevated instrumentation shelves (on optical tables)	SLAC	M&S	2	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$480.00	\$2,120.00	\$10,600.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1370	2.1.10.1.18.7	Vidmar cabinets (Stanley)	SLAC	M&S	2	0 wks	\$0.00	\$12,000.00	\$0.00	\$12,000.00	\$720.00	\$3,180.00	\$15,900.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>12,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1371	2.1.10.1.18.8	tool set and box	SLAC	M&S	2	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$600.00	\$2,650.00	\$13,250.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1372	2.1.10.1.18.9	ir viewers	SLAC	M&S	1	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$636.00	\$4,876.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1373	2.1.10.1.18.10	microscope (stereo)	SLAC	M&S	2	0 wks	\$0.00	\$38,000.00	\$0.00	\$38,000.00	\$2,280.00	\$10,070.00	\$50,350.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>38,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$38,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1374	2.1.10.1.18.11	ir sensor cards	SLAC	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$1,590.00	\$7,950.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1375	2.1.10.1.18.12	latex gloves & finger cots	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1376	2.1.10.1.18.13	microdusters	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1377	2.1.10.1.18.14	solvents	SLAC	M&S	2	0 wks	\$0.00	\$12,000.00	\$0.00	\$12,000.00	\$720.00	\$3,180.00	\$15,900.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>12,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1378	2.1.10.1.18.15	clean room attire (hats, smocks, booties)	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1379	2.1.10.1.18.16	uv diagnostic paper & lens tissue	SLAC	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1380	2.1.10.1.18.17	burn paper	SLAC	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1381	1.2.1.10.2	Alignment Laser			0	29 wks	\$0.00	\$65,000.00	\$91,995.20	\$156,995.20	\$22,299.04	\$0.00	\$179,294.24
1382	1.2.1.10.2.1	Alignment laser parts	SLAC	ED&I	0	25 wks	\$0.00	\$0.00	\$84,000.00	\$84,000.00	\$16,800.00	\$0.00	\$100,800.00
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>25 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$84,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1383	1.2.1.10.2.2	Alignment laser assembly	SLAC	B&H	0	4 wks	\$0.00	\$0.00	\$7,995.20	\$7,995.20	\$1,599.04	\$0.00	\$9,594.24
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,995.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1384	1.2.1.10.2.2	Alignment laser assembly	SLAC	M&S	0	0 wks	\$0.00	\$65,000.00	\$0.00	\$65,000.00	\$3,900.00	\$0.00	\$68,900.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>65,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$65,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1385	1.2.2	ACCELERATOR			0	3,735.96 wks	\$5,248,493.58	\$5,266,600.00	\$5,272,272.68	\$15,787,366.26	\$2,390,659.94	\$4,874,082.82	\$23,052,109.02
1386	1.2.2.1	PED			0	1,738.3 wks	\$5,248,493.58	\$0.00	\$0.00	\$5,248,493.58	\$1,020,158.16	\$1,953,582.01	\$8,222,233.74
1387	1.2.2.1.1	System Integration			0	588 wks	\$2,064,680.00	\$0.00	\$0.00	\$2,064,680.00	\$395,436.00	\$723,523.60	\$3,183,639.60
1388	1.2.2.1.1.4	Computer Equipment	SLAC	M&S	4	0 wks	\$25,000.00	\$0.00	\$0.00	\$25,000.00	\$1,500.00	\$13,250.00	\$39,750.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>25,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$25,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1389	1.2.2.1.1.4	Travel Budget	SLAC	M&S	4	0 wks	\$100,000.00	\$0.00	\$0.00	\$100,000.00	\$6,000.00	\$53,000.00	\$159,000.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>100,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$100,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1390	1.2.2.1.1.4	Physics	SLAC	ED&I	2	356 wks	\$1,210,400.00	\$0.00	\$0.00	\$1,210,400.00	\$242,080.00	\$363,120.00	\$1,815,600.00
		<i>SLAC Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>356 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,210,400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1391	1.2.2.1.1.4	Engineering	SLAC	ED&I	3	188 wks	\$628,080.00	\$0.00	\$0.00	\$628,080.00	\$125,616.00	\$263,793.60	\$1,017,489.60
		<i>S LAC Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>10 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$30,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>178 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$598,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1392	1.2.2.1.1.5	Drafting	SLAC	ED&I	2	44 wks	\$101,200.00	\$0.00	\$0.00	\$101,200.00	\$20,240.00	\$30,360.00	\$151,800.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>44 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$101,200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1393	1.2.2.1.2	Accelerator Control System			0	100.2 wks	\$261,764.80	\$0.00	\$0.00	\$261,764.80	\$52,352.96	\$157,058.88	\$471,176.64
1394	1.2.2.1.2.1	Hardware Engineer / System Integration	SLAC	ED&I	4	18.2 wks	\$54,600.00	\$0.00	\$0.00	\$54,600.00	\$10,920.00	\$32,760.00	\$98,280.00
		<i>S LAC Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>18.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$54,600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1395	1.2.2.1.2.2	Software Engineer - Feedbacks	SLAC	ED&I	4	25 wks	\$63,160.00	\$0.00	\$0.00	\$63,160.00	\$12,632.00	\$37,896.00	\$113,688.00
		<i>SLAC Controls: Programmer</i>		<i>ED&I</i>	<i>0</i>	<i>25 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$63,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1396	1.2.2.1.2.3	Software Engineer - Networks	SLAC	ED&I	4	10 wks	\$25,264.00	\$0.00	\$0.00	\$25,264.00	\$5,052.80	\$15,158.40	\$45,475.20
		<i>SLAC Controls: Programmer</i>		<i>ED&I</i>	<i>0</i>	<i>10 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$25,264.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1397	1.2.2.1.2.4	Software Engineer - Interfaces	SLAC	ED&I	4	35 wks	\$88,424.00	\$0.00	\$0.00	\$88,424.00	\$17,684.80	\$53,054.40	\$159,163.20
		<i>SLAC Controls: Programmer</i>		<i>ED&I</i>	<i>0</i>	<i>35 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$88,424.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1398	1.2.2.1.2.5	Programmer - Database comp. & Comm.	SLAC	ED&I	4	12 wks	\$30,316.80	\$0.00	\$0.00	\$30,316.80	\$6,063.36	\$18,190.08	\$54,570.24
		<i>SLAC Controls: Programmer</i>		<i>ED&I</i>	<i>0</i>	<i>12 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$30,316.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1399	1.2.2.1.3	Vacuum System PED			0	158.4 wks	\$421,665.60	\$0.00	\$0.00	\$421,665.60	\$84,333.12	\$175,078.56	\$681,077.28
1400	1.2.2.1.3.1	Vacuum System Engineering	SLAC	ED&I	3	53.4 wks	\$179,424.00	\$0.00	\$0.00	\$179,424.00	\$35,884.80	\$75,358.08	\$290,666.88
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>53.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$179,424.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1401	1.2.2.1.3.2	Vacuum System Design	SLAC	ED&I	3	40 wks	\$92,000.00	\$0.00	\$0.00	\$92,000.00	\$18,400.00	\$38,640.00	\$149,040.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>40 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$92,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1402	1.2.2.1.3.3	Component layouts, details, assemblies	SLAC	ED&I	3	10 wks	\$23,000.00	\$0.00	\$0.00	\$23,000.00	\$4,600.00	\$9,660.00	\$37,260.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>10 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$23,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1403	1.2.2.1.3.4	Support Layouts, details, assemblies	SLAC	ED&I	3	48 wks	\$110,400.00	\$0.00	\$0.00	\$110,400.00	\$22,080.00	\$46,368.00	\$178,848.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>48 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$110,400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1404	1.2.2.1.3.5	Controls Hardware Engineering	SLAC	ED&I	2	3 wks	\$8,841.60	\$0.00	\$0.00	\$8,841.60	\$1,768.32	\$2,652.48	\$13,262.40
		<i>SLAC Controls: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,841.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1405	1.2.2.1.3.6	Controls Coordination and Documentation	SLAC	ED&I	2	4 wks	\$8,000.00	\$0.00	\$0.00	\$8,000.00	\$1,600.00	\$2,400.00	\$12,000.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1406	1.2.2.1.4	BC1 Articulation Vacuum			0	30 wks	\$79,600.00	\$0.00	\$0.00	\$79,600.00	\$15,920.00	\$33,432.00	\$128,952.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
1407	1.2.2.1.4.1	Articulation Vac Engineering	SLAC	ED&I	3	10 wks	\$33,600.00	\$0.00	\$0.00	\$33,600.00	\$6,720.00	\$14,112.00	\$54,432.00
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>10 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$33,600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1408	1.2.2.1.4.2	Articulation Vac Design	SLAC	ED&I	3	7.5 wks	\$17,250.00	\$0.00	\$0.00	\$17,250.00	\$3,450.00	\$7,245.00	\$27,945.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>7.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$17,250.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1409	1.2.2.1.4.3	Articulation Vac Drafting	SLAC	ED&I	3	12.5 wks	\$28,750.00	\$0.00	\$0.00	\$28,750.00	\$5,750.00	\$12,075.00	\$46,575.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>12.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$28,750.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1410	1.2.2.1.5	BC2 Articulation Vacuum			0	30 wks	\$79,600.00	\$0.00	\$0.00	\$79,600.00	\$15,920.00	\$33,432.00	\$128,952.00
1411	1.2.2.1.5.1	Articulation Vac Engineering	SLAC	ED&I	3	10 wks	\$33,600.00	\$0.00	\$0.00	\$33,600.00	\$6,720.00	\$14,112.00	\$54,432.00
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>10 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$33,600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1412	1.2.2.1.5.2	Articulation Vac Design	SLAC	ED&I	3	7.5 wks	\$17,250.00	\$0.00	\$0.00	\$17,250.00	\$3,450.00	\$7,245.00	\$27,945.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>7.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$17,250.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1413	1.2.2.1.5.3	Articulation Vac Drafting	SLAC	ED&I	3	12.5 wks	\$28,750.00	\$0.00	\$0.00	\$28,750.00	\$5,750.00	\$12,075.00	\$46,575.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>12.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$28,750.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1414	1.2.2.1.6	Dumpline Vacuum			0	80 wks	\$226,400.00	\$0.00	\$0.00	\$226,400.00	\$45,280.00	\$95,088.00	\$366,768.00
1415	1.2.2.1.6.1	Dumpline Vac Engineering	SLAC	ED&I	3	40 wks	\$134,400.00	\$0.00	\$0.00	\$134,400.00	\$26,880.00	\$56,448.00	\$217,728.00
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>40 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$134,400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1416	1.2.2.1.6.2	Dumpline Vac Design	SLAC	ED&I	3	20 wks	\$46,000.00	\$0.00	\$0.00	\$46,000.00	\$9,200.00	\$19,320.00	\$74,520.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>20 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$46,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1417	1.2.2.1.6.3	Dumpline Vac Drafting	SLAC	ED&I	3	20 wks	\$46,000.00	\$0.00	\$0.00	\$46,000.00	\$9,200.00	\$19,320.00	\$74,520.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>20 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$46,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1418	1.2.2.1.7	Reserved			0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1419	1.2.2.1.7.1	Area layouts/raceways/supports	SLAC		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1420	1.2.2.1.7.2	System dwg (EI,WD,Profile,CC&contrac.)	SLAC		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1421	1.2.2.1.8	PPS PED			0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1422	1.2.2.1.8.1	PPS Design Engineering	SLAC		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1423	1.2.2.1.8.2	PPS Design Drafting	SLAC		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1424	1.2.2.1.9	BC1 Articulation Mechanical			0	62 wks	\$159,560.00	\$0.00	\$0.00	\$159,560.00	\$31,912.00	\$67,015.20	\$258,487.20
1425	1.2.2.1.9.1	Articulation Engineering	SLAC	ED&I	3	16 wks	\$53,760.00	\$0.00	\$0.00	\$53,760.00	\$10,752.00	\$22,579.20	\$87,091.20
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>16 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$53,760.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1426	1.2.2.1.9.2	Articulation Design	SLAC	ED&I	3	20 wks	\$46,000.00	\$0.00	\$0.00	\$46,000.00	\$9,200.00	\$19,320.00	\$74,520.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>20 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$46,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1427	1.2.2.1.9.3	Articulation Drafting	SLAC	ED&I	3	26 wks	\$59,800.00	\$0.00	\$0.00	\$59,800.00	\$11,960.00	\$25,116.00	\$96,876.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>26 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$59,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1428	1.2.2.1.10	BC2 Articulation Mechanical			0	62 wks	\$159,560.00	\$0.00	\$0.00	\$159,560.00	\$31,912.00	\$67,015.20	\$258,487.20
1429	1.2.2.1.10.1	Articulation Engineering	SLAC	ED&I	3	16 wks	\$53,760.00	\$0.00	\$0.00	\$53,760.00	\$10,752.00	\$22,579.20	\$87,091.20

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	0	16 wks	\$0.00	\$0.00	\$0.00	\$53,760.00	\$0.00	\$0.00	\$0.00
1430	1.2.2.1.10.2	Articulation Design	SLAC	ED&I	3	20 wks	\$46,000.00	\$0.00	\$0.00	\$46,000.00	\$9,200.00	\$19,320.00	\$74,520.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	0	20 wks	\$0.00	\$0.00	\$0.00	\$46,000.00	\$0.00	\$0.00	\$0.00
1431	1.2.2.1.10.3	Articulation Drafting	SLAC	ED&I	3	26 wks	\$59,800.00	\$0.00	\$0.00	\$59,800.00	\$11,960.00	\$25,116.00	\$96,876.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	0	26 wks	\$0.00	\$0.00	\$0.00	\$59,800.00	\$0.00	\$0.00	\$0.00
1432	1.2.2.1.11	Bend Magnets - 5D7.1 (BC1 magnets)			0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1433	1.2.2.1.11.1	Magnet Design	SLAC		4	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1434	1.2.2.1.11.2	Magnet Drafting	SLAC		4	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1435	1.2.2.1.11.3	Magnet Support Design	SLAC		4	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1436	1.2.2.1.11.4	Magnet Support Drafting	SLAC		4	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1437	1.2.2.1.12	Bend Magnet 1D30.5			0	19 wks	\$51,120.00	\$0.00	\$0.00	\$51,120.00	\$10,224.00	\$15,336.00	\$76,680.00
1438	1.2.2.1.12.1	Magnetic Modeling	SLAC	ED&I	2	2 wks	\$6,720.00	\$0.00	\$0.00	\$6,720.00	\$1,344.00	\$2,016.00	\$10,080.00
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	0	2 wks	\$0.00	\$0.00	\$0.00	\$6,720.00	\$0.00	\$0.00	\$0.00
1439	1.2.2.1.12.2	Magnet Design	SLAC	ED&I	2	3 wks	\$10,080.00	\$0.00	\$0.00	\$10,080.00	\$2,016.00	\$3,024.00	\$15,120.00
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	0	3 wks	\$0.00	\$0.00	\$0.00	\$10,080.00	\$0.00	\$0.00	\$0.00
1440	1.2.2.1.12.3	Magnet Drafting	SLAC	ED&I	2	8 wks	\$18,400.00	\$0.00	\$0.00	\$18,400.00	\$3,680.00	\$5,520.00	\$27,600.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	0	8 wks	\$0.00	\$0.00	\$0.00	\$18,400.00	\$0.00	\$0.00	\$0.00
1441	1.2.2.1.12.4	Magnet Support Design	SLAC	ED&I	2	2 wks	\$6,720.00	\$0.00	\$0.00	\$6,720.00	\$1,344.00	\$2,016.00	\$10,080.00
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	0	2 wks	\$0.00	\$0.00	\$0.00	\$6,720.00	\$0.00	\$0.00	\$0.00
1442	1.2.2.1.12.5	Magnet Support Drafting	SLAC	ED&I	2	4 wks	\$9,200.00	\$0.00	\$0.00	\$9,200.00	\$1,840.00	\$2,760.00	\$13,800.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	0	4 wks	\$0.00	\$0.00	\$0.00	\$9,200.00	\$0.00	\$0.00	\$0.00
1443	1.2.2.1.13	Bend Magnet 4D102.36T			2	5 wks	\$12,560.00	\$0.00	\$0.00	\$12,560.00	\$2,512.00	\$3,768.00	\$18,840.00
1444	1.2.2.1.13.1	Magnetic Modeling	SLAC	ED&I	2	0.2 wks	\$672.00	\$0.00	\$0.00	\$672.00	\$134.40	\$201.60	\$1,008.00
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$672.00	\$0.00	\$0.00	\$0.00
1445	1.2.2.1.13.2	Magnet Design	SLAC	ED&I	2	0.4 wks	\$1,344.00	\$0.00	\$0.00	\$1,344.00	\$268.80	\$403.20	\$2,016.00
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	0	0.4 wks	\$0.00	\$0.00	\$0.00	\$1,344.00	\$0.00	\$0.00	\$0.00
1446	1.2.2.1.13.3	Magnet Drafting	SLAC	ED&I	2	2 wks	\$4,600.00	\$0.00	\$0.00	\$4,600.00	\$920.00	\$1,380.00	\$6,900.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	0	2 wks	\$0.00	\$0.00	\$0.00	\$4,600.00	\$0.00	\$0.00	\$0.00
1447	1.2.2.1.13.4	Magnet Support Design	SLAC	ED&I	2	0.4 wks	\$1,344.00	\$0.00	\$0.00	\$1,344.00	\$268.80	\$403.20	\$2,016.00
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	0	0.4 wks	\$0.00	\$0.00	\$0.00	\$1,344.00	\$0.00	\$0.00	\$0.00
1448	1.2.2.1.13.5	Magnet Support Drafting	SLAC	ED&I	2	2 wks	\$4,600.00	\$0.00	\$0.00	\$4,600.00	\$920.00	\$1,380.00	\$6,900.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	0	2 wks	\$0.00	\$0.00	\$0.00	\$4,600.00	\$0.00	\$0.00	\$0.00
1449	1.2.2.1.14	Bend Magnet (VB)			0	19 wks	\$51,120.00	\$0.00	\$0.00	\$51,120.00	\$10,224.00	\$15,336.00	\$76,680.00
1450	1.2.2.1.14.1	Magnetic Modeling	SLAC	ED&I	2	2 wks	\$6,720.00	\$0.00	\$0.00	\$6,720.00	\$1,344.00	\$2,016.00	\$10,080.00
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	0	2 wks	\$0.00	\$0.00	\$0.00	\$6,720.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
1451	1.2.2.1.14.2	Magnet Design	SLAC	ED&I	2	3 wks	\$10,080.00	\$0.00	\$0.00	\$10,080.00	\$2,016.00	\$3,024.00	\$15,120.00
		SLAC AD: Mech/Vacuum Engineer		ED&I	0	3 wks	\$0.00	\$0.00	\$0.00	\$10,080.00	\$0.00	\$0.00	\$0.00
1452	1.2.2.1.14.3	Magnet Drafting	SLAC	ED&I	2	8 wks	\$18,400.00	\$0.00	\$0.00	\$18,400.00	\$3,680.00	\$5,520.00	\$27,600.00
		SLAC Mech Drafting/Design		ED&I	0	8 wks	\$0.00	\$0.00	\$0.00	\$18,400.00	\$0.00	\$0.00	\$0.00
1453	1.2.2.1.14.4	Magnet Support Design	SLAC	ED&I	2	2 wks	\$6,720.00	\$0.00	\$0.00	\$6,720.00	\$1,344.00	\$2,016.00	\$10,080.00
		SLAC Mechanical Engineer		ED&I	0	2 wks	\$0.00	\$0.00	\$0.00	\$6,720.00	\$0.00	\$0.00	\$0.00
1454	1.2.2.1.14.5	Magnet Support Drafting	SLAC	ED&I	2	4 wks	\$9,200.00	\$0.00	\$0.00	\$9,200.00	\$1,840.00	\$2,760.00	\$13,800.00
		SLAC Mech Drafting/Design		ED&I	0	4 wks	\$0.00	\$0.00	\$0.00	\$9,200.00	\$0.00	\$0.00	\$0.00
1455	1.2.2.1.15	Dumpline Bend Magnet			0	19 wks	\$51,120.00	\$0.00	\$0.00	\$51,120.00	\$10,224.00	\$15,336.00	\$76,680.00
1456	1.2.2.1.15.1	Magnetic Modeling	SLAC	ED&I	2	2 wks	\$6,720.00	\$0.00	\$0.00	\$6,720.00	\$1,344.00	\$2,016.00	\$10,080.00
		SLAC Mechanical Engineer		ED&I	0	2 wks	\$0.00	\$0.00	\$0.00	\$6,720.00	\$0.00	\$0.00	\$0.00
1457	1.2.2.1.15.2	Magnet Design	SLAC	ED&I	2	3 wks	\$10,080.00	\$0.00	\$0.00	\$10,080.00	\$2,016.00	\$3,024.00	\$15,120.00
		SLAC AD: Mech/Vacuum Engineer		ED&I	0	3 wks	\$0.00	\$0.00	\$0.00	\$10,080.00	\$0.00	\$0.00	\$0.00
1458	1.2.2.1.15.3	Magnet Drafting	SLAC	ED&I	2	8 wks	\$18,400.00	\$0.00	\$0.00	\$18,400.00	\$3,680.00	\$5,520.00	\$27,600.00
		SLAC Mech Drafting/Design		ED&I	0	8 wks	\$0.00	\$0.00	\$0.00	\$18,400.00	\$0.00	\$0.00	\$0.00
1459	1.2.2.1.15.4	Magnet Support Design	SLAC	ED&I	2	2 wks	\$6,720.00	\$0.00	\$0.00	\$6,720.00	\$1,344.00	\$2,016.00	\$10,080.00
		SLAC Mechanical Engineer		ED&I	0	2 wks	\$0.00	\$0.00	\$0.00	\$6,720.00	\$0.00	\$0.00	\$0.00
1460	1.2.2.1.15.5	Magnet Support Drafting	SLAC	ED&I	2	4 wks	\$9,200.00	\$0.00	\$0.00	\$9,200.00	\$1,840.00	\$2,760.00	\$13,800.00
		SLAC Mech Drafting/Design		ED&I	0	4 wks	\$0.00	\$0.00	\$0.00	\$9,200.00	\$0.00	\$0.00	\$0.00
1461	1.2.2.1.16	Quadrupoles - QE			0	16 wks	\$43,160.00	\$0.00	\$0.00	\$43,160.00	\$8,632.00	\$12,948.00	\$64,740.00
1462	1.2.2.1.16.1	Magnetic Modelling	SLAC	ED&I	2	2 wks	\$6,720.00	\$0.00	\$0.00	\$6,720.00	\$1,344.00	\$2,016.00	\$10,080.00
		SLAC Mechanical Engineer		ED&I	0	2 wks	\$0.00	\$0.00	\$0.00	\$6,720.00	\$0.00	\$0.00	\$0.00
1463	1.2.2.1.16.2	Magnet Design	SLAC	ED&I	2	3 wks	\$10,080.00	\$0.00	\$0.00	\$10,080.00	\$2,016.00	\$3,024.00	\$15,120.00
		SLAC AD: Mech/Vacuum Engineer		ED&I	0	3 wks	\$0.00	\$0.00	\$0.00	\$10,080.00	\$0.00	\$0.00	\$0.00
1464	1.2.2.1.16.3	Magnet Drafting	SLAC	ED&I	2	8 wks	\$18,400.00	\$0.00	\$0.00	\$18,400.00	\$3,680.00	\$5,520.00	\$27,600.00
		SLAC Mech Drafting/Design		ED&I	0	8 wks	\$0.00	\$0.00	\$0.00	\$18,400.00	\$0.00	\$0.00	\$0.00
1465	1.2.2.1.16.4	Magnet Support Design	SLAC	ED&I	2	1 wk	\$3,360.00	\$0.00	\$0.00	\$3,360.00	\$672.00	\$1,008.00	\$5,040.00
		SLAC Mechanical Engineer		ED&I	0	1 wk	\$0.00	\$0.00	\$0.00	\$3,360.00	\$0.00	\$0.00	\$0.00
1466	1.2.2.1.16.5	Magnet Support Drafting	SLAC	ED&I	2	2 wks	\$4,600.00	\$0.00	\$0.00	\$4,600.00	\$920.00	\$1,380.00	\$6,900.00
		SLAC Mech Drafting/Design		ED&I	0	2 wks	\$0.00	\$0.00	\$0.00	\$4,600.00	\$0.00	\$0.00	\$0.00
1467	1.2.2.1.17	Quad Magnet 0.91Q17.72			0	16 wks	\$43,160.00	\$0.00	\$0.00	\$43,160.00	\$8,632.00	\$12,948.00	\$64,740.00
1468	1.2.2.1.17.1	Magnetic Modelling	SLAC	ED&I	2	2 wks	\$6,720.00	\$0.00	\$0.00	\$6,720.00	\$1,344.00	\$2,016.00	\$10,080.00
		SLAC Mechanical Engineer		ED&I	0	2 wks	\$0.00	\$0.00	\$0.00	\$6,720.00	\$0.00	\$0.00	\$0.00
1469	1.2.2.1.17.2	Magnet Design	SLAC	ED&I	2	3 wks	\$10,080.00	\$0.00	\$0.00	\$10,080.00	\$2,016.00	\$3,024.00	\$15,120.00
		SLAC AD: Mech/Vacuum Engineer		ED&I	0	3 wks	\$0.00	\$0.00	\$0.00	\$10,080.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
1470	1.2.2.1.17.3	Magnet Drafting	SLAC	ED&I	2	8 wks	\$18,400.00	\$0.00	\$0.00	\$18,400.00	\$3,680.00	\$5,520.00	\$27,600.00
		SLAC Mech Drafting/Design		ED&I	0	8 wks	\$0.00	\$0.00	\$0.00	\$18,400.00	\$0.00	\$0.00	\$0.00
1471	1.2.2.1.17.4	Magnet Support Design	SLAC	ED&I	2	1 wk	\$3,360.00	\$0.00	\$0.00	\$3,360.00	\$672.00	\$1,008.00	\$5,040.00
		SLAC Mechanical Engineer		ED&I	0	1 wk	\$0.00	\$0.00	\$0.00	\$3,360.00	\$0.00	\$0.00	\$0.00
1472	1.2.2.1.17.5	Magnet Support Drafting	SLAC	ED&I	2	2 wks	\$4,600.00	\$0.00	\$0.00	\$4,600.00	\$920.00	\$1,380.00	\$6,900.00
		SLAC Mech Drafting/Design		ED&I	0	2 wks	\$0.00	\$0.00	\$0.00	\$4,600.00	\$0.00	\$0.00	\$0.00
1473	1.2.2.1.18	Superconducting Wiggler			2	15 wks	\$44,200.00	\$0.00	\$0.00	\$44,200.00	\$8,840.00	\$7,956.00	\$60,996.00
1474	1.2.2.1.18.1	Magnet Modelling	SLAC	ED&I	1	4 wks	\$13,600.00	\$0.00	\$0.00	\$13,600.00	\$2,720.00	\$2,448.00	\$18,768.00
		SLAC Physicist -Scientist		ED&I	0	4 wks	\$0.00	\$0.00	\$0.00	\$13,600.00	\$0.00	\$0.00	\$0.00
1475	1.2.2.1.18.2	Magnet Design(bid pkg)	SLAC	ED&I	1	3 wks	\$10,080.00	\$0.00	\$0.00	\$10,080.00	\$2,016.00	\$1,814.40	\$13,910.40
		SLAC Mechanical Engineer		ED&I	0	3 wks	\$0.00	\$0.00	\$0.00	\$10,080.00	\$0.00	\$0.00	\$0.00
1476	1.2.2.1.18.3	Magnet drafting(bid pkg)	SLAC	ED&I	1	2 wks	\$4,600.00	\$0.00	\$0.00	\$4,600.00	\$920.00	\$828.00	\$6,348.00
		SLAC Mech Drafting/Design		ED&I	0	2 wks	\$0.00	\$0.00	\$0.00	\$4,600.00	\$0.00	\$0.00	\$0.00
1477	1.2.2.1.18.4	Magnet support design	SLAC	ED&I	1	1 wk	\$3,360.00	\$0.00	\$0.00	\$3,360.00	\$672.00	\$604.80	\$4,636.80
		SLAC Mechanical Engineer		ED&I	0	1 wk	\$0.00	\$0.00	\$0.00	\$3,360.00	\$0.00	\$0.00	\$0.00
1478	1.2.2.1.18.5	Magnet support drafting	SLAC	ED&I	1	2 wks	\$4,600.00	\$0.00	\$0.00	\$4,600.00	\$920.00	\$828.00	\$6,348.00
		SLAC Mech Drafting/Design		ED&I	0	2 wks	\$0.00	\$0.00	\$0.00	\$4,600.00	\$0.00	\$0.00	\$0.00
1479	1.2.2.1.18.6	Cryo Design	SLAC	ED&I	1	1 wk	\$3,360.00	\$0.00	\$0.00	\$3,360.00	\$672.00	\$604.80	\$4,636.80
		SLAC Mechanical Engineer		ED&I	0	1 wk	\$0.00	\$0.00	\$0.00	\$3,360.00	\$0.00	\$0.00	\$0.00
1480	1.2.2.1.18.7	Cryo drafting	SLAC	ED&I	1	2 wks	\$4,600.00	\$0.00	\$0.00	\$4,600.00	\$920.00	\$828.00	\$6,348.00
		SLAC Mech Drafting/Design		ED&I	0	2 wks	\$0.00	\$0.00	\$0.00	\$4,600.00	\$0.00	\$0.00	\$0.00
1481	1.2.2.1.19	Accelerator Structures - L1			0	6 wks	\$20,160.00	\$0.00	\$0.00	\$20,160.00	\$4,032.00	\$6,048.00	\$30,240.00
1482	1.2.2.1.19.1	Structure Design (cutting structure)	SLAC	ED&I	2	2 wks	\$6,720.00	\$0.00	\$0.00	\$6,720.00	\$1,344.00	\$2,016.00	\$10,080.00
		SLAC Mechanical Engineer		ED&I	0	2 wks	\$0.00	\$0.00	\$0.00	\$6,720.00	\$0.00	\$0.00	\$0.00
1483	1.2.2.1.19.2	Structure Drafting	SLAC	ED&I	2	4 wks	\$13,440.00	\$0.00	\$0.00	\$13,440.00	\$2,688.00	\$4,032.00	\$20,160.00
		SLAC AD: Mech/Vacuum Engineer		ED&I	0	4 wks	\$0.00	\$0.00	\$0.00	\$13,440.00	\$0.00	\$0.00	\$0.00
1484	1.2.2.1.20	X-Band Design			0	52.75 wks	\$155,037.90	\$0.00	\$0.00	\$155,037.90	\$31,007.58	\$64,204.56	\$250,250.04
1485	1.2.2.1.20.1	Klystron Design	SLAC	ED&I	3	20 wks	\$57,864.00	\$0.00	\$0.00	\$57,864.00	\$11,572.80	\$24,302.88	\$93,739.68
		SLAC Klystron: Engineer		ED&I	0	20 wks	\$0.00	\$0.00	\$0.00	\$57,864.00	\$0.00	\$0.00	\$0.00
1486	1.2.2.1.20.1	Kly Mount Desgn	SLAC	ED&I	3	5 wks	\$14,466.00	\$0.00	\$0.00	\$14,466.00	\$2,893.20	\$6,075.72	\$23,434.92
		SLAC Klystron: Engineer		ED&I	0	5 wks	\$0.00	\$0.00	\$0.00	\$14,466.00	\$0.00	\$0.00	\$0.00
1487	1.2.2.1.20.2	Modulator Design	SLAC	ED&I	3	2 wks	\$5,786.40	\$0.00	\$0.00	\$5,786.40	\$1,157.28	\$2,430.29	\$9,373.97
		SLAC Klystron: Engineer		ED&I	0	2 wks	\$0.00	\$0.00	\$0.00	\$5,786.40	\$0.00	\$0.00	\$0.00
1488	1.2.2.1.20.2	Modulator Documentation	SLAC	ED&I	3	3 wks	\$6,900.00	\$0.00	\$0.00	\$6,900.00	\$1,380.00	\$2,898.00	\$11,178.00
		SLAC Mech Drafting/Design		ED&I	0	3 wks	\$0.00	\$0.00	\$0.00	\$6,900.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
1489	1.2.2.1.20.2	Tank Design	SLAC	ED&I	0	0.75 wks	\$2,169.90	\$0.00	\$0.00	\$2,169.90	\$433.98	\$0.00	\$2,603.88
		<i>SLAC Klystron: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.75 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,169.90</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1490	1.2.2.1.20.3	LLRF Design	SLAC	ED&I	3	4 wks	\$11,572.80	\$0.00	\$0.00	\$11,572.80	\$2,314.56	\$4,860.58	\$18,747.94
		<i>SLAC Klystron: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,572.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1491	1.2.2.1.20.4	Waveguide System Design	SLAC	ED&I	3	4 wks	\$11,572.80	\$0.00	\$0.00	\$11,572.80	\$2,314.56	\$4,860.58	\$18,747.94
		<i>SLAC Klystron: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,572.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1492	1.2.2.1.20.4	Waveguide Support Design	SLAC	ED&I	3	3 wks	\$10,080.00	\$0.00	\$0.00	\$10,080.00	\$2,016.00	\$4,233.60	\$16,329.60
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1493	1.2.2.1.20.5	Structure Design	SLAC	ED&I	3	5 wks	\$14,466.00	\$0.00	\$0.00	\$14,466.00	\$2,893.20	\$6,075.72	\$23,434.92
		<i>SLAC Klystron: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$14,466.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1494	1.2.2.1.20.5	Structure Support Design	SLAC	ED&I	3	6 wks	\$20,160.00	\$0.00	\$0.00	\$20,160.00	\$4,032.00	\$8,467.20	\$32,659.20
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$20,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1495	1.2.2.1.21	Accelerator Structures - Transverse			0	12 wks	\$40,320.00	\$0.00	\$0.00	\$40,320.00	\$8,064.00	\$12,096.00	\$60,480.00
1496	1.2.2.1.21.1	Structure Design	SLAC	ED&I	2	2 wks	\$6,720.00	\$0.00	\$0.00	\$6,720.00	\$1,344.00	\$2,016.00	\$10,080.00
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,720.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1497	1.2.2.1.21.2	Structure Drafting	SLAC	ED&I	2	4 wks	\$13,440.00	\$0.00	\$0.00	\$13,440.00	\$2,688.00	\$4,032.00	\$20,160.00
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,440.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1498	1.2.2.1.21.3	Structure Support Design	SLAC	ED&I	2	2 wks	\$6,720.00	\$0.00	\$0.00	\$6,720.00	\$1,344.00	\$2,016.00	\$10,080.00
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,720.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1499	1.2.2.1.21.4	Structure Support Drafting	SLAC	ED&I	2	4 wks	\$13,440.00	\$0.00	\$0.00	\$13,440.00	\$2,688.00	\$4,032.00	\$20,160.00
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,440.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1500	1.2.2.1.22	RF Distribution System			0	120 wks	\$329,288.48	\$0.00	\$0.00	\$329,288.48	\$65,857.14	\$108,507.77	\$503,653.38
1501	1.2.2.1.22.1	System RF Design	SLAC		4	88 wks	\$242,419.20	\$0.00	\$0.00	\$242,419.20	\$48,483.28	\$82,446.98	\$373,349.46
1502	1.2.2.1.22.1	Drafting	SLAC	ED&I	2	20 wks	\$46,000.00	\$0.00	\$0.00	\$46,000.00	\$9,200.00	\$13,800.00	\$69,000.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>20 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$46,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1503	1.2.2.1.22.1	Documentation	SLAC	ED&I	2	10 wks	\$28,932.00	\$0.00	\$0.00	\$28,932.00	\$5,786.40	\$8,679.60	\$43,398.00
		<i>SLAC Klystron: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>10 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$28,932.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1504	1.2.2.1.22.1	X-Band Phase Chassis	SLAC	ED&I	3	12 wks	\$34,718.40	\$0.00	\$0.00	\$34,718.40	\$6,943.68	\$14,581.73	\$56,243.81
		<i>SLAC Klystron: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>12 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$34,718.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1505	1.2.2.1.22.1	X-Band Phase Chassis	SLAC	M&S	3	0 wks	\$1.00	\$0.00	\$0.00	\$1.00	\$0.06	\$0.37	\$1.43
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1506	1.2.2.1.22.1	X-Band PAD Mods	SLAC	ED&I	3	16 wks	\$46,291.20	\$0.00	\$0.00	\$46,291.20	\$9,258.24	\$19,442.30	\$74,991.74
		<i>SLAC Klystron: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>16 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$46,291.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1507	1.2.2.1.22.1	X-Band PAD Mods	SLAC	M&S	3	0 wks	\$1.00	\$0.00	\$0.00	\$1.00	\$0.06	\$0.37	\$1.43
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
1508	1.2.2.1.22.1	RF Dist. PRL Coaxial Water	SLAC	ED&I	2	2 wks	\$4,600.00	\$0.00	\$0.00	\$4,600.00	\$920.00	\$1,380.00	\$6,900.00
		SLAC Mech Drafting/Design		ED&I	0	2 wks	\$0.00	\$0.00	\$0.00	\$4,600.00	\$0.00	\$0.00	\$0.00
1509	1.2.2.1.22.1	2 Watt Distribution Amp [10]	SLAC	ED&I	2	12 wks	\$34,718.40	\$0.00	\$0.00	\$34,718.40	\$6,943.68	\$10,415.52	\$52,077.60
		SLAC Klystron: Engineer		ED&I	0	12 wks	\$0.00	\$0.00	\$0.00	\$34,718.40	\$0.00	\$0.00	\$0.00
1510	1.2.2.1.22.1	2 Watt Distribution Amp [10]	SLAC	M&S	2	0 wks	\$1.00	\$0.00	\$0.00	\$1.00	\$0.06	\$0.27	\$1.33
		SLAC M&S Total		M&S	0	1	\$4,000.00	\$0.00	\$0.00	\$1.00	\$0.00	\$0.00	\$0.00
1511	1.2.2.1.22.1	Exp. F.O. RF Ref. Electronics	SLAC	ED&I	2	16 wks	\$47,155.20	\$0.00	\$0.00	\$47,155.20	\$9,431.04	\$14,146.56	\$70,732.80
		SLAC Controls: Engineer		ED&I	0	16 wks	\$0.00	\$0.00	\$0.00	\$47,155.20	\$0.00	\$0.00	\$0.00
1512	1.2.2.1.22.1	Exp. F.O. RF Ref. Electronics	SLAC	M&S	2	0 wks	\$1.00	\$0.00	\$0.00	\$1.00	\$0.06	\$0.27	\$1.33
		SLAC M&S Total		M&S	0	1	\$12,000.00	\$0.00	\$0.00	\$1.00	\$0.00	\$0.00	\$0.00
1513	1.2.2.1.22.2	Controls Design	SLAC		4	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1514	1.2.2.1.22.3	Drafting	SLAC		4	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1515	1.2.2.1.22.4	RF Controls Hardware Engineering	SLAC	ED&I	2	17.5 wks	\$52,500.00	\$0.00	\$0.00	\$52,500.00	\$10,500.00	\$15,750.00	\$78,750.00
		S LAC Electrical Engineer		ED&I	0	17.5 wks	\$0.00	\$0.00	\$0.00	\$52,500.00	\$0.00	\$0.00	\$0.00
1516	1.2.2.1.22.5	RF Controls Software Engineering	SLAC	ED&I	2	10.2 wks	\$25,769.28	\$0.00	\$0.00	\$25,769.28	\$5,153.86	\$7,730.78	\$38,653.92
		SLAC Controls: Programmer		ED&I	0	10.2 wks	\$0.00	\$0.00	\$0.00	\$25,769.28	\$0.00	\$0.00	\$0.00
1517	1.2.2.1.22.6	RF Controls Coordintaion & Doc.	SLAC	ED&I	2	4.3 wks	\$8,600.00	\$0.00	\$0.00	\$8,600.00	\$1,720.00	\$2,580.00	\$12,900.00
		SLAC Controls: Coordinator Assoc.		ED&I	0	4.3 wks	\$0.00	\$0.00	\$0.00	\$8,600.00	\$0.00	\$0.00	\$0.00
1518	1.2.2.1.23	Systems RF Design	SLAC		0	93.25 wks	\$292,415.20	\$0.00	\$0.00	\$292,415.20	\$53,443.04	\$86,464.56	\$432,322.80
1519	1.2.2.1.23.1	Drafting	SLAC	ED&I	2	20 wks	\$46,000.00	\$0.00	\$0.00	\$46,000.00	\$9,200.00	\$13,800.00	\$69,000.00
		SLAC Mech Drafting/Design		ED&I	0	20 wks	\$0.00	\$0.00	\$0.00	\$46,000.00	\$0.00	\$0.00	\$0.00
1520	1.2.2.1.23.1	Documentation	SLAC	ED&I	2	10 wks	\$28,932.00	\$0.00	\$0.00	\$28,932.00	\$5,786.40	\$8,679.60	\$43,398.00
		SLAC Klystron: Engineer		ED&I	0	10 wks	\$0.00	\$0.00	\$0.00	\$28,932.00	\$0.00	\$0.00	\$0.00
1521	1.2.2.1.23.1	X-Band Phase Chassis	SLAC	ED&I	2	12 wks	\$34,718.40	\$0.00	\$0.00	\$34,718.40	\$6,943.68	\$10,415.52	\$52,077.60
		SLAC Klystron: Engineer		ED&I	0	12 wks	\$0.00	\$0.00	\$0.00	\$34,718.40	\$0.00	\$0.00	\$0.00
1522	1.2.2.1.23.1	X-Band Phase Chassis	SLAC	M&S	2	0 wks	\$10,000.00	\$0.00	\$0.00	\$10,000.00	\$600.00	\$2,650.00	\$13,250.00
		SLAC M&S Total		M&S	0	10,000	\$0.00	\$0.00	\$0.00	\$10,000.00	\$0.00	\$0.00	\$0.00
1523	1.2.2.1.23.1	X-Band PAD Mods	SLAC	ED&I	2	16 wks	\$46,291.20	\$0.00	\$0.00	\$46,291.20	\$9,258.24	\$13,887.36	\$69,436.80
		SLAC Klystron: Engineer		ED&I	0	16 wks	\$0.00	\$0.00	\$0.00	\$46,291.20	\$0.00	\$0.00	\$0.00
1524	1.2.2.1.23.1	X-Band PAD Mods	SLAC	M&S	2	0 wks	\$10,000.00	\$0.00	\$0.00	\$10,000.00	\$600.00	\$2,650.00	\$13,250.00
		SLAC M&S Total		M&S	0	10,000	\$0.00	\$0.00	\$0.00	\$10,000.00	\$0.00	\$0.00	\$0.00
1525	1.2.2.1.23.1	RF Dist. PRL Coaxial Water	SLAC	ED&I	2	2 wks	\$4,600.00	\$0.00	\$0.00	\$4,600.00	\$920.00	\$1,380.00	\$6,900.00
		SLAC Mech Drafting/Design		ED&I	0	2 wks	\$0.00	\$0.00	\$0.00	\$4,600.00	\$0.00	\$0.00	\$0.00
1526	1.2.2.1.23.1	2 Watt Distribution Amp [10]	SLAC	ED&I	2	12 wks	\$34,718.40	\$0.00	\$0.00	\$34,718.40	\$6,943.68	\$10,415.52	\$52,077.60
		SLAC Klystron: Engineer		ED&I	0	12 wks	\$0.00	\$0.00	\$0.00	\$34,718.40	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
1527	1.2.2.1.23.1	2 Watt Distribution Amp [10]	SLAC	M&S	2	0 wks	\$4,000.00	\$0.00	\$0.00	\$4,000.00	\$240.00	\$1,060.00	\$5,300.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1528	1.2.2.1.23.1	Exp. F.O. RF Ref. Electronics	SLAC	ED&I	2	16 wks	\$47,155.20	\$0.00	\$0.00	\$47,155.20	\$9,431.04	\$14,146.56	\$70,732.80
		<i>SLAC Controls: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>16 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$47,155.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1529	1.2.2.1.23.1	Exp. F.O. RF Ref. Electronics	SLAC	M&S	2	0 wks	\$12,000.00	\$0.00	\$0.00	\$12,000.00	\$720.00	\$3,180.00	\$15,900.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>12,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1530	1.2.2.1.23.1	Controls Hardware Engineering	SLAC	ED&I	2	3.5 wks	\$10,500.00	\$0.00	\$0.00	\$10,500.00	\$2,100.00	\$3,150.00	\$15,750.00
		<i>S LAC Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>3.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,500.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1531	1.2.2.1.23.1	Controls Coordintaion & Doc'n	SLAC	ED&I	2	1.75 wks	\$3,500.00	\$0.00	\$0.00	\$3,500.00	\$700.00	\$1,050.00	\$5,250.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	<i>0</i>	<i>1.75 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,500.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1532	1.2.2.1.24	Bunch Length Monitor			0	30 wks	\$144,880.00	\$0.00	\$0.00	\$144,880.00	\$21,976.00	\$58,399.60	\$225,255.60
1533	1.2.2.1.24.1	Bunch Length Monitor Physics	SLAC		4	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1534	1.2.2.1.24.2	Bunch Length Monitor Design	SLAC	M&S	3	0 wks	\$50,000.00	\$0.00	\$0.00	\$50,000.00	\$3,000.00	\$18,550.00	\$71,550.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>50,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$50,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1535	1.2.2.1.24.2	Bunch Length Monitor Design	SLAC	ED&I	3	10 wks	\$33,600.00	\$0.00	\$0.00	\$33,600.00	\$6,720.00	\$14,112.00	\$54,432.00
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>10 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$33,600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1536	1.2.2.1.24.3	Bunch Length Monitor Drafting	SLAC	ED&I	3	10 wks	\$33,600.00	\$0.00	\$0.00	\$33,600.00	\$6,720.00	\$14,112.00	\$54,432.00
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>10 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$33,600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1537	1.2.2.1.24.4	Bunch Length Monitor Support Design	SLAC	ED&I	3	2 wks	\$4,600.00	\$0.00	\$0.00	\$4,600.00	\$920.00	\$1,932.00	\$7,452.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1538	1.2.2.1.24.5	Bunch Length Monitor Support Drafting	SLAC	ED&I	3	3 wks	\$10,080.00	\$0.00	\$0.00	\$10,080.00	\$2,016.00	\$4,233.60	\$16,329.60
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1539	1.2.2.1.24.6	Controls Hardware Engineering	SLAC	ED&I	3	3 wks	\$9,000.00	\$0.00	\$0.00	\$9,000.00	\$1,800.00	\$3,780.00	\$14,580.00
		<i>S LAC Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1540	1.2.2.1.24.7	Controls Coordination and Documentation	SLAC	ED&I	3	2 wks	\$4,000.00	\$0.00	\$0.00	\$4,000.00	\$800.00	\$1,680.00	\$6,480.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1541	1.2.2.1.25	Collimators			0	16 wks	\$47,840.00	\$0.00	\$0.00	\$47,840.00	\$9,568.00	\$17,292.00	\$74,700.00
1542	1.2.2.1.25.1	Collimator Design	SLAC	ED&I	2	2 wks	\$6,720.00	\$0.00	\$0.00	\$6,720.00	\$1,344.00	\$2,016.00	\$10,080.00
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,720.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1543	1.2.2.1.25.2	Collimator Drafting	SLAC	ED&I	2	4 wks	\$13,440.00	\$0.00	\$0.00	\$13,440.00	\$2,688.00	\$4,032.00	\$20,160.00
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,440.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1544	1.2.2.1.25.3	Collimator Support Design	SLAC	ED&I	4	2 wks	\$4,600.00	\$0.00	\$0.00	\$4,600.00	\$920.00	\$2,760.00	\$8,280.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1545	1.2.2.1.25.4	Collimator Support Drafting	SLAC	ED&I	2	3 wks	\$10,080.00	\$0.00	\$0.00	\$10,080.00	\$2,016.00	\$3,024.00	\$15,120.00
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
1546	1.2.2.1.25.5	Hardware Engineering	SLAC	ED&I	3	3 wks	\$9,000.00	\$0.00	\$0.00	\$9,000.00	\$1,800.00	\$3,780.00	\$14,580.00
		<i>S LAC Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1547	1.2.2.1.25.6	Coordination and Documentation	SLAC	ED&I	3	2 wks	\$4,000.00	\$0.00	\$0.00	\$4,000.00	\$800.00	\$1,680.00	\$6,480.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1548	1.2.2.1.26	E-O Diagnostic			0	21.5 wks	\$59,080.00	\$0.00	\$0.00	\$59,080.00	\$11,816.00	\$23,973.60	\$94,869.60
1549	1.2.2.1.26.1	E-O Physics	SLAC	ED&I	3	2 wks	\$6,800.00	\$0.00	\$0.00	\$6,800.00	\$1,360.00	\$2,856.00	\$11,016.00
		<i>SLAC Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1550	1.2.2.1.26.2	E-O Design	SLAC	ED&I	3	4 wks	\$13,440.00	\$0.00	\$0.00	\$13,440.00	\$2,688.00	\$5,644.80	\$21,772.80
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,440.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1551	1.2.2.1.26.3	E-O Drafting	SLAC	ED&I	3	4 wks	\$9,200.00	\$0.00	\$0.00	\$9,200.00	\$1,840.00	\$3,864.00	\$14,904.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1552	1.2.2.1.26.4	E-O Support Design	SLAC	ED&I	3	4 wks	\$13,440.00	\$0.00	\$0.00	\$13,440.00	\$2,688.00	\$5,644.80	\$21,772.80
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,440.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1553	1.2.2.1.26.5	E-O Support Drafting	SLAC	ED&I	3	4 wks	\$9,200.00	\$0.00	\$0.00	\$9,200.00	\$1,840.00	\$3,864.00	\$14,904.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1554	1.2.2.1.26.6	Hardware Engineering	SLAC	ED&I	2	2 wks	\$4,000.00	\$0.00	\$0.00	\$4,000.00	\$800.00	\$1,200.00	\$6,000.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1555	1.2.2.1.26.7	Coordination & Layout	SLAC	ED&I	2	1.5 wks	\$3,000.00	\$0.00	\$0.00	\$3,000.00	\$600.00	\$900.00	\$4,500.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	<i>0</i>	<i>1.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1556	1.2.2.1.27	New Power Supplies			0	42 wks	\$93,513.60	\$0.00	\$0.00	\$93,513.60	\$18,702.72	\$28,054.08	\$140,270.40
1557	1.2.2.1.27.1	New Power Supplies	SLAC	ED&I	2	12 wks	\$36,000.00	\$0.00	\$0.00	\$36,000.00	\$7,200.00	\$10,800.00	\$54,000.00
		<i>SLAC PCD:Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>12 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$36,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1558	1.2.2.1.27.2	New Power Supplies	SLAC	B&H	2	1 wk	\$1,753.60	\$0.00	\$0.00	\$1,753.60	\$350.72	\$526.08	\$2,630.40
		<i>SLAC PCD:Technician</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,753.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1559	1.2.2.1.27.3	New Power Supplies	SLAC	B&H	2	1 wk	\$2,000.00	\$0.00	\$0.00	\$2,000.00	\$400.00	\$600.00	\$3,000.00
		<i>SLACL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1560	1.2.2.1.27.4	System Dwgs (EI, WD, Profile,	SLAC	ED&I	2	28 wks	\$53,760.00	\$0.00	\$0.00	\$53,760.00	\$10,752.00	\$16,128.00	\$80,640.00
		<i>SLAC PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>28 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$53,760.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1561	1.2.2.1.28	Main Dump	SLAC		0	34 wks	\$93,120.00	\$0.00	\$0.00	\$93,120.00	\$18,624.00	\$39,110.40	\$150,854.40
1562	1.2.2.1.28.1	Dump Physics	SLAC	ED&I	3	2 wks	\$6,800.00	\$0.00	\$0.00	\$6,800.00	\$1,360.00	\$2,856.00	\$11,016.00
		<i>SLAC Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1563	1.2.2.1.28.2	Dump Design	SLAC	ED&I	3	8 wks	\$26,880.00	\$0.00	\$0.00	\$26,880.00	\$5,376.00	\$11,289.60	\$43,545.60
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$26,880.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1564	1.2.2.1.28.3	Dump Drafting	SLAC	ED&I	3	12 wks	\$27,600.00	\$0.00	\$0.00	\$27,600.00	\$5,520.00	\$11,592.00	\$44,712.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>12 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$27,600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
1565	1.2.2.1.28.4	Dump Support Design	SLAC	ED&I	3	4 wks	\$13,440.00	\$0.00	\$0.00	\$13,440.00	\$2,688.00	\$5,644.80	\$21,772.80
		SLAC Mechanical Engineer		ED&I	0	4 wks	\$0.00	\$0.00	\$0.00	\$13,440.00	\$0.00	\$0.00	\$0.00
1566	1.2.2.1.28.5	Dump Support Drafting	SLAC	ED&I	3	8 wks	\$18,400.00	\$0.00	\$0.00	\$18,400.00	\$3,680.00	\$7,728.00	\$29,808.00
		SLAC Mech Drafting/Design		ED&I	0	8 wks	\$0.00	\$0.00	\$0.00	\$18,400.00	\$0.00	\$0.00	\$0.00
1567	1.2.2.1.29	Linac Smoothing PED	SLAC		0	69.2 wks	\$164,488.00	\$0.00	\$0.00	\$164,488.00	\$32,897.60	\$49,346.40	\$246,732.00
1568	1.2.2.1.29.1	Alignment Project Engineer	SLAC	B&H	2	26 wks	\$59,280.00	\$0.00	\$0.00	\$59,280.00	\$11,856.00	\$17,784.00	\$88,920.00
		SLAC Metrology:Eng.& Surveyors		B&H	0	26 wks	\$0.00	\$0.00	\$0.00	\$59,280.00	\$0.00	\$0.00	\$0.00
1569	1.2.2.1.29.2	Mechanical Designer	SLAC	ED&I	2	26 wks	\$59,800.00	\$0.00	\$0.00	\$59,800.00	\$11,960.00	\$17,940.00	\$89,700.00
		SLAC Mech Drafting/Design		ED&I	0	26 wks	\$0.00	\$0.00	\$0.00	\$59,800.00	\$0.00	\$0.00	\$0.00
1570	1.2.2.1.29.3	Electrical Engineer	SLAC	ED&I	2	8.6 wks	\$25,800.00	\$0.00	\$0.00	\$25,800.00	\$5,160.00	\$7,740.00	\$38,700.00
		S LAC Electrical Engineer		ED&I	0	8.6 wks	\$0.00	\$0.00	\$0.00	\$25,800.00	\$0.00	\$0.00	\$0.00
1571	1.2.2.1.29.4	Software Engineer and Coding	SLAC	B&H	2	8.6 wks	\$19,608.00	\$0.00	\$0.00	\$19,608.00	\$3,921.60	\$5,882.40	\$29,412.00
		SLAC Metrology:Eng.& Surveyors		B&H	0	8.6 wks	\$0.00	\$0.00	\$0.00	\$19,608.00	\$0.00	\$0.00	\$0.00
1572	1.2.2.1.30	Tune Up Dump	SLAC		3	22 wks	\$59,080.00	\$0.00	\$0.00	\$59,080.00	\$11,816.00	\$24,813.60	\$95,709.60
1573	1.2.2.1.30.1	TD Design	SLAC	ED&I	3	6 wks	\$20,160.00	\$0.00	\$0.00	\$20,160.00	\$4,032.00	\$8,467.20	\$32,659.20
		SLAC Mechanical Engineer		ED&I	0	6 wks	\$0.00	\$0.00	\$0.00	\$20,160.00	\$0.00	\$0.00	\$0.00
1574	1.2.2.1.30.2	TD Drafting	SLAC	ED&I	3	8 wks	\$18,400.00	\$0.00	\$0.00	\$18,400.00	\$3,680.00	\$7,728.00	\$29,808.00
		SLAC Mech Drafting/Design		ED&I	0	8 wks	\$0.00	\$0.00	\$0.00	\$18,400.00	\$0.00	\$0.00	\$0.00
1575	1.2.2.1.30.3	TD Support Design	SLAC	ED&I	3	2 wks	\$6,720.00	\$0.00	\$0.00	\$6,720.00	\$1,344.00	\$2,822.40	\$10,886.40
		SLAC Mechanical Engineer		ED&I	0	2 wks	\$0.00	\$0.00	\$0.00	\$6,720.00	\$0.00	\$0.00	\$0.00
1576	1.2.2.1.30.4	TD Support Drafting	SLAC	ED&I	3	6 wks	\$13,800.00	\$0.00	\$0.00	\$13,800.00	\$2,760.00	\$5,796.00	\$22,356.00
		SLAC Mech Drafting/Design		ED&I	0	6 wks	\$0.00	\$0.00	\$0.00	\$13,800.00	\$0.00	\$0.00	\$0.00
1577	1.2.2.2	Mechanical			0	302.85 wks	\$0.00	\$187,000.00	\$866,399.14	\$1,053,399.14	\$184,499.83	\$360,184.11	\$1,598,083.08
1578	1.2.2.2.1	General Vacuum Supports			0	63.95 wks	\$0.00	\$28,000.00	\$178,393.78	\$206,393.78	\$37,358.76	\$60,938.13	\$304,690.67
1579	1.2.2.2.1.1	Support Materials	SLAC	M&S	2	0 wks	\$0.00	\$28,000.00	\$0.00	\$28,000.00	\$1,680.00	\$7,420.00	\$37,100.00
		SLAC M&S Total		M&S	0	28,000	\$0.00	\$0.00	\$0.00	\$28,000.00	\$0.00	\$0.00	\$0.00
1580	1.2.2.2.1.2	Support Machining	SLAC	B&H	2	42.1 wks	\$0.00	\$0.00	\$134,720.00	\$134,720.00	\$26,944.00	\$40,416.00	\$202,080.00
		SLAC Mech. Fab: Machine Shop		B&H	0	42.1 wks	\$0.00	\$0.00	\$0.00	\$134,720.00	\$0.00	\$0.00	\$0.00
1581	1.2.2.2.1.3	Support Assembly	SLAC	B&H	2	21.85 wks	\$0.00	\$0.00	\$43,673.78	\$43,673.78	\$8,734.76	\$13,102.13	\$65,510.67
		SLAC Mech. Fab: Assembly Tech		B&H	0	21.85 wks	\$0.00	\$0.00	\$0.00	\$43,673.78	\$0.00	\$0.00	\$0.00
1582	1.2.2.2.2	BC1 Chicane Articulation			0	32.3 wks	\$0.00	\$15,000.00	\$94,584.76	\$109,584.76	\$19,816.95	\$45,290.60	\$174,692.31
1583	1.2.2.2.2.1	Articulation Materials	SLAC	M&S	3	0 wks	\$0.00	\$15,000.00	\$0.00	\$15,000.00	\$900.00	\$5,565.00	\$21,465.00
		SLAC M&S Total		M&S	0	15,000	\$0.00	\$0.00	\$0.00	\$15,000.00	\$0.00	\$0.00	\$0.00
1584	1.2.2.2.2.2	Articulation Machining	SLAC	B&H	3	16 wks	\$0.00	\$0.00	\$51,200.00	\$51,200.00	\$10,240.00	\$21,504.00	\$82,944.00
		SLAC Mech. Fab: Machine Shop		B&H	0	16 wks	\$0.00	\$0.00	\$0.00	\$51,200.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
1585	1.2.2.2.2.3	Articulation Cleaning/Plating	SLAC	B&H	3	3.6 wks	\$0.00	\$0.00	\$18,000.00	\$18,000.00	\$3,600.00	\$7,560.00	\$29,160.00
		<i>SLAC Mech. Fab: Plating & Cleaning</i>		B&H	0	3.6 wks	\$0.00	\$0.00	\$0.00	\$18,000.00	\$0.00	\$0.00	\$0.00
1586	1.2.2.2.2.4	Articulation Welding	SLAC	B&H	3	6.5 wks	\$0.00	\$0.00	\$12,992.20	\$12,992.20	\$2,598.44	\$5,456.72	\$21,047.36
		<i>SLAC Mech. Fab: Assembly Tech</i>		B&H	0	6.5 wks	\$0.00	\$0.00	\$0.00	\$12,992.20	\$0.00	\$0.00	\$0.00
1587	1.2.2.2.2.5	Articulation Assembly	SLAC	B&H	3	4.2 wks	\$0.00	\$0.00	\$8,394.96	\$8,394.96	\$1,678.99	\$3,525.88	\$13,599.84
		<i>SLAC Mech. Fab: Assembly Tech</i>		B&H	0	4.2 wks	\$0.00	\$0.00	\$0.00	\$8,394.96	\$0.00	\$0.00	\$0.00
1588	1.2.2.2.2.6	Articulation Motion Testing	SLAC	B&H	3	2 wks	\$0.00	\$0.00	\$3,997.60	\$3,997.60	\$799.52	\$1,678.99	\$6,476.11
		<i>SLAC Mech. Fab: Assembly Tech</i>		B&H	0	2 wks	\$0.00	\$0.00	\$0.00	\$3,997.60	\$0.00	\$0.00	\$0.00
1589	1.2.2.2.3	BC2 Chicane Articulation			0	35 wks	\$0.00	\$17,000.00	\$99,981.52	\$116,981.52	\$21,016.30	\$48,299.24	\$186,297.06
1590	1.2.2.2.3.1	Articulation Materials	SLAC	M&S	3	0 wks	\$0.00	\$17,000.00	\$0.00	\$17,000.00	\$1,020.00	\$6,307.00	\$24,327.00
		<i>SLAC M&S Total</i>		M&S	0	17,000	\$0.00	\$0.00	\$0.00	\$17,000.00	\$0.00	\$0.00	\$0.00
1591	1.2.2.2.3.2	Articulation Machining	SLAC	B&H	3	16 wks	\$0.00	\$0.00	\$51,200.00	\$51,200.00	\$10,240.00	\$21,504.00	\$82,944.00
		<i>SLAC Mech. Fab: Machine Shop</i>		B&H	0	16 wks	\$0.00	\$0.00	\$0.00	\$51,200.00	\$0.00	\$0.00	\$0.00
1592	1.2.2.2.3.3	Articulation Cleaning/Plating	SLAC	B&H	3	3.6 wks	\$0.00	\$0.00	\$18,000.00	\$18,000.00	\$3,600.00	\$7,560.00	\$29,160.00
		<i>SLAC Mech. Fab: Plating & Cleaning</i>		B&H	0	3.6 wks	\$0.00	\$0.00	\$0.00	\$18,000.00	\$0.00	\$0.00	\$0.00
1593	1.2.2.2.3.4	Articulation Welding	SLAC	B&H	3	8 wks	\$0.00	\$0.00	\$15,990.40	\$15,990.40	\$3,198.08	\$6,715.97	\$25,904.45
		<i>SLAC Mech. Fab: Assembly Tech</i>		B&H	0	8 wks	\$0.00	\$0.00	\$0.00	\$15,990.40	\$0.00	\$0.00	\$0.00
1594	1.2.2.2.3.5	Articulation Assembly	SLAC	B&H	3	5 wks	\$0.00	\$0.00	\$9,994.00	\$9,994.00	\$1,998.80	\$4,197.48	\$16,190.28
		<i>SLAC Mech. Fab: Assembly Tech</i>		B&H	0	5 wks	\$0.00	\$0.00	\$0.00	\$9,994.00	\$0.00	\$0.00	\$0.00
1595	1.2.2.2.3.6	Articulation Motion Testing	SLAC	B&H	3	2.4 wks	\$0.00	\$0.00	\$4,797.12	\$4,797.12	\$959.42	\$2,014.79	\$7,771.33
		<i>SLAC Mech. Fab: Assembly Tech</i>		B&H	0	2.4 wks	\$0.00	\$0.00	\$0.00	\$4,797.12	\$0.00	\$0.00	\$0.00
1596	1.2.2.2.4	Dumpline Vacuum Supports			0	40 wks	\$0.00	\$50,000.00	\$113,280.00	\$163,280.00	\$25,656.00	\$66,127.60	\$255,063.60
1597	1.2.2.2.4.1	Support Materials	SLAC	M&S	3	0 wks	\$0.00	\$50,000.00	\$0.00	\$50,000.00	\$3,000.00	\$18,550.00	\$71,550.00
		<i>SLAC M&S Total</i>		M&S	0	50,000	\$0.00	\$0.00	\$0.00	\$50,000.00	\$0.00	\$0.00	\$0.00
1598	1.2.2.2.4.2	Support Machining	SLAC	B&H	3	24 wks	\$0.00	\$0.00	\$76,800.00	\$76,800.00	\$15,360.00	\$32,256.00	\$124,416.00
		<i>SLAC Mech. Fab: Machine Shop</i>		B&H	0	24 wks	\$0.00	\$0.00	\$0.00	\$76,800.00	\$0.00	\$0.00	\$0.00
1599	1.2.2.2.4.3	Support Assembly	SLAC	B&H	3	16 wks	\$0.00	\$0.00	\$36,480.00	\$36,480.00	\$7,296.00	\$15,321.60	\$59,097.60
		<i>SLAC Metrology:Eng. & Surveyors</i>		B&H	0	16 wks	\$0.00	\$0.00	\$0.00	\$36,480.00	\$0.00	\$0.00	\$0.00
1600	1.2.2.2.5	Bend Magnet 5D7.1			0	9.6 wks	\$0.00	\$3,000.00	\$27,837.12	\$30,837.12	\$5,747.42	\$9,146.14	\$45,730.68
1601	1.2.2.2.5.1	Support Materials	SLAC	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$795.00	\$3,975.00
		<i>SLAC M&S Total</i>		M&S	0	3,000	\$0.00	\$0.00	\$0.00	\$3,000.00	\$0.00	\$0.00	\$0.00
1602	1.2.2.2.5.2	Support Machining	SLAC	B&H	2	7.2 wks	\$0.00	\$0.00	\$23,040.00	\$23,040.00	\$4,608.00	\$6,912.00	\$34,560.00
		<i>SLAC Mech. Fab: Machine Shop</i>		B&H	0	7.2 wks	\$0.00	\$0.00	\$0.00	\$23,040.00	\$0.00	\$0.00	\$0.00
1603	1.2.2.2.5.3	Magnet Support Assembly	SLAC	B&H	2	2.4 wks	\$0.00	\$0.00	\$4,797.12	\$4,797.12	\$959.42	\$1,439.14	\$7,195.68
		<i>SLAC Mech. Fab: Assembly Tech</i>		B&H	0	2.4 wks	\$0.00	\$0.00	\$0.00	\$4,797.12	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
1604	1.2.2.2.6	Bend Magnet 1D30.5			0	9.6 wks	\$0.00	\$3,000.00	\$27,837.12	\$30,837.12	\$5,747.42	\$9,146.14	\$45,730.68
1605	1.2.2.2.6.1	Support Materials	SLAC	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$795.00	\$3,975.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1606	1.2.2.2.6.2	Support Machining	SLAC	B&H	2	7.2 wks	\$0.00	\$0.00	\$23,040.00	\$23,040.00	\$4,608.00	\$6,912.00	\$34,560.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>7.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$23,040.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1607	1.2.2.2.6.3	Magnet Support Assembly	SLAC	B&H	2	2.4 wks	\$0.00	\$0.00	\$4,797.12	\$4,797.12	\$959.42	\$1,439.14	\$7,195.68
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>2.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,797.12</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1608	1.2.2.2.7	Bend Magnet 4D102.36T			0	1.2 wks	\$0.00	\$1,000.00	\$2,879.04	\$3,879.04	\$635.81	\$1,128.71	\$5,643.56
1609	1.2.2.2.7.1	Support Materials	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1610	1.2.2.2.7.3	Support Machining	SLAC	B&H	2	0.4 wks	\$0.00	\$0.00	\$1,280.00	\$1,280.00	\$256.00	\$384.00	\$1,920.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,280.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1611	1.2.2.2.7.2	Magnet Support Assembly	SLAC	B&H	2	0.8 wks	\$0.00	\$0.00	\$1,599.04	\$1,599.04	\$319.81	\$479.71	\$2,398.56
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,599.04</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1612	1.2.2.2.8	Bend Magnet (VB)			0	4.4 wks	\$0.00	\$1,000.00	\$11,677.60	\$12,677.60	\$2,395.52	\$3,768.28	\$18,841.40
1613	1.2.2.2.8.1	Support Materials	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1614	1.2.2.2.8.2	Support Machining	SLAC	B&H	2	2.4 wks	\$0.00	\$0.00	\$7,680.00	\$7,680.00	\$1,536.00	\$2,304.00	\$11,520.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>2.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,680.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1615	1.2.2.2.8.3	Magnet Support Assembly	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$3,997.60	\$3,997.60	\$799.52	\$1,199.28	\$5,996.40
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,997.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1616	1.2.2.2.9	Quadrupoles - 1Q5.6			0	4.8 wks	\$0.00	\$2,000.00	\$13,918.56	\$15,918.56	\$2,903.71	\$4,705.57	\$23,527.84
1617	1.2.2.2.9.1	Support Materials	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1618	1.2.2.2.9.2	Support Machining	SLAC	B&H	2	3.6 wks	\$0.00	\$0.00	\$11,520.00	\$11,520.00	\$2,304.00	\$3,456.00	\$17,280.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>3.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1619	1.2.2.2.9.3	Magnet Support Assembly	SLAC	B&H	2	1.2 wks	\$0.00	\$0.00	\$2,398.56	\$2,398.56	\$479.71	\$719.57	\$3,597.84
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,398.56</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1620	1.2.2.2.10	Quadrupoles - QA			0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1621	1.2.2.2.10.1	Support Materials	SLAC	ED&I	1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	<i>0</i>	<i>0 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1622	1.2.2.2.10.2	Support Machining	SLAC		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1623	1.2.2.2.10.3	Magnet Support Assembly	SLAC	ED&I	4	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1624	1.2.2.2.10.3	Magnet Support Assembly	SLAC	B&H	4	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1625	1.2.2.2.10.3	Magnet Support Assembly	SLAC	ED&I	4	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1626	1.2.2.2.11	Quad Magnet QE			0	9.6 wks	\$0.00	\$3,000.00	\$27,837.12	\$30,837.12	\$5,747.42	\$9,146.14	\$45,730.68
1627	1.2.2.2.11.1	Support Materials	SLAC	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$795.00	\$3,975.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	3,000	\$0.00	\$0.00	\$0.00	\$3,000.00	\$0.00	\$0.00	\$0.00
1628	1.2.2.2.11.2	Support Machining	SLAC	B&H	2	7.2 wks	\$0.00	\$0.00	\$23,040.00	\$23,040.00	\$4,608.00	\$6,912.00	\$34,560.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	0	7.2 wks	\$0.00	\$0.00	\$0.00	\$23,040.00	\$0.00	\$0.00	\$0.00
1629	1.2.2.2.11.3	Magnet Support Assembly	SLAC	B&H	2	2.4 wks	\$0.00	\$0.00	\$4,797.12	\$4,797.12	\$959.42	\$1,439.14	\$7,195.68
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	2.4 wks	\$0.00	\$0.00	\$0.00	\$4,797.12	\$0.00	\$0.00	\$0.00
1630	1.2.2.2.12	Quad Magnet 0.91Q17.72			0	6.4 wks	\$0.00	\$4,000.00	\$18,558.08	\$22,558.08	\$3,951.62	\$6,627.42	\$33,137.12
1631	1.2.2.2.12.1	Support Materials	SLAC	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$1,060.00	\$5,300.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	4,000	\$0.00	\$0.00	\$0.00	\$4,000.00	\$0.00	\$0.00	\$0.00
1632	1.2.2.2.12.2	Support Machining	SLAC	B&H	2	4.8 wks	\$0.00	\$0.00	\$15,360.00	\$15,360.00	\$3,072.00	\$4,608.00	\$23,040.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	0	4.8 wks	\$0.00	\$0.00	\$0.00	\$15,360.00	\$0.00	\$0.00	\$0.00
1633	1.2.2.2.12.3	Magnet Support Assembly	SLAC	B&H	2	1.6 wks	\$0.00	\$0.00	\$3,198.08	\$3,198.08	\$639.62	\$959.42	\$4,797.12
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	1.6 wks	\$0.00	\$0.00	\$0.00	\$3,198.08	\$0.00	\$0.00	\$0.00
1634	1.2.2.2.13	Correctors			0	12 wks	\$0.00	\$10,000.00	\$33,595.20	\$43,595.20	\$7,319.04	\$12,728.56	\$63,642.80
1635	1.2.2.2.13.1	Support Materials	SLAC	M&S	2	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$600.00	\$2,650.00	\$13,250.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	10,000	\$0.00	\$0.00	\$0.00	\$10,000.00	\$0.00	\$0.00	\$0.00
1636	1.2.2.2.13.2	Support Machining	SLAC	B&H	2	8 wks	\$0.00	\$0.00	\$25,600.00	\$25,600.00	\$5,120.00	\$7,680.00	\$38,400.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	0	8 wks	\$0.00	\$0.00	\$0.00	\$25,600.00	\$0.00	\$0.00	\$0.00
1637	1.2.2.2.13.3	Magnet Support Assembly	SLAC	B&H	2	4 wks	\$0.00	\$0.00	\$7,995.20	\$7,995.20	\$1,599.04	\$2,398.56	\$11,992.80
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	4 wks	\$0.00	\$0.00	\$0.00	\$7,995.20	\$0.00	\$0.00	\$0.00
1638	1.2.2.2.14	Reserved	SLAC		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1639	1.2.2.2.15	Accelerator Structures - X-band			0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1640	1.2.2.2.15.1	Support Materials	SLAC	ED&I	1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1641	1.2.2.2.15.2	Support Machining	SLAC		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1642	1.2.2.2.15.3	Structure Support Assembly	SLAC	ED&I	4	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1643	1.2.2.2.15.3	Structure Support Assembly	SLAC	B&H	4	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1644	1.2.2.2.15.3	Structure Support Assembly	SLAC	ED&I	4	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
1645	1.2.2.2.16	Accelerator Structures - Transverse			0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1646	1.2.2.2.16.1	Support Materials	SLAC	ED&I	1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	<i>0</i>	<i>0 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1647	1.2.2.2.16.2	Support Machining	SLAC		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1648	1.2.2.2.16.3	Structure Support Assembly	SLAC	B&H	4	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1649	1.2.2.2.16.3	Structure Support Assembly	SLAC	ED&I	4	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	<i>0</i>	<i>0 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1650	1.2.2.2.16.3	Structure Support Assembly	SLAC	ED&I	4	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	<i>0</i>	<i>0 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1651	1.2.2.2.16.3	Structure Support Assembly	SLAC	B&H	4	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1652	1.2.2.2.16.3	Structure Support Assembly	SLAC	ED&I	4	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	<i>0</i>	<i>0 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1653	1.2.2.2.17	Tune-up Dumps			0	5.4 wks	\$0.00	\$2,000.00	\$15,838.56	\$17,838.56	\$3,287.71	\$7,394.20	\$28,520.47
1654	1.2.2.2.17.1	Support Materials	SLAC	M&S	3	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$742.00	\$2,862.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1655	1.2.2.2.17.2	Support Machining	SLAC	B&H	3	3 wks	\$0.00	\$0.00	\$9,600.00	\$9,600.00	\$1,920.00	\$4,032.00	\$15,552.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1656	1.2.2.2.17.3	Support Welding	SLAC	B&H	3	1.2 wks	\$0.00	\$0.00	\$3,840.00	\$3,840.00	\$768.00	\$1,612.80	\$6,220.80
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>1.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,840.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1657	1.2.2.2.17.4	TD Support Assembly	SLAC	B&H	3	1.2 wks	\$0.00	\$0.00	\$2,398.56	\$2,398.56	\$479.71	\$1,007.40	\$3,885.67
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,398.56</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1658	1.2.2.2.18	Wire Scanners			0	21 wks	\$0.00	\$11,000.00	\$62,995.80	\$73,995.80	\$13,259.16	\$21,813.74	\$109,068.70
1659	1.2.2.2.18.1	Support Materials	SLAC	M&S	2	0 wks	\$0.00	\$11,000.00	\$0.00	\$11,000.00	\$660.00	\$2,915.00	\$14,575.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>11,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1660	1.2.2.2.18.2	Support Machining	SLAC	B&H	2	14 wks	\$0.00	\$0.00	\$44,800.00	\$44,800.00	\$8,960.00	\$13,440.00	\$67,200.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>14 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$44,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1661	1.2.2.2.18.3	Support Welding	SLAC	B&H	2	3.5 wks	\$0.00	\$0.00	\$11,200.00	\$11,200.00	\$2,240.00	\$3,360.00	\$16,800.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>3.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1662	1.2.2.2.18.4	WS Support Assembly	SLAC	B&H	2	3.5 wks	\$0.00	\$0.00	\$6,995.80	\$6,995.80	\$1,399.16	\$2,098.74	\$10,493.70
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>3.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,995.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1663	1.2.2.2.19	BPMs			0	3.6 wks	\$0.00	\$1,000.00	\$11,520.00	\$12,520.00	\$2,364.00	\$1,311.00	\$16,195.00
1664	1.2.2.2.19.1	BPM Support Materials	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
1665	1.2.2.2.19.2	Support Machining	SLAC	B&H	0	3 wks	\$0.00	\$0.00	\$9,600.00	\$9,600.00	\$1,920.00	\$0.00	\$11,520.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1666	1.2.2.2.19.3	BPM Support Assembly	SLAC	B&H	4	0.6 wks	\$0.00	\$0.00	\$1,920.00	\$1,920.00	\$384.00	\$1,152.00	\$3,456.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,920.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1667	1.2.2.2.20	Toroids			0	5.6 wks	\$0.00	\$2,000.00	\$16,238.32	\$18,238.32	\$3,367.66	\$5,401.50	\$27,007.48
1668	1.2.2.2.20.1	Support Materials	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1669	1.2.2.2.20.2	Support Machining	SLAC	B&H	2	4.2 wks	\$0.00	\$0.00	\$13,440.00	\$13,440.00	\$2,688.00	\$4,032.00	\$20,160.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>4.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,440.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1670	1.2.2.2.20.3	Toro Support Assembly	SLAC	B&H	2	1.4 wks	\$0.00	\$0.00	\$2,798.32	\$2,798.32	\$559.66	\$839.50	\$4,197.48
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,798.32</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1671	1.2.2.2.21	Profile Monitor			0	4 wks	\$0.00	\$2,000.00	\$12,800.00	\$14,800.00	\$2,680.00	\$4,370.00	\$21,850.00
1672	1.2.2.2.21.1	Profile Monitor Support Materials	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1673	1.2.2.2.21.2	Support Machining	SLAC	B&H	2	2.4 wks	\$0.00	\$0.00	\$7,680.00	\$7,680.00	\$1,536.00	\$2,304.00	\$11,520.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>2.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,680.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1674	1.2.2.2.21.3	Profile Monitor Support Assembly	SLAC	B&H	2	1.6 wks	\$0.00	\$0.00	\$5,120.00	\$5,120.00	\$1,024.00	\$1,536.00	\$7,680.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>1.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,120.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1675	1.2.2.2.22	Collimators			0	8 wks	\$0.00	\$4,000.00	\$25,600.00	\$29,600.00	\$5,360.00	\$4,476.00	\$39,436.00
1676	1.2.2.2.22.1	Collimator Support Materials	SLAC	M&S	1	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$636.00	\$4,876.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1677	1.2.2.2.22.2	Support Machining	SLAC	B&H	0	6 wks	\$0.00	\$0.00	\$19,200.00	\$19,200.00	\$3,840.00	\$0.00	\$23,040.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$19,200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1678	1.2.2.2.22.3	Collimator Support Assembly	SLAC	B&H	4	2 wks	\$0.00	\$0.00	\$6,400.00	\$6,400.00	\$1,280.00	\$3,840.00	\$11,520.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1679	1.2.2.2.23	DL2 E-O Diagnostic			0	5.6 wks	\$0.00	\$10,000.00	\$14,556.64	\$24,556.64	\$3,511.33	\$9,823.79	\$37,891.76
1680	1.2.2.2.23.1	E-O Support Materials	SLAC	M&S	3	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$600.00	\$3,710.00	\$14,310.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1681	1.2.2.2.23.2	Support Machining	SLAC	B&H	3	2.8 wks	\$0.00	\$0.00	\$8,960.00	\$8,960.00	\$1,792.00	\$3,763.20	\$14,515.20
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>2.8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,960.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1682	1.2.2.2.23.3	E-O Support Assembly	SLAC	B&H	3	2.8 wks	\$0.00	\$0.00	\$5,596.64	\$5,596.64	\$1,119.33	\$2,350.59	\$9,066.56
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>2.8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,596.64</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1683	1.2.2.2.24	Bunch Length			0	4 wks	\$0.00	\$3,000.00	\$12,800.00	\$15,800.00	\$2,740.00	\$4,635.00	\$23,175.00
1684	1.2.2.2.24.1	BL Support Materials	SLAC	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$795.00	\$3,975.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
1685	1.2.2.2.24.2	Support Machining	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$6,400.00	\$6,400.00	\$1,280.00	\$1,920.00	\$9,600.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1686	1.2.2.2.24.3	BL Support Assembly	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$6,400.00	\$6,400.00	\$1,280.00	\$1,920.00	\$9,600.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1687	1.2.2.2.25	Dumpline Bend Magnets			0	16.8 wks	\$0.00	\$15,000.00	\$43,669.92	\$58,669.92	\$9,633.98	\$23,906.37	\$92,210.27
1688	1.2.2.2.25.1	Support Materials	SLAC	M&S	3	0 wks	\$0.00	\$15,000.00	\$0.00	\$15,000.00	\$900.00	\$5,565.00	\$21,465.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>15,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$15,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1689	1.2.2.2.25.2	Support Machining	SLAC	B&H	3	8.4 wks	\$0.00	\$0.00	\$26,880.00	\$26,880.00	\$5,376.00	\$11,289.60	\$43,545.60
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>8.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$26,880.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1690	1.2.2.2.25.3	Magnet Support Assembly	SLAC	B&H	3	8.4 wks	\$0.00	\$0.00	\$16,789.92	\$16,789.92	\$3,357.98	\$7,051.77	\$27,199.67
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>8.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$16,789.92</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1691	1.2.2.3	Vacuum			0	210.03 wks	\$0.00	\$371,000.00	\$571,750.66	\$942,750.66	\$136,610.13	\$360,473.35	\$1,439,834.14
1692	1.2.2.3.1	BC1 Vacuum			0	34.8 wks	\$0.00	\$94,000.00	\$108,442.60	\$202,442.60	\$27,328.52	\$79,652.35	\$309,423.47
1693	1.2.2.3.1.1	Chamber Materials	SLAC	M&S	3	0 wks	\$0.00	\$94,000.00	\$0.00	\$94,000.00	\$5,640.00	\$34,874.00	\$134,514.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>94,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$94,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1694	1.2.2.3.1.2	Chamber Machining	SLAC	B&H	3	26.5 wks	\$0.00	\$0.00	\$84,800.00	\$84,800.00	\$16,960.00	\$35,616.00	\$137,376.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>26.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$84,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1695	1.2.2.3.1.3	Chamber QA	SLAC	B&H	3	1.6 wks	\$0.00	\$0.00	\$3,648.00	\$3,648.00	\$729.60	\$1,532.16	\$5,909.76
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>1.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,648.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1696	1.2.2.3.1.4	Chamber Plating Cleaning	SLAC	B&H	3	2.2 wks	\$0.00	\$0.00	\$11,000.00	\$11,000.00	\$2,200.00	\$4,620.00	\$17,820.00
		<i>SLAC Mech. Fab: Plating & Cleaning</i>		<i>B&H</i>	<i>3</i>	<i>2.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1697	1.2.2.3.1.5	Chamber Welding	SLAC	B&H	2	3.2 wks	\$0.00	\$0.00	\$6,396.16	\$6,396.16	\$1,279.23	\$1,918.85	\$9,594.24
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>3.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,396.16</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1698	1.2.2.3.1.6	Chamber Vac Process	SLAC	B&H	3	1.3 wks	\$0.00	\$0.00	\$2,598.44	\$2,598.44	\$519.69	\$1,091.34	\$4,209.47
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1.3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,598.44</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1699	1.2.2.3.2	BC2 Vacuum			0	34.8 wks	\$0.00	\$94,000.00	\$108,442.60	\$202,442.60	\$27,328.52	\$80,419.89	\$310,191.01
1700	1.2.2.3.2.1	Chamber Materials	SLAC	M&S	3	0 wks	\$0.00	\$94,000.00	\$0.00	\$94,000.00	\$5,640.00	\$34,874.00	\$134,514.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>94,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$94,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1701	1.2.2.3.2.2	Chamber Machining	SLAC	B&H	3	26.5 wks	\$0.00	\$0.00	\$84,800.00	\$84,800.00	\$16,960.00	\$35,616.00	\$137,376.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>26.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$84,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1702	1.2.2.3.2.3	Chamber QA	SLAC	B&H	3	1.6 wks	\$0.00	\$0.00	\$3,648.00	\$3,648.00	\$729.60	\$1,532.16	\$5,909.76
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>1.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,648.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1703	1.2.2.3.2.4	Chamber Plating Cleaning	SLAC	B&H	3	2.2 wks	\$0.00	\$0.00	\$11,000.00	\$11,000.00	\$2,200.00	\$4,620.00	\$17,820.00
		<i>SLAC Mech. Fab: Plating & Cleaning</i>		<i>B&H</i>	<i>0</i>	<i>2.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1704	1.2.2.3.2.5	Chamber Welding	SLAC	B&H	3	3.2 wks	\$0.00	\$0.00	\$6,396.16	\$6,396.16	\$1,279.23	\$2,686.39	\$10,361.78

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>3.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,396.16</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1705	1.2.2.3.2.6	Chamber Vac Process	SLAC	B&H	3	1.3 wks	\$0.00	\$0.00	\$2,598.44	\$2,598.44	\$519.69	\$1,091.34	\$4,209.47
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1.3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,598.44</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1706	1.2.2.3.3	Accelerator Vacuum Chambers			0	34.73 wks	\$0.00	\$12,000.00	\$100,929.02	\$112,929.02	\$20,905.80	\$33,458.71	\$167,293.53
1707	1.2.2.3.3.1	Chamber Materials	SLAC	M&S	2	0 wks	\$0.00	\$12,000.00	\$0.00	\$12,000.00	\$720.00	\$3,180.00	\$15,900.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>12,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1708	1.2.2.3.3.2	Chamber Machining	SLAC	B&H	2	16.4 wks	\$0.00	\$0.00	\$52,480.00	\$52,480.00	\$10,496.00	\$15,744.00	\$78,720.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>16.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$52,480.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1709	1.2.2.3.3.3	Chamber QA	SLAC	B&H	2	3.58 wks	\$0.00	\$0.00	\$8,162.40	\$8,162.40	\$1,632.48	\$2,448.72	\$12,243.60
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>3.58 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,162.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1710	1.2.2.3.3.4	Chamber Plating Cleaning	SLAC	B&H	2	3.6 wks	\$0.00	\$0.00	\$18,000.00	\$18,000.00	\$3,600.00	\$5,400.00	\$27,000.00
		<i>SLAC Mech. Fab: Plating & Cleaning</i>		<i>B&H</i>	<i>0</i>	<i>3.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$18,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1711	1.2.2.3.3.5	Chamber Welding	SLAC	B&H	2	4.75 wks	\$0.00	\$0.00	\$9,494.30	\$9,494.30	\$1,898.86	\$2,848.29	\$14,241.45
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>4.75 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,494.30</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1712	1.2.2.3.3.6	Chamber Vac Process	SLAC	B&H	2	6.4 wks	\$0.00	\$0.00	\$12,792.32	\$12,792.32	\$2,558.46	\$3,837.70	\$19,188.48
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>6.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,792.32</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1713	1.2.2.3.4	Accelerator Vacuum Bellows			0	5.7 wks	\$0.00	\$11,000.00	\$16,549.24	\$27,549.24	\$3,969.85	\$7,879.77	\$39,398.86
1714	1.2.2.3.4.1	Bellows Modules, Purchased	SLAC	M&S	2	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$480.00	\$2,120.00	\$10,600.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1715	1.2.2.3.4.2	Bellows Materials	SLAC	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$795.00	\$3,975.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1716	1.2.2.3.4.3	Bellows Machining	SLAC	B&H	2	2.2 wks	\$0.00	\$0.00	\$7,040.00	\$7,040.00	\$1,408.00	\$2,112.00	\$10,560.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>2.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,040.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1717	1.2.2.3.4.4	Bellows QA	SLAC	B&H	2	0.4 wks	\$0.00	\$0.00	\$912.00	\$912.00	\$182.40	\$273.60	\$1,368.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$912.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1718	1.2.2.3.4.5	Bellows Plating Cleaning	SLAC	B&H	2	0.8 wks	\$0.00	\$0.00	\$4,000.00	\$4,000.00	\$800.00	\$1,200.00	\$6,000.00
		<i>SLAC Mech. Fab: Plating & Cleaning</i>		<i>B&H</i>	<i>0</i>	<i>0.8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1719	1.2.2.3.4.6	Bellows Welding	SLAC	B&H	2	0.8 wks	\$0.00	\$0.00	\$1,599.04	\$1,599.04	\$319.81	\$479.71	\$2,398.56
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,599.04</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1720	1.2.2.3.4.7	Bellows Vac Process	SLAC	B&H	2	1.5 wks	\$0.00	\$0.00	\$2,998.20	\$2,998.20	\$599.64	\$899.46	\$4,497.30
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,998.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1721	1.2.2.3.5	Dumpline Vacuum			0	100 wks	\$0.00	\$160,000.00	\$237,387.20	\$397,387.20	\$57,077.44	\$159,062.62	\$613,527.26
1722	1.2.2.3.5.1	Bellows Modules, Purchased	SLAC	M&S	3	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$600.00	\$3,710.00	\$14,310.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1723	1.2.2.3.5.2	Chamber Materials	SLAC	M&S	3	0 wks	\$0.00	\$150,000.00	\$0.00	\$150,000.00	\$9,000.00	\$55,650.00	\$214,650.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>150,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$150,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1724	1.2.2.3.5.3	Chamber Machining	SLAC	B&H	3	48 wks	\$0.00	\$0.00	\$109,440.00	\$109,440.00	\$21,888.00	\$45,964.80	\$177,292.80
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>48 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$109,440.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1725	1.2.2.3.5.4	Chamber QA	SLAC	B&H	3	8 wks	\$0.00	\$0.00	\$40,000.00	\$40,000.00	\$8,000.00	\$16,800.00	\$64,800.00
		<i>SLAC Mech. Fab: Plating & Cleaning</i>		<i>B&H</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$40,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1726	1.2.2.3.5.5	Chamber Plating Cleaning	SLAC	B&H	3	12 wks	\$0.00	\$0.00	\$23,985.60	\$23,985.60	\$4,797.12	\$10,073.95	\$38,856.67
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>12 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$23,985.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1727	1.2.2.3.5.6	Chamber Welding	SLAC	B&H	3	16 wks	\$0.00	\$0.00	\$31,980.80	\$31,980.80	\$6,396.16	\$13,431.94	\$51,808.90
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>16 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$31,980.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1728	1.2.2.3.5.7	Chamber Vac Process	SLAC	B&H	3	16 wks	\$0.00	\$0.00	\$31,980.80	\$31,980.80	\$6,396.16	\$13,431.94	\$51,808.90
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>16 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$31,980.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1729	1.2.2.4	Diagnostics			0	244 wks	\$0.00	\$271,000.00	\$652,573.28	\$923,573.28	\$146,774.66	\$261,214.62	\$1,331,562.56
1730	1.2.2.4.1	Tune-up Dumps			0	24.6 wks	\$0.00	\$15,000.00	\$67,861.20	\$82,861.20	\$14,472.24	\$11,931.70	\$109,265.14
1731	1.2.2.4.1.1	TD Materials	SLAC	M&S	1	0 wks	\$0.00	\$15,000.00	\$0.00	\$15,000.00	\$900.00	\$2,385.00	\$18,285.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>15,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$15,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1732	1.2.2.4.1.2	TD Part Machining	SLAC	B&H	0	12 wks	\$0.00	\$0.00	\$38,400.00	\$38,400.00	\$7,680.00	\$0.00	\$46,080.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>12 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$38,400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1733	1.2.2.4.1.3	TD Parts QA	SLAC	B&H	4	1.8 wks	\$0.00	\$0.00	\$4,104.00	\$4,104.00	\$820.80	\$2,462.40	\$7,387.20
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>1.8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,104.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1734	1.2.2.4.1.4	TD Plating Cleaning	SLAC	B&H	4	1.2 wks	\$0.00	\$0.00	\$6,000.00	\$6,000.00	\$1,200.00	\$3,600.00	\$10,800.00
		<i>SLAC Mech. Fab: Plating & Cleaning</i>		<i>B&H</i>	<i>0</i>	<i>1.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1735	1.2.2.4.1.5	TD Brazing/Welding	SLAC	B&H	1	6 wks	\$0.00	\$0.00	\$11,992.80	\$11,992.80	\$2,398.56	\$2,158.70	\$16,550.06
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,992.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1736	1.2.2.4.1.6	TD Assembly	SLAC	B&H	1	3 wks	\$0.00	\$0.00	\$5,996.40	\$5,996.40	\$1,199.28	\$1,079.35	\$8,275.03
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,996.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1737	1.2.2.4.1.7	TD Fiducialize	SLAC	B&H	1	0.6 wks	\$0.00	\$0.00	\$1,368.00	\$1,368.00	\$273.60	\$246.24	\$1,887.84
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,368.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1738	1.2.2.4.2	Wire Scanners			0	115.5 wks	\$0.00	\$8,000.00	\$320,518.80	\$328,518.80	\$64,583.76	\$98,275.64	\$491,378.20
1739	1.2.2.4.2.1	WS Materials	SLAC	M&S	2	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$480.00	\$2,120.00	\$10,600.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1740	1.2.2.4.2.2	WS Part Machining	SLAC	B&H	2	56 wks	\$0.00	\$0.00	\$179,200.00	\$179,200.00	\$35,840.00	\$53,760.00	\$268,800.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>56 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$179,200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1741	1.2.2.4.2.3	WS Parts QA	SLAC	B&H	2	7 wks	\$0.00	\$0.00	\$15,960.00	\$15,960.00	\$3,192.00	\$4,788.00	\$23,940.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>7 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$15,960.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1742	1.2.2.4.2.4	WS Plating Cleaning	SLAC	B&H	2	7 wks	\$0.00	\$0.00	\$35,000.00	\$35,000.00	\$7,000.00	\$10,500.00	\$52,500.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC Mech. Fab: Plating & Cleaning</i>		<i>B&H</i>	0	7 wks	\$0.00	\$0.00	\$0.00	\$35,000.00	\$0.00	\$0.00	\$0.00
1743	1.2.2.4.2.5	WS Brazing/Welding	SLAC	B&H	2	14 wks	\$0.00	\$0.00	\$27,983.20	\$27,983.20	\$5,596.64	\$8,394.96	\$41,974.80
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	14 wks	\$0.00	\$0.00	\$0.00	\$27,983.20	\$0.00	\$0.00	\$0.00
1744	1.2.2.4.2.6	WS Coating	SLAC	B&H	2	7 wks	\$0.00	\$0.00	\$12,420.80	\$12,420.80	\$2,484.16	\$3,726.24	\$18,631.20
		<i>SLAC Klystron: Technician</i>		<i>B&H</i>	0	7 wks	\$0.00	\$0.00	\$0.00	\$12,420.80	\$0.00	\$0.00	\$0.00
1745	1.2.2.4.2.7	WS Assembly	SLAC	B&H	2	14 wks	\$0.00	\$0.00	\$27,983.20	\$27,983.20	\$5,596.64	\$8,394.96	\$41,974.80
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	14 wks	\$0.00	\$0.00	\$0.00	\$27,983.20	\$0.00	\$0.00	\$0.00
1746	1.2.2.4.2.8	WS Fiducialize	SLAC	B&H	2	3.5 wks	\$0.00	\$0.00	\$7,980.00	\$7,980.00	\$1,596.00	\$2,394.00	\$11,970.00
		<i>SLAC Metrology:Eng. & Surveyors</i>		<i>B&H</i>	0	3.5 wks	\$0.00	\$0.00	\$0.00	\$7,980.00	\$0.00	\$0.00	\$0.00
1747	1.2.2.4.2.9	WS Vac Process	SLAC	B&H	2	7 wks	\$0.00	\$0.00	\$13,991.60	\$13,991.60	\$2,798.32	\$4,197.48	\$20,987.40
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	7 wks	\$0.00	\$0.00	\$0.00	\$13,991.60	\$0.00	\$0.00	\$0.00
1748	1.2.2.4.3	BPMs			0	17.7 wks	\$0.00	\$15,000.00	\$52,692.00	\$67,692.00	\$11,438.40	\$10,960.20	\$90,090.60
1749	1.2.2.4.3.1	BPM Materials	SLAC	M&S	1	0 wks	\$0.00	\$15,000.00	\$0.00	\$15,000.00	\$900.00	\$2,385.00	\$18,285.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	15,000	\$0.00	\$0.00	\$0.00	\$15,000.00	\$0.00	\$0.00	\$0.00
1750	1.2.2.4.3.2	Machining	SLAC	B&H	0	12 wks	\$0.00	\$0.00	\$38,400.00	\$38,400.00	\$7,680.00	\$0.00	\$46,080.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	0	12 wks	\$0.00	\$0.00	\$0.00	\$38,400.00	\$0.00	\$0.00	\$0.00
1751	1.2.2.4.3.3	BPM Assembly	SLAC	B&H	4	4.5 wks	\$0.00	\$0.00	\$10,260.00	\$10,260.00	\$2,052.00	\$6,156.00	\$18,468.00
		<i>SLAC Metrology:Eng. & Surveyors</i>		<i>B&H</i>	0	4.5 wks	\$0.00	\$0.00	\$0.00	\$10,260.00	\$0.00	\$0.00	\$0.00
1752	1.2.2.4.3.4	Procurement, manufacture and assembly supervision	SLAC	ED&I	4	1.2 wks	\$0.00	\$0.00	\$4,032.00	\$4,032.00	\$806.40	\$2,419.20	\$7,257.60
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	0	1.2 wks	\$0.00	\$0.00	\$0.00	\$4,032.00	\$0.00	\$0.00	\$0.00
1753	1.2.2.4.4	Toroids			0	22.4 wks	\$0.00	\$25,000.00	\$55,546.40	\$80,546.40	\$12,609.28	\$23,288.92	\$116,444.60
1754	1.2.2.4.4.1	Toro Materials	SLAC	M&S	2	0 wks	\$0.00	\$25,000.00	\$0.00	\$25,000.00	\$1,500.00	\$6,625.00	\$33,125.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	25,000	\$0.00	\$0.00	\$0.00	\$25,000.00	\$0.00	\$0.00	\$0.00
1755	1.2.2.4.4.2	Toro Part Machining	SLAC	B&H	2	5.6 wks	\$0.00	\$0.00	\$17,920.00	\$17,920.00	\$3,584.00	\$5,376.00	\$26,880.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	0	5.6 wks	\$0.00	\$0.00	\$0.00	\$17,920.00	\$0.00	\$0.00	\$0.00
1756	1.2.2.4.4.3	Toro Parts QA	SLAC	B&H	2	2.8 wks	\$0.00	\$0.00	\$6,384.00	\$6,384.00	\$1,276.80	\$1,915.20	\$9,576.00
		<i>SLAC Metrology:Eng. & Surveyors</i>		<i>B&H</i>	0	2.8 wks	\$0.00	\$0.00	\$0.00	\$6,384.00	\$0.00	\$0.00	\$0.00
1757	1.2.2.4.4.4	Toro Plating Cleaning	SLAC	B&H	2	1.4 wks	\$0.00	\$0.00	\$7,000.00	\$7,000.00	\$1,400.00	\$2,100.00	\$10,500.00
		<i>SLAC Mech. Fab: Plating & Cleaning</i>		<i>B&H</i>	0	1.4 wks	\$0.00	\$0.00	\$0.00	\$7,000.00	\$0.00	\$0.00	\$0.00
1758	1.2.2.4.4.5	Toro Brazing/Welding	SLAC	B&H	2	4.2 wks	\$0.00	\$0.00	\$8,394.96	\$8,394.96	\$1,678.99	\$2,518.49	\$12,592.44
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	4.2 wks	\$0.00	\$0.00	\$0.00	\$8,394.96	\$0.00	\$0.00	\$0.00
1759	1.2.2.4.4.6	Toro Assembly	SLAC	B&H	2	1.4 wks	\$0.00	\$0.00	\$2,798.32	\$2,798.32	\$559.66	\$839.50	\$4,197.48
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	1.4 wks	\$0.00	\$0.00	\$0.00	\$2,798.32	\$0.00	\$0.00	\$0.00
1760	1.2.2.4.4.7	Toro Coating	SLAC	B&H	2	4.2 wks	\$0.00	\$0.00	\$7,452.48	\$7,452.48	\$1,490.50	\$2,235.74	\$11,178.72
		<i>SLAC Klystron: Technician</i>		<i>B&H</i>	0	4.2 wks	\$0.00	\$0.00	\$0.00	\$7,452.48	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
1761	1.2.2.4.4.8	Toro Vac Process	SLAC	B&H	2	2.8 wks	\$0.00	\$0.00	\$5,596.64	\$5,596.64	\$1,119.33	\$1,678.99	\$8,394.96
		SLAC Mech. Fab: Assembly Tech		B&H	0	2.8 wks	\$0.00	\$0.00	\$0.00	\$5,596.64	\$0.00	\$0.00	\$0.00
1762	1.2.2.4.5	Profile Monitor			0	14.4 wks	\$0.00	\$24,000.00	\$44,351.04	\$68,351.04	\$10,310.21	\$27,531.44	\$106,192.68
1763	1.2.2.4.5.1	Prof Materials	SLAC	M&S	3	0 wks	\$0.00	\$24,000.00	\$0.00	\$24,000.00	\$1,440.00	\$8,904.00	\$34,344.00
		SLAC M&S Total		M&S	0	24,000	\$0.00	\$0.00	\$0.00	\$24,000.00	\$0.00	\$0.00	\$0.00
1764	1.2.2.4.5.2	Prof Part Machining	SLAC	B&H	3	6.4 wks	\$0.00	\$0.00	\$20,480.00	\$20,480.00	\$4,096.00	\$8,601.60	\$33,177.60
		SLAC Mech. Fab: Machine Shop		B&H	0	6.4 wks	\$0.00	\$0.00	\$0.00	\$20,480.00	\$0.00	\$0.00	\$0.00
1765	1.2.2.4.5.3	Prof Parts QA	SLAC	B&H	3	1.6 wks	\$0.00	\$0.00	\$3,648.00	\$3,648.00	\$729.60	\$1,532.16	\$5,909.76
		SLAC Metrology:Eng.& Surveyors		B&H	0	1.6 wks	\$0.00	\$0.00	\$0.00	\$3,648.00	\$0.00	\$0.00	\$0.00
1766	1.2.2.4.5.4	Prof Plating Cleaning	SLAC	B&H	3	0.8 wks	\$0.00	\$0.00	\$4,000.00	\$4,000.00	\$800.00	\$1,680.00	\$6,480.00
		SLAC Mech. Fab: Plating & Cleaning		B&H	0	0.8 wks	\$0.00	\$0.00	\$0.00	\$4,000.00	\$0.00	\$0.00	\$0.00
1767	1.2.2.4.5.5	Prof Brazing/Welding	SLAC	B&H	3	2.4 wks	\$0.00	\$0.00	\$7,680.00	\$7,680.00	\$1,536.00	\$3,225.60	\$12,441.60
		SLAC Mech. Fab: Machine Shop		B&H	0	2.4 wks	\$0.00	\$0.00	\$0.00	\$7,680.00	\$0.00	\$0.00	\$0.00
1768	1.2.2.4.5.6	Prof Assembly	SLAC	B&H	3	1.6 wks	\$0.00	\$0.00	\$5,120.00	\$5,120.00	\$1,024.00	\$2,150.40	\$8,294.40
		SLAC Mech. Fab: Machine Shop		B&H	0	1.6 wks	\$0.00	\$0.00	\$0.00	\$5,120.00	\$0.00	\$0.00	\$0.00
1769	1.2.2.4.5.7	WS Fiducialize	SLAC	B&H	3	0.8 wks	\$0.00	\$0.00	\$1,824.00	\$1,824.00	\$364.80	\$766.08	\$2,954.88
		SLAC Metrology:Eng.& Surveyors		B&H	0	0.8 wks	\$0.00	\$0.00	\$0.00	\$1,824.00	\$0.00	\$0.00	\$0.00
1770	1.2.2.4.5.8	Prof Vac Process	SLAC	B&H	3	0.8 wks	\$0.00	\$0.00	\$1,599.04	\$1,599.04	\$319.81	\$671.60	\$2,590.44
		SLAC Mech. Fab: Assembly Tech		B&H	0	0.8 wks	\$0.00	\$0.00	\$0.00	\$1,599.04	\$0.00	\$0.00	\$0.00
1771	1.2.2.4.6	E-O Diagnostics			0	28.4 wks	\$0.00	\$154,000.00	\$65,013.12	\$219,013.12	\$22,242.62	\$67,299.51	\$308,555.25
1772	1.2.2.4.6.1	E-O Physics	SLAC	ED&I	2	2 wks	\$0.00	\$0.00	\$6,800.00	\$6,800.00	\$1,360.00	\$2,040.00	\$10,200.00
		SLAC Physicist -Scientist		ED&I	0	2 wks	\$0.00	\$0.00	\$0.00	\$6,800.00	\$0.00	\$0.00	\$0.00
1773	1.2.2.4.6.2	E-O Optics	SLAC	M&S	2	0 wks	\$0.00	\$47,000.00	\$0.00	\$47,000.00	\$2,820.00	\$12,455.00	\$62,275.00
		SLAC M&S Total		M&S	0	47,000	\$0.00	\$0.00	\$0.00	\$47,000.00	\$0.00	\$0.00	\$0.00
1774	1.2.2.4.6.3	E-O Instruments	SLAC	M&S	2	0 wks	\$0.00	\$76,000.00	\$0.00	\$76,000.00	\$4,560.00	\$20,140.00	\$100,700.00
		SLAC M&S Total		M&S	0	76,000	\$0.00	\$0.00	\$0.00	\$76,000.00	\$0.00	\$0.00	\$0.00
1775	1.2.2.4.6.4	E-O Vacuum	SLAC	M&S	2	0 wks	\$0.00	\$31,000.00	\$0.00	\$31,000.00	\$1,860.00	\$8,215.00	\$41,075.00
		SLAC M&S Total		M&S	0	31,000	\$0.00	\$0.00	\$0.00	\$31,000.00	\$0.00	\$0.00	\$0.00
1776	1.2.2.4.6.5	E-O Assembly	SLAC	B&H	3	22.4 wks	\$0.00	\$0.00	\$44,773.12	\$44,773.12	\$8,954.62	\$18,804.71	\$72,532.45
		SLAC Mech. Fab: Assembly Tech		B&H	0	22.4 wks	\$0.00	\$0.00	\$0.00	\$44,773.12	\$0.00	\$0.00	\$0.00
1777	1.2.2.4.6.6	Proc., Man. & Assembly Supervision	SLAC	ED&I	3	4 wks	\$0.00	\$0.00	\$13,440.00	\$13,440.00	\$2,688.00	\$5,644.80	\$21,772.80
		SLAC AD: Mech/Vacuum Engineer		ED&I	0	4 wks	\$0.00	\$0.00	\$0.00	\$13,440.00	\$0.00	\$0.00	\$0.00
1778	1.2.2.4.7	Bunch Length Mon			0	21 wks	\$0.00	\$30,000.00	\$46,590.72	\$76,590.72	\$11,118.14	\$21,927.22	\$109,636.08
1779	1.2.2.4.7.1	BL Materials	SLAC	M&S	2	0 wks	\$0.00	\$30,000.00	\$0.00	\$30,000.00	\$1,800.00	\$7,950.00	\$39,750.00
		SLAC M&S Total		M&S	0	30,000	\$0.00	\$0.00	\$0.00	\$30,000.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
1780	1.2.2.4.7.2	BL Part Marching	SLAC	B&H	2	3 wks	\$0.00	\$0.00	\$9,600.00	\$9,600.00	\$1,920.00	\$2,880.00	\$14,400.00
		SLAC Mech. Fab: Machine Shop		B&H	0	3 wks	\$0.00	\$0.00	\$0.00	\$9,600.00	\$0.00	\$0.00	\$0.00
1781	1.2.2.4.7.3	BL Parts QA	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$4,560.00	\$4,560.00	\$912.00	\$1,368.00	\$6,840.00
		SLAC Metrology:Eng.& Surveyors		B&H	0	2 wks	\$0.00	\$0.00	\$0.00	\$4,560.00	\$0.00	\$0.00	\$0.00
1782	1.2.2.4.7.4	BL Assembly	SLAC	B&H	2	12 wks	\$0.00	\$0.00	\$23,985.60	\$23,985.60	\$4,797.12	\$7,195.68	\$35,978.40
		SLAC Mech. Fab: Assembly Tech		B&H	0	12 wks	\$0.00	\$0.00	\$0.00	\$23,985.60	\$0.00	\$0.00	\$0.00
1783	1.2.2.4.7.5	BL Fiducialize	SLAC	B&H	2	1.6 wks	\$0.00	\$0.00	\$3,648.00	\$3,648.00	\$729.60	\$1,094.40	\$5,472.00
		SLAC Metrology:Eng.& Surveyors		B&H	0	1.6 wks	\$0.00	\$0.00	\$0.00	\$3,648.00	\$0.00	\$0.00	\$0.00
1784	1.2.2.4.7.6	BL Vac Process	SLAC	B&H	2	2.4 wks	\$0.00	\$0.00	\$4,797.12	\$4,797.12	\$959.42	\$1,439.14	\$7,195.68
		SLAC Mech. Fab: Assembly Tech		B&H	0	2.4 wks	\$0.00	\$0.00	\$0.00	\$4,797.12	\$0.00	\$0.00	\$0.00
1785	1.2.2.5	Power Conversion			0	462.6 wks	\$0.00	\$1,361,100.00	\$1,068,056.00	\$2,429,156.00	\$295,277.20	\$369,522.20	\$3,093,955.40
1786	1.2.2.5.1	New Power Supplies			0	199 wks	\$0.00	\$729,000.00	\$416,424.00	\$1,145,424.00	\$127,024.80	\$318,112.20	\$1,590,561.00
1787	1.2.2.5.1.1	B11-14 (30 KW)	SLAC	M&S	2	0 wks	\$0.00	\$13,000.00	\$0.00	\$13,000.00	\$780.00	\$3,445.00	\$17,225.00
		SLAC M&S Total		M&S	0	13,000	\$0.00	\$0.00	\$0.00	\$13,000.00	\$0.00	\$0.00	\$0.00
1788	1.2.2.5.1.2	QM14 (1 KW)	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
1789	1.2.2.5.1.3	QM15 (1 KW)	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
1790	1.2.2.5.1.4	Sec-23 (2KW)	SLAC	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$1,325.00	\$6,625.00
		SLAC M&S Total		M&S	0	5,000	\$0.00	\$0.00	\$0.00	\$5,000.00	\$0.00	\$0.00	\$0.00
1791	1.2.2.5.1.5	Sec-24 (2 KW)	SLAC	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$1,325.00	\$6,625.00
		SLAC M&S Total		M&S	0	5,000	\$0.00	\$0.00	\$0.00	\$5,000.00	\$0.00	\$0.00	\$0.00
1792	1.2.2.5.1.6	Q24701 (10KW)	SLAC	M&S	2	0 wks	\$0.00	\$33,000.00	\$0.00	\$33,000.00	\$1,980.00	\$8,745.00	\$43,725.00
		SLAC M&S Total		M&S	0	33,000	\$0.00	\$0.00	\$0.00	\$33,000.00	\$0.00	\$0.00	\$0.00
1793	1.2.2.5.1.7	Wiggler (50KW)	SLAC	M&S	2	0 wks	\$0.00	\$25,000.00	\$0.00	\$25,000.00	\$1,500.00	\$6,625.00	\$33,125.00
		SLAC M&S Total		M&S	0	25,000	\$0.00	\$0.00	\$0.00	\$25,000.00	\$0.00	\$0.00	\$0.00
1794	1.2.2.5.1.8	QM21 (10 KW)	SLAC	M&S	2	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$420.00	\$1,855.00	\$9,275.00
		SLAC M&S Total		M&S	0	7,000	\$0.00	\$0.00	\$0.00	\$7,000.00	\$0.00	\$0.00	\$0.00
1795	1.2.2.5.1.9	B21-26 (90 KW)	SLAC	M&S	2	0 wks	\$0.00	\$45,000.00	\$0.00	\$45,000.00	\$2,700.00	\$11,925.00	\$59,625.00
		SLAC M&S Total		M&S	0	45,000	\$0.00	\$0.00	\$0.00	\$45,000.00	\$0.00	\$0.00	\$0.00
1796	1.2.2.5.1.10	QM22 (10 KW)	SLAC	M&S	2	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$420.00	\$1,855.00	\$9,275.00
		SLAC M&S Total		M&S	0	7,000	\$0.00	\$0.00	\$0.00	\$7,000.00	\$0.00	\$0.00	\$0.00
1797	1.2.2.5.1.11	Q24901 (10 KW)	SLAC	M&S	2	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$420.00	\$1,855.00	\$9,275.00
		SLAC M&S Total		M&S	0	7,000	\$0.00	\$0.00	\$0.00	\$7,000.00	\$0.00	\$0.00	\$0.00
1798	1.2.2.5.1.12	Sec-25 (2 KW)	SLAC	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$1,325.00	\$6,625.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1799	1.2.2.5.1.13	Sec-26 (2 KW)	SLAC	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$1,325.00	\$6,625.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1800	1.2.2.5.1.14	Sec-27 (2 KW)	SLAC	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$1,325.00	\$6,625.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1801	1.2.2.5.1.15	Sec-28 (2 KW)	SLAC	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$1,325.00	\$6,625.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1802	1.2.2.5.1.16	Sec-29 (2 KW)	SLAC	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$1,325.00	\$6,625.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1803	1.2.2.5.1.17	B31-34 (78 KW)	SLAC	M&S	2	0 wks	\$0.00	\$60,000.00	\$0.00	\$60,000.00	\$3,600.00	\$15,900.00	\$79,500.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>60,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$60,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1804	1.2.2.5.1.18	QL31,3,7,9 (90 KW)	SLAC	M&S	2	0 wks	\$0.00	\$75,000.00	\$0.00	\$75,000.00	\$4,500.00	\$19,875.00	\$99,375.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>75,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$75,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1805	1.2.2.5.1.19	QL32,8 (45 KW)	SLAC	M&S	2	0 wks	\$0.00	\$22,000.00	\$0.00	\$22,000.00	\$1,320.00	\$5,830.00	\$29,150.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>22,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$22,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1806	1.2.2.5.1.20	QL34,6 (45 KW)	SLAC	M&S	2	0 wks	\$0.00	\$22,000.00	\$0.00	\$22,000.00	\$1,320.00	\$5,830.00	\$29,150.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>22,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$22,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1807	1.2.2.5.1.21	QL35 (10 KW)	SLAC	M&S	2	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$420.00	\$1,855.00	\$9,275.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>7,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1808	1.2.2.5.1.22	QM31 (10 KW)	SLAC	M&S	2	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$420.00	\$1,855.00	\$9,275.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>7,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1809	1.2.2.5.1.23	QM32 (10 KW)	SLAC	M&S	2	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$420.00	\$1,855.00	\$9,275.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>7,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1810	1.2.2.5.1.24	VB1/2 (90 KW)	SLAC	M&S	2	0 wks	\$0.00	\$75,000.00	\$0.00	\$75,000.00	\$4,500.00	\$19,875.00	\$99,375.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>75,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$75,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1811	1.2.2.5.1.25	QVB1,2,3,4 (90 KW)	SLAC	M&S	2	0 wks	\$0.00	\$75,000.00	\$0.00	\$75,000.00	\$4,500.00	\$19,875.00	\$99,375.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>75,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$75,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1812	1.2.2.5.1.26	QM33 (10 KW)	SLAC	M&S	2	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$420.00	\$1,855.00	\$9,275.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>7,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1813	1.2.2.5.1.27	QM34 (10 KW)	SLAC	M&S	2	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$420.00	\$1,855.00	\$9,275.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>7,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1814	1.2.2.5.1.28	QE31-6 (15 KW)	SLAC	M&S	2	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$420.00	\$1,855.00	\$9,275.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>7,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1815	1.2.2.5.1.29	QM35 (10 KW)	SLAC	M&S	2	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$420.00	\$1,855.00	\$9,275.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>7,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
1816	1.2.2.5.1.30	QM36 (10 KW)	SLAC	M&S	2	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$420.00	\$1,855.00	\$9,275.00
		SLAC M&S Total		M&S	0	7,000	\$0.00	\$0.00	\$0.00	\$7,000.00	\$0.00	\$0.00	\$0.00
1817	1.2.2.5.1.31	QM37 (10 KW)	SLAC	M&S	2	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$420.00	\$1,855.00	\$9,275.00
		SLAC M&S Total		M&S	0	7,000	\$0.00	\$0.00	\$0.00	\$7,000.00	\$0.00	\$0.00	\$0.00
1818	1.2.2.5.1.32	QM38 (10 KW)	SLAC	M&S	2	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$420.00	\$1,855.00	\$9,275.00
		SLAC M&S Total		M&S	0	7,000	\$0.00	\$0.00	\$0.00	\$7,000.00	\$0.00	\$0.00	\$0.00
1819	1.2.2.5.1.33	QA11	SLAC	M&S	2	0 wks	\$0.00	\$18,000.00	\$0.00	\$18,000.00	\$1,080.00	\$4,770.00	\$23,850.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
1820	1.2.2.5.1.34	HA11	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
1821	1.2.2.5.1.35	VA11	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
1822	1.2.2.5.1.36	QA12	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
1823	1.2.2.5.1.37	HA12	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
1824	1.2.2.5.1.38	VA12	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
1825	1.2.2.5.1.39	V21201	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
1826	1.2.2.5.1.40	QM11	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
1827	1.2.2.5.1.41	HM11	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
1828	1.2.2.5.1.42	CQ11	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
1829	1.2.2.5.1.43	HS11	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
1830	1.2.2.5.1.44	VS11	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
1831	1.2.2.5.1.45	CQ12	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
1832	1.2.2.5.1.46	QM12	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
1833	1.2.2.5.1.47	VM12	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1834	1.2.2.5.1.48	QM13	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1835	1.2.2.5.1.49	HM13	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1836	1.2.2.5.1.50	HM14	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1837	1.2.2.5.1.51	VM15	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1838	1.2.2.5.1.52	CQ21	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1839	1.2.2.5.1.53	HS21	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1840	1.2.2.5.1.54	VS11	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1841	1.2.2.5.1.55	CQ22	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1842	1.2.2.5.1.56	V5	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1843	1.2.2.5.1.57	H5	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1844	1.2.2.5.1.58	H0	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1845	1.2.2.5.1.59	VDL2	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1846	1.2.2.5.1.60	HDL2	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1847	1.2.2.5.1.61	VL31	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1848	1.2.2.5.1.62	HL32	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1849	1.2.2.5.1.63	VL33	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1850	1.2.2.5.1.64	HL34	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
1851	1.2.2.5.1.65	VL35	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
1852	1.2.2.5.1.66	HL36	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
1853	1.2.2.5.1.67	VL37	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
1854	1.2.2.5.1.68	HL38	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
1855	1.2.2.5.1.69	VL39	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
1856	1.2.2.5.1.70	HM31	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
1857	1.2.2.5.1.71	VM32	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
1858	1.2.2.5.1.72	HVB1	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
1859	1.2.2.5.1.73	VVB	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
1860	1.2.2.5.1.74	HVB2	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
1861	1.2.2.5.1.75	VM33	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
1862	1.2.2.5.1.76	HM34	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
1863	1.2.2.5.1.77	VE31	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
1864	1.2.2.5.1.78	HE32	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
1865	1.2.2.5.1.79	VE33	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
1866	1.2.2.5.1.80	HE34	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
1867	1.2.2.5.1.81	VE35	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
1868	1.2.2.5.1.82	HE36	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1869	1.2.2.5.1.83	HM35	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1870	1.2.2.5.1.84	VM36	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1871	1.2.2.5.1.85	HM37	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1872	1.2.2.5.1.86	HM38	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1873	1.2.2.5.1.87	VM38	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1874	1.2.2.5.1.88	MCOR Bukk	SLAC	M&S	2	0 wks	\$0.00	\$28,000.00	\$0.00	\$28,000.00	\$1,680.00	\$7,420.00	\$37,100.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>28,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$28,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1875	1.2.2.5.1.89	New Power Supplies			0	199 wks	\$0.00	\$0.00	\$416,424.00	\$416,424.00	\$83,284.80	\$124,927.20	\$624,636.00
1876	1.2.2.5.1.89	New Power Supplies	SLAC	ED&I	2	35 wks	\$0.00	\$0.00	\$105,000.00	\$105,000.00	\$21,000.00	\$31,500.00	\$157,500.00
		<i>SLAC PCD:Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>35 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$105,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1877	1.2.2.5.1.89	New Power Supplies	SLAC	B&H	2	40 wks	\$0.00	\$0.00	\$70,144.00	\$70,144.00	\$14,028.80	\$21,043.20	\$105,216.00
		<i>SLAC PCD:Technician</i>		<i>B&H</i>	<i>0</i>	<i>40 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$70,144.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1878	1.2.2.5.1.89	New Power Supplies	SLAC	B&H	2	40 wks	\$0.00	\$0.00	\$80,000.00	\$80,000.00	\$16,000.00	\$24,000.00	\$120,000.00
		<i>SLACL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>40 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$80,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1879	1.2.2.5.1.89	System Dwg (EI, WD, Profile,	SLAC	ED&I	2	84 wks	\$0.00	\$0.00	\$161,280.00	\$161,280.00	\$32,256.00	\$48,384.00	\$241,920.00
		<i>SLAC PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>84 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$161,280.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1880	1.2.2.5.2	Cntrls/Transducers/Switches			0	0 wks	\$0.00	\$194,000.00	\$0.00	\$194,000.00	\$11,640.00	\$51,410.00	\$257,050.00
1881	1.2.2.5.2.1	MCOR Chassis	SLAC	M&S	2	0 wks	\$0.00	\$28,000.00	\$0.00	\$28,000.00	\$1,680.00	\$7,420.00	\$37,100.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>28,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$28,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1882	1.2.2.5.2.2	Large PS Controller	SLAC	M&S	2	0 wks	\$0.00	\$56,000.00	\$0.00	\$56,000.00	\$3,360.00	\$14,840.00	\$74,200.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>56,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$56,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1883	1.2.2.5.2.3	Klixon/Run Safe Box	SLAC	M&S	2	0 wks	\$0.00	\$47,000.00	\$0.00	\$47,000.00	\$2,820.00	\$12,455.00	\$62,275.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>47,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$47,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1884	1.2.2.5.2.4	300 A Transductor	SLAC	M&S	2	0 wks	\$0.00	\$35,000.00	\$0.00	\$35,000.00	\$2,100.00	\$9,275.00	\$46,375.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>35,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1885	1.2.2.5.2.5	600 A Transductor	SLAC	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$1,060.00	\$5,300.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1886	1.2.2.5.2.6	1000 A Transductor	SLAC	M&S	2	0 wks	\$0.00	\$24,000.00	\$0.00	\$24,000.00	\$1,440.00	\$6,360.00	\$31,800.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>24,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$24,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
1887	1.2.2.5.3	Racks, cables, trays			0	263.6 wks	\$0.00	\$438,100.00	\$651,632.00	\$1,089,732.00	\$156,612.40	\$0.00	\$1,246,344.40
1888	1.2.2.5.3.1	Rack, Single Bay (DC and I&C)	SLAC	M&S	0	0 wks	\$0.00	\$42,000.00	\$0.00	\$42,000.00	\$2,520.00	\$0.00	\$44,520.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>42,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$42,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1889	1.2.2.5.3.2	Rack, Double bay	SLAC	M&S	0	0 wks	\$0.00	\$45,000.00	\$0.00	\$45,000.00	\$2,700.00	\$0.00	\$47,700.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>45,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$45,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1890	1.2.2.5.3.3	AC Pwr to rack, AC Distr Pnl, Safety Cover, CBs (DC and I&C)	SLAC	M&S	0	0 wks	\$0.00	\$55,000.00	\$0.00	\$55,000.00	\$3,300.00	\$0.00	\$58,300.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>55,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$55,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1891	1.2.2.5.3.4	Earthquake racks (DC and I&C)	SLAC	M&S	0	0 wks	\$0.00	\$2,200.00	\$0.00	\$2,200.00	\$132.00	\$0.00	\$2,332.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,200</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1892	1.2.2.5.3.5	20A 2P Latching NR Contactor (DC and I&C)	SLAC	M&S	0	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$0.00	\$6,360.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1893	1.2.2.5.3.6	200A 2P Latching NR Contactor (DC and I&C)	SLAC	M&S	0	0 wks	\$0.00	\$42,000.00	\$0.00	\$42,000.00	\$2,520.00	\$0.00	\$44,520.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>42,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$42,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1894	1.2.2.5.3.7	20 - 200A Contactor Control (DC and I&C)	SLAC	M&S	0	0 wks	\$0.00	\$18,000.00	\$0.00	\$18,000.00	\$1,080.00	\$0.00	\$19,080.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>18,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$18,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1895	1.2.2.5.3.7	Corr, Low power Trims, Bipolar	SLAC	M&S	0	0 wks	\$0.00	\$4,500.00	\$0.00	\$4,500.00	\$270.00	\$0.00	\$4,770.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,500</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,500.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1896	1.2.2.5.3.8	2/C#18AWG Interlock	SLAC	M&S	0	0 wks	\$0.00	\$1,800.00	\$0.00	\$1,800.00	\$108.00	\$0.00	\$1,908.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,800</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1897	1.2.2.5.3.9	2/C#10AWG	SLAC	M&S	0	0 wks	\$0.00	\$600.00	\$0.00	\$600.00	\$36.00	\$0.00	\$636.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>600</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1898	1.2.2.5.3.10	1-2/C#8 AWG	SLAC	M&S	0	0 wks	\$0.00	\$10,400.00	\$0.00	\$10,400.00	\$624.00	\$0.00	\$11,024.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,400</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1899	1.2.2.5.3.11	1/C#2/0 AWG	SLAC	M&S	0	0 wks	\$0.00	\$3,900.00	\$0.00	\$3,900.00	\$234.00	\$0.00	\$4,134.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,900</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,900.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1900	1.2.2.5.3.12	1/C#4/0AWG	SLAC	M&S	0	0 wks	\$0.00	\$11,900.00	\$0.00	\$11,900.00	\$714.00	\$0.00	\$12,614.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>11,900</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,900.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1901	1.2.2.5.3.13	1/C#300kcmil	SLAC	M&S	0	0 wks	\$0.00	\$21,000.00	\$0.00	\$21,000.00	\$1,260.00	\$0.00	\$22,260.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>21,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$21,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1902	1.2.2.5.3.14	1/C#500kcmil	SLAC	M&S	0	0 wks	\$0.00	\$2,700.00	\$0.00	\$2,700.00	\$162.00	\$0.00	\$2,862.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,700</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,700.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1903	1.2.2.5.3.15	1/C#600kcmil	SLAC	M&S	0	0 wks	\$0.00	\$21,100.00	\$0.00	\$21,100.00	\$1,266.00	\$0.00	\$22,366.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>21,100</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$21,100.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1904	1.2.2.5.3.16	Cable lugs, Splices, Etc	SLAC	M&S	0	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$0.00	\$4,240.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
1905	1.2.2.5.3.17	18"W 4"D G Stl Cable Tray (DC and I&C)	SLAC	M&S	0	0 wks	\$0.00	\$45,600.00	\$0.00	\$45,600.00	\$2,736.00	\$0.00	\$48,336.00
		SLAC M&S Total		M&S	0	45,600	\$0.00	\$0.00	\$0.00	\$45,600.00	\$0.00	\$0.00	\$0.00
1906	1.2.2.5.3.18	Cable Tray Fittings (DC and I&C)	SLAC	M&S	0	0 wks	\$0.00	\$48,000.00	\$0.00	\$48,000.00	\$2,880.00	\$0.00	\$50,880.00
		SLAC M&S Total		M&S	0	48,000	\$0.00	\$0.00	\$0.00	\$48,000.00	\$0.00	\$0.00	\$0.00
1907	1.2.2.5.3.19	Trapeze Cable Tray Supports (DC and I&C)	SLAC	M&S	0	0 wks	\$0.00	\$35,000.00	\$0.00	\$35,000.00	\$2,100.00	\$0.00	\$37,100.00
		SLAC M&S Total		M&S	0	35,000	\$0.00	\$0.00	\$0.00	\$35,000.00	\$0.00	\$0.00	\$0.00
1908	1.2.2.5.3.20	Cable Tray Grounding (DC and I&C,\$1.8/ft)	SLAC	M&S	0	0 wks	\$0.00	\$8,600.00	\$0.00	\$8,600.00	\$516.00	\$0.00	\$9,116.00
		SLAC M&S Total		M&S	0	8,600	\$0.00	\$0.00	\$0.00	\$8,600.00	\$0.00	\$0.00	\$0.00
1909	1.2.2.5.3.21	Gnd Jumpers (DC and I&C)	SLAC	M&S	0	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$0.00	\$6,360.00
		SLAC M&S Total		M&S	0	6,000	\$0.00	\$0.00	\$0.00	\$6,000.00	\$0.00	\$0.00	\$0.00
1910	1.2.2.5.3.22	Conduits for Linac penetrations, 4"ID	SLAC	M&S	0	0 wks	\$0.00	\$2,800.00	\$0.00	\$2,800.00	\$168.00	\$0.00	\$2,968.00
		SLAC M&S Total		M&S	0	2,800	\$0.00	\$0.00	\$0.00	\$2,800.00	\$0.00	\$0.00	\$0.00
1911	1.2.2.5.3.1	Rack, Single Bay (DC and I&C)	SLAC	B&H	0	2.5 wks	\$0.00	\$0.00	\$6,800.00	\$6,800.00	\$1,360.00	\$0.00	\$8,160.00
		SLAC T&M Crafts - Union Electrician		B&H	0	2.5 wks	\$0.00	\$0.00	\$0.00	\$6,800.00	\$0.00	\$0.00	\$0.00
1912	1.2.2.5.3.2	Rack, Double bay	SLAC	B&H	0	4.3 wks	\$0.00	\$0.00	\$11,696.00	\$11,696.00	\$2,339.20	\$0.00	\$14,035.20
		SLAC T&M Crafts - Union Electrician		B&H	0	4.3 wks	\$0.00	\$0.00	\$0.00	\$11,696.00	\$0.00	\$0.00	\$0.00
1913	1.2.2.5.3.3	AC Pwr to rack, AC Distr Pnl, Safety Cover, CBs (DC and I&C)	SLAC	B&H	0	6.9 wks	\$0.00	\$0.00	\$18,768.00	\$18,768.00	\$3,753.60	\$0.00	\$22,521.60
		SLAC T&M Crafts - Union Electrician		B&H	0	6.9 wks	\$0.00	\$0.00	\$0.00	\$18,768.00	\$0.00	\$0.00	\$0.00
1914	1.2.2.5.3.4	Earthquake racks (DC and I&C)	SLAC	B&H	0	1.5 wks	\$0.00	\$0.00	\$4,080.00	\$4,080.00	\$816.00	\$0.00	\$4,896.00
		SLAC T&M Crafts - Union Electrician		B&H	0	1.5 wks	\$0.00	\$0.00	\$0.00	\$4,080.00	\$0.00	\$0.00	\$0.00
1915	1.2.2.5.3.5	20A 2P Latching NR Contactor (DC and I&C)	SLAC	B&H	0	1 wk	\$0.00	\$0.00	\$2,720.00	\$2,720.00	\$544.00	\$0.00	\$3,264.00
		SLAC T&M Crafts - Union Electrician		B&H	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,720.00	\$0.00	\$0.00	\$0.00
1916	1.2.2.5.3.6	200A 2P Latching NR Contactor (DC and I&C)	SLAC	B&H	0	2.3 wks	\$0.00	\$0.00	\$6,256.00	\$6,256.00	\$1,251.20	\$0.00	\$7,507.20
		SLAC T&M Crafts - Union Electrician		B&H	0	2.3 wks	\$0.00	\$0.00	\$0.00	\$6,256.00	\$0.00	\$0.00	\$0.00
1917	1.2.2.5.3.7	20 - 200A Contactor Control (DC and I&C)	SLAC	B&H	0	1.5 wks	\$0.00	\$0.00	\$4,080.00	\$4,080.00	\$816.00	\$0.00	\$4,896.00
		SLAC T&M Crafts - Union Electrician		B&H	0	1.5 wks	\$0.00	\$0.00	\$0.00	\$4,080.00	\$0.00	\$0.00	\$0.00
1918	1.2.2.5.3.7	Corr, Low power Trims, Bipolar	SLAC	B&H	0	1.5 wks	\$0.00	\$0.00	\$4,080.00	\$4,080.00	\$816.00	\$0.00	\$4,896.00
		SLAC T&M Crafts - Union Electrician		B&H	0	1.5 wks	\$0.00	\$0.00	\$0.00	\$4,080.00	\$0.00	\$0.00	\$0.00
1919	1.2.2.5.3.8	2/C#18AWG Interlock	SLAC	B&H	0	2.5 wks	\$0.00	\$0.00	\$6,800.00	\$6,800.00	\$1,360.00	\$0.00	\$8,160.00
		SLAC T&M Crafts - Union Electrician		B&H	0	2.5 wks	\$0.00	\$0.00	\$0.00	\$6,800.00	\$0.00	\$0.00	\$0.00
1920	1.2.2.5.3.9	2/C#10AWG	SLAC	B&H	0	2 wks	\$0.00	\$0.00	\$5,440.00	\$5,440.00	\$1,088.00	\$0.00	\$6,528.00
		SLAC T&M Crafts - Union Electrician		B&H	0	2 wks	\$0.00	\$0.00	\$0.00	\$5,440.00	\$0.00	\$0.00	\$0.00
1921	1.2.2.5.3.10	1-2/C#8 AWG	SLAC	B&H	0	0.6 wks	\$0.00	\$0.00	\$1,632.00	\$1,632.00	\$326.40	\$0.00	\$1,958.40
		SLAC T&M Crafts - Union Electrician		B&H	0	0.6 wks	\$0.00	\$0.00	\$0.00	\$1,632.00	\$0.00	\$0.00	\$0.00
1922	1.2.2.5.3.11	1/C#2/0 AWG	SLAC	B&H	0	11.6 wks	\$0.00	\$0.00	\$31,552.00	\$31,552.00	\$6,310.40	\$0.00	\$37,862.40

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>11.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$31,552.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1923	1.2.2.5.3.12	1/C#4/0AWG	SLAC	B&H	0	2.8 wks	\$0.00	\$0.00	\$7,616.00	\$7,616.00	\$1,523.20	\$0.00	\$9,139.20
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>2.8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,616.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1924	1.2.2.5.3.13	1/C#300kcmil	SLAC	B&H	0	5.6 wks	\$0.00	\$0.00	\$15,232.00	\$15,232.00	\$3,046.40	\$0.00	\$18,278.40
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>5.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$15,232.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1925	1.2.2.5.3.14	1/C#500kcmil	SLAC	B&H	0	6.7 wks	\$0.00	\$0.00	\$18,224.00	\$18,224.00	\$3,644.80	\$0.00	\$21,868.80
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>6.7 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$18,224.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1926	1.2.2.5.3.15	1/C#600kcmil	SLAC	B&H	0	0.9 wks	\$0.00	\$0.00	\$2,448.00	\$2,448.00	\$489.60	\$0.00	\$2,937.60
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>0.9 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,448.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1927	1.2.2.5.3.16	Cable lugs, Splices, Etc	SLAC	B&H	0	7.3 wks	\$0.00	\$0.00	\$19,856.00	\$19,856.00	\$3,971.20	\$0.00	\$23,827.20
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>7.3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$19,856.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1928	1.2.2.5.3.17	18"W 4"D G Stl Cable Tray (DC and I&C)	SLAC	B&H	0	3.5 wks	\$0.00	\$0.00	\$9,520.00	\$9,520.00	\$1,904.00	\$0.00	\$11,424.00
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>3.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1929	1.2.2.5.3.18	Cable Tray Fittings (DC and I&C)	SLAC	B&H	0	8.9 wks	\$0.00	\$0.00	\$24,208.00	\$24,208.00	\$4,841.60	\$0.00	\$29,049.60
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>8.9 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$24,208.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1930	1.2.2.5.3.19	Trapeze Cable Tray Supports (DC and I&C)	SLAC	B&H	0	18.8 wks	\$0.00	\$0.00	\$51,136.00	\$51,136.00	\$10,227.20	\$0.00	\$61,363.20
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>18.8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$51,136.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1931	1.2.2.5.3.20	Cable Tray Grounding (DC and I&C,\$1.8/ft)	SLAC	B&H	0	3.2 wks	\$0.00	\$0.00	\$8,704.00	\$8,704.00	\$1,740.80	\$0.00	\$10,444.80
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>3.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,704.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1932	1.2.2.5.3.21	Gnd Jumpers (DC and I&C)	SLAC	B&H	0	4 wks	\$0.00	\$0.00	\$10,880.00	\$10,880.00	\$2,176.00	\$0.00	\$13,056.00
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,880.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1933	1.2.2.5.3.22	Conduits for Linac penetrations, 4"ID	SLAC	B&H	0	3.7 wks	\$0.00	\$0.00	\$10,064.00	\$10,064.00	\$2,012.80	\$0.00	\$12,076.80
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>3.7 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,064.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1934	1.2.2.5.3.23	Area Layouts/Raceways/Supports (Cable Plant, DC and I&C)	SLAC	ED&I	0	58 wks	\$0.00	\$0.00	\$174,000.00	\$174,000.00	\$34,800.00	\$0.00	\$208,800.00
		<i>SLAC PCD:Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>58 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$174,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1935	1.2.2.5.3.24	Corordination/UTR&Engr(C. Plant Group, DC and I&C)	SLAC	ED&I	0	82 wks	\$0.00	\$0.00	\$157,440.00	\$157,440.00	\$31,488.00	\$0.00	\$188,928.00
		<i>SLAC PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>82 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$157,440.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1936	1.2.2.5.3.25	CAPTAR Documentation (DC and I&C)	SLAC	ED&I	0	20 wks	\$0.00	\$0.00	\$38,400.00	\$38,400.00	\$7,680.00	\$0.00	\$46,080.00
		<i>SLAC PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>20 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$38,400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1937	1.2.2.6	Magnets			0	208.8 wks	\$0.00	\$960,000.00	\$585,436.80	\$1,545,436.80	\$174,687.36	\$430,031.04	\$2,150,155.20
1938	1.2.2.6.1	Bend Magnet 5D7.1			0	36 wks	\$0.00	\$45,000.00	\$101,460.48	\$146,460.48	\$22,992.10	\$42,363.14	\$211,815.72
1939	1.2.2.6.1.1	Magnet Materials	SLAC	M&S	2	0 wks	\$0.00	\$45,000.00	\$0.00	\$45,000.00	\$2,700.00	\$11,925.00	\$59,625.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>45,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$45,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
1940	1.2.2.6.1.2	Magnet Machining	SLAC	B&H	2	24 wks	\$0.00	\$0.00	\$76,800.00	\$76,800.00	\$15,360.00	\$23,040.00	\$115,200.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>24 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$76,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
1941	1.2.2.6.1.3	Mag Coil Winding	SLAC	B&H	2	6 wks	\$0.00	\$0.00	\$11,992.80	\$11,992.80	\$2,398.56	\$3,597.84	\$17,989.20
		SLAC Mech. Fab: Assembly Tech		B&H	0	6 wks	\$0.00	\$0.00	\$0.00	\$11,992.80	\$0.00	\$0.00	\$0.00
1942	1.2.2.6.1.4	Magnet Assembly	SLAC	B&H	2	3.6 wks	\$0.00	\$0.00	\$7,195.68	\$7,195.68	\$1,439.14	\$2,158.70	\$10,793.52
		SLAC Mech. Fab: Assembly Tech		B&H	0	3.6 wks	\$0.00	\$0.00	\$0.00	\$7,195.68	\$0.00	\$0.00	\$0.00
1943	1.2.2.6.1.5	Fiducialization	SLAC	B&H	2	1.2 wks	\$0.00	\$0.00	\$2,736.00	\$2,736.00	\$547.20	\$820.80	\$4,104.00
		SLAC Metrology:Eng.& Surveyors		B&H	0	1.2 wks	\$0.00	\$0.00	\$0.00	\$2,736.00	\$0.00	\$0.00	\$0.00
1944	1.2.2.6.1.6	Mag Measure	SLAC	B&H	2	1.2 wks	\$0.00	\$0.00	\$2,736.00	\$2,736.00	\$547.20	\$820.80	\$4,104.00
		SLAC Metrology:Eng.& Surveyors		B&H	0	1.2 wks	\$0.00	\$0.00	\$0.00	\$2,736.00	\$0.00	\$0.00	\$0.00
1945	1.2.2.6.2	Bend Magnet 1D30.5			0	44.7 wks	\$0.00	\$48,000.00	\$126,057.24	\$174,057.24	\$28,091.45	\$50,537.17	\$252,685.86
1946	1.2.2.6.2.1	Magnet Materials	SLAC	M&S	2	0 wks	\$0.00	\$48,000.00	\$0.00	\$48,000.00	\$2,880.00	\$12,720.00	\$63,600.00
		SLAC M&S Total		M&S	0	48,000	\$0.00	\$0.00	\$0.00	\$48,000.00	\$0.00	\$0.00	\$0.00
1947	1.2.2.6.2.2	Magnet Machining	SLAC	B&H	2	30 wks	\$0.00	\$0.00	\$96,000.00	\$96,000.00	\$19,200.00	\$28,800.00	\$144,000.00
		SLAC Mech. Fab: Machine Shop		B&H	0	30 wks	\$0.00	\$0.00	\$0.00	\$96,000.00	\$0.00	\$0.00	\$0.00
1948	1.2.2.6.2.3	Mag Coil Winding	SLAC	B&H	2	7.5 wks	\$0.00	\$0.00	\$14,991.00	\$14,991.00	\$2,998.20	\$4,497.30	\$22,486.50
		SLAC Mech. Fab: Assembly Tech		B&H	0	7.5 wks	\$0.00	\$0.00	\$0.00	\$14,991.00	\$0.00	\$0.00	\$0.00
1949	1.2.2.6.2.4	Magnet Assembly	SLAC	B&H	2	4.8 wks	\$0.00	\$0.00	\$9,594.24	\$9,594.24	\$1,918.85	\$2,878.27	\$14,391.36
		SLAC Mech. Fab: Assembly Tech		B&H	0	4.8 wks	\$0.00	\$0.00	\$0.00	\$9,594.24	\$0.00	\$0.00	\$0.00
1950	1.2.2.6.2.5	Fiducialization	SLAC	B&H	2	1.2 wks	\$0.00	\$0.00	\$2,736.00	\$2,736.00	\$547.20	\$820.80	\$4,104.00
		SLAC Metrology:Eng.& Surveyors		B&H	0	1.2 wks	\$0.00	\$0.00	\$0.00	\$2,736.00	\$0.00	\$0.00	\$0.00
1951	1.2.2.6.2.6	Mag Measure	SLAC	B&H	2	1.2 wks	\$0.00	\$0.00	\$2,736.00	\$2,736.00	\$547.20	\$820.80	\$4,104.00
		SLAC Metrology:Eng.& Surveyors		B&H	0	1.2 wks	\$0.00	\$0.00	\$0.00	\$2,736.00	\$0.00	\$0.00	\$0.00
1952	1.2.2.6.3	Bend Magnet 4D102.36T			0	3 wks	\$0.00	\$1,000.00	\$7,197.60	\$8,197.60	\$1,499.52	\$2,424.28	\$12,121.40
1953	1.2.2.6.3.1	Magnet Materials	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
1954	1.2.2.6.3.2	Magnet Machining	SLAC	B&H	2	1 wk	\$0.00	\$0.00	\$3,200.00	\$3,200.00	\$640.00	\$960.00	\$4,800.00
		SLAC Mech. Fab: Machine Shop		B&H	0	1 wk	\$0.00	\$0.00	\$0.00	\$3,200.00	\$0.00	\$0.00	\$0.00
1955	1.2.2.6.3.3	Mag Coil Winding	SLAC	B&H	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		SLAC Mech. Fab: Assembly Tech		B&H	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1956	1.2.2.6.3.4	Magnet Assembly	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$3,997.60	\$3,997.60	\$799.52	\$1,199.28	\$5,996.40
		SLAC Mech. Fab: Assembly Tech		B&H	0	2 wks	\$0.00	\$0.00	\$0.00	\$3,997.60	\$0.00	\$0.00	\$0.00
1957	1.2.2.6.3.5	Fiducialization	SLAC	B&H	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		SLAC Metrology:Eng.& Surveyors		B&H	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1958	1.2.2.6.3.6	Mag Measure	SLAC	B&H	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		SLAC Metrology:Eng.& Surveyors		B&H	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1959	1.2.2.6.4	Bend Magnet VB			0	12 wks	\$0.00	\$15,000.00	\$33,820.16	\$48,820.16	\$7,664.03	\$14,121.05	\$70,605.24

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
1960	1.2.2.6.4.1	Magnet Materials	SLAC	M&S	2	0 wks	\$0.00	\$15,000.00	\$0.00	\$15,000.00	\$900.00	\$3,975.00	\$19,875.00
		SLAC M&S Total		M&S	0	15,000	\$0.00	\$0.00	\$0.00	\$15,000.00	\$0.00	\$0.00	\$0.00
1961	1.2.2.6.4.2	Magnet Machining	SLAC	B&H	2	8 wks	\$0.00	\$0.00	\$25,600.00	\$25,600.00	\$5,120.00	\$7,680.00	\$38,400.00
		SLAC Mech. Fab: Machine Shop		B&H	0	8 wks	\$0.00	\$0.00	\$0.00	\$25,600.00	\$0.00	\$0.00	\$0.00
1962	1.2.2.6.4.3	Mag Coil Winding	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$3,997.60	\$3,997.60	\$799.52	\$1,199.28	\$5,996.40
		SLAC Mech. Fab: Assembly Tech		B&H	0	2 wks	\$0.00	\$0.00	\$0.00	\$3,997.60	\$0.00	\$0.00	\$0.00
1963	1.2.2.6.4.4	Magnet Assembly	SLAC	B&H	2	1.2 wks	\$0.00	\$0.00	\$2,398.56	\$2,398.56	\$479.71	\$719.57	\$3,597.84
		SLAC Mech. Fab: Assembly Tech		B&H	0	1.2 wks	\$0.00	\$0.00	\$0.00	\$2,398.56	\$0.00	\$0.00	\$0.00
1964	1.2.2.6.4.5	Fiducialization	SLAC	B&H	2	0.4 wks	\$0.00	\$0.00	\$912.00	\$912.00	\$182.40	\$273.60	\$1,368.00
		SLAC Metrology:Eng.& Surveyors		B&H	0	0.4 wks	\$0.00	\$0.00	\$0.00	\$912.00	\$0.00	\$0.00	\$0.00
1965	1.2.2.6.4.6	Mag Measure	SLAC	B&H	2	0.4 wks	\$0.00	\$0.00	\$912.00	\$912.00	\$182.40	\$273.60	\$1,368.00
		SLAC Metrology:Eng.& Surveyors		B&H	0	0.4 wks	\$0.00	\$0.00	\$0.00	\$912.00	\$0.00	\$0.00	\$0.00
1966	1.2.2.6.5	Quad Magnet 1Q5.6			0	15 wks	\$0.00	\$15,000.00	\$41,130.24	\$56,130.24	\$9,126.05	\$16,314.07	\$81,570.36
1967	1.2.2.6.5.1	Magnet Materials	SLAC	M&S	2	0 wks	\$0.00	\$15,000.00	\$0.00	\$15,000.00	\$900.00	\$3,975.00	\$19,875.00
		SLAC M&S Total		M&S	0	15,000	\$0.00	\$0.00	\$0.00	\$15,000.00	\$0.00	\$0.00	\$0.00
1968	1.2.2.6.5.2	Magnet Machining	SLAC	B&H	2	9 wks	\$0.00	\$0.00	\$28,800.00	\$28,800.00	\$5,760.00	\$8,640.00	\$43,200.00
		SLAC Mech. Fab: Machine Shop		B&H	0	9 wks	\$0.00	\$0.00	\$0.00	\$28,800.00	\$0.00	\$0.00	\$0.00
1969	1.2.2.6.5.3	Mag Coil Winding	SLAC	B&H	2	3 wks	\$0.00	\$0.00	\$5,996.40	\$5,996.40	\$1,199.28	\$1,798.92	\$8,994.60
		SLAC Mech. Fab: Assembly Tech		B&H	0	3 wks	\$0.00	\$0.00	\$0.00	\$5,996.40	\$0.00	\$0.00	\$0.00
1970	1.2.2.6.5.4	Magnet Assembly	SLAC	B&H	2	1.8 wks	\$0.00	\$0.00	\$3,597.84	\$3,597.84	\$719.57	\$1,079.35	\$5,396.76
		SLAC Mech. Fab: Assembly Tech		B&H	0	1.8 wks	\$0.00	\$0.00	\$0.00	\$3,597.84	\$0.00	\$0.00	\$0.00
1971	1.2.2.6.5.5	Fiducialization	SLAC	B&H	2	0.6 wks	\$0.00	\$0.00	\$1,368.00	\$1,368.00	\$273.60	\$410.40	\$2,052.00
		SLAC Metrology:Eng.& Surveyors		B&H	0	0.6 wks	\$0.00	\$0.00	\$0.00	\$1,368.00	\$0.00	\$0.00	\$0.00
1972	1.2.2.6.5.6	Mag Measure	SLAC	B&H	2	0.6 wks	\$0.00	\$0.00	\$1,368.00	\$1,368.00	\$273.60	\$410.40	\$2,052.00
		SLAC Metrology:Eng.& Surveyors		B&H	0	0.6 wks	\$0.00	\$0.00	\$0.00	\$1,368.00	\$0.00	\$0.00	\$0.00
1973	1.2.2.6.6	Quadrupole - QA			0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1974	1.2.2.6.6.1	Magnet Materials	SLAC		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1975	1.2.2.6.6.2	Magnet Machining	SLAC		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1976	1.2.2.6.6.3	Mag Coil Winding	SLAC		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1977	1.2.2.6.6.4	Magnet Assembly	SLAC		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1978	1.2.2.6.6.5	Fiducialization	SLAC		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1979	1.2.2.6.6.6	Mag Measure	SLAC		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1980	1.2.2.6.7	Quad Magnet QE			0	30 wks	\$0.00	\$30,000.00	\$82,260.48	\$112,260.48	\$18,252.10	\$32,628.14	\$163,140.72
1981	1.2.2.6.7.1	Magnet Materials	SLAC	M&S	2	0 wks	\$0.00	\$30,000.00	\$0.00	\$30,000.00	\$1,800.00	\$7,950.00	\$39,750.00
		SLAC M&S Total		M&S	0	30,000	\$0.00	\$0.00	\$0.00	\$30,000.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
1982	1.2.2.6.7.2	Magnet Machining	SLAC	B&H	2	18 wks	\$0.00	\$0.00	\$57,600.00	\$57,600.00	\$11,520.00	\$17,280.00	\$86,400.00
		SLAC Mech. Fab: Machine Shop		B&H	0	18 wks	\$0.00	\$0.00	\$0.00	\$57,600.00	\$0.00	\$0.00	\$0.00
1983	1.2.2.6.7.3	Mag Coil Winding	SLAC	B&H	2	6 wks	\$0.00	\$0.00	\$11,992.80	\$11,992.80	\$2,398.56	\$3,597.84	\$17,989.20
		SLAC Mech. Fab: Assembly Tech		B&H	0	6 wks	\$0.00	\$0.00	\$0.00	\$11,992.80	\$0.00	\$0.00	\$0.00
1984	1.2.2.6.7.4	Magnet Assembly	SLAC	B&H	2	3.6 wks	\$0.00	\$0.00	\$7,195.68	\$7,195.68	\$1,439.14	\$2,158.70	\$10,793.52
		SLAC Mech. Fab: Assembly Tech		B&H	0	3.6 wks	\$0.00	\$0.00	\$0.00	\$7,195.68	\$0.00	\$0.00	\$0.00
1985	1.2.2.6.7.5	Fiducialization	SLAC	B&H	2	1.2 wks	\$0.00	\$0.00	\$2,736.00	\$2,736.00	\$547.20	\$820.80	\$4,104.00
		SLAC Metrology:Eng.& Surveyors		B&H	0	1.2 wks	\$0.00	\$0.00	\$0.00	\$2,736.00	\$0.00	\$0.00	\$0.00
1986	1.2.2.6.7.6	Mag Measure	SLAC	B&H	2	1.2 wks	\$0.00	\$0.00	\$2,736.00	\$2,736.00	\$547.20	\$820.80	\$4,104.00
		SLAC Metrology:Eng.& Surveyors		B&H	0	1.2 wks	\$0.00	\$0.00	\$0.00	\$2,736.00	\$0.00	\$0.00	\$0.00
1987	1.2.2.6.8	Quad Magnet 0.91Q17.72			0	20 wks	\$0.00	\$20,000.00	\$54,840.32	\$74,840.32	\$12,168.06	\$21,752.10	\$108,760.48
1988	1.2.2.6.8.1	Magnet Materials	SLAC	M&S	2	0 wks	\$0.00	\$20,000.00	\$0.00	\$20,000.00	\$1,200.00	\$5,300.00	\$26,500.00
		SLAC M&S Total		M&S	0	20,000	\$0.00	\$0.00	\$0.00	\$20,000.00	\$0.00	\$0.00	\$0.00
1989	1.2.2.6.8.2	Magnet Machining	SLAC	B&H	2	12 wks	\$0.00	\$0.00	\$38,400.00	\$38,400.00	\$7,680.00	\$11,520.00	\$57,600.00
		SLAC Mech. Fab: Machine Shop		B&H	0	12 wks	\$0.00	\$0.00	\$0.00	\$38,400.00	\$0.00	\$0.00	\$0.00
1990	1.2.2.6.8.3	Mag Coil Winding	SLAC	B&H	2	4 wks	\$0.00	\$0.00	\$7,995.20	\$7,995.20	\$1,599.04	\$2,398.56	\$11,992.80
		SLAC Mech. Fab: Assembly Tech		B&H	0	4 wks	\$0.00	\$0.00	\$0.00	\$7,995.20	\$0.00	\$0.00	\$0.00
1991	1.2.2.6.8.4	Magnet Assembly	SLAC	B&H	2	2.4 wks	\$0.00	\$0.00	\$4,797.12	\$4,797.12	\$959.42	\$1,439.14	\$7,195.68
		SLAC Mech. Fab: Assembly Tech		B&H	0	2.4 wks	\$0.00	\$0.00	\$0.00	\$4,797.12	\$0.00	\$0.00	\$0.00
1992	1.2.2.6.8.5	Fiducialization	SLAC	B&H	2	0.8 wks	\$0.00	\$0.00	\$1,824.00	\$1,824.00	\$364.80	\$547.20	\$2,736.00
		SLAC Metrology:Eng.& Surveyors		B&H	0	0.8 wks	\$0.00	\$0.00	\$0.00	\$1,824.00	\$0.00	\$0.00	\$0.00
1993	1.2.2.6.8.6	Mag Measure	SLAC	B&H	2	0.8 wks	\$0.00	\$0.00	\$1,824.00	\$1,824.00	\$364.80	\$547.20	\$2,736.00
		SLAC Metrology:Eng.& Surveyors		B&H	0	0.8 wks	\$0.00	\$0.00	\$0.00	\$1,824.00	\$0.00	\$0.00	\$0.00
1994	1.2.2.6.9	Correctors			0	28 wks	\$0.00	\$20,000.00	\$85,920.00	\$105,920.00	\$18,384.00	\$31,076.00	\$155,380.00
1995	1.2.2.6.9.1	Magnet Materials	SLAC	M&S	2	0 wks	\$0.00	\$20,000.00	\$0.00	\$20,000.00	\$1,200.00	\$5,300.00	\$26,500.00
		SLAC M&S Total		M&S	0	20,000	\$0.00	\$0.00	\$0.00	\$20,000.00	\$0.00	\$0.00	\$0.00
1996	1.2.2.6.9.2	Magnet Machining	SLAC	B&H	2	16 wks	\$0.00	\$0.00	\$51,200.00	\$51,200.00	\$10,240.00	\$15,360.00	\$76,800.00
		SLAC Mech. Fab: Machine Shop		B&H	0	16 wks	\$0.00	\$0.00	\$0.00	\$51,200.00	\$0.00	\$0.00	\$0.00
1997	1.2.2.6.9.3	Mag Coil Winding	SLAC	B&H	2	4 wks	\$0.00	\$0.00	\$12,800.00	\$12,800.00	\$2,560.00	\$3,840.00	\$19,200.00
		SLAC Mech. Fab: Machine Shop		B&H	0	4 wks	\$0.00	\$0.00	\$0.00	\$12,800.00	\$0.00	\$0.00	\$0.00
1998	1.2.2.6.9.4	Magnet Assembly	SLAC	B&H	2	4 wks	\$0.00	\$0.00	\$12,800.00	\$12,800.00	\$2,560.00	\$3,840.00	\$19,200.00
		SLAC Mech. Fab: Machine Shop		B&H	0	4 wks	\$0.00	\$0.00	\$0.00	\$12,800.00	\$0.00	\$0.00	\$0.00
1999	1.2.2.6.9.6	Mag Measure	SLAC	B&H	2	4 wks	\$0.00	\$0.00	\$9,120.00	\$9,120.00	\$1,824.00	\$2,736.00	\$13,680.00
		SLAC Metrology:Eng.& Surveyors		B&H	0	4 wks	\$0.00	\$0.00	\$0.00	\$9,120.00	\$0.00	\$0.00	\$0.00
2000	1.2.2.6.10	Dumpline Bend Magnets			0	14.9 wks	\$0.00	\$16,000.00	\$42,019.08	\$58,019.08	\$9,363.82	\$16,845.72	\$84,228.62

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
2001	1.2.2.6.10.1	Magnet Materials	SLAC	M&S	2	0 wks	\$0.00	\$16,000.00	\$0.00	\$16,000.00	\$960.00	\$4,240.00	\$21,200.00
		SLAC M&S Total		M&S	0	16,000	\$0.00	\$0.00	\$0.00	\$16,000.00	\$0.00	\$0.00	\$0.00
2002	1.2.2.6.10.2	Magnet Machining	SLAC	B&H	2	10 wks	\$0.00	\$0.00	\$32,000.00	\$32,000.00	\$6,400.00	\$9,600.00	\$48,000.00
		SLAC Mech. Fab: Machine Shop		B&H	0	10 wks	\$0.00	\$0.00	\$0.00	\$32,000.00	\$0.00	\$0.00	\$0.00
2003	1.2.2.6.10.3	Mag Coil Winding	SLAC	B&H	2	2.5 wks	\$0.00	\$0.00	\$4,997.00	\$4,997.00	\$999.40	\$1,499.10	\$7,495.50
		SLAC Mech. Fab: Assembly Tech		B&H	0	2.5 wks	\$0.00	\$0.00	\$0.00	\$4,997.00	\$0.00	\$0.00	\$0.00
2004	1.2.2.6.10.4	Magnet Assembly	SLAC	B&H	2	1.6 wks	\$0.00	\$0.00	\$3,198.08	\$3,198.08	\$639.62	\$959.42	\$4,797.12
		SLAC Mech. Fab: Assembly Tech		B&H	0	1.6 wks	\$0.00	\$0.00	\$0.00	\$3,198.08	\$0.00	\$0.00	\$0.00
2005	1.2.2.6.10.5	Fiducialization	SLAC	B&H	2	0.4 wks	\$0.00	\$0.00	\$912.00	\$912.00	\$182.40	\$273.60	\$1,368.00
		SLAC Metrology:Eng.& Surveyors		B&H	0	0.4 wks	\$0.00	\$0.00	\$0.00	\$912.00	\$0.00	\$0.00	\$0.00
2006	1.2.2.6.10.6	Mag Measure	SLAC	B&H	2	0.4 wks	\$0.00	\$0.00	\$912.00	\$912.00	\$182.40	\$273.60	\$1,368.00
		SLAC Metrology:Eng.& Surveyors		B&H	0	0.4 wks	\$0.00	\$0.00	\$0.00	\$912.00	\$0.00	\$0.00	\$0.00
2007	1.2.2.6.11	Superconducting wiggler procurement			0	5.2 wks	\$0.00	\$750,000.00	\$10,731.20	\$760,731.20	\$47,146.24	\$201,969.36	\$1,009,846.80
2008	1.2.2.6.11.1	Magnet			0	0 wks	\$0.00	\$750,000.00	\$0.00	\$750,000.00	\$45,000.00	\$198,750.00	\$993,750.00
2009	1.2.2.6.11.1	Procurement	SLAC	M&S	2	0 wks	\$0.00	\$750,000.00	\$0.00	\$750,000.00	\$45,000.00	\$198,750.00	\$993,750.00
		SLAC M&S Total		M&S	0	750,000	\$0.00	\$0.00	\$0.00	\$750,000.00	\$0.00	\$0.00	\$0.00
2010	1.2.2.6.11.2	Mag Meas			0	2.6 wks	\$0.00	\$0.00	\$5,365.60	\$5,365.60	\$1,073.12	\$1,609.68	\$8,048.40
2011	1.2.2.6.11.2	Surveyor	SLAC	B&H	2	0.6 wks	\$0.00	\$0.00	\$1,368.00	\$1,368.00	\$273.60	\$410.40	\$2,052.00
		SLAC Metrology:Eng.& Surveyors		B&H	0	0.6 wks	\$0.00	\$0.00	\$0.00	\$1,368.00	\$0.00	\$0.00	\$0.00
2012	1.2.2.6.11.2	Tech	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$3,997.60	\$3,997.60	\$799.52	\$1,199.28	\$5,996.40
		SLAC Mech. Fab: Assembly Tech		B&H	0	2 wks	\$0.00	\$0.00	\$0.00	\$3,997.60	\$0.00	\$0.00	\$0.00
2013	1.2.2.6.11.3	Fiducialize			0	2.6 wks	\$0.00	\$0.00	\$5,365.60	\$5,365.60	\$1,073.12	\$1,609.68	\$8,048.40
2014	1.2.2.6.11.3	Surveyor	SLAC	B&H	2	0.6 wks	\$0.00	\$0.00	\$1,368.00	\$1,368.00	\$273.60	\$410.40	\$2,052.00
		SLAC Metrology:Eng.& Surveyors		B&H	0	0.6 wks	\$0.00	\$0.00	\$0.00	\$1,368.00	\$0.00	\$0.00	\$0.00
2015	1.2.2.6.11.3	Tech	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$3,997.60	\$3,997.60	\$799.52	\$1,199.28	\$5,996.40
		SLAC Mech. Fab: Assembly Tech		B&H	0	2 wks	\$0.00	\$0.00	\$0.00	\$3,997.60	\$0.00	\$0.00	\$0.00
2016	1.2.2.7	Controls			0	157.18 wks	\$0.00	\$1,351,500.00	\$369,252.00	\$1,720,752.00	\$154,991.65	\$480,340.09	\$2,356,083.74
2017	1.2.2.7.1	Computers and Crates (6)			0	28 wks	\$0.00	\$58,000.00	\$69,331.20	\$127,331.20	\$17,346.24	\$49,583.38	\$194,260.82
2018	1.2.2.7.1	CAMAC Crates, Control & Support Modules	SLAC	ED&I	3	20 wks	\$0.00	\$0.00	\$50,528.00	\$50,528.00	\$10,105.60	\$21,221.76	\$81,855.36
		SLAC Controls: Programmer		ED&I	0	20 wks	\$0.00	\$0.00	\$0.00	\$50,528.00	\$0.00	\$0.00	\$0.00
2019	1.2.2.7.1	CAMAC Crates, Control & Support Modules	SLAC	M&S	3	0 wks	\$0.00	\$56,000.00	\$0.00	\$56,000.00	\$3,360.00	\$20,776.00	\$80,136.00
		SLAC M&S Total		M&S	0	56,000	\$0.00	\$0.00	\$0.00	\$56,000.00	\$0.00	\$0.00	\$0.00
2020	1.2.2.7.1	CAMAC Crates, Control & Support Modules	SLAC	ED&I	3	4 wks	\$0.00	\$0.00	\$11,788.80	\$11,788.80	\$2,357.76	\$4,951.30	\$19,097.86
		SLAC Controls: Engineer		ED&I	0	4 wks	\$0.00	\$0.00	\$0.00	\$11,788.80	\$0.00	\$0.00	\$0.00
2021	1.2.2.7.1	Install CAMAC Crates, CTL & Support Modules	SLAC	B&H	2	4 wks	\$0.00	\$0.00	\$7,014.40	\$7,014.40	\$1,402.88	\$2,104.32	\$10,521.60

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,014.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2022	1.2.2.7.1	CAMAC System Cableplant	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2023	1.2.2.7.2	TIMING DISTRIBUTION SYSTEM-CAMAC			0	29.5 wks	\$0.00	\$45,000.00	\$75,825.60	\$120,825.60	\$17,865.12	\$39,267.34	\$177,958.06
2024	1.2.2.7.2	Distributed Timing Hardware	SLAC	ED&I	3	4 wks	\$0.00	\$0.00	\$11,788.80	\$11,788.80	\$2,357.76	\$4,951.30	\$19,097.86
		<i>SLAC Controls: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,788.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2025	1.2.2.7.2	Distributed Timing Hardware	SLAC	M&S	3	0 wks	\$0.00	\$30,000.00	\$0.00	\$30,000.00	\$1,800.00	\$11,130.00	\$42,930.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>30,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$30,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2026	1.2.2.7.2	Install M&D Timing System Hardware	SLAC	B&H	2	0.5 wks	\$0.00	\$0.00	\$876.80	\$876.80	\$175.36	\$263.04	\$1,315.20
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$876.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2027	1.2.2.7.2	Timing System Helix Cableplant	SLAC	M&S	2	0 wks	\$0.00	\$15,000.00	\$0.00	\$15,000.00	\$900.00	\$3,975.00	\$19,875.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>15,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$15,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2028	1.2.2.7.2	Timing Software support	SLAC	ED&I	2	25 wks	\$0.00	\$0.00	\$63,160.00	\$63,160.00	\$12,632.00	\$18,948.00	\$94,740.00
		<i>SLAC Controls: Programmer</i>		<i>ED&I</i>	<i>0</i>	<i>25 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$63,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2029	1.2.2.7.3	LCLS VACUUM SYSTEM (3)			0	8.5 wks	\$0.00	\$5,000.00	\$17,000.00	\$22,000.00	\$3,700.00	\$8,995.00	\$34,695.00
2030	1.2.2.7.3.1	Refurb and Reinstall Dump Vacuum System	SLAC	ED&I	3	6 wks	\$0.00	\$0.00	\$12,000.00	\$12,000.00	\$2,400.00	\$5,040.00	\$19,440.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2031	1.2.2.7.3.2	Replace Linac/ Dump Ion Pump Cables (250')	SLAC	M&S	3	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$1,484.00	\$5,724.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2032	1.2.2.7.3.3	Replace Vacuum Valve Cables (250')	SLAC	M&S	3	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$371.00	\$1,431.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2033	1.2.2.7.3.4	Coordination Linac Vacuum Reuse	SLAC	ED&I	3	2.5 wks	\$0.00	\$0.00	\$5,000.00	\$5,000.00	\$1,000.00	\$2,100.00	\$8,100.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	<i>0</i>	<i>2.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2034	1.2.2.7.4	TUNE-UP DUMPS (3)			0	4.6 wks	\$0.00	\$20,500.00	\$11,815.36	\$32,315.36	\$3,644.32	\$5,393.95	\$41,353.63
2035	1.2.2.7.4.1	IDIM Module 2)	SLAC	M&S	1	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$636.00	\$4,876.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2036	1.2.2.7.4.2	IDOM Module (1)	SLAC	B&H	1	1 wk	\$0.00	\$0.00	\$1,753.60	\$1,753.60	\$350.72	\$315.65	\$2,419.97
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,753.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2037	1.2.2.7.4.3	Profile Monitor Chassis (1)	SLAC	ED&I	1	3 wks	\$0.00	\$0.00	\$8,841.60	\$8,841.60	\$1,768.32	\$1,591.49	\$12,201.41
		<i>SLAC Controls: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,841.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2038	1.2.2.7.4.3	Profile Monitor Chassis (1)	SLAC	M&S	1	0 wks	\$0.00	\$13,000.00	\$0.00	\$13,000.00	\$780.00	\$2,067.00	\$15,847.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>13,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2039	1.2.2.7.4.4	Multi-conductor (21C/16GA-CONT&STAT) (2)	SLAC	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$318.00	\$2,438.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2040	1.2.2.7.4.5	CAMAC cable IDIM (2)	SLAC	B&H	1	0.2 wks	\$0.00	\$0.00	\$406.72	\$406.72	\$98.43	\$75.77	\$580.92

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>ANL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$406.72</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2041	1.2.2.7.4.5	CAMAC cable IDIM (2)	SLAC	M&S	1	0 wks	\$0.00	\$600.00	\$0.00	\$600.00	\$36.00	\$95.40	\$731.40
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>600</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2042	1.2.2.7.4.6	CAMAC cable IDOM (1)	SLAC	B&H	1	0.2 wks	\$0.00	\$0.00	\$406.72	\$406.72	\$98.43	\$75.77	\$580.92
		<i>ANL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$406.72</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2043	1.2.2.7.4.6	CAMAC cable IDOM (1)	SLAC	M&S	1	0 wks	\$0.00	\$600.00	\$0.00	\$600.00	\$36.00	\$95.40	\$731.40
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>600</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2044	1.2.2.7.4.7	WIRING OF TD ASSEMBLY IN LAB (1)	SLAC	B&H	1	0.2 wks	\$0.00	\$0.00	\$406.72	\$406.72	\$98.43	\$75.77	\$580.92
		<i>ANL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$406.72</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2045	1.2.2.7.4.7	WIRING OF TD ASSEMBLY IN LAB (1)	SLAC	M&S	1	0 wks	\$0.00	\$300.00	\$0.00	\$300.00	\$18.00	\$47.70	\$365.70
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>300</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$300.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2046	1.2.2.7.5	WIRE SCANNERS (14)			0	14.48 wks	\$0.00	\$143,300.00	\$33,105.66	\$176,405.66	\$15,219.13	\$32,660.45	\$224,285.24
2047	1.2.2.7.5.1	Power Supply EMI 20v@50A (1)	SLAC	B&H	1	0.2 wks	\$0.00	\$0.00	\$350.72	\$350.72	\$70.14	\$63.13	\$483.99
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$350.72</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2048	1.2.2.7.5.1	Power Supply EMI 20v@50A (1)	SLAC	M&S	1	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$636.00	\$4,876.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2049	1.2.2.7.5.2	DATRONICS Controller (MN 10k-1) (1)	SLAC	ED&I	1	6 wks	\$0.00	\$0.00	\$17,683.20	\$17,683.20	\$3,536.64	\$3,182.98	\$24,402.82
		<i>SLAC Controls: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$17,683.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2050	1.2.2.7.5.2	DATRONICS Controller (MN 10k-1) (1)	SLAC	M&S	1	0 wks	\$0.00	\$11,000.00	\$0.00	\$11,000.00	\$660.00	\$1,749.00	\$13,409.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>11,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2051	1.2.2.7.5.3	LVDT PCB (8)	SLAC	B&H	2	0.6 wks	\$0.00	\$0.00	\$1,052.16	\$1,052.16	\$210.43	\$315.65	\$1,578.24
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,052.16</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2052	1.2.2.7.5.3	LVDT PCB (8)	SLAC	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$1,060.00	\$5,300.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2053	1.2.2.7.5.4	LVDT Unit (30)	SLAC	B&H	2	0.6 wks	\$0.00	\$0.00	\$1,052.16	\$1,052.16	\$210.43	\$315.65	\$1,578.24
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,052.16</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2054	1.2.2.7.5.4	LVDT Unit (30)	SLAC	M&S	2	0 wks	\$0.00	\$18,000.00	\$0.00	\$18,000.00	\$1,080.00	\$4,770.00	\$23,850.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>18,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$18,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2055	1.2.2.7.5.5	10 Channel Resistor Interface Chassis (1)	SLAC	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$1,325.00	\$6,625.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2056	1.2.2.7.5.5	10 Channel Resistor Interface Chassis (1)	SLAC	ED&I	2	2 wks	\$0.00	\$0.00	\$4,000.00	\$4,000.00	\$800.00	\$1,200.00	\$6,000.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2057	1.2.2.7.5.6	CAMAC Module, SAM (1)	SLAC	B&H	1	0.2 wks	\$0.00	\$0.00	\$350.72	\$350.72	\$70.14	\$63.13	\$483.99
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$350.72</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2058	1.2.2.7.5.6	CAMAC Module, SAM (1)	SLAC	M&S	1	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$954.00	\$7,314.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2059	1.2.2.7.5.7	CAMAC Module, GADC (1)	SLAC	B&H	1	0.2 wks	\$0.00	\$0.00	\$350.72	\$350.72	\$70.14	\$63.13	\$483.99
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$350.72</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2060	1.2.2.7.5.7	CAMAC Module, GADC (1)	SLAC	M&S	1	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$480.00	\$1,272.00	\$9,752.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2061	1.2.2.7.5.8	CAMAC Module, PDGG (1)	SLAC	B&H	1	0.2 wks	\$0.00	\$0.00	\$350.72	\$350.72	\$70.14	\$63.13	\$483.99
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$350.72</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2062	1.2.2.7.5.8	CAMAC Module, PDGG (1)	SLAC	M&S	1	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$795.00	\$6,095.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2063	1.2.2.7.5.9	CAMAC Module,DAC (1)	SLAC	B&H	1	0.2 wks	\$0.00	\$0.00	\$350.72	\$350.72	\$70.14	\$63.13	\$483.99
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$350.72</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2064	1.2.2.7.5.9	CAMAC Module,DAC (1)	SLAC	M&S	1	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$420.00	\$1,113.00	\$8,533.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>7,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2065	1.2.2.7.5.10	CAMAC Module,Stepper Motor Controller, SMC-24BP (4)	SLAC	B&H	1	2 wks	\$0.00	\$0.00	\$3,507.20	\$3,507.20	\$701.44	\$631.30	\$4,839.94
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,507.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2066	1.2.2.7.5.10	CAMAC Module,Stepper Motor Controller, SMC-24BP (4)	SLAC	M&S	1	0 wks	\$0.00	\$22,000.00	\$0.00	\$22,000.00	\$1,320.00	\$3,498.00	\$26,818.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>22,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$22,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2067	1.2.2.7.5.11	16 Channel Interface Chassis (1)	SLAC	B&H	2	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$10.52	\$52.61
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35.07</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2068	1.2.2.7.5.11	16 Channel Interface Chassis (1)	SLAC	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$795.00	\$3,975.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2069	1.2.2.7.5.12	HV P.S., 8 CH. BEAMSTRAHLUNG CH. (1)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$6.31	\$48.40
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35.07</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2070	1.2.2.7.5.12	HV P.S., 8 CH. BEAMSTRAHLUNG CH. (1)	SLAC	M&S	1	0 wks	\$0.00	\$9,000.00	\$0.00	\$9,000.00	\$540.00	\$1,431.00	\$10,971.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>9,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2071	1.2.2.7.5.13	Photo-multiplier Tube Electronics Assem., Phillips (4)	SLAC	B&H	1	2 wks	\$0.00	\$0.00	\$3,507.20	\$3,507.20	\$701.44	\$631.30	\$4,839.94
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,507.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2072	1.2.2.7.5.13	Photo-multiplier Tube Electronics Assem., Phillips (4)	SLAC	M&S	1	0 wks	\$0.00	\$14,000.00	\$0.00	\$14,000.00	\$840.00	\$2,226.00	\$17,066.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>14,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$14,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2073	1.2.2.7.5.14	RG58 to PMT 250'	SLAC	M&S	1	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$636.00	\$4,876.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2074	1.2.2.7.5.15	MULTI-COND (4PR) DATRONIC TO LVDT 250'	SLAC	M&S	1	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$480.00	\$1,272.00	\$9,752.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2075	1.2.2.7.5.16	MULTI-COND (12/C) REST. CH. TO SMC MODULE	SLAC	B&H	1	0.06 wks	\$0.00	\$0.00	\$120.00	\$120.00	\$24.00	\$21.60	\$165.60
		<i>SLACL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>0.06 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$120.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
2076	1.2.2.7.5.16	MULTI-COND (12/C) REST. CH. TO SMC MODULE	SLAC	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$318.00	\$2,438.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
2077	1.2.2.7.5.17	MULTI-COND (12/C) REST. CH. TO WIRE SCANNER	SLAC	B&H	1	0.06 wks	\$0.00	\$0.00	\$120.00	\$120.00	\$24.00	\$21.60	\$165.60
		SLACL PCD:Inst-Cabling-Elec Fab		B&H	0	0.06 wks	\$0.00	\$0.00	\$0.00	\$120.00	\$0.00	\$0.00	\$0.00
2078	1.2.2.7.5.17	MULTI-COND (12/C) REST. CH. TO WIRE SCANNER	SLAC	M&S	1	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$954.00	\$7,314.00
		SLAC M&S Total		M&S	0	6,000	\$0.00	\$0.00	\$0.00	\$6,000.00	\$0.00	\$0.00	\$0.00
2079	1.2.2.7.5.18	CAMAC CABLE (36/C)16 CHNL DIST. TO SAM	SLAC	B&H	1	0.06 wks	\$0.00	\$0.00	\$120.00	\$120.00	\$24.00	\$21.60	\$165.60
		SLACL PCD:Inst-Cabling-Elec Fab		B&H	0	0.06 wks	\$0.00	\$0.00	\$0.00	\$120.00	\$0.00	\$0.00	\$0.00
2080	1.2.2.7.5.18	CAMAC CABLE (36/C)16 CHNL DIST. TO SAM	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
2081	1.2.2.7.5.19	SINGLE-COND P.S. TO REST. CH.	SLAC	B&H	1	0.06 wks	\$0.00	\$0.00	\$120.00	\$120.00	\$24.00	\$21.60	\$165.60
		SLACL PCD:Inst-Cabling-Elec Fab		B&H	0	0.06 wks	\$0.00	\$0.00	\$0.00	\$120.00	\$0.00	\$0.00	\$0.00
2082	1.2.2.7.5.19	SINGLE-COND P.S. TO REST. CH.	SLAC	M&S	1	0 wks	\$0.00	\$300.00	\$0.00	\$300.00	\$18.00	\$47.70	\$365.70
		SLAC M&S Total		M&S	0	300	\$0.00	\$0.00	\$0.00	\$300.00	\$0.00	\$0.00	\$0.00
2083	1.2.2.7.5.20	WIRING OF WIRE SCANNER ASSEMBLY IN LAB (4)	SLAC	M&S	1	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$954.00	\$7,314.00
		SLAC M&S Total		M&S	0	6,000	\$0.00	\$0.00	\$0.00	\$6,000.00	\$0.00	\$0.00	\$0.00
2084	1.2.2.7.6	BPM's (136)w/ 6 Linac / 2 Special / 2 Dump			0	45.2 wks	\$0.00	\$916,000.00	\$96,272.64	\$1,012,272.64	\$74,214.53	\$278,090.79	\$1,364,577.96
2085	1.2.2.7.6.1	BPM ProcessorModules (136 , 1 SPARES)	SLAC	ED&I	2	6.2 wks	\$0.00	\$0.00	\$18,272.64	\$18,272.64	\$3,654.53	\$5,481.79	\$27,408.96
		SLAC Controls: Engineer		ED&I	0	6.2 wks	\$0.00	\$0.00	\$0.00	\$18,272.64	\$0.00	\$0.00	\$0.00
2086	1.2.2.7.6.1	BPM ProcessorModules (136 , 1 SPARES)	SLAC	M&S	2	0 wks	\$0.00	\$272,000.00	\$0.00	\$272,000.00	\$16,320.00	\$72,080.00	\$360,400.00
		SLAC M&S Total		M&S	0	272,000	\$0.00	\$0.00	\$0.00	\$272,000.00	\$0.00	\$0.00	\$0.00
2087	1.2.2.7.6.2	Head Amplifier Chassis (1)	SLAC	ED&I	1	1.5 wks	\$0.00	\$0.00	\$3,000.00	\$3,000.00	\$600.00	\$540.00	\$4,140.00
		SLAC Controls: Coordinator Assoc.		ED&I	0	1.5 wks	\$0.00	\$0.00	\$0.00	\$3,000.00	\$0.00	\$0.00	\$0.00
2088	1.2.2.7.6.2	Head Amplifier Chassis (1)	SLAC	M&S	1	0 wks	\$0.00	\$42,000.00	\$0.00	\$42,000.00	\$2,520.00	\$6,678.00	\$51,198.00
		SLAC M&S Total		M&S	0	42,000	\$0.00	\$0.00	\$0.00	\$42,000.00	\$0.00	\$0.00	\$0.00
2089	1.2.2.7.6.3	Head Amp. Modules (136, 1 SPARES)	SLAC	ED&I	2	1.5 wks	\$0.00	\$0.00	\$3,000.00	\$3,000.00	\$600.00	\$900.00	\$4,500.00
		SLAC Controls: Coordinator Assoc.		ED&I	0	1.5 wks	\$0.00	\$0.00	\$0.00	\$3,000.00	\$0.00	\$0.00	\$0.00
2090	1.2.2.7.6.3	Head Amp. Modules (136, 1 SPARES)	SLAC	M&S	2	0 wks	\$0.00	\$272,000.00	\$0.00	\$272,000.00	\$16,320.00	\$72,080.00	\$360,400.00
		SLAC M&S Total		M&S	0	272,000	\$0.00	\$0.00	\$0.00	\$272,000.00	\$0.00	\$0.00	\$0.00
2091	1.2.2.7.6.4	Test Pulse Generator Modules (6)	SLAC	ED&I	1	2 wks	\$0.00	\$0.00	\$4,000.00	\$4,000.00	\$800.00	\$720.00	\$5,520.00
		SLAC Controls: Coordinator Assoc.		ED&I	0	2 wks	\$0.00	\$0.00	\$0.00	\$4,000.00	\$0.00	\$0.00	\$0.00
2092	1.2.2.7.6.4	Test Pulse Generator Modules (6)	SLAC	M&S	1	0 wks	\$0.00	\$259,000.00	\$0.00	\$259,000.00	\$15,540.00	\$41,181.00	\$315,721.00
		SLAC M&S Total		M&S	0	259,000	\$0.00	\$0.00	\$0.00	\$259,000.00	\$0.00	\$0.00	\$0.00
2093	1.2.2.7.6.5	Controls Technician	SLAC	ED&I	4	20 wks	\$0.00	\$0.00	\$40,000.00	\$40,000.00	\$8,000.00	\$24,000.00	\$72,000.00
		SLAC Controls: Coordinator Assoc.		ED&I	0	20 wks	\$0.00	\$0.00	\$0.00	\$40,000.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
2094	1.2.2.7.6.6	RG223 (4 ea BPM, timed and matched, 200')	SLAC	M&S	4	0 wks	\$0.00	\$43,000.00	\$0.00	\$43,000.00	\$2,580.00	\$22,790.00	\$68,370.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>43,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$43,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2095	1.2.2.7.6.7	RG223 Pigtails (8 ea BPM, timed and matched, 10')	SLAC	B&H	4	2 wks	\$0.00	\$0.00	\$4,000.00	\$4,000.00	\$800.00	\$2,400.00	\$7,200.00
		<i>SLACL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2096	1.2.2.7.6.7	RG223 Pigtails (8 ea BPM, timed and matched, 10')	SLAC	M&S	4	0 wks	\$0.00	\$28,000.00	\$0.00	\$28,000.00	\$1,680.00	\$14,840.00	\$44,520.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>28,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$28,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2097	1.2.2.7.6.8	Technician BPM Initial Calibration (136 *4mh=12wks)	SLAC	ED&I	4	12 wks	\$0.00	\$0.00	\$24,000.00	\$24,000.00	\$4,800.00	\$14,400.00	\$43,200.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	<i>0</i>	<i>12 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$24,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2098	1.2.2.7.7	TOROIDS (7) w/ BC's and Dump			0	8.3 wks	\$0.00	\$46,700.00	\$18,253.44	\$64,953.44	\$6,452.69	\$10,710.92	\$82,117.05
2099	1.2.2.7.7.1	CAMAC Module, TCM (7)	SLAC	ED&I	1	2.5 wks	\$0.00	\$0.00	\$7,368.00	\$7,368.00	\$1,473.60	\$1,326.24	\$10,167.84
		<i>SLAC Controls: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,368.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2100	1.2.2.7.7.1	CAMAC Module, TCM (7)	SLAC	M&S	1	0 wks	\$0.00	\$15,000.00	\$0.00	\$15,000.00	\$900.00	\$2,385.00	\$18,285.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>15,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$15,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2101	1.2.2.7.7.2	TCM PreAmps (7)	SLAC	ED&I	1	1.4 wks	\$0.00	\$0.00	\$2,800.00	\$2,800.00	\$560.00	\$504.00	\$3,864.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	<i>0</i>	<i>1.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2102	1.2.2.7.7.2	TCM PreAmps (7)	SLAC	M&S	1	0 wks	\$0.00	\$21,000.00	\$0.00	\$21,000.00	\$1,260.00	\$3,339.00	\$25,599.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>21,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$21,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2103	1.2.2.7.7.3	Lead Shielding (12 Bricks/Unit) (7)	SLAC	B&H	1	1.5 wks	\$0.00	\$0.00	\$3,000.00	\$3,000.00	\$600.00	\$540.00	\$4,140.00
		<i>SLACL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>1.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2104	1.2.2.7.7.3	Lead Shielding (12 Bricks/Unit) (7)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2105	1.2.2.7.7.4	Steel Covers (7)	SLAC	B&H	1	1.3 wks	\$0.00	\$0.00	\$2,279.68	\$2,279.68	\$455.94	\$410.34	\$3,145.96
		<i>SLAC PCD:Technician</i>		<i>B&H</i>	<i>0</i>	<i>1.3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,279.68</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2106	1.2.2.7.7.4	Steel Covers (7)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2107	1.2.2.7.7.5	Platforms (7)	SLAC	B&H	1	1.3 wks	\$0.00	\$0.00	\$2,279.68	\$2,279.68	\$455.94	\$410.34	\$3,145.96
		<i>SLAC PCD:Technician</i>		<i>B&H</i>	<i>0</i>	<i>1.3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,279.68</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2108	1.2.2.7.7.5	Platforms (7)	SLAC	M&S	1	0 wks	\$0.00	\$700.00	\$0.00	\$700.00	\$42.00	\$111.30	\$853.30
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>700</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$700.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2109	1.2.2.7.7.6	Adapter Box, RG22 to Twinax (2 each toroid)	SLAC	B&H	1	0.1 wks	\$0.00	\$0.00	\$175.36	\$175.36	\$35.07	\$31.56	\$242.00
		<i>SLAC PCD:Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.1 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$175.36</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2110	1.2.2.7.7.6	Adapter Box, RG22 to Twinax (2 each toroid)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2111	1.2.2.7.7.7	RG22, TCM PreAmp to Toroid (1 each toroid))	SLAC	B&H	1	0.1 wks	\$0.00	\$0.00	\$175.36	\$175.36	\$35.07	\$31.56	\$242.00
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.1 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$175.36</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
2112	1.2.2.7.7.7	RG22, TCM PreAmp to Toroid (1 each toroid)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
2113	1.2.2.7.7.8	RG214, TCM PreAmp to Toroid (1)	SLAC	B&H	1	0.1 wks	\$0.00	\$0.00	\$175.36	\$175.36	\$35.07	\$31.56	\$242.00
		SLAC Controls: Technician		B&H	0	0.1 wks	\$0.00	\$0.00	\$0.00	\$175.36	\$0.00	\$0.00	\$0.00
2114	1.2.2.7.7.8	RG214, TCM PreAmp to Toroid (1)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
2115	1.2.2.7.7.9	RG22, TCM to TCM PreAmp (2)	SLAC	M&S	1	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$477.00	\$3,657.00
		SLAC M&S Total		M&S	0	3,000	\$0.00	\$0.00	\$0.00	\$3,000.00	\$0.00	\$0.00	\$0.00
2116	1.2.2.7.7.10	2/c power, TCM to TCM PreAmp (1 each toroid)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
2117	1.2.2.7.7.11	RG58, TCM to TCM PreAmp (1 each toroid)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
2118	1.2.2.7.8	PROFILE MONITORS (4) w/ 1 Dump			0	7.4 wks	\$0.00	\$53,000.00	\$16,468.96	\$69,468.96	\$6,473.79	\$15,761.05	\$91,703.81
2119	1.2.2.7.8.1	CAMAC Module, DAC (4)	SLAC	B&H	1	0.03 wks	\$0.00	\$0.00	\$52.61	\$52.61	\$10.52	\$9.47	\$72.60
		SLAC Controls: Technician		B&H	0	0.03 wks	\$0.00	\$0.00	\$0.00	\$52.61	\$0.00	\$0.00	\$0.00
2120	1.2.2.7.8.1	CAMAC Module, DAC (4)	SLAC	M&S	1	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$420.00	\$1,113.00	\$8,533.00
		SLAC M&S Total		M&S	0	7,000	\$0.00	\$0.00	\$0.00	\$7,000.00	\$0.00	\$0.00	\$0.00
2121	1.2.2.7.8.2	CAMAC Module, IDIM (4)	SLAC	B&H	1	0.03 wks	\$0.00	\$0.00	\$52.61	\$52.61	\$10.52	\$9.47	\$72.60
		SLAC Controls: Technician		B&H	0	0.03 wks	\$0.00	\$0.00	\$0.00	\$52.61	\$0.00	\$0.00	\$0.00
2122	1.2.2.7.8.2	CAMAC Module, IDIM (4)	SLAC	M&S	1	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$636.00	\$4,876.00
		SLAC M&S Total		M&S	0	4,000	\$0.00	\$0.00	\$0.00	\$4,000.00	\$0.00	\$0.00	\$0.00
2123	1.2.2.7.8.3	CAMAC Module, IDOM (4)	SLAC	B&H	1	0.03 wks	\$0.00	\$0.00	\$52.61	\$52.61	\$10.52	\$9.47	\$72.60
		SLAC Controls: Technician		B&H	0	0.03 wks	\$0.00	\$0.00	\$0.00	\$52.61	\$0.00	\$0.00	\$0.00
2124	1.2.2.7.8.3	CAMAC Module, IDOM (4)	SLAC	M&S	1	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$636.00	\$4,876.00
		SLAC M&S Total		M&S	0	4,000	\$0.00	\$0.00	\$0.00	\$4,000.00	\$0.00	\$0.00	\$0.00
2125	1.2.2.7.8.4	Video Modulator Chassis (4)	SLAC	B&H	1	0.03 wks	\$0.00	\$0.00	\$52.61	\$52.61	\$10.52	\$9.47	\$72.60
		SLAC Controls: Technician		B&H	0	0.03 wks	\$0.00	\$0.00	\$0.00	\$52.61	\$0.00	\$0.00	\$0.00
2126	1.2.2.7.8.4	Video Modulator Chassis (4)	SLAC	M&S	1	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$477.00	\$3,657.00
		SLAC M&S Total		M&S	0	3,000	\$0.00	\$0.00	\$0.00	\$3,000.00	\$0.00	\$0.00	\$0.00
2127	1.2.2.7.8.5	16 Channel Interface Chassis (1)	SLAC	B&H	2	0.03 wks	\$0.00	\$0.00	\$52.61	\$52.61	\$10.52	\$15.78	\$78.91
		SLAC Controls: Technician		B&H	0	0.03 wks	\$0.00	\$0.00	\$0.00	\$52.61	\$0.00	\$0.00	\$0.00
2128	1.2.2.7.8.5	16 Channel Interface Chassis (1)	SLAC	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$795.00	\$3,975.00
		SLAC M&S Total		M&S	0	3,000	\$0.00	\$0.00	\$0.00	\$3,000.00	\$0.00	\$0.00	\$0.00
2129	1.2.2.7.8.6	Profile Monitor Lamp Units (4)	SLAC	B&H	1	0.7 wks	\$0.00	\$0.00	\$1,227.52	\$1,227.52	\$245.50	\$220.95	\$1,693.98
		SLAC Controls: Technician		B&H	0	0.7 wks	\$0.00	\$0.00	\$0.00	\$1,227.52	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
2130	1.2.2.7.8.6	Profile Monitor Lamp Units (4)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
2131	1.2.2.7.8.7	Profile Monitor Chassis (4)	SLAC	ED&I	2	2 wks	\$0.00	\$0.00	\$5,894.40	\$5,894.40	\$1,178.88	\$1,768.32	\$8,841.60
		SLAC Controls: Engineer		ED&I	0	2 wks	\$0.00	\$0.00	\$0.00	\$5,894.40	\$0.00	\$0.00	\$0.00
2132	1.2.2.7.8.7	Profile Monitor Chassis (4)	SLAC	M&S	2	0 wks	\$0.00	\$14,000.00	\$0.00	\$14,000.00	\$840.00	\$3,710.00	\$18,550.00
		SLAC M&S Total		M&S	0	14,000	\$0.00	\$0.00	\$0.00	\$14,000.00	\$0.00	\$0.00	\$0.00
2133	1.2.2.7.8.8	Profile Monitor Camera/Electronics (4)	SLAC	ED&I	2	3.75 wks	\$0.00	\$0.00	\$7,500.00	\$7,500.00	\$1,500.00	\$2,250.00	\$11,250.00
		SLAC Controls: Coordinator Assoc.		ED&I	0	3.75 wks	\$0.00	\$0.00	\$0.00	\$7,500.00	\$0.00	\$0.00	\$0.00
2134	1.2.2.7.8.8	Profile Monitor Camera/Electronics (4)	SLAC	M&S	2	0 wks	\$0.00	\$9,000.00	\$0.00	\$9,000.00	\$540.00	\$2,385.00	\$11,925.00
		SLAC M&S Total		M&S	0	9,000	\$0.00	\$0.00	\$0.00	\$9,000.00	\$0.00	\$0.00	\$0.00
2135	1.2.2.7.8.9	RG59, coax-video (4)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
2136	1.2.2.7.8.10	Multi-conductor (21C/16GA-CONT&STAT) (4)	SLAC	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$318.00	\$2,438.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
2137	1.2.2.7.8.11	Multi-conductor (3C/16GA-AC POWER) (4)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
2138	1.2.2.7.8.12	CAMAC cable IDIM (4)	SLAC	B&H	1	0.3 wks	\$0.00	\$0.00	\$600.00	\$600.00	\$120.00	\$108.00	\$828.00
		SLACL PCD:Inst-Cabling-Elec Fab		B&H	0	0.3 wks	\$0.00	\$0.00	\$0.00	\$600.00	\$0.00	\$0.00	\$0.00
2139	1.2.2.7.8.12	CAMAC cable IDIM (4)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
2140	1.2.2.7.8.13	CAMAC cable IDOM (4)	SLAC	B&H	1	0.3 wks	\$0.00	\$0.00	\$600.00	\$600.00	\$120.00	\$108.00	\$828.00
		SLACL PCD:Inst-Cabling-Elec Fab		B&H	0	0.3 wks	\$0.00	\$0.00	\$0.00	\$600.00	\$0.00	\$0.00	\$0.00
2141	1.2.2.7.8.13	CAMAC cable IDOM (4)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
2142	1.2.2.7.8.14	CAMAC cable DAC (4)	SLAC	ED&I	1	0.2 wks	\$0.00	\$0.00	\$384.00	\$384.00	\$76.80	\$69.12	\$529.92
		SLAC PCD:Coordinator Associate		ED&I	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$384.00	\$0.00	\$0.00	\$0.00
2143	1.2.2.7.8.14	CAMAC cable DAC (4)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
2144	1.2.2.7.8.15	WIRING OF PROFILE MONT. ASSEMBLY IN LAB (4)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
2145	1.2.2.7.9	E-O Diagnostic			0	2.04 wks	\$0.00	\$5,200.00	\$5,372.67	\$10,572.67	\$1,386.53	\$1,793.88	\$13,753.09
2146	1.2.2.7.9.1	Profile Monitor Camera/Electronics	SLAC	ED&I	1	1.5 wks	\$0.00	\$0.00	\$4,420.80	\$4,420.80	\$884.16	\$795.74	\$6,100.70
		SLAC Controls: Engineer		ED&I	0	1.5 wks	\$0.00	\$0.00	\$0.00	\$4,420.80	\$0.00	\$0.00	\$0.00
2147	1.2.2.7.9.1	Profile Monitor Camera/Electronics	SLAC	M&S	1	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$477.00	\$3,657.00
		SLAC M&S Total		M&S	0	3,000	\$0.00	\$0.00	\$0.00	\$3,000.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
2148	1.2.2.7.9.1	CAMAC Module, IDOM (1)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$6.31	\$48.40
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35.07</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2149	1.2.2.7.9.1	CAMAC Module, IDOM (1)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2150	1.2.2.7.9.1	CAMAC cable IDOM (1)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$40.00	\$40.00	\$8.00	\$7.20	\$55.20
		<i>SLACL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$40.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2151	1.2.2.7.9.1	CAMAC cable IDOM (1)	SLAC	M&S	1	0 wks	\$0.00	\$200.00	\$0.00	\$200.00	\$12.00	\$31.80	\$243.80
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>200</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2152	1.2.2.7.9.1	Actuator/Attenuator Interface panel	SLAC	B&H	1	0.5 wks	\$0.00	\$0.00	\$876.80	\$876.80	\$175.36	\$157.82	\$1,209.98
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$876.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2153	1.2.2.7.9.1	Multi-Cond. cable (4PR)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2154	1.2.2.7.10	RF Controls			0	9.16 wks	\$0.00	\$58,800.00	\$25,806.46	\$84,606.46	\$8,689.29	\$38,083.34	\$131,379.09
2155	1.2.2.7.10.2	RF Sector 24 Controls	SLAC		0	4.58 wks	\$0.00	\$29,400.00	\$12,887.23	\$42,287.23	\$4,341.45	\$19,038.79	\$65,667.47
2156	1.2.2.7.10.2	RF Phase & Amplitude, BLM, Temp. Controls Hdw.	SLAC	ED&I	4	4 wks	\$0.00	\$0.00	\$11,788.80	\$11,788.80	\$2,357.76	\$7,073.28	\$21,219.84
		<i>SLAC Controls: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,788.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2157	1.2.2.7.10.2	RF Phase & Amplitude, BLM, Temp. Controls Hdw.	SLAC	M&S	4	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$1,590.00	\$4,770.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2158	1.2.2.7.10.2	CAMAC Module, GADC (1)	SLAC	B&H	4	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$21.04	\$63.13
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35.07</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2159	1.2.2.7.10.2	CAMAC Module, GADC (1)	SLAC	M&S	4	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$480.00	\$4,240.00	\$12,720.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2160	1.2.2.7.10.2	CAMAC Module, DAC (1)	SLAC	B&H	4	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$21.04	\$63.13
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35.07</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2161	1.2.2.7.10.2	CAMAC Module, DAC (1)	SLAC	M&S	4	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$2,120.00	\$6,360.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2162	1.2.2.7.10.2	CAMAC Module, SAM (1)	SLAC	B&H	4	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$21.04	\$63.13
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35.07</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2163	1.2.2.7.10.2	CAMAC Module, SAM (1)	SLAC	M&S	4	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$1,590.00	\$4,770.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2164	1.2.2.7.10.2	CAMAC Module PAU (2)	SLAC	B&H	1	0.06 wks	\$0.00	\$0.00	\$105.22	\$105.22	\$21.04	\$18.94	\$145.20
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.06 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$105.22</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2165	1.2.2.7.10.2	CAMAC Module PAU (2)	SLAC	M&S	1	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$795.00	\$6,095.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2166	1.2.2.7.10.2	CAMAC cable GADC (1)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$40.00	\$40.00	\$8.00	\$7.20	\$55.20

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLACL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$40.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2167	1.2.2.7.10.2	CAMAC cable GADC (1)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2168	1.2.2.7.10.2	CAMAC cable DAC (1)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$40.00	\$40.00	\$8.00	\$7.20	\$55.20
		<i>SLACL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$40.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2169	1.2.2.7.10.2	CAMAC cable DAC (1)	SLAC	M&S	1	0 wks	\$0.00	\$400.00	\$0.00	\$400.00	\$24.00	\$63.60	\$487.60
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>400</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2170	1.2.2.7.10.2	CAMAC cable SAM (1)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$40.00	\$40.00	\$8.00	\$7.20	\$55.20
		<i>SLACL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$40.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2171	1.2.2.7.10.2	CAMAC cable SAM (1)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2172	1.2.2.7.10.2	Cblpnt Phase & Amp., BLM, TC's.(Gun & L0+L1+X-Band)	SLAC	M&S	4	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$530.00	\$1,590.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2173	1.2.2.7.10.2	Microprocessor Upgrade	SLAC	ED&I	1	0.4 wks	\$0.00	\$0.00	\$768.00	\$768.00	\$153.60	\$138.24	\$1,059.84
		<i>SLAC PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$768.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2174	1.2.2.7.10.2	Microprocessor Upgrade	SLAC	M&S	1	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$477.00	\$3,657.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2175	1.2.2.7.10.3	RF Sector 30 Controls	SLAC		0	4.58 wks	\$0.00	\$29,400.00	\$12,919.23	\$42,319.23	\$4,347.85	\$19,044.55	\$65,711.63
2176	1.2.2.7.10.3	RF Phase & Amplitude, BLM, Temp. Controls Hdw.	SLAC	ED&I	4	4 wks	\$0.00	\$0.00	\$11,788.80	\$11,788.80	\$2,357.76	\$7,073.28	\$21,219.84
		<i>SLAC Controls: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,788.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2177	1.2.2.7.10.3	RF Phase & Amplitude, BLM, Temp. Controls Hdw.	SLAC	M&S	4	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$1,590.00	\$4,770.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2178	1.2.2.7.10.3	CAMAC Module, GADC (1)	SLAC	B&H	4	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$21.04	\$63.13
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35.07</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2179	1.2.2.7.10.3	CAMAC Module, GADC (1)	SLAC	M&S	4	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$480.00	\$4,240.00	\$12,720.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2180	1.2.2.7.10.3	CAMAC Module, DAC (1)	SLAC	B&H	4	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$21.04	\$63.13
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35.07</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2181	1.2.2.7.10.3	CAMAC Module, DAC (1)	SLAC	M&S	4	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$2,120.00	\$6,360.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2182	1.2.2.7.10.3	CAMAC Module, SAM (1)	SLAC	B&H	4	0.02 wks	\$0.00	\$0.00	\$35.07	\$35.07	\$7.01	\$21.04	\$63.13
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35.07</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2183	1.2.2.7.10.3	CAMAC Module, SAM (1)	SLAC	M&S	4	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$1,590.00	\$4,770.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2184	1.2.2.7.10.3	CAMAC Module PAU (2)	SLAC	B&H	1	0.06 wks	\$0.00	\$0.00	\$105.22	\$105.22	\$21.04	\$18.94	\$145.20

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.06 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$105.22</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2185	1.2.2.7.10.3	CAMAC Module PAU (2)	SLAC	M&S	1	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$795.00	\$6,095.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2186	1.2.2.7.10.3	CAMAC cable GADC (1)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$40.00	\$40.00	\$8.00	\$7.20	\$55.20
		<i>SLACL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$40.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2187	1.2.2.7.10.3	CAMAC cable GADC (1)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2188	1.2.2.7.10.3	CAMAC cable DAC (1)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$40.00	\$40.00	\$8.00	\$7.20	\$55.20
		<i>SLACL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$40.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2189	1.2.2.7.10.3	CAMAC cable DAC (1)	SLAC	M&S	1	0 wks	\$0.00	\$400.00	\$0.00	\$400.00	\$24.00	\$63.60	\$487.60
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>400</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2190	1.2.2.7.10.3	CAMAC cable SAM (1)	SLAC	B&H	1	0.02 wks	\$0.00	\$0.00	\$40.00	\$40.00	\$8.00	\$7.20	\$55.20
		<i>SLACL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>0.02 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$40.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2191	1.2.2.7.10.3	CAMAC cable SAM (1)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2192	1.2.2.7.10.3	Cblplnt Phase & Amp., BLM, TC's.(Gun & L0+L1+X-Band)	SLAC	M&S	4	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$530.00	\$1,590.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2193	1.2.2.7.10.3	Microprocessor Upgrade	SLAC	ED&I	1	0.4 wks	\$0.00	\$0.00	\$800.00	\$800.00	\$160.00	\$144.00	\$1,104.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2194	1.2.2.7.10.3	Microprocessor Upgrade	SLAC	M&S	1	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$477.00	\$3,657.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2195	1.2.2.8	PPS			0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2196	1.2.2.8.1	Accelerator PPS	SLAC		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2197	1.2.2.9	RF			0	412.2 wks	\$0.00	\$765,000.00	\$1,158,804.80	\$1,923,804.80	\$277,660.96	\$658,735.40	\$2,860,201.16
2198	1.2.2.8.1	Accelerator PPS	SLAC		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2199	1.2.2.9.1	L1 Accelerator Structures			0	412.2 wks	\$0.00	\$765,000.00	\$1,158,804.80	\$1,923,804.80	\$277,660.96	\$658,735.40	\$2,860,201.16
2200	1.2.2.9.1.1	Structure Chopping & Refurbish	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2201	1.2.2.9.1.1	Structure Chopping & Refurbish	SLAC	B&H	2	6 wks	\$0.00	\$0.00	\$19,200.00	\$19,200.00	\$3,840.00	\$5,760.00	\$28,800.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$19,200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2202	1.2.2.9.1.2	Structure Testing	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$3,548.80	\$3,548.80	\$709.76	\$1,064.64	\$5,323.20
		<i>SLAC Klystron: Technician</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,548.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2203	1.2.2.9.1.3	Proc., Man. & Assembly Supervision	SLAC	ED&I	2	2 wks	\$0.00	\$0.00	\$6,720.00	\$6,720.00	\$1,344.00	\$2,016.00	\$10,080.00
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,720.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2204	1.2.2.9.1.4	High Power Waveguide	SLAC	B&H	2	6 wks	\$0.00	\$0.00	\$19,200.00	\$19,200.00	\$3,840.00	\$5,760.00	\$28,800.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$19,200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2205	1.2.2.9.1.5	Couplers	SLAC	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$795.00	\$3,975.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2206	1.2.2.9.1.5	Couplers	SLAC	B&H	2	3 wks	\$0.00	\$0.00	\$9,600.00	\$9,600.00	\$1,920.00	\$2,880.00	\$14,400.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2207	1.2.2.9.1.6	Loads	SLAC	B&H	2	1 wk	\$0.00	\$0.00	\$1,998.80	\$1,998.80	\$399.76	\$599.64	\$2,998.20
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,998.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2208	1.2.2.9.3	Accelerator Structures - Transverse			0	15 wks	\$0.00	\$9,000.00	\$44,492.00	\$53,492.00	\$9,438.40	\$11,892.60	\$74,823.00
2209	1.2.2.9.3.1	Structure Refurbish	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2210	1.2.2.9.3.1	Structure Refurbish	SLAC	B&H	0	4 wks	\$0.00	\$0.00	\$12,800.00	\$12,800.00	\$2,560.00	\$0.00	\$15,360.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2211	1.2.2.9.3.2	Structure Testing	SLAC	B&H	2	1 wk	\$0.00	\$0.00	\$1,774.40	\$1,774.40	\$354.88	\$532.32	\$2,661.60
		<i>SLAC Klystron: Technician</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,774.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2212	1.2.2.9.3.3	Proc., Man. & Assembly Supervision	SLAC	ED&I	2	2 wks	\$0.00	\$0.00	\$6,720.00	\$6,720.00	\$1,344.00	\$2,016.00	\$10,080.00
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,720.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2213	1.2.2.9.3.4	High Power Waveguide	SLAC	B&H	2	6 wks	\$0.00	\$0.00	\$19,200.00	\$19,200.00	\$3,840.00	\$5,760.00	\$28,800.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$19,200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2214	1.2.2.9.3.4	High Power Waveguide	SLAC	M&S	2	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$480.00	\$2,120.00	\$10,600.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2215	1.2.2.9.3.5	Couplers	SLAC	B&H	2	1 wk	\$0.00	\$0.00	\$1,998.80	\$1,998.80	\$399.76	\$599.64	\$2,998.20
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,998.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2216	1.2.2.9.3.6	Loads	SLAC	B&H	2	1 wk	\$0.00	\$0.00	\$1,998.80	\$1,998.80	\$399.76	\$599.64	\$2,998.20
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,998.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2217	1.2.2.9.2	Accelerator Structures - X-band			0	156.2 wks	\$0.00	\$426,000.00	\$456,226.80	\$882,226.80	\$116,805.36	\$349,661.26	\$1,348,693.42
2218	1.2.2.9.2.1	X-Band Klystrons	SLAC		0	39 wks	\$0.00	\$179,000.00	\$142,282.40	\$321,282.40	\$39,196.48	\$126,167.61	\$486,646.49
2219	1.2.2.9.2.1	X-Band Klystron	SLAC	M&S	3	0 wks	\$0.00	\$175,000.00	\$0.00	\$175,000.00	\$10,500.00	\$64,925.00	\$250,425.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>175,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$175,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2220	1.2.2.9.2.1	X-Band Klystron	SLAC	B&H	3	20 wks	\$0.00	\$0.00	\$100,000.00	\$100,000.00	\$20,000.00	\$42,000.00	\$162,000.00
		<i>SLAC Mech. Fab: Plating & Cleaning</i>		<i>B&H</i>	<i>0</i>	<i>20 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$100,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2221	1.2.2.9.2.1	Coordinate	SLAC	ED&I	3	5 wks	\$0.00	\$0.00	\$10,728.00	\$10,728.00	\$2,145.60	\$4,505.76	\$17,379.36
		<i>SLAC Klystron: Coordinator Assoc.</i>		<i>ED&I</i>	<i>0</i>	<i>5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,728.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2222	1.2.2.9.2.1	Assemble	SLAC	ED&I	3	4 wks	\$0.00	\$0.00	\$11,572.80	\$11,572.80	\$2,314.56	\$4,860.58	\$18,747.94
		<i>SLAC Klystron: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,572.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2223	1.2.2.9.2.1	Assemble	SLAC	B&H	3	5 wks	\$0.00	\$0.00	\$8,872.00	\$8,872.00	\$1,774.40	\$3,726.24	\$14,372.64

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC Klystron: Technician</i>		<i>B&H</i>	<i>0</i>	<i>5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,872.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2224	1.2.2.9.2.1	Test	SLAC	ED&I	3	2 wks	\$0.00	\$0.00	\$5,786.40	\$5,786.40	\$1,157.28	\$2,430.29	\$9,373.97
		<i>SLAC Klystron: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,786.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2225	1.2.2.9.2.1	Test	SLAC	B&H	3	2 wks	\$0.00	\$0.00	\$3,548.80	\$3,548.80	\$709.76	\$1,490.50	\$5,749.06
		<i>SLAC Klystron: Technician</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,548.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2226	1.2.2.9.2.1	Mounting Support	SLAC	M&S	3	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$1,484.00	\$5,724.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2227	1.2.2.9.2.1	Mounting Support	SLAC	B&H	3	1 wk	\$0.00	\$0.00	\$1,774.40	\$1,774.40	\$354.88	\$745.25	\$2,874.53
		<i>SLAC Klystron: Technician</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,774.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2228	1.2.2.9.2.2	Modulator	SLAC		0	18 wks	\$0.00	\$78,000.00	\$37,682.80	\$115,682.80	\$12,216.56	\$44,764.78	\$172,664.14
2229	1.2.2.9.2.2	Tank	SLAC	B&H	3	1 wk	\$0.00	\$0.00	\$1,774.40	\$1,774.40	\$354.88	\$745.25	\$2,874.53
		<i>SLAC Klystron: Technician</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,774.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2230	1.2.2.9.2.2	Tank	SLAC	M&S	3	0 wks	\$0.00	\$15,000.00	\$0.00	\$15,000.00	\$900.00	\$5,565.00	\$21,465.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>15,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$15,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2231	1.2.2.9.2.2	Pulse Transformer	SLAC	M&S	3	0 wks	\$0.00	\$18,000.00	\$0.00	\$18,000.00	\$1,080.00	\$6,678.00	\$25,758.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>18,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$18,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2232	1.2.2.9.2.2	Pulse Cable	SLAC	M&S	3	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$1,113.00	\$4,293.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2233	1.2.2.9.2.2	Cap Divider	SLAC	M&S	3	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$742.00	\$2,862.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2234	1.2.2.9.2.2	Heater Isolation	SLAC	M&S	3	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$742.00	\$2,862.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2235	1.2.2.9.2.2	Heater Supply	SLAC	M&S	3	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2236	1.2.2.9.2.2	Toroid + Misc	SLAC	M&S	3	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$742.00	\$2,862.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2237	1.2.2.9.2.2	Interlocks	SLAC	M&S	3	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$1,113.00	\$4,293.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2238	1.2.2.9.2.2	HV Connector	SLAC	M&S	3	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$742.00	\$2,862.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2239	1.2.2.9.2.2	Cable Install	SLAC	ED&I	3	2 wks	\$0.00	\$0.00	\$4,291.20	\$4,291.20	\$858.24	\$1,802.30	\$6,951.74
		<i>SLAC Klystron: Coordinator Assoc.</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,291.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2240	1.2.2.9.2.2	Cable Install	SLAC	B&H	3	2 wks	\$0.00	\$0.00	\$4,000.00	\$4,000.00	\$800.00	\$1,680.00	\$6,480.00
		<i>SLACL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2241	1.2.2.9.2.2	Assemble	SLAC	ED&I	3	1 wk	\$0.00	\$0.00	\$2,893.20	\$2,893.20	\$578.64	\$1,215.14	\$4,686.98

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC Klystron: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,893.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2242	1.2.2.9.2.2	Assemble	SLAC	B&H	3	3 wks	\$0.00	\$0.00	\$5,323.20	\$5,323.20	\$1,064.64	\$2,235.74	\$8,623.58
		<i>SLAC Klystron: Technician</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,323.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2243	1.2.2.9.2.2	Test	SLAC	ED&I	3	2 wks	\$0.00	\$0.00	\$5,786.40	\$5,786.40	\$1,157.28	\$2,430.29	\$9,373.97
		<i>SLAC Klystron: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,786.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2244	1.2.2.9.2.2	Test	SLAC	B&H	3	3 wks	\$0.00	\$0.00	\$5,323.20	\$5,323.20	\$1,064.64	\$2,235.74	\$8,623.58
		<i>SLAC Klystron: Technician</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,323.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2245	1.2.2.9.2.2	Magnet Power Supplies	SLAC	M&S	3	0 wks	\$0.00	\$25,000.00	\$0.00	\$25,000.00	\$1,500.00	\$9,275.00	\$35,775.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>25,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$25,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2246	1.2.2.9.2.2	Power Supply Cabling	SLAC	ED&I	3	2 wks	\$0.00	\$0.00	\$4,291.20	\$4,291.20	\$858.24	\$1,802.30	\$6,951.74
		<i>SLAC Klystron: Coordinator Assoc.</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,291.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2247	1.2.2.9.2.2	Power Supply Cabling	SLAC	M&S	3	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$1,855.00	\$7,155.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2248	1.2.2.9.2.2	Power Supply Cabling	SLAC	B&H	3	2 wks	\$0.00	\$0.00	\$4,000.00	\$4,000.00	\$800.00	\$1,680.00	\$6,480.00
		<i>SLACL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2249	1.2.2.9.2.2	Cathode Ion Pump	SLAC	M&S	3	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$371.00	\$1,431.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2250	1.2.2.9.2.3	X-Band LLRF	SLAC		0	12 wks	\$0.00	\$65,000.00	\$24,724.00	\$89,724.00	\$8,844.80	\$34,499.08	\$133,067.88
2251	1.2.2.9.2.3	TWT Driver	SLAC	M&S	3	0 wks	\$0.00	\$25,000.00	\$0.00	\$25,000.00	\$1,500.00	\$9,275.00	\$35,775.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>25,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$25,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2252	1.2.2.9.2.3	4X multiplier	SLAC	M&S	3	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$742.00	\$2,862.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2253	1.2.2.9.2.3	Phase&Amp Det X-Band	SLAC	M&S	3	0 wks	\$0.00	\$25,000.00	\$0.00	\$25,000.00	\$1,500.00	\$9,275.00	\$35,775.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>25,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$25,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2254	1.2.2.9.2.3	RF Cables	SLAC	ED&I	3	2 wks	\$0.00	\$0.00	\$4,291.20	\$4,291.20	\$858.24	\$1,802.30	\$6,951.74
		<i>SLAC Klystron: Coordinator Assoc.</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,291.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2255	1.2.2.9.2.3	RF Cables	SLAC	B&H	3	2 wks	\$0.00	\$0.00	\$4,000.00	\$4,000.00	\$800.00	\$1,680.00	\$6,480.00
		<i>SLACL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2256	1.2.2.9.2.3	RF Cables	SLAC	M&S	3	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$742.00	\$2,862.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2257	1.2.2.9.2.3	Stripline Couplers	SLAC	M&S	3	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$1,484.00	\$5,724.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2258	1.2.2.9.2.3	Assemble	SLAC	B&H	3	3 wks	\$0.00	\$0.00	\$5,323.20	\$5,323.20	\$1,064.64	\$2,235.74	\$8,623.58
		<i>SLAC Klystron: Technician</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,323.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2259	1.2.2.9.2.3	Assemble	SLAC	M&S	3	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$742.00	\$2,862.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2260	1.2.2.9.2.3	Test	SLAC	ED&I	3	2 wks	\$0.00	\$0.00	\$5,786.40	\$5,786.40	\$1,157.28	\$2,430.29	\$9,373.97
		<i>SLAC Klystron: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,786.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2261	1.2.2.9.2.3	Test	SLAC	B&H	3	3 wks	\$0.00	\$0.00	\$5,323.20	\$5,323.20	\$1,064.64	\$2,235.74	\$8,623.58
		<i>SLAC Klystron: Technician</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,323.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2262	1.2.2.9.2.3	Drive Monitoring	SLAC	M&S	3	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$1,855.00	\$7,155.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2263	1.2.2.9.2.4	Waveguide System	SLAC		0	15.5 wks	\$0.00	\$39,000.00	\$41,918.00	\$80,918.00	\$10,723.60	\$32,074.56	\$123,716.16
2264	1.2.2.9.2.4	Broadwall Coupler (3ea)	SLAC	B&H	3	2 wks	\$0.00	\$0.00	\$6,400.00	\$6,400.00	\$1,280.00	\$2,688.00	\$10,368.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2265	1.2.2.9.2.4	Broadwall Coupler (3ea)	SLAC	M&S	3	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$1,113.00	\$4,293.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2266	1.2.2.9.2.4	Mode Conv (3ea)	SLAC	B&H	3	1 wk	\$0.00	\$0.00	\$3,200.00	\$3,200.00	\$640.00	\$1,344.00	\$5,184.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2267	1.2.2.9.2.4	Mode Conv (3ea)	SLAC	M&S	3	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$742.00	\$2,862.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2268	1.2.2.9.2.4	Circular Waveguide (45ft)	SLAC	B&H	3	2.5 wks	\$0.00	\$0.00	\$8,000.00	\$8,000.00	\$1,600.00	\$3,360.00	\$12,960.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>2.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2269	1.2.2.9.2.4	Circular Waveguide (45ft)	SLAC	M&S	3	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$1,113.00	\$4,293.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2270	1.2.2.9.2.4	WR90 Waveguide (20ft)	SLAC	B&H	3	1 wk	\$0.00	\$0.00	\$3,200.00	\$3,200.00	\$640.00	\$1,344.00	\$5,184.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2271	1.2.2.9.2.4	WR90 Waveguide (20ft)	SLAC	M&S	3	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$371.00	\$1,431.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2272	1.2.2.9.2.4	Ion Pumps (8ea)	SLAC	M&S	3	0 wks	\$0.00	\$12,000.00	\$0.00	\$12,000.00	\$720.00	\$4,452.00	\$17,172.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>12,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2273	1.2.2.9.2.4	Ion Pump P.S. (4ea)	SLAC	M&S	3	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$600.00	\$3,710.00	\$14,310.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2274	1.2.2.9.2.4	Ion Gauge & Controller	SLAC	M&S	3	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$1,113.00	\$4,293.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2275	1.2.2.9.2.4	W/G Supports (5ea)	SLAC	M&S	3	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$1,113.00	\$4,293.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2276	1.2.2.9.2.4	Assemble	SLAC	ED&I	3	2 wks	\$0.00	\$0.00	\$5,786.40	\$5,786.40	\$1,157.28	\$2,430.29	\$9,373.97
		<i>SLAC Klystron: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,786.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2277	1.2.2.9.2.4	Assemble	SLAC	B&H	3	3 wks	\$0.00	\$0.00	\$5,996.40	\$5,996.40	\$1,199.28	\$2,518.49	\$9,714.17

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,996.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2278	1.2.2.9.2.4	Assemble	SLAC	M&S	3	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$742.00	\$2,862.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2279	1.2.2.9.2.4	Test	SLAC	ED&I	3	2 wks	\$0.00	\$0.00	\$5,786.40	\$5,786.40	\$1,157.28	\$2,430.29	\$9,373.97
		<i>SLAC Klystron: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,786.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2280	1.2.2.9.2.4	Test	SLAC	B&H	3	2 wks	\$0.00	\$0.00	\$3,548.80	\$3,548.80	\$709.76	\$1,490.50	\$5,749.06
		<i>SLAC Klystron: Technician</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,548.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2281	1.2.2.9.2.5	X-BAND STRUCTURE	SLAC		0	71.7 wks	\$0.00	\$65,000.00	\$209,619.60	\$274,619.60	\$45,823.92	\$112,155.23	\$432,598.75
2282	1.2.2.9.2.5	Structure Kly Labor	SLAC	B&H	3	44 wks	\$0.00	\$0.00	\$140,800.00	\$140,800.00	\$28,160.00	\$59,136.00	\$228,096.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>44 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$140,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2283	1.2.2.9.2.5	Structure Kly Labor	SLAC	M&S	3	0 wks	\$0.00	\$50,000.00	\$0.00	\$50,000.00	\$3,000.00	\$18,550.00	\$71,550.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>50,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$50,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2284	1.2.2.9.2.5	Structure Shop Labor	SLAC	B&H	3	6.7 wks	\$0.00	\$0.00	\$21,440.00	\$21,440.00	\$4,288.00	\$9,004.80	\$34,732.80
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>6.7 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$21,440.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2285	1.2.2.9.2.5	WR90 Tee	SLAC	B&H	3	2 wks	\$0.00	\$0.00	\$6,400.00	\$6,400.00	\$1,280.00	\$2,688.00	\$10,368.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2286	1.2.2.9.2.5	WR90 Tee	SLAC	M&S	3	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$1,113.00	\$4,293.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2287	1.2.2.9.2.5	WR90 Loads	SLAC	B&H	3	1 wk	\$0.00	\$0.00	\$3,200.00	\$3,200.00	\$640.00	\$1,344.00	\$5,184.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2288	1.2.2.9.2.5	WR90 Loads	SLAC	M&S	3	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$742.00	\$2,862.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2289	1.2.2.9.2.5	Structure Support	SLAC	B&H	3	1 wk	\$0.00	\$0.00	\$3,200.00	\$3,200.00	\$640.00	\$1,344.00	\$5,184.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2290	1.2.2.9.2.5	Structure Support	SLAC	M&S	3	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$1,484.00	\$5,724.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2291	1.2.2.9.2.5	Assemble	SLAC	B&H	3	3 wks	\$0.00	\$0.00	\$5,996.40	\$5,996.40	\$1,199.28	\$2,518.49	\$9,714.17
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,996.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2292	1.2.2.9.2.5	Assemble	SLAC	M&S	3	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$1,113.00	\$4,293.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2293	1.2.2.9.2.5	Transport	SLAC	B&H	3	1 wk	\$0.00	\$0.00	\$1,600.00	\$1,600.00	\$320.00	\$672.00	\$2,592.00
		<i>SLAC Site Engineering: Plant Maint.</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2294	1.2.2.9.2.5	Installation	SLAC	B&H	3	4 wks	\$0.00	\$0.00	\$7,995.20	\$7,995.20	\$1,599.04	\$3,357.98	\$12,952.22
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,995.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2295	1.2.2.9.2.5	Installation	SLAC	M&S	3	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$1,113.00	\$4,293.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2296	1.2.2.9.2.5	Cable Install	SLAC	ED&I	3	1 wk	\$0.00	\$0.00	\$2,145.60	\$2,145.60	\$429.12	\$901.15	\$3,475.87
		<i>SLAC Klystron: Coordinator Assoc.</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,145.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2297	1.2.2.9.2.5	Cable Install	SLAC	B&H	3	2 wks	\$0.00	\$0.00	\$4,000.00	\$4,000.00	\$800.00	\$1,680.00	\$6,480.00
		<i>SLACL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2298	1.2.2.9.2.5	Alignment	SLAC	B&H	3	2 wks	\$0.00	\$0.00	\$3,507.20	\$3,507.20	\$701.44	\$1,473.02	\$5,681.66
		<i>SLAC PCD:Technician</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,507.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2299	1.2.2.9.2.5	Process	SLAC	B&H	3	2 wks	\$0.00	\$0.00	\$3,548.80	\$3,548.80	\$709.76	\$1,490.50	\$5,749.06
		<i>SLAC Klystron: Technician</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,548.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2300	1.2.2.9.2.5	Test	SLAC	ED&I	3	2 wks	\$0.00	\$0.00	\$5,786.40	\$5,786.40	\$1,157.28	\$2,430.29	\$9,373.97
		<i>SLAC Klystron: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,786.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2301	1.2.2.9.4	RF Distribution System			0	221 wks	\$0.00	\$325,000.00	\$597,818.40	\$922,818.40	\$139,063.68	\$277,776.26	\$1,339,658.34
2302	1.2.2.9.4.1	Modulator Referbish (7)	SLAC		0	7 wks	\$0.00	\$84,000.00	\$12,275.20	\$96,275.20	\$7,495.04	\$25,942.56	\$129,712.80
2303	1.2.2.9.4.1	Refurbish Modulator	SLAC	B&H	2	7 wks	\$0.00	\$0.00	\$12,275.20	\$12,275.20	\$2,455.04	\$3,682.56	\$18,412.80
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>7 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,275.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2304	1.2.2.9.4.1	Thyratron and Parts	SLAC	M&S	2	0 wks	\$0.00	\$84,000.00	\$0.00	\$84,000.00	\$5,040.00	\$22,260.00	\$111,300.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>84,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$84,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2305	1.2.2.9.4.2	Solid State Subbooster (6)	SLAC		0	12 wks	\$0.00	\$72,000.00	\$21,292.80	\$93,292.80	\$8,578.56	\$25,467.84	\$127,339.20
2306	1.2.2.9.4.2	Amplifier	SLAC	B&H	2	6 wks	\$0.00	\$0.00	\$10,646.40	\$10,646.40	\$2,129.28	\$3,193.92	\$15,969.60
		<i>SLAC Klystron: Technician</i>		<i>B&H</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,646.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2307	1.2.2.9.4.2	Amplifier	SLAC	M&S	2	0 wks	\$0.00	\$60,000.00	\$0.00	\$60,000.00	\$3,600.00	\$15,900.00	\$79,500.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>60,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$60,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2308	1.2.2.9.4.2	Phase Control	SLAC	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$1,590.00	\$7,950.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2309	1.2.2.9.4.2	Amplitude Control	SLAC	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$1,590.00	\$7,950.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2310	1.2.2.9.4.2	Integration	SLAC	B&H	2	6 wks	\$0.00	\$0.00	\$10,646.40	\$10,646.40	\$2,129.28	\$3,193.92	\$15,969.60
		<i>SLAC Klystron: Technician</i>		<i>B&H</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,646.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2311	1.2.2.9.4.3	IPA Modifications (6)	SLAC		0	4 wks	\$0.00	\$6,000.00	\$7,097.60	\$13,097.60	\$1,779.52	\$3,719.28	\$18,596.40
2312	1.2.2.9.4.3	Modify IPA Chassis	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$3,548.80	\$3,548.80	\$709.76	\$1,064.64	\$5,323.20
		<i>SLAC Klystron: Technician</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,548.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2313	1.2.2.9.4.3	Modify IPA Chassis	SLAC	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$795.00	\$3,975.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2314	1.2.2.9.4.3	Recable Station	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$3,548.80	\$3,548.80	\$709.76	\$1,064.64	\$5,323.20
		<i>SLAC Klystron: Technician</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,548.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
2315	1.2.2.9.4.3	Recable Station	SLAC	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$795.00	\$3,975.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2316	1.2.2.9.4.4	Control Interface(6)	SLAC		0	3 wks	\$0.00	\$6,000.00	\$5,774.40	\$11,774.40	\$1,514.88	\$3,322.32	\$16,611.60
2317	1.2.2.9.4.4	Cables	SLAC	B&H	2	1 wk	\$0.00	\$0.00	\$1,774.40	\$1,774.40	\$354.88	\$532.32	\$2,661.60
		<i>SLAC Klystron: Technician</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,774.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2318	1.2.2.9.4.4	Installation	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$4,000.00	\$4,000.00	\$800.00	\$1,200.00	\$6,000.00
		<i>SLACL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2319	1.2.2.9.4.4	Installation	SLAC	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$1,590.00	\$7,950.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2320	1.2.2.9.4.5	Beam Phase / Length Electronics	SLAC		0	3 wks	\$0.00	\$30,000.00	\$5,323.20	\$35,323.20	\$2,864.64	\$19,093.92	\$57,281.76
2321	1.2.2.9.4.5	Fabrication	SLAC	M&S	4	0 wks	\$0.00	\$30,000.00	\$0.00	\$30,000.00	\$1,800.00	\$15,900.00	\$47,700.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>30,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$30,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2322	1.2.2.9.4.5	Fabrication	SLAC	B&H	4	3 wks	\$0.00	\$0.00	\$5,323.20	\$5,323.20	\$1,064.64	\$3,193.92	\$9,581.76
		<i>SLAC Klystron: Technician</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,323.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2323	1.2.2.9.4.6	RF Phase Measurement	SLAC		0	3 wks	\$0.00	\$20,000.00	\$5,323.20	\$25,323.20	\$2,264.64	\$9,655.74	\$37,243.58
2324	1.2.2.9.4.6	X-Band Chassis	SLAC	B&H	3	1 wk	\$0.00	\$0.00	\$1,774.40	\$1,774.40	\$354.88	\$745.25	\$2,874.53
		<i>SLAC Klystron: Technician</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,774.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2325	1.2.2.9.4.6	X-Band Chassis	SLAC	M&S	3	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$600.00	\$3,710.00	\$14,310.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2326	1.2.2.9.4.6	X-Band PAD Mods	SLAC	B&H	3	2 wks	\$0.00	\$0.00	\$3,548.80	\$3,548.80	\$709.76	\$1,490.50	\$5,749.06
		<i>SLAC Klystron: Technician</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,548.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2327	1.2.2.9.4.6	X-Band PAD Mods	SLAC	M&S	3	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$600.00	\$3,710.00	\$14,310.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2328	1.2.2.9.4.7	RF Distribution L2, L4	SLAC		0	24 wks	\$0.00	\$63,000.00	\$49,281.60	\$112,281.60	\$13,636.32	\$31,479.48	\$157,397.40
2329	1.2.2.9.4.7	1 km 1/2 Superflex	SLAC	B&H	2	3 wks	\$0.00	\$0.00	\$6,000.00	\$6,000.00	\$1,200.00	\$1,800.00	\$9,000.00
		<i>SLACL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2330	1.2.2.9.4.7	1 km 1/2 Superflex	SLAC	M&S	2	0 wks	\$0.00	\$20,000.00	\$0.00	\$20,000.00	\$1,200.00	\$5,300.00	\$26,500.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>20,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$20,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2331	1.2.2.9.4.7	Cable Guides	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$4,000.00	\$4,000.00	\$800.00	\$1,200.00	\$6,000.00
		<i>SLACL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2332	1.2.2.9.4.7	Cable Guides	SLAC	M&S	2	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$600.00	\$2,650.00	\$13,250.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2333	1.2.2.9.4.7	RF Dist. PRL Coaxial Water	SLAC		2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2334	1.2.2.9.4.7	Coaxil Water Lines Fab	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$6,400.00	\$6,400.00	\$1,280.00	\$1,920.00	\$9,600.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
2335	1.2.2.9.4.7	Coaxial Water Lines Fab	SLAC	M&S	2	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$480.00	\$2,120.00	\$10,600.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2336	1.2.2.9.4.7	Cable Installation	SLAC	B&H	2	4 wks	\$0.00	\$0.00	\$7,097.60	\$7,097.60	\$1,419.52	\$2,129.28	\$10,646.40
		<i>SLAC Klystron: Technician</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,097.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2337	1.2.2.9.4.7	Cable Installation	SLAC	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$795.00	\$3,975.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2338	1.2.2.9.4.7	Plumbing	SLAC	B&H	2	1 wk	\$0.00	\$0.00	\$2,680.00	\$2,680.00	\$536.00	\$804.00	\$4,020.00
		<i>SLAC T&M Crafts - Union Pipefitter</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,680.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2339	1.2.2.9.4.7	Plumbing	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2340	1.2.2.9.4.7	2 Watt Distribution Amp [10]	SLAC		2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2341	1.2.2.9.4.7	Fab	SLAC	B&H	2	10 wks	\$0.00	\$0.00	\$17,744.00	\$17,744.00	\$3,548.80	\$5,323.20	\$26,616.00
		<i>SLAC Klystron: Technician</i>		<i>B&H</i>	<i>0</i>	<i>10 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$17,744.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2342	1.2.2.9.4.7	Fab	SLAC	M&S	2	0 wks	\$0.00	\$20,000.00	\$0.00	\$20,000.00	\$1,200.00	\$5,300.00	\$26,500.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>20,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$20,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2343	1.2.2.9.4.7	Installation	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$5,360.00	\$5,360.00	\$1,072.00	\$1,608.00	\$8,040.00
		<i>SLAC T&M Crafts - Union Pipefitter</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,360.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2344	1.2.2.9.4.7	Installation	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2345	1.2.2.9.4.8	Experimentors F.O.RF Ref.	SLAC		0	15 wks	\$0.00	\$44,000.00	\$29,430.40	\$73,430.40	\$8,526.08	\$20,489.12	\$102,445.60
2346	1.2.2.9.4.8	Exp. F.O. RF Ref. Electronics	SLAC	B&H	2	12 wks	\$0.00	\$0.00	\$21,043.20	\$21,043.20	\$4,208.64	\$6,312.96	\$31,564.80
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>12 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$21,043.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2347	1.2.2.9.4.8	Exp. F.O. RF Ref. Electronics	SLAC	M&S	2	0 wks	\$0.00	\$30,000.00	\$0.00	\$30,000.00	\$1,800.00	\$7,950.00	\$39,750.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>30,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$30,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2348	1.2.2.9.4.8	Fiber Optic Installation 2km	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$5,440.00	\$5,440.00	\$1,088.00	\$1,632.00	\$8,160.00
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,440.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2349	1.2.2.9.4.8	Fiber Optic Installation 2km	SLAC	M&S	2	0 wks	\$0.00	\$14,000.00	\$0.00	\$14,000.00	\$840.00	\$3,710.00	\$18,550.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>14,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$14,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2350	1.2.2.9.4.8	Testing	SLAC	ED&I	2	1 wk	\$0.00	\$0.00	\$2,947.20	\$2,947.20	\$589.44	\$884.16	\$4,420.80
		<i>SLAC Controls: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,947.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2351	1.2.2.9.4.9	RF Stability Testing	SLAC		0	150 wks	\$0.00	\$0.00	\$462,020.00	\$462,020.00	\$92,404.00	\$138,606.00	\$693,030.00
2352	1.2.2.9.4.9	RF feedback measurements	SLAC	ED&I	2	50 wks	\$0.00	\$0.00	\$144,660.00	\$144,660.00	\$28,932.00	\$43,398.00	\$216,990.00
		<i>SLAC Klystron: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>50 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$144,660.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2353	1.2.2.9.4.9	RF Feedback Setup	SLAC	ED&I	2	50 wks	\$0.00	\$0.00	\$170,000.00	\$170,000.00	\$34,000.00	\$51,000.00	\$255,000.00
		<i>SLAC Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>50 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$170,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
2354	1.2.2.9.4.9	RF Feedback Algorithm Adjustments	SLAC	ED&I	2	50 wks	\$0.00	\$0.00	\$147,360.00	\$147,360.00	\$29,472.00	\$44,208.00	\$221,040.00
		SLAC Controls: Engineer		ED&I	0	50 wks	\$0.00	\$0.00	\$0.00	\$147,360.00	\$0.00	\$0.00	\$0.00
2355	1.2.3	UNDULATOR			0	2,684.95 wks	\$5,627,398.00	\$26,049,000.00	\$2,057,317.44	\$33,733,715.44	\$5,384,051.70	\$10,830,563.32	\$49,948,330.47
2356	1.2.3.1	PED			0	1,874.5 wks	\$5,627,398.00	\$0.00	\$0.00	\$5,627,398.00	\$1,496,754.22	\$2,390,233.12	\$9,514,385.34
2357	1.2.3.1.1	Undulators			0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2358	1.2.3.1.1.1	Design Engineer	ANL		4	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2359	1.2.3.1.1.2	Drafting	ANL		4	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2360	1.2.3.1.2	Und. mech sys PED			0	303 wks	\$940,808.40	\$0.00	\$0.00	\$940,808.40	\$257,131.74	\$419,279.05	\$1,617,219.20
2361	1.2.3.1.2.1	proj management	ANL	ED&I	3	48 wks	\$142,675.20	\$0.00	\$0.00	\$142,675.20	\$42,517.21	\$64,817.34	\$250,009.75
	1.2.3.1.2.1	ANL Project Management		ED&I	0	48 wks	\$0.00	\$0.00	\$0.00	\$142,675.20	\$0.00	\$0.00	\$0.00
2362	1.2.3.1.2.1	engineering	ANL	ED&I	3	36 wks	\$107,006.40	\$0.00	\$0.00	\$107,006.40	\$31,887.91	\$48,613.01	\$187,507.31
	1.2.3.1.2.1	ANL Mechanical Engineer		ED&I	0	36 wks	\$0.00	\$0.00	\$0.00	\$107,006.40	\$0.00	\$0.00	\$0.00
2363	1.2.3.1.2.1	engineering	ANL	ED&I	3	36 wks	\$107,006.40	\$0.00	\$0.00	\$107,006.40	\$31,887.91	\$48,613.01	\$187,507.31
	1.2.3.1.2.1	ANL Physicist - Senior Scientist		ED&I	0	36 wks	\$0.00	\$0.00	\$0.00	\$107,006.40	\$0.00	\$0.00	\$0.00
2364	1.2.3.1.2.1	design	ANL	ED&I	3	52 wks	\$105,747.20	\$0.00	\$0.00	\$105,747.20	\$31,512.67	\$48,040.95	\$185,300.82
	1.2.3.1.2.1	ANL Mech Drafting/Design		ED&I	0	52 wks	\$0.00	\$0.00	\$0.00	\$105,747.20	\$0.00	\$0.00	\$0.00
2365	1.2.3.1.2.1	design	ANL	ED&I	3	24 wks	\$71,337.60	\$0.00	\$0.00	\$71,337.60	\$21,258.60	\$32,408.67	\$125,004.88
	1.2.3.1.2.1	ANL Physicist -Scientist		ED&I	0	24 wks	\$0.00	\$0.00	\$0.00	\$71,337.60	\$0.00	\$0.00	\$0.00
2366	1.2.3.1.2.1	prototype	ANL	ED&I	3	24 wks	\$71,337.60	\$0.00	\$0.00	\$71,337.60	\$21,258.60	\$32,408.67	\$125,004.88
	1.2.3.1.2.1	ANL Mechanical Engineer		ED&I	0	24 wks	\$0.00	\$0.00	\$0.00	\$71,337.60	\$0.00	\$0.00	\$0.00
2367	1.2.3.1.2.1	prototype	ANL	ED&I	3	24 wks	\$71,337.60	\$0.00	\$0.00	\$71,337.60	\$21,258.60	\$32,408.67	\$125,004.88
	1.2.3.1.2.1	ANL Physicist -Scientist		ED&I	0	24 wks	\$0.00	\$0.00	\$0.00	\$71,337.60	\$0.00	\$0.00	\$0.00
2368	1.2.3.1.2.1	prototype	ANL	B&H	3	24 wks	\$48,806.40	\$0.00	\$0.00	\$48,806.40	\$11,811.15	\$21,216.14	\$81,833.69
	1.2.3.1.2.1	ANL PCD:Technician		B&H	0	24 wks	\$0.00	\$0.00	\$0.00	\$48,806.40	\$0.00	\$0.00	\$0.00
2369	1.2.3.1.2.1	prototype	ANL	M&S	3	0 wks	\$122,000.00	\$0.00	\$0.00	\$122,000.00	\$15,860.00	\$48,251.00	\$186,111.00
		ANL M&S Total		M&S	0	122,000	\$0.00	\$0.00	\$0.00	\$122,000.00	\$0.00	\$0.00	\$0.00
2370	1.2.3.1.2.1	installation procedure	ANL	ED&I	3	8 wks	\$23,779.20	\$0.00	\$0.00	\$23,779.20	\$7,086.20	\$10,802.89	\$41,668.29
	1.2.3.1.2.1	ANL Mechanical Engineer		ED&I	0	8 wks	\$0.00	\$0.00	\$0.00	\$23,779.20	\$0.00	\$0.00	\$0.00
2371	1.2.3.1.2.1	installation procedure	ANL	ED&I	3	8 wks	\$13,299.20	\$0.00	\$0.00	\$13,299.20	\$3,963.16	\$6,041.83	\$23,304.19
	1.2.3.1.2.1	ANL Administration		ED&I	0	8 wks	\$0.00	\$0.00	\$0.00	\$13,299.20	\$0.00	\$0.00	\$0.00
2372	1.2.3.1.2.1	prepare bid package	ANL	ED&I	3	3 wks	\$8,917.20	\$0.00	\$0.00	\$8,917.20	\$2,657.33	\$4,051.08	\$15,625.61
	1.2.3.1.2.1	ANL Project Management		ED&I	0	3 wks	\$0.00	\$0.00	\$0.00	\$8,917.20	\$0.00	\$0.00	\$0.00
2373	1.2.3.1.2.1	prepare bid package	ANL	ED&I	3	8 wks	\$23,779.20	\$0.00	\$0.00	\$23,779.20	\$7,086.20	\$10,802.89	\$41,668.29
	1.2.3.1.2.1	ANL Mechanical Engineer		ED&I	0	8 wks	\$0.00	\$0.00	\$0.00	\$23,779.20	\$0.00	\$0.00	\$0.00
2374	1.2.3.1.2.1	prepare bid package	ANL	ED&I	3	8 wks	\$23,779.20	\$0.00	\$0.00	\$23,779.20	\$7,086.20	\$10,802.89	\$41,668.29

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
	1.2.3.1.2.1	<i>ANL Physicist -Scientist</i>		<i>ED&I</i>	0	8 wks	\$0.00	\$0.00	\$0.00	\$23,779.20	\$0.00	\$0.00	\$0.00
2375	1.2.3.1.3	Und. vac sys PED			0	306 wks	\$923,795.60	\$0.00	\$0.00	\$923,795.60	\$255,757.93	\$412,843.74	\$1,592,397.27
2376	1.2.3.1.3.1	Proj management	ANL	ED&I	3	48 wks	\$142,675.20	\$0.00	\$0.00	\$142,675.20	\$42,517.21	\$64,817.34	\$250,009.75
		<i>ANL Project Management</i>		<i>ED&I</i>	0	48 wks	\$0.00	\$0.00	\$0.00	\$142,675.20	\$0.00	\$0.00	\$0.00
2377	1.2.3.1.3.2	Engineering	ANL	ED&I	3	48 wks	\$142,675.20	\$0.00	\$0.00	\$142,675.20	\$42,517.21	\$64,817.34	\$250,009.75
		<i>ANL Mechanical Engineer</i>		<i>ED&I</i>	0	48 wks	\$0.00	\$0.00	\$0.00	\$142,675.20	\$0.00	\$0.00	\$0.00
2378	1.2.3.1.3.2	Engineering	ANL	ED&I	3	24 wks	\$71,337.60	\$0.00	\$0.00	\$71,337.60	\$21,258.60	\$32,408.67	\$125,004.88
		<i>ANL Physicist -Scientist</i>		<i>ED&I</i>	0	24 wks	\$0.00	\$0.00	\$0.00	\$71,337.60	\$0.00	\$0.00	\$0.00
2379	1.2.3.1.3.3	Design	ANL	ED&I	3	52 wks	\$105,747.20	\$0.00	\$0.00	\$105,747.20	\$31,512.67	\$48,040.95	\$185,300.82
		<i>ANL Mech Drafting/Design</i>		<i>ED&I</i>	0	52 wks	\$0.00	\$0.00	\$0.00	\$105,747.20	\$0.00	\$0.00	\$0.00
2380	1.2.3.1.3.3	Design	ANL	ED&I	3	24 wks	\$71,337.60	\$0.00	\$0.00	\$71,337.60	\$21,258.60	\$32,408.67	\$125,004.88
		<i>ANL Physicist -Scientist</i>		<i>ED&I</i>	0	24 wks	\$0.00	\$0.00	\$0.00	\$71,337.60	\$0.00	\$0.00	\$0.00
2381	1.2.3.1.3.4	Prototype	ANL	ED&I	3	24 wks	\$71,337.60	\$0.00	\$0.00	\$71,337.60	\$21,258.60	\$32,408.67	\$125,004.88
		<i>ANL Mechanical Engineer</i>		<i>ED&I</i>	0	24 wks	\$0.00	\$0.00	\$0.00	\$71,337.60	\$0.00	\$0.00	\$0.00
2382	1.2.3.1.3.4	Prototype	ANL	ED&I	3	24 wks	\$71,337.60	\$0.00	\$0.00	\$71,337.60	\$21,258.60	\$32,408.67	\$125,004.88
		<i>ANL Physicist -Scientist</i>		<i>ED&I</i>	0	24 wks	\$0.00	\$0.00	\$0.00	\$71,337.60	\$0.00	\$0.00	\$0.00
2383	1.2.3.1.3.4	Prototype	ANL	B&H	3	24 wks	\$48,806.40	\$0.00	\$0.00	\$48,806.40	\$11,811.15	\$21,216.14	\$81,833.69
		<i>ANL PCD:Technician</i>		<i>B&H</i>	0	24 wks	\$0.00	\$0.00	\$0.00	\$48,806.40	\$0.00	\$0.00	\$0.00
2384	1.2.3.1.3.4	Prototype	ANL	M&S	3	0 wks	\$100,000.00	\$0.00	\$0.00	\$100,000.00	\$13,000.00	\$39,550.00	\$152,550.00
		<i>ANL M&S Total</i>		<i>M&S</i>	0	100,000	\$0.00	\$0.00	\$0.00	\$100,000.00	\$0.00	\$0.00	\$0.00
2385	1.2.3.1.3.5	Assembly procedure	ANL	ED&I	3	8 wks	\$23,779.20	\$0.00	\$0.00	\$23,779.20	\$7,086.20	\$10,802.89	\$41,668.29
		<i>ANL Mechanical Engineer</i>		<i>ED&I</i>	0	8 wks	\$0.00	\$0.00	\$0.00	\$23,779.20	\$0.00	\$0.00	\$0.00
2386	1.2.3.1.3.5	Assembly procedure	ANL	ED&I	3	3 wks	\$4,987.20	\$0.00	\$0.00	\$4,987.20	\$1,486.19	\$2,265.68	\$8,739.07
		<i>ANL Administration</i>		<i>ED&I</i>	0	3 wks	\$0.00	\$0.00	\$0.00	\$4,987.20	\$0.00	\$0.00	\$0.00
2387	1.2.3.1.3.6	Installation procedure	ANL	ED&I	3	8 wks	\$23,779.20	\$0.00	\$0.00	\$23,779.20	\$7,086.20	\$10,802.89	\$41,668.29
		<i>ANL Mechanical Engineer</i>		<i>ED&I</i>	0	8 wks	\$0.00	\$0.00	\$0.00	\$23,779.20	\$0.00	\$0.00	\$0.00
2388	1.2.3.1.3.6	Installation procedure	ANL	ED&I	3	8 wks	\$13,299.20	\$0.00	\$0.00	\$13,299.20	\$3,963.16	\$6,041.83	\$23,304.19
		<i>ANL Administration</i>		<i>ED&I</i>	0	8 wks	\$0.00	\$0.00	\$0.00	\$13,299.20	\$0.00	\$0.00	\$0.00
2389	1.2.3.1.3.7	Prepare bid package	ANL	ED&I	3	3 wks	\$8,917.20	\$0.00	\$0.00	\$8,917.20	\$2,657.33	\$4,051.08	\$15,625.61
		<i>ANL Project Management</i>		<i>ED&I</i>	0	3 wks	\$0.00	\$0.00	\$0.00	\$8,917.20	\$0.00	\$0.00	\$0.00
2390	1.2.3.1.3.7	Prepare bid package	ANL	ED&I	3	8 wks	\$23,779.20	\$0.00	\$0.00	\$23,779.20	\$7,086.20	\$10,802.89	\$41,668.29
		<i>ANL Mechanical Engineer</i>		<i>ED&I</i>	0	8 wks	\$0.00	\$0.00	\$0.00	\$23,779.20	\$0.00	\$0.00	\$0.00
2391	1.2.3.1.4	Und. diag sys PED			0	848 wks	\$2,433,410.40	\$0.00	\$0.00	\$2,433,410.40	\$669,206.30	\$1,085,915.84	\$4,188,532.54
2392	1.2.3.1.4.1	proj management	ANL	ED&I	3	12 wks	\$35,668.80	\$0.00	\$0.00	\$35,668.80	\$10,629.30	\$16,204.34	\$62,502.44
		<i>ANL Project Management</i>		<i>ED&I</i>	0	12 wks	\$0.00	\$0.00	\$0.00	\$35,668.80	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
2393	1.2.3.1.4.1	beam position monitoring	ANL	ED&I	3	24 wks	\$48,806.40	\$0.00	\$0.00	\$48,806.40	\$14,544.31	\$22,172.75	\$85,523.45
		<i>ANL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>24 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$48,806.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2394	1.2.3.1.4.1	beam position monitoring	ANL	ED&I	3	48 wks	\$142,675.20	\$0.00	\$0.00	\$142,675.20	\$42,517.21	\$64,817.34	\$250,009.75
		<i>ANL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>48 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$142,675.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2395	1.2.3.1.4.1	beam position monitoring	ANL	B&H	3	48 wks	\$97,612.80	\$0.00	\$0.00	\$97,612.80	\$23,622.30	\$42,432.28	\$163,667.38
		<i>ANL PCD:Technician</i>		<i>B&H</i>	<i>0</i>	<i>48 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$97,612.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2396	1.2.3.1.4.1	beam position monitoring	ANL	ED&I	3	48 wks	\$142,675.20	\$0.00	\$0.00	\$142,675.20	\$42,517.21	\$64,817.34	\$250,009.75
		<i>ANL Controls: Programmer</i>		<i>ED&I</i>	<i>0</i>	<i>48 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$142,675.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2397	1.2.3.1.4.1	wire scn/Cherenkov det.	ANL	ED&I	3	24 wks	\$48,806.40	\$0.00	\$0.00	\$48,806.40	\$14,544.31	\$22,172.75	\$85,523.45
		<i>ANL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>24 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$48,806.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2398	1.2.3.1.4.1	wire scn/Cherenkov det.	ANL	ED&I	3	48 wks	\$142,675.20	\$0.00	\$0.00	\$142,675.20	\$42,517.21	\$64,817.34	\$250,009.75
		<i>ANL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>48 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$142,675.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2399	1.2.3.1.4.1	wire scn/Cherenkov det.	ANL	B&H	3	48 wks	\$97,612.80	\$0.00	\$0.00	\$97,612.80	\$23,622.30	\$42,432.28	\$163,667.38
		<i>ANL PCD:Technician</i>		<i>B&H</i>	<i>0</i>	<i>48 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$97,612.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2400	1.2.3.1.4.1	wire scn/Cherenkov det.	ANL	ED&I	3	48 wks	\$142,675.20	\$0.00	\$0.00	\$142,675.20	\$42,517.21	\$64,817.34	\$250,009.75
		<i>ANL Controls: Programmer</i>		<i>ED&I</i>	<i>0</i>	<i>48 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$142,675.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2401	1.2.3.1.4.1	OTR imaging	ANL	ED&I	3	24 wks	\$48,806.40	\$0.00	\$0.00	\$48,806.40	\$14,544.31	\$22,172.75	\$85,523.45
		<i>ANL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>24 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$48,806.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2402	1.2.3.1.4.1	OTR imaging	ANL	ED&I	3	48 wks	\$142,675.20	\$0.00	\$0.00	\$142,675.20	\$42,517.21	\$64,817.34	\$250,009.75
		<i>ANL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>48 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$142,675.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2403	1.2.3.1.4.1	OTR imaging	ANL	B&H	3	48 wks	\$97,612.80	\$0.00	\$0.00	\$97,612.80	\$23,622.30	\$42,432.28	\$163,667.38
		<i>ANL PCD:Technician</i>		<i>B&H</i>	<i>0</i>	<i>48 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$97,612.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2404	1.2.3.1.4.1	OTR imaging	ANL	ED&I	3	48 wks	\$142,675.20	\$0.00	\$0.00	\$142,675.20	\$42,517.21	\$64,817.34	\$250,009.75
		<i>ANL Controls: Programmer</i>		<i>ED&I</i>	<i>0</i>	<i>48 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$142,675.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2405	1.2.3.1.4.1	current monitoring	ANL	ED&I	3	24 wks	\$48,806.40	\$0.00	\$0.00	\$48,806.40	\$14,544.31	\$22,172.75	\$85,523.45
		<i>ANL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>24 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$48,806.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2406	1.2.3.1.4.1	current monitoring	ANL	ED&I	3	24 wks	\$71,337.60	\$0.00	\$0.00	\$71,337.60	\$21,258.60	\$32,408.67	\$125,004.88
		<i>ANL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>24 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$71,337.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2407	1.2.3.1.4.1	current monitoring	ANL	B&H	3	8 wks	\$16,268.80	\$0.00	\$0.00	\$16,268.80	\$3,937.05	\$7,072.05	\$27,277.90
		<i>ANL PCD:Technician</i>		<i>B&H</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$16,268.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2408	1.2.3.1.4.1	current monitoring	ANL	ED&I	3	12 wks	\$35,668.80	\$0.00	\$0.00	\$35,668.80	\$10,629.30	\$16,204.34	\$62,502.44
		<i>ANL Controls: Programmer</i>		<i>ED&I</i>	<i>0</i>	<i>12 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35,668.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2409	1.2.3.1.4.1	prototype	ANL	M&S	3	0 wks	\$80,000.00	\$0.00	\$0.00	\$80,000.00	\$10,400.00	\$31,640.00	\$122,040.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>80,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$80,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2410	1.2.3.1.4.1	assembly procedure	ANL	ED&I	3	8 wks	\$23,779.20	\$0.00	\$0.00	\$23,779.20	\$7,086.20	\$10,802.89	\$41,668.29

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>ANL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$23,779.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2411	1.2.3.1.4.1	assembly procedure	ANL	ED&I	3	8 wks	\$13,299.20	\$0.00	\$0.00	\$13,299.20	\$3,963.16	\$6,041.83	\$23,304.19
		<i>ANL Administration</i>		<i>ED&I</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,299.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2412	1.2.3.1.4.1	installation procedure	ANL	ED&I	3	8 wks	\$23,779.20	\$0.00	\$0.00	\$23,779.20	\$7,086.20	\$10,802.89	\$41,668.29
		<i>ANL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$23,779.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2413	1.2.3.1.4.1	installation procedure	ANL	ED&I	3	8 wks	\$13,299.20	\$0.00	\$0.00	\$13,299.20	\$3,963.16	\$6,041.83	\$23,304.19
		<i>ANL Administration</i>		<i>ED&I</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,299.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2414	1.2.3.1.4.1	prepare bid package	ANL	ED&I	3	3 wks	\$8,917.20	\$0.00	\$0.00	\$8,917.20	\$2,657.33	\$4,051.08	\$15,625.61
		<i>ANL Project Management</i>		<i>ED&I</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,917.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2415	1.2.3.1.4.1	prepare bid package	ANL	ED&I	3	8 wks	\$23,779.20	\$0.00	\$0.00	\$23,779.20	\$7,086.20	\$10,802.89	\$41,668.29
		<i>ANL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$23,779.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2416	1.2.3.1.4.1	prepare bid package	ANL		3	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2417	1.2.3.1.4.2	X-ray diagnostics PED	ANL		0	221 wks	\$743,498.00	\$0.00	\$0.00	\$743,498.00	\$196,362.40	\$328,951.14	\$1,268,811.55
2418	1.2.3.1.4.2	Proj management	ANL	ED&I	3	15 wks	\$44,586.00	\$0.00	\$0.00	\$44,586.00	\$13,286.63	\$20,255.42	\$78,128.05
		<i>ANL Project Management</i>		<i>ED&I</i>	<i>0</i>	<i>15 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$44,586.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2419	1.2.3.1.4.2	Design	ANL	ED&I	3	48 wks	\$142,675.20	\$0.00	\$0.00	\$142,675.20	\$42,517.21	\$64,817.34	\$250,009.75
		<i>ANL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>48 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$142,675.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2420	1.2.3.1.4.2	Design	ANL	ED&I	3	48 wks	\$142,675.20	\$0.00	\$0.00	\$142,675.20	\$42,517.21	\$64,817.34	\$250,009.75
		<i>ANL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>48 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$142,675.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2421	1.2.3.1.4.2	Design	ANL	ED&I	3	48 wks	\$97,612.80	\$0.00	\$0.00	\$97,612.80	\$29,088.61	\$44,345.50	\$171,046.91
		<i>ANL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>48 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$97,612.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2422	1.2.3.1.4.2	Design	ANL	ED&I	3	24 wks	\$71,337.60	\$0.00	\$0.00	\$71,337.60	\$21,258.60	\$32,408.67	\$125,004.88
		<i>ANL Controls: Programmer</i>		<i>ED&I</i>	<i>0</i>	<i>24 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$71,337.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2423	1.2.3.1.4.2	Design	ANL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2424	1.2.3.1.4.2	Prototype	ANL	M&S	3	0 wks	\$150,000.00	\$0.00	\$0.00	\$150,000.00	\$19,500.00	\$59,325.00	\$228,825.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>150,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$150,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2425	1.2.3.1.4.2	Prototype	ANL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2426	1.2.3.1.4.2	Assembly proc.	ANL	ED&I	3	8 wks	\$23,779.20	\$0.00	\$0.00	\$23,779.20	\$7,086.20	\$10,802.89	\$41,668.29
		<i>ANL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$23,779.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2427	1.2.3.1.4.2	Assembly proc.	ANL	ED&I	3	3 wks	\$4,987.20	\$0.00	\$0.00	\$4,987.20	\$1,486.19	\$2,265.68	\$8,739.07
		<i>ANL Administration</i>		<i>ED&I</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,987.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2428	1.2.3.1.4.2	Instll. Proc.	ANL	ED&I	3	8 wks	\$23,779.20	\$0.00	\$0.00	\$23,779.20	\$7,086.20	\$10,802.89	\$41,668.29
		<i>ANL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$23,779.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2429	1.2.3.1.4.2	Instll. Proc.	ANL	ED&I	3	3 wks	\$4,987.20	\$0.00	\$0.00	\$4,987.20	\$1,486.19	\$2,265.68	\$8,739.07
		<i>ANL Administration</i>		<i>ED&I</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,987.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
2430	1.2.3.1.4.2	Prepare Procurements	ANL	ED&I	3	8 wks	\$23,779.20	\$0.00	\$0.00	\$23,779.20	\$7,086.20	\$10,802.89	\$41,668.29
		<i>ANL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$23,779.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2431	1.2.3.1.4.2	Prepare Procurements	ANL	ED&I	3	8 wks	\$13,299.20	\$0.00	\$0.00	\$13,299.20	\$3,963.16	\$6,041.83	\$23,304.19
		<i>ANL Administration</i>		<i>ED&I</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,299.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2432	1.2.3.1.5	Und. PS PED			0	37 wks	\$149,848.40	\$0.00	\$0.00	\$149,848.40	\$35,343.77	\$64,817.26	\$250,009.43
2433	1.2.3.1.5.1	Proj Management	ANL	ED&I	3	2 wks	\$5,944.80	\$0.00	\$0.00	\$5,944.80	\$1,771.55	\$2,700.72	\$10,417.07
		<i>ANL Project Management</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,944.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2434	1.2.3.1.5.2	Engineering	ANL	ED&I	3	12 wks	\$35,668.80	\$0.00	\$0.00	\$35,668.80	\$10,629.30	\$16,204.34	\$62,502.44
		<i>ANL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>12 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35,668.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2435	1.2.3.1.5.3	Prototype	ANL	ED&I	3	8 wks	\$23,779.20	\$0.00	\$0.00	\$23,779.20	\$7,086.20	\$10,802.89	\$41,668.29
		<i>ANL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$23,779.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2436	1.2.3.1.5.4	Prototype	ANL	B&H	3	8 wks	\$16,268.80	\$0.00	\$0.00	\$16,268.80	\$3,937.05	\$7,072.05	\$27,277.90
		<i>ANL PCD:Technician</i>		<i>B&H</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$16,268.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2437	1.2.3.1.5.5	Prototype	ANL	M&S	3	0 wks	\$50,000.00	\$0.00	\$0.00	\$50,000.00	\$6,500.00	\$19,775.00	\$76,275.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>50,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$50,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2438	1.2.3.1.5.6	Assembly procedure	ANL	ED&I	3	2 wks	\$5,944.80	\$0.00	\$0.00	\$5,944.80	\$1,771.55	\$2,700.72	\$10,417.07
		<i>ANL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,944.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2439	1.2.3.1.5.7	Assembly procedure	ANL	ED&I	3	1 wk	\$1,662.40	\$0.00	\$0.00	\$1,662.40	\$495.40	\$755.23	\$2,913.02
		<i>ANL Administration</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,662.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2440	1.2.3.1.5.8	Installation procedure	ANL	ED&I	3	2 wks	\$5,944.80	\$0.00	\$0.00	\$5,944.80	\$1,771.55	\$2,700.72	\$10,417.07
		<i>ANL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,944.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2441	1.2.3.1.5.9	Installation procedure	ANL	ED&I	3	1 wk	\$1,662.40	\$0.00	\$0.00	\$1,662.40	\$495.40	\$755.23	\$2,913.02
		<i>ANL Administration</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,662.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2442	1.2.3.1.5.10	Prepare bid package	ANL	ED&I	3	1 wk	\$2,972.40	\$0.00	\$0.00	\$2,972.40	\$885.78	\$1,350.36	\$5,208.54
		<i>ANL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,972.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2443	1.2.3.1.6	Und. electromagnet sys.			0	51 wks	\$181,462.00	\$0.00	\$0.00	\$181,462.00	\$46,444.62	\$79,767.32	\$307,673.94
2444	1.2.3.1.6.1	Proj management	ANL	ED&I	3	2 wks	\$5,944.80	\$0.00	\$0.00	\$5,944.80	\$1,771.55	\$2,700.72	\$10,417.07
		<i>ANL Project Management</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,944.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2445	1.2.3.1.6.2	Engineering	ANL	ED&I	3	12 wks	\$35,668.80	\$0.00	\$0.00	\$35,668.80	\$10,629.30	\$16,204.34	\$62,502.44
		<i>ANL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>12 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35,668.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2446	1.2.3.1.6.3	Engineering	ANL	ED&I	3	12 wks	\$35,668.80	\$0.00	\$0.00	\$35,668.80	\$10,629.30	\$16,204.34	\$62,502.44
		<i>ANL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>12 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35,668.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2447	1.2.3.1.6.4	Prototype	ANL	ED&I	3	8 wks	\$23,779.20	\$0.00	\$0.00	\$23,779.20	\$7,086.20	\$10,802.89	\$41,668.29
		<i>ANL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$23,779.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2448	1.2.3.1.6.5	Prototype	ANL	B&H	3	8 wks	\$16,268.80	\$0.00	\$0.00	\$16,268.80	\$3,937.05	\$7,072.05	\$27,277.90

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>ANL PCD: Technician</i>		<i>B&H</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$16,268.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2449	1.2.3.1.6.6	Prototype	ANL	M&S	3	0 wks	\$40,000.00	\$0.00	\$0.00	\$40,000.00	\$5,200.00	\$15,820.00	\$61,020.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>40,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$40,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2450	1.2.3.1.6.7	Assembly procedure	ANL	ED&I	3	2 wks	\$5,944.80	\$0.00	\$0.00	\$5,944.80	\$1,771.55	\$2,700.72	\$10,417.07
		<i>ANL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,944.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2451	1.2.3.1.6.8	Assembly procedure	ANL	ED&I	3	1 wk	\$1,662.40	\$0.00	\$0.00	\$1,662.40	\$495.40	\$755.23	\$2,913.02
		<i>ANL Administration</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,662.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2452	1.2.3.1.6.9	Installation procedure	ANL	ED&I	3	3 wks	\$8,917.20	\$0.00	\$0.00	\$8,917.20	\$2,657.33	\$4,051.08	\$15,625.61
		<i>ANL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,917.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2453	1.2.3.1.6.10	Installation procedure	ANL	ED&I	3	1 wk	\$1,662.40	\$0.00	\$0.00	\$1,662.40	\$495.40	\$755.23	\$2,913.02
		<i>ANL Administration</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,662.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2454	1.2.3.1.6.11	Prepare bid package	ANL	ED&I	3	2 wks	\$5,944.80	\$0.00	\$0.00	\$5,944.80	\$1,771.55	\$2,700.72	\$10,417.07
		<i>ANL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,944.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2455	1.2.3.1.7	Und. Systems controls			0	143 wks	\$545,053.20	\$0.00	\$0.00	\$545,053.20	\$142,265.85	\$192,663.91	\$879,982.96
2456	1.2.3.1.7.1	EPICS Hardware	ANL		0	6 wks	\$42,834.40	\$0.00	\$0.00	\$42,834.40	\$8,564.65	\$11,306.49	\$62,705.54
2457	1.2.3.1.7.1.1	VME Crate	ANL	ED&I	1	1 wk	\$2,972.40	\$0.00	\$0.00	\$2,972.40	\$885.78	\$578.73	\$4,436.90
		<i>ANL Controls: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,972.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2458	1.2.3.1.7.1.1	VME Processor	ANL	ED&I	1	1 wk	\$2,972.40	\$0.00	\$0.00	\$2,972.40	\$885.78	\$578.73	\$4,436.90
		<i>ANL Controls: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,972.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2459	1.2.3.1.7.1.1	VME Transision h/w	ANL	ED&I	1	1 wk	\$2,972.40	\$0.00	\$0.00	\$2,972.40	\$885.78	\$578.73	\$4,436.90
		<i>ANL Controls: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,972.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2460	1.2.3.1.7.1.1	VME Fieldbus intfc	ANL	ED&I	2	1 wk	\$2,972.40	\$0.00	\$0.00	\$2,972.40	\$885.78	\$964.54	\$4,822.72
		<i>ANL Controls: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,972.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2461	1.2.3.1.7.1.1	VME Timing module	ANL	ED&I	2	1 wk	\$2,972.40	\$0.00	\$0.00	\$2,972.40	\$885.78	\$964.54	\$4,822.72
		<i>ANL Controls: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,972.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2462	1.2.3.1.7.1.1	Prototype hardware	ANL	M&S	2	0 wks	\$25,000.00	\$0.00	\$0.00	\$25,000.00	\$3,250.00	\$7,062.50	\$35,312.50
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>25,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$25,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2463	1.2.3.1.7.1.1	EPICS server	ANL	ED&I	1	1 wk	\$2,972.40	\$0.00	\$0.00	\$2,972.40	\$885.78	\$578.73	\$4,436.90
		<i>ANL Controls: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,972.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2464	1.2.3.1.7.2	Vacuum controls	ANL		0	14 wks	\$56,613.60	\$0.00	\$0.00	\$56,613.60	\$14,350.85	\$18,512.75	\$89,477.20
2465	1.2.3.1.7.2.2	Ion pump controller (IPC)	ANL	ED&I	2	1 wk	\$2,972.40	\$0.00	\$0.00	\$2,972.40	\$885.78	\$964.54	\$4,822.72
		<i>ANL Controls: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,972.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2466	1.2.3.1.7.2.2	Software design - IPC	ANL	ED&I	2	2 wks	\$5,944.80	\$0.00	\$0.00	\$5,944.80	\$1,771.55	\$1,929.09	\$9,645.44
		<i>ANL Controls: Programmer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,944.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2467	1.2.3.1.7.2.2	Vac. Gauge controller (VGC)	ANL	ED&I	2	1 wk	\$2,972.40	\$0.00	\$0.00	\$2,972.40	\$885.78	\$964.54	\$4,822.72

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>ANL Controls: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,972.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2468	1.2.3.1.7.2.2	Software design - VGC	ANL	ED&I	2	2 wks	\$5,944.80	\$0.00	\$0.00	\$5,944.80	\$1,771.55	\$1,929.09	\$9,645.44
		<i>ANL Controls: Programmer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,944.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2469	1.2.3.1.7.2.2	Gate valve controller (VVC)	ANL	ED&I	2	1 wk	\$2,972.40	\$0.00	\$0.00	\$2,972.40	\$885.78	\$964.54	\$4,822.72
		<i>ANL Controls: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,972.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2470	1.2.3.1.7.2.2	Software design - VVC	ANL	ED&I	2	1 wk	\$2,972.40	\$0.00	\$0.00	\$2,972.40	\$885.78	\$964.54	\$4,822.72
		<i>ANL Controls: Programmer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,972.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2471	1.2.3.1.7.2.2	Turbo pump controller (TPC)	ANL	ED&I	3	1 wk	\$2,972.40	\$0.00	\$0.00	\$2,972.40	\$885.78	\$1,350.36	\$5,208.54
		<i>ANL Controls: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,972.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2472	1.2.3.1.7.2.2	Software design - TPC	ANL	ED&I	2	2 wks	\$5,944.80	\$0.00	\$0.00	\$5,944.80	\$1,771.55	\$1,929.09	\$9,645.44
		<i>ANL Controls: Programmer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,944.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2473	1.2.3.1.7.2.2	Roughing pump cntr (RPC)	ANL	ED&I	3	1 wk	\$2,972.40	\$0.00	\$0.00	\$2,972.40	\$885.78	\$1,350.36	\$5,208.54
		<i>ANL Controls: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,972.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2474	1.2.3.1.7.2.2	Prototype hardware	ANL	M&S	2	0 wks	\$15,000.00	\$0.00	\$0.00	\$15,000.00	\$1,950.00	\$4,237.50	\$21,187.50
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>15,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$15,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2475	1.2.3.1.7.2.2	Software design - RPC	ANL	ED&I	2	2 wks	\$5,944.80	\$0.00	\$0.00	\$5,944.80	\$1,771.55	\$1,929.09	\$9,645.44
		<i>ANL Controls: Programmer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,944.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2476	1.2.3.1.7.3	Motor controls	ANL		0	12 wks	\$45,668.80	\$0.00	\$0.00	\$45,668.80	\$11,929.30	\$14,399.53	\$71,997.63
2477	1.2.3.1.7.3.1	Strongback motors	ANL	ED&I	2	2 wks	\$5,944.80	\$0.00	\$0.00	\$5,944.80	\$1,771.55	\$1,929.09	\$9,645.44
		<i>ANL Controls: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,944.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2478	1.2.3.1.7.3.1	Software design - ID mtr	ANL	ED&I	2	4 wks	\$11,889.60	\$0.00	\$0.00	\$11,889.60	\$3,543.10	\$3,858.18	\$19,290.88
		<i>ANL Controls: Programmer</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,889.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2479	1.2.3.1.7.3.1	Quadrupole motors	ANL	ED&I	2	2 wks	\$5,944.80	\$0.00	\$0.00	\$5,944.80	\$1,771.55	\$1,929.09	\$9,645.44
		<i>ANL Controls: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,944.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2480	1.2.3.1.7.3.1	Prototype hardware	ANL	M&S	2	0 wks	\$10,000.00	\$0.00	\$0.00	\$10,000.00	\$1,300.00	\$2,825.00	\$14,125.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2481	1.2.3.1.7.3.1	Software design - Quad mtr	ANL	ED&I	2	4 wks	\$11,889.60	\$0.00	\$0.00	\$11,889.60	\$3,543.10	\$3,858.18	\$19,290.88
		<i>ANL Controls: Programmer</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,889.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2482	1.2.3.1.7.4	Diagnostic controls/DAQ	ANL		0	91 wks	\$320,488.40	\$0.00	\$0.00	\$320,488.40	\$87,105.54	\$123,504.27	\$531,098.21
2483	1.2.3.1.7.4.1	RFBPM	ANL	ED&I	3	4 wks	\$11,889.60	\$0.00	\$0.00	\$11,889.60	\$3,543.10	\$5,401.45	\$20,834.15
		<i>ANL Controls: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,889.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2484	1.2.3.1.7.4.1	Software design - RFBPM	ANL	ED&I	2	6 wks	\$17,834.40	\$0.00	\$0.00	\$17,834.40	\$5,314.65	\$5,787.26	\$28,936.31
		<i>ANL Controls: Programmer</i>		<i>ED&I</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$17,834.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2485	1.2.3.1.7.4.1	Cerenkov detector	ANL	ED&I	2	1 wk	\$2,972.40	\$0.00	\$0.00	\$2,972.40	\$885.78	\$964.54	\$4,822.72
		<i>ANL Controls: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,972.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
2486	1.2.3.1.7.4.1	Software design - cerenkov	ANL	ED&I	2	4 wks	\$11,889.60	\$0.00	\$0.00	\$11,889.60	\$3,543.10	\$3,858.18	\$19,290.88
		ANL Controls: Programmer		ED&I	0	4 wks	\$0.00	\$0.00	\$0.00	\$11,889.60	\$0.00	\$0.00	\$0.00
2487	1.2.3.1.7.4.1	Optical station	ANL	ED&I	3	6 wks	\$17,834.40	\$0.00	\$0.00	\$17,834.40	\$5,314.65	\$8,102.17	\$31,251.22
		ANL Controls: Engineer		ED&I	0	6 wks	\$0.00	\$0.00	\$0.00	\$17,834.40	\$0.00	\$0.00	\$0.00
2488	1.2.3.1.7.4.1	Software design - Optical	ANL	ED&I	3	8 wks	\$23,779.20	\$0.00	\$0.00	\$23,779.20	\$7,086.20	\$10,802.89	\$41,668.29
		ANL Controls: Programmer		ED&I	0	8 wks	\$0.00	\$0.00	\$0.00	\$23,779.20	\$0.00	\$0.00	\$0.00
2489	1.2.3.1.7.4.1	X-Ray diagnostics	ANL	ED&I	3	6 wks	\$17,834.40	\$0.00	\$0.00	\$17,834.40	\$5,314.65	\$8,102.17	\$31,251.22
		ANL Controls: Engineer		ED&I	0	6 wks	\$0.00	\$0.00	\$0.00	\$17,834.40	\$0.00	\$0.00	\$0.00
2490	1.2.3.1.7.4.1	Software design- Xray	ANL	ED&I	3	8 wks	\$23,779.20	\$0.00	\$0.00	\$23,779.20	\$7,086.20	\$10,802.89	\$41,668.29
		ANL Controls: Programmer		ED&I	0	8 wks	\$0.00	\$0.00	\$0.00	\$23,779.20	\$0.00	\$0.00	\$0.00
2491	1.2.3.1.7.4.1	PC Hardware - image anlys.	ANL	ED&I	3	8 wks	\$23,779.20	\$0.00	\$0.00	\$23,779.20	\$7,086.20	\$10,802.89	\$41,668.29
		ANL Controls: Engineer		ED&I	0	8 wks	\$0.00	\$0.00	\$0.00	\$23,779.20	\$0.00	\$0.00	\$0.00
2492	1.2.3.1.7.4.1	Software design - Image	ANL	ED&I	3	16 wks	\$47,558.40	\$0.00	\$0.00	\$47,558.40	\$14,172.40	\$21,605.78	\$83,336.58
		ANL Controls: Programmer		ED&I	0	16 wks	\$0.00	\$0.00	\$0.00	\$47,558.40	\$0.00	\$0.00	\$0.00
2493	1.2.3.1.7.4.1	Diagnostic laser	ANL	ED&I	2	4 wks	\$11,889.60	\$0.00	\$0.00	\$11,889.60	\$3,543.10	\$3,858.18	\$19,290.88
		ANL Controls: Engineer		ED&I	0	4 wks	\$0.00	\$0.00	\$0.00	\$11,889.60	\$0.00	\$0.00	\$0.00
2494	1.2.3.1.7.4.1	Software design - Laser	ANL	ED&I	2	4 wks	\$11,889.60	\$0.00	\$0.00	\$11,889.60	\$3,543.10	\$3,858.18	\$19,290.88
		ANL Controls: Programmer		ED&I	0	4 wks	\$0.00	\$0.00	\$0.00	\$11,889.60	\$0.00	\$0.00	\$0.00
2495	1.2.3.1.7.4.1	Wire scanner	ANL	ED&I	2	4 wks	\$11,889.60	\$0.00	\$0.00	\$11,889.60	\$3,543.10	\$3,858.18	\$19,290.88
		ANL Controls: Engineer		ED&I	0	4 wks	\$0.00	\$0.00	\$0.00	\$11,889.60	\$0.00	\$0.00	\$0.00
2496	1.2.3.1.7.4.1	Software design - Wire scnr	ANL	ED&I	2	4 wks	\$11,889.60	\$0.00	\$0.00	\$11,889.60	\$3,543.10	\$3,858.18	\$19,290.88
		ANL Controls: Programmer		ED&I	0	4 wks	\$0.00	\$0.00	\$0.00	\$11,889.60	\$0.00	\$0.00	\$0.00
2497	1.2.3.1.7.4.1	Pulse current monitor	ANL	ED&I	2	4 wks	\$11,889.60	\$0.00	\$0.00	\$11,889.60	\$3,543.10	\$3,858.18	\$19,290.88
		ANL Controls: Engineer		ED&I	0	4 wks	\$0.00	\$0.00	\$0.00	\$11,889.60	\$0.00	\$0.00	\$0.00
2498	1.2.3.1.7.4.1	Prototype hardware	ANL	M&S	2	0 wks	\$50,000.00	\$0.00	\$0.00	\$50,000.00	\$6,500.00	\$14,125.00	\$70,625.00
		ANL M&S Total		M&S	0	50,000	\$0.00	\$0.00	\$0.00	\$50,000.00	\$0.00	\$0.00	\$0.00
2499	1.2.3.1.7.4.1	Software design - PCM	ANL	ED&I	2	4 wks	\$11,889.60	\$0.00	\$0.00	\$11,889.60	\$3,543.10	\$3,858.18	\$19,290.88
		ANL Controls: Programmer		ED&I	0	4 wks	\$0.00	\$0.00	\$0.00	\$11,889.60	\$0.00	\$0.00	\$0.00
2500	1.2.3.1.7.5	Power Supply Controls	ANL		0	20 wks	\$79,448.00	\$0.00	\$0.00	\$79,448.00	\$20,315.50	\$24,940.88	\$124,704.38
2501	1.2.3.1.7.5.1	Steering coil (H)	ANL	ED&I	2	4 wks	\$11,889.60	\$0.00	\$0.00	\$11,889.60	\$3,543.10	\$3,858.18	\$19,290.88
		ANL Controls: Engineer		ED&I	0	4 wks	\$0.00	\$0.00	\$0.00	\$11,889.60	\$0.00	\$0.00	\$0.00
2502	1.2.3.1.7.5.1	Software design - PS (H)	ANL	ED&I	2	2 wks	\$5,944.80	\$0.00	\$0.00	\$5,944.80	\$1,771.55	\$1,929.09	\$9,645.44
		ANL Controls: Programmer		ED&I	0	2 wks	\$0.00	\$0.00	\$0.00	\$5,944.80	\$0.00	\$0.00	\$0.00
2503	1.2.3.1.7.5.1	Steering coil (V)	ANL	ED&I	2	4 wks	\$11,889.60	\$0.00	\$0.00	\$11,889.60	\$3,543.10	\$3,858.18	\$19,290.88
		ANL Controls: Engineer		ED&I	0	4 wks	\$0.00	\$0.00	\$0.00	\$11,889.60	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
2504	1.2.3.1.7.5.1	Software design - PS (V)	ANL	ED&I	2	2 wks	\$5,944.80	\$0.00	\$0.00	\$5,944.80	\$1,771.55	\$1,929.09	\$9,645.44
		ANL Controls: Programmer		ED&I	0	2 wks	\$0.00	\$0.00	\$0.00	\$5,944.80	\$0.00	\$0.00	\$0.00
2505	1.2.3.1.7.5.1	Phase correctors	ANL	ED&I	2	4 wks	\$11,889.60	\$0.00	\$0.00	\$11,889.60	\$3,543.10	\$3,858.18	\$19,290.88
		ANL Controls: Engineer		ED&I	0	4 wks	\$0.00	\$0.00	\$0.00	\$11,889.60	\$0.00	\$0.00	\$0.00
2506	1.2.3.1.7.5.1	Prototype hardware	ANL	M&S	2	0 wks	\$20,000.00	\$0.00	\$0.00	\$20,000.00	\$2,600.00	\$5,650.00	\$28,250.00
		ANL M&S Total		M&S	0	20,000	\$0.00	\$0.00	\$0.00	\$20,000.00	\$0.00	\$0.00	\$0.00
2507	1.2.3.1.7.5.1	Software design - Phase cor.	ANL	ED&I	2	4 wks	\$11,889.60	\$0.00	\$0.00	\$11,889.60	\$3,543.10	\$3,858.18	\$19,290.88
		ANL Controls: Programmer		ED&I	0	4 wks	\$0.00	\$0.00	\$0.00	\$11,889.60	\$0.00	\$0.00	\$0.00
2508	1.2.3.1.8	Und. Systems PPS			0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2509	1.2.3.1.9	Und. Meas. System PED			0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2510	1.2.3.1.9.1	Design	ANL	ED&I	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		ANL Physicist - Scientist		ED&I	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2511	1.2.3.1.9.1	Engineering	ANL	ED&I	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		ANL Mechanical Engineer		ED&I	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2512	1.2.3.1.9.1	Engineering	ANL	ED&I	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		ANL Electrical Engineer		ED&I	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2513	1.2.3.1.9.1	Engineering	ANL	ED&I	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		ANL Controls: Programmer		ED&I	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2514	1.2.3.1.9.1	Engineering	ANL	ED&I	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		ANL Mech Drafting/Design		ED&I	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2515	1.2.3.1.9.1	Prepare procurements	ANL	ED&I	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		ANL Project Management		ED&I	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2516	1.2.3.1.9.1	Superv. procurements	ANL	ED&I	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		ANL Project Management		ED&I	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2517	1.2.3.1.10	Undulator Alignment PED			0	121.5 wks	\$277,020.00	\$0.00	\$0.00	\$277,020.00	\$55,404.00	\$83,106.00	\$415,530.00
2518	1.2.3.1.10.1	Alignment Project Engineer	ANL	B&H	2	52 wks	\$118,560.00	\$0.00	\$0.00	\$118,560.00	\$23,712.00	\$35,568.00	\$177,840.00
		SLAC Metrology:Eng.& Surveyors		B&H	0	52 wks	\$0.00	\$0.00	\$0.00	\$118,560.00	\$0.00	\$0.00	\$0.00
2519	1.2.3.1.10.2	Network Design	ANL	B&H	2	1.5 wks	\$3,420.00	\$0.00	\$0.00	\$3,420.00	\$684.00	\$1,026.00	\$5,130.00
		SLAC Metrology:Eng.& Surveyors		B&H	0	1.5 wks	\$0.00	\$0.00	\$0.00	\$3,420.00	\$0.00	\$0.00	\$0.00
2520	1.2.3.1.10.3	HLS Design	ANL	B&H	2	26 wks	\$59,280.00	\$0.00	\$0.00	\$59,280.00	\$11,856.00	\$17,784.00	\$88,920.00
		SLAC Metrology:Eng.& Surveyors		B&H	0	26 wks	\$0.00	\$0.00	\$0.00	\$59,280.00	\$0.00	\$0.00	\$0.00
2521	1.2.3.1.10.4	Stretchwire design	ANL	B&H	2	16 wks	\$36,480.00	\$0.00	\$0.00	\$36,480.00	\$7,296.00	\$10,944.00	\$54,720.00
		SLAC Metrology:Eng.& Surveyors		B&H	0	16 wks	\$0.00	\$0.00	\$0.00	\$36,480.00	\$0.00	\$0.00	\$0.00
2522	1.2.3.1.10.5	Data analysis soft. Extension	ANL	B&H	2	26 wks	\$59,280.00	\$0.00	\$0.00	\$59,280.00	\$11,856.00	\$17,784.00	\$88,920.00
		SLAC Metrology:Eng.& Surveyors		B&H	0	26 wks	\$0.00	\$0.00	\$0.00	\$59,280.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
2523	1.2.3.1.11	Undulator Stands			0	65 wks	\$176,000.00	\$0.00	\$0.00	\$176,000.00	\$35,200.00	\$51,840.00	\$263,040.00
2524	1.2.3.1.11.1	Engineering	ANL	ED&I	3	25 wks	\$84,000.00	\$0.00	\$0.00	\$84,000.00	\$16,800.00	\$35,280.00	\$136,080.00
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	0	25 wks	\$0.00	\$0.00	\$0.00	\$84,000.00	\$0.00	\$0.00	\$0.00
2525	1.2.3.1.11.2	Design	ANL	ED&I	1	40 wks	\$92,000.00	\$0.00	\$0.00	\$92,000.00	\$18,400.00	\$16,560.00	\$126,960.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	0	40 wks	\$0.00	\$0.00	\$0.00	\$92,000.00	\$0.00	\$0.00	\$0.00
2526	1.2.3.2	Mechanical			0	203 wks	\$0.00	\$18,446,000.00	\$535,803.60	\$18,981,803.60	\$2,502,690.00	\$5,429,156.40	\$26,913,650.00
2527	1.2.3.2.1	Undulator module			0	170 wks	\$0.00	\$16,953,000.00	\$443,347.20	\$17,396,347.20	\$2,328,491.28	\$4,931,209.62	\$24,656,048.10
2528	1.2.3.2.1.1	Undulator	ANL	M&S	2	0 wks	\$0.00	\$15,576,000.00	\$0.00	\$15,576,000.00	\$2,024,880.00	\$4,400,220.00	\$22,001,100.00
		<i>ANL M&S Total</i>		<i>M&S</i>	0	15,576,000	\$0.00	\$0.00	\$0.00	\$15,576,000.00	\$0.00	\$0.00	\$0.00
2529	1.2.3.2.1.1	Remeasure at SLAC	ANL	B&H	2	33 wks	\$0.00	\$0.00	\$67,108.80	\$67,108.80	\$16,240.33	\$20,837.28	\$104,186.41
		<i>ANL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	33 wks	\$0.00	\$0.00	\$0.00	\$67,108.80	\$0.00	\$0.00	\$0.00
2530	1.2.3.2.1.1	Remeasure at SLAC	ANL	B&H	2	33 wks	\$0.00	\$0.00	\$67,108.80	\$67,108.80	\$16,240.33	\$20,837.28	\$104,186.41
		<i>ANL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	33 wks	\$0.00	\$0.00	\$0.00	\$67,108.80	\$0.00	\$0.00	\$0.00
2531	1.2.3.2.1.2	Measurement assist.	ANL	ED&I	2	12 wks	\$0.00	\$0.00	\$35,668.80	\$35,668.80	\$10,629.30	\$11,574.53	\$57,872.63
		<i>ANL Physicist -Scientist</i>		<i>ED&I</i>	0	12 wks	\$0.00	\$0.00	\$0.00	\$35,668.80	\$0.00	\$0.00	\$0.00
2532	1.2.3.2.1.3	Measurement train	ANL	ED&I	2	8 wks	\$0.00	\$0.00	\$23,779.20	\$23,779.20	\$7,086.20	\$7,716.35	\$38,581.75
		<i>ANL Physicist -Scientist</i>		<i>ED&I</i>	0	8 wks	\$0.00	\$0.00	\$0.00	\$23,779.20	\$0.00	\$0.00	\$0.00
2533	1.2.3.2.1.4	Movers	ANL	M&S	2	0 wks	\$0.00	\$1,320,000.00	\$0.00	\$1,320,000.00	\$171,600.00	\$372,900.00	\$1,864,500.00
		<i>ANL M&S Total</i>		<i>M&S</i>	0	1,320,000	\$0.00	\$0.00	\$0.00	\$1,320,000.00	\$0.00	\$0.00	\$0.00
2534	1.2.3.2.1.5	Procurement supervision	ANL	ED&I	2	36 wks	\$0.00	\$0.00	\$107,006.40	\$107,006.40	\$31,887.91	\$34,723.58	\$173,617.88
		<i>ANL Mechanical Engineer</i>		<i>ED&I</i>	0	36 wks	\$0.00	\$0.00	\$0.00	\$107,006.40	\$0.00	\$0.00	\$0.00
2535	1.2.3.2.1.5	Procurement supervision	ANL	ED&I	2	36 wks	\$0.00	\$0.00	\$107,006.40	\$107,006.40	\$31,887.91	\$34,723.58	\$173,617.88
		<i>ANL Physicist -Scientist</i>		<i>ED&I</i>	0	36 wks	\$0.00	\$0.00	\$0.00	\$107,006.40	\$0.00	\$0.00	\$0.00
2536	1.2.3.2.1.6	Travel to vendor	ANL	M&S	2	0 wks	\$0.00	\$18,000.00	\$0.00	\$18,000.00	\$2,340.00	\$5,085.00	\$25,425.00
		<i>ANL M&S Total</i>		<i>M&S</i>	0	18,000	\$0.00	\$0.00	\$0.00	\$18,000.00	\$0.00	\$0.00	\$0.00
2537	1.2.3.2.1.7	Travel to SLAC	ANL	M&S	2	0 wks	\$0.00	\$39,000.00	\$0.00	\$39,000.00	\$5,070.00	\$11,017.50	\$55,087.50
		<i>ANL M&S Total</i>		<i>M&S</i>	0	39,000	\$0.00	\$0.00	\$0.00	\$39,000.00	\$0.00	\$0.00	\$0.00
2538	1.2.3.2.1.8	Installation assist.	ANL	ED&I	2	8 wks	\$0.00	\$0.00	\$23,779.20	\$23,779.20	\$7,086.20	\$7,716.35	\$38,581.75
		<i>ANL Mechanical Engineer</i>		<i>ED&I</i>	0	8 wks	\$0.00	\$0.00	\$0.00	\$23,779.20	\$0.00	\$0.00	\$0.00
2539	1.2.3.2.1.8	Installation assist.	ANL	ED&I	2	4 wks	\$0.00	\$0.00	\$11,889.60	\$11,889.60	\$3,543.10	\$3,858.18	\$19,290.88
		<i>ANL Physicist - Senior Scientist</i>		<i>ED&I</i>	0	4 wks	\$0.00	\$0.00	\$0.00	\$11,889.60	\$0.00	\$0.00	\$0.00
2540	1.2.3.2.2	Undulator quadrupole			0	33 wks	\$0.00	\$825,000.00	\$92,456.40	\$917,456.40	\$134,118.72	\$356,118.78	\$1,407,693.90
2541	1.2.3.2.2.1	Quadrupole	ANL	M&S	3	0 wks	\$0.00	\$330,000.00	\$0.00	\$330,000.00	\$42,900.00	\$130,515.00	\$503,415.00
		<i>ANL M&S Total</i>		<i>M&S</i>	0	330,000	\$0.00	\$0.00	\$0.00	\$330,000.00	\$0.00	\$0.00	\$0.00
2542	1.2.3.2.2.2	Positioners	ANL	M&S	3	0 wks	\$0.00	\$429,000.00	\$0.00	\$429,000.00	\$55,770.00	\$169,669.50	\$654,439.50

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>429,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$429,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2543	1.2.3.2.2.3	Other components	ANL	M&S	3	0 wks	\$0.00	\$66,000.00	\$0.00	\$66,000.00	\$8,580.00	\$26,103.00	\$100,683.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>66,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$66,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2544	1.2.3.2.2.4	Procurement supervision	ANL	ED&I	2	6 wks	\$0.00	\$0.00	\$17,834.40	\$17,834.40	\$5,314.65	\$5,787.26	\$28,936.31
		<i>ANL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$17,834.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2545	1.2.3.2.2.5	Installation supervision	ANL	ED&I	2	4 wks	\$0.00	\$0.00	\$11,889.60	\$11,889.60	\$3,543.10	\$3,858.18	\$19,290.88
		<i>ANL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,889.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2546	1.2.3.2.2.6	Magnetic measurement	ANL	ED&I	2	17 wks	\$0.00	\$0.00	\$50,530.80	\$50,530.80	\$15,058.18	\$16,397.24	\$81,986.22
		<i>ANL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>17 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$50,530.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2547	1.2.3.2.2.6	Magnetic measurement	ANL	B&H	2	6 wks	\$0.00	\$0.00	\$12,201.60	\$12,201.60	\$2,952.79	\$3,788.60	\$18,942.98
		<i>ANL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,201.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2548	1.2.3.2.3	Undulator Hardware Supports				0 wks	\$0.00	\$668,000.00	\$0.00	\$668,000.00	\$40,080.00	\$141,828.00	\$849,908.00
2549	1.2.3.2.3.1	Materials	ANL	M&S	3	0 wks	\$0.00	\$168,000.00	\$0.00	\$168,000.00	\$10,080.00	\$62,328.00	\$240,408.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>168,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$168,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2550	1.2.3.2.3.2	Outside Fabrication	ANL	M&S	1	0 wks	\$0.00	\$500,000.00	\$0.00	\$500,000.00	\$30,000.00	\$79,500.00	\$609,500.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>500,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$500,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2551	1.2.3.3	Vacuum				0	\$0.00	\$1,707,500.00	\$62,420.40	\$1,769,920.40	\$240,576.28	\$667,604.17	\$2,678,100.85
2552	1.2.3.3.1	Undulator vacuum valve				0 wks	\$0.00	\$50,000.00	\$0.00	\$50,000.00	\$6,500.00	\$16,159.00	\$72,659.00
2553	1.2.3.3.1.1	Undulator vacuum valve				0 wks	\$0.00	\$50,000.00	\$0.00	\$50,000.00	\$6,500.00	\$16,159.00	\$72,659.00
2554	1.2.3.3.1.1	Gate valve-und. Line entrance	ANL	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$260.00	\$339.00	\$2,599.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2555	1.2.3.3.1.1	Gate valve at the end of undulator line	ANL	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$260.00	\$339.00	\$2,599.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2556	1.2.3.3.1.2	undulator pumpout valve	ANL			0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2557	1.2.3.3.1.2	valve to isolate roughing system - und. Line entrance	ANL	M&S	3	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$130.00	\$395.50	\$1,525.50
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2558	1.2.3.3.1.2	valve for iso. of roughing & turbo from - und. Line cell	ANL	M&S	1	0 wks	\$0.00	\$11,000.00	\$0.00	\$11,000.00	\$1,430.00	\$1,864.50	\$14,294.50
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>11,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2559	1.2.3.3.1.2	valve for iso. of roughing & turbo from - und exit section	ANL	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$130.00	\$169.50	\$1,299.50
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2560	1.2.3.3.1.3	gate valve with RF liner to isolate each undulator line cell	ANL	M&S	3	0 wks	\$0.00	\$33,000.00	\$0.00	\$33,000.00	\$4,290.00	\$13,051.50	\$50,341.50
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>33,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$33,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2561	1.2.3.3.2	Undulator pump				0 wks	\$0.00	\$184,000.00	\$0.00	\$184,000.00	\$23,920.00	\$51,980.00	\$259,900.00
2562	1.2.3.3.2.1	Undulator ion pump	ANL			0 wks	\$0.00	\$41,000.00	\$0.00	\$41,000.00	\$5,330.00	\$11,582.50	\$57,912.50
2563	1.2.3.3.2.1	Ion pump - und. Line entrance	ANL	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$260.00	\$565.00	\$2,825.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2564	1.2.3.3.2.1	Ion pump controller - und. Line entrance	ANL	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$130.00	\$282.50	\$1,412.50
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2565	1.2.3.3.2.1	Ion pump cable - und. Line entrance	ANL	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$130.00	\$282.50	\$1,412.50
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2566	1.2.3.3.2.1	Ion pump - und. Line cell	ANL	M&S	2	0 wks	\$0.00	\$11,000.00	\$0.00	\$11,000.00	\$1,430.00	\$3,107.50	\$15,537.50
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>11,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2567	1.2.3.3.2.1	Ion pump controller - und. Line cell	ANL	M&S	2	0 wks	\$0.00	\$11,000.00	\$0.00	\$11,000.00	\$1,430.00	\$3,107.50	\$15,537.50
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>11,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2568	1.2.3.3.2.1	Ion pump cable - und. Line cell	ANL	M&S	2	0 wks	\$0.00	\$11,000.00	\$0.00	\$11,000.00	\$1,430.00	\$3,107.50	\$15,537.50
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>11,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2569	1.2.3.3.2.1	Ion pump - exit of und. Line	ANL	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$260.00	\$565.00	\$2,825.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2570	1.2.3.3.2.1	Ion pump controller - exit of und. Line	ANL	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$130.00	\$282.50	\$1,412.50
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2571	1.2.3.3.2.1	Ion pump cable - exit of und. Line	ANL	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$130.00	\$282.50	\$1,412.50
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2572	1.2.3.3.2.2	Undulator turbo pump	ANL		0	0 wks	\$0.00	\$117,000.00	\$0.00	\$117,000.00	\$15,210.00	\$33,052.50	\$165,262.50
2573	1.2.3.3.2.2	Turbo pump - und. Line entrance	ANL	M&S	2	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$910.00	\$1,977.50	\$9,887.50
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>7,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2574	1.2.3.3.2.2	Turbo pump controller - und. Line entrance	ANL	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$130.00	\$282.50	\$1,412.50
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2575	1.2.3.3.2.2	Cables for turbo pump - und. Line entrance	ANL	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$130.00	\$282.50	\$1,412.50
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2576	1.2.3.3.2.2	Turbo pump - und. Line cell	ANL	M&S	2	0 wks	\$0.00	\$77,000.00	\$0.00	\$77,000.00	\$10,010.00	\$21,752.50	\$108,762.50
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>77,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$77,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2577	1.2.3.3.2.2	Turbo pump controller - und. Line cell	ANL	M&S	2	0 wks	\$0.00	\$11,000.00	\$0.00	\$11,000.00	\$1,430.00	\$3,107.50	\$15,537.50
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>11,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2578	1.2.3.3.2.2	Cables for turbo pump - und. Line cell	ANL	M&S	2	0 wks	\$0.00	\$11,000.00	\$0.00	\$11,000.00	\$1,430.00	\$3,107.50	\$15,537.50
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>11,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2579	1.2.3.3.2.2	Turbo pump - exit of und. Line	ANL	M&S	2	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$910.00	\$1,977.50	\$9,887.50
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>7,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2580	1.2.3.3.2.2	Turbo pump controller - exit of und. Line	ANL	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$130.00	\$282.50	\$1,412.50
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2581	1.2.3.3.2.2	Cables for turbo pump - exit of und. Line	ANL	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$130.00	\$282.50	\$1,412.50

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2582	1.2.3.3.2.3	Undulator roughing pump	ANL		0	0 wks	\$0.00	\$26,000.00	\$0.00	\$26,000.00	\$3,380.00	\$7,345.00	\$36,725.00
2583	1.2.3.3.2.3	Roughing pump - und. Line entrance	ANL	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$260.00	\$565.00	\$2,825.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2584	1.2.3.3.2.3	Roughing pump - und. Line cell	ANL	M&S	2	0 wks	\$0.00	\$22,000.00	\$0.00	\$22,000.00	\$2,860.00	\$6,215.00	\$31,075.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>22,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$22,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2585	1.2.3.3.2.3	Roughing pump - exit of und. Line	ANL	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$260.00	\$565.00	\$2,825.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2586	1.2.3.3.3	Undulator vacuum gauge			0	0 wks	\$0.00	\$24,500.00	\$0.00	\$24,500.00	\$3,185.00	\$6,921.25	\$34,606.25
2587	1.2.3.3.3.1	Vacuum gauge - roughing line - und. Line entrance	ANL	M&S	2	0 wks	\$0.00	\$200.00	\$0.00	\$200.00	\$26.00	\$56.50	\$282.50
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>200</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2588	1.2.3.3.3.1	Vac. Gauge controller - roughing line - und. Line entrance	ANL	M&S	2	0 wks	\$0.00	\$200.00	\$0.00	\$200.00	\$26.00	\$56.50	\$282.50
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>200</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2589	1.2.3.3.3.1	Vac. Gauge cables - roughing line - und. Line entrance	ANL	M&S	2	0 wks	\$0.00	\$200.00	\$0.00	\$200.00	\$26.00	\$56.50	\$282.50
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>200</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2590	1.2.3.3.3.1	Vacuum gauge - roughing line - und. Line cell	ANL	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$260.00	\$565.00	\$2,825.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2591	1.2.3.3.3.1	Vac. Gauge controller - roughing line - und. Line cell	ANL	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$260.00	\$565.00	\$2,825.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2592	1.2.3.3.3.1	Vac. Gauge cables - roughing line - und. Line cell	ANL	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$260.00	\$565.00	\$2,825.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2593	1.2.3.3.3.1	Vacuum gauge - electron beampipe - und. Line entrance	ANL	M&S	2	0 wks	\$0.00	\$300.00	\$0.00	\$300.00	\$39.00	\$84.75	\$423.75
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>300</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$300.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2594	1.2.3.3.3.1	Gauge controller - und. Line entrance	ANL	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$130.00	\$282.50	\$1,412.50
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2595	1.2.3.3.3.1	Cables for vacuum gauge - und. Line entrance	ANL	M&S	2	0 wks	\$0.00	\$300.00	\$0.00	\$300.00	\$39.00	\$84.75	\$423.75
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>300</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$300.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2596	1.2.3.3.3.1	Vacuum gauge - electron beampipe - und. Line cell	ANL	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$390.00	\$847.50	\$4,237.50
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2597	1.2.3.3.3.1	Gauge controller - und. Line cell	ANL	M&S	2	0 wks	\$0.00	\$11,000.00	\$0.00	\$11,000.00	\$1,430.00	\$3,107.50	\$15,537.50
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>11,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2598	1.2.3.3.3.1	Cables for vacuum gauge - und. Line cell	ANL	M&S	2	0 wks	\$0.00	\$200.00	\$0.00	\$200.00	\$26.00	\$56.50	\$282.50
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>200</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2599	1.2.3.3.3.1	Vacuum gauge - roughing line - exit of und. Line	ANL	M&S	2	0 wks	\$0.00	\$300.00	\$0.00	\$300.00	\$39.00	\$84.75	\$423.75
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>300</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$300.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
2600	1.2.3.3.3.1	Vac. Gauge controller - roughing line - exit of und. Line	ANL	M&S	2	0 wks	\$0.00	\$200.00	\$0.00	\$200.00	\$26.00	\$56.50	\$282.50
		<i>ANL M&S Total</i>		M&S	0	200	\$0.00	\$0.00	\$0.00	\$200.00	\$0.00	\$0.00	\$0.00
2601	1.2.3.3.3.1	Vac. Gauge cables - roughing line -exit of und. Line	ANL	M&S	2	0 wks	\$0.00	\$400.00	\$0.00	\$400.00	\$52.00	\$113.00	\$565.00
		<i>ANL M&S Total</i>		M&S	0	400	\$0.00	\$0.00	\$0.00	\$400.00	\$0.00	\$0.00	\$0.00
2602	1.2.3.3.3.1	Vacuum gauge - exit of undulator line	ANL	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$130.00	\$282.50	\$1,412.50
		<i>ANL M&S Total</i>		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
2603	1.2.3.3.3.1	Gauge controller - exit of undulator line	ANL	M&S	2	0 wks	\$0.00	\$200.00	\$0.00	\$200.00	\$26.00	\$56.50	\$282.50
		<i>ANL M&S Total</i>		M&S	0	200	\$0.00	\$0.00	\$0.00	\$200.00	\$0.00	\$0.00	\$0.00
2604	1.2.3.3.3.1	Cables for vacuum gauge -exit of undulator line	ANL	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>ANL M&S Total</i>		M&S	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2605	1.2.3.3.4	Undulator vacuum pipe			0	0 wks	\$0.00	\$588,000.00	\$0.00	\$588,000.00	\$76,440.00	\$232,554.00	\$896,994.00
2606	1.2.3.3.4.1	Transition cone - Und. Line Entrance	ANL	M&S	3	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$1,300.00	\$3,955.00	\$15,255.00
		<i>ANL M&S Total</i>		M&S	0	10,000	\$0.00	\$0.00	\$0.00	\$10,000.00	\$0.00	\$0.00	\$0.00
2607	1.2.3.3.4.2	Vacuum chamber - undulator module	ANL	M&S	3	0 wks	\$0.00	\$66,000.00	\$0.00	\$66,000.00	\$8,580.00	\$26,103.00	\$100,683.00
		<i>ANL M&S Total</i>		M&S	0	66,000	\$0.00	\$0.00	\$0.00	\$66,000.00	\$0.00	\$0.00	\$0.00
2608	1.2.3.3.4.2	flanges to diagnostic cubes - und mod vac chamber	ANL	M&S	3	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$910.00	\$2,768.50	\$10,678.50
		<i>ANL M&S Total</i>		M&S	0	7,000	\$0.00	\$0.00	\$0.00	\$7,000.00	\$0.00	\$0.00	\$0.00
2609	1.2.3.3.4.2	Bellows at one end of chamber - und mod vac chamber	ANL	M&S	3	0 wks	\$0.00	\$165,000.00	\$0.00	\$165,000.00	\$21,450.00	\$65,257.50	\$251,707.50
		<i>ANL M&S Total</i>		M&S	0	165,000	\$0.00	\$0.00	\$0.00	\$165,000.00	\$0.00	\$0.00	\$0.00
2610	1.2.3.3.4.2	Bellows liner - und. Line cell - und mod vac chamber	ANL	M&S	3	0 wks	\$0.00	\$330,000.00	\$0.00	\$330,000.00	\$42,900.00	\$130,515.00	\$503,415.00
		<i>ANL M&S Total</i>		M&S	0	330,000	\$0.00	\$0.00	\$0.00	\$330,000.00	\$0.00	\$0.00	\$0.00
2611	1.2.3.3.4.3	Transition cone - exit of Und. Line	ANL	M&S	3	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$1,300.00	\$3,955.00	\$15,255.00
		<i>ANL M&S Total</i>		M&S	0	10,000	\$0.00	\$0.00	\$0.00	\$10,000.00	\$0.00	\$0.00	\$0.00
2612	1.2.3.3.5	Inter-undulator chamber			0	21 wks	\$0.00	\$791,000.00	\$62,420.40	\$853,420.40	\$121,431.28	\$332,530.92	\$1,307,382.60
2613	1.2.3.3.5.1	Electron beam diag. Vacuum chamber - und. Entrance line	ANL	M&S	3	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$1,040.00	\$3,164.00	\$12,204.00
		<i>ANL M&S Total</i>		M&S	0	8,000	\$0.00	\$0.00	\$0.00	\$8,000.00	\$0.00	\$0.00	\$0.00
2614	1.2.3.3.5.1	Quartz window - und. Entrance line	ANL	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>ANL M&S Total</i>		M&S	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2615	1.2.3.3.5.1	Retractable mirror cmbr. - und. Line entrance	ANL	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$650.00	\$1,412.50	\$7,062.50
		<i>ANL M&S Total</i>		M&S	0	5,000	\$0.00	\$0.00	\$0.00	\$5,000.00	\$0.00	\$0.00	\$0.00
2616	1.2.3.3.5.2	Short break vac block - und. Cell	ANL	M&S	3	0 wks	\$0.00	\$440,000.00	\$0.00	\$440,000.00	\$57,200.00	\$174,020.00	\$671,220.00
		<i>ANL M&S Total</i>		M&S	0	440,000	\$0.00	\$0.00	\$0.00	\$440,000.00	\$0.00	\$0.00	\$0.00
2617	1.2.3.3.5.4	421 mm separation vacuum block - und. Line Cell	ANL	M&S	3	0 wks	\$0.00	\$330,000.00	\$0.00	\$330,000.00	\$42,900.00	\$130,515.00	\$503,415.00
		<i>ANL M&S Total</i>		M&S	0	330,000	\$0.00	\$0.00	\$0.00	\$330,000.00	\$0.00	\$0.00	\$0.00
2618	1.2.3.3.5.5	Particle beam diag. Vacuum chamber - exit of undulators	ANL	M&S	3	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$1,040.00	\$3,164.00	\$12,204.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2619	1.2.3.3.5.5	Vac Engr oversight at SLAC	ANL	ED&I	2	21 wks	\$0.00	\$0.00	\$62,420.40	\$62,420.40	\$18,601.28	\$20,255.42	\$101,277.10
		<i>ANL AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>21 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$62,420.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2620	1.2.3.3.6	Vac. Plumbing, flanges, gaskets, hdwr			0	0 wks	\$0.00	\$70,000.00	\$0.00	\$70,000.00	\$9,100.00	\$27,459.00	\$106,559.00
2621	1.2.3.3.6.1	Vac. Plumbing, flanges, gaskets, etc - und. Line entrance	ANL	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$260.00	\$565.00	\$2,825.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2622	1.2.3.3.6.1	Vac. Plumbing, flanges, gaskets, etc - und. Line cell	ANL	M&S	3	0 wks	\$0.00	\$66,000.00	\$0.00	\$66,000.00	\$8,580.00	\$26,103.00	\$100,683.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>66,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$66,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2623	1.2.3.3.6.1	Vac. Plumbing, flanges, gaskets, etc - und. Line exit	ANL	M&S	3	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$260.00	\$791.00	\$3,051.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2624	1.2.3.4	Diagnostic			0	147 wks	\$0.00	\$3,620,000.00	\$367,471.60	\$3,987,471.60	\$571,679.30	\$1,193,083.81	\$5,752,234.71
2625	1.2.3.4.1	Wire scanner			0	0 wks	\$0.00	\$140,000.00	\$0.00	\$140,000.00	\$18,200.00	\$39,550.00	\$197,750.00
2626	1.2.3.4.1.1	Wire scanner	ANL	M&S	2	0 wks	\$0.00	\$140,000.00	\$0.00	\$140,000.00	\$18,200.00	\$39,550.00	\$197,750.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>140,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$140,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2627	1.2.3.4.2	Pulsed current monitor			2	0 wks	\$0.00	\$18,000.00	\$0.00	\$18,000.00	\$2,340.00	\$0.00	\$20,340.00
2628	1.2.3.4.2.1	Pulsed current monitor	ANL	M&S	0	0 wks	\$0.00	\$18,000.00	\$0.00	\$18,000.00	\$2,340.00	\$0.00	\$20,340.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>18,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$18,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2629	1.2.3.4.3	RFBPM			2	0 wks	\$0.00	\$960,000.00	\$0.00	\$960,000.00	\$124,800.00	\$0.00	\$1,084,800.00
2630	1.2.3.4.3.1	RFBPM	ANL	M&S	0	0 wks	\$0.00	\$960,000.00	\$0.00	\$960,000.00	\$124,800.00	\$0.00	\$1,084,800.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>960,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$960,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2631	1.2.3.4.4	Cerenkov detector			3	0 wks	\$0.00	\$132,000.00	\$0.00	\$132,000.00	\$17,160.00	\$52,206.00	\$201,366.00
2632	1.2.3.4.4.1	Cerenkov detector	ANL	M&S	3	0 wks	\$0.00	\$132,000.00	\$0.00	\$132,000.00	\$17,160.00	\$52,206.00	\$201,366.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>132,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$132,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2633	1.2.3.4.5	Alignment laser			0	0 wks	\$0.00	\$126,000.00	\$0.00	\$126,000.00	\$16,380.00	\$49,833.00	\$192,213.00
2634	1.2.3.4.5.1	Laser	ANL	M&S	3	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$390.00	\$1,186.50	\$4,576.50
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2635	1.2.3.4.5.2	Beam expander	ANL	M&S	3	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$390.00	\$1,186.50	\$4,576.50
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2636	1.2.3.4.5.3	Deflecting mirror	ANL	M&S	3	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$1,300.00	\$3,955.00	\$15,255.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2637	1.2.3.4.5.4	Relay optics	ANL	M&S	3	0 wks	\$0.00	\$110,000.00	\$0.00	\$110,000.00	\$14,300.00	\$43,505.00	\$167,805.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>110,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$110,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2638	1.2.3.4.6	OTR diagnostics			3	0 wks	\$0.00	\$550,000.00	\$0.00	\$550,000.00	\$71,500.00	\$217,525.00	\$839,025.00
2639	1.2.3.4.6.1	OTR diagnostic	ANL	M&S	3	0 wks	\$0.00	\$550,000.00	\$0.00	\$550,000.00	\$71,500.00	\$217,525.00	\$839,025.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>550,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$550,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
2640	1.2.3.4.7	X-ray diagnostics			0	147 wks	\$0.00	\$1,694,000.00	\$367,471.60	\$2,061,471.60	\$321,299.30	\$833,969.81	\$3,216,740.71
2641	1.2.3.4.7.1	Diamond xstal	ANL	M&S	3	0 wks	\$0.00	\$55,000.00	\$0.00	\$55,000.00	\$7,150.00	\$21,752.50	\$83,902.50
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>55,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$55,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2642	1.2.3.4.7.2	Xstal positioner	ANL	M&S	3	0 wks	\$0.00	\$165,000.00	\$0.00	\$165,000.00	\$21,450.00	\$65,257.50	\$251,707.50
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>165,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$165,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2643	1.2.3.4.7.3	PIN diode 1	ANL	M&S	3	0 wks	\$0.00	\$11,000.00	\$0.00	\$11,000.00	\$1,430.00	\$4,350.50	\$16,780.50
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>11,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2644	1.2.3.4.7.4	PIN diode 2	ANL	M&S	3	0 wks	\$0.00	\$11,000.00	\$0.00	\$11,000.00	\$1,430.00	\$4,350.50	\$16,780.50
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>11,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2645	1.2.3.4.7.5	PIN diode positioner	ANL	M&S	3	0 wks	\$0.00	\$110,000.00	\$0.00	\$110,000.00	\$14,300.00	\$43,505.00	\$167,805.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>110,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$110,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2646	1.2.3.4.7.6	CCD 1.5 Å	ANL	M&S	3	0 wks	\$0.00	\$264,000.00	\$0.00	\$264,000.00	\$34,320.00	\$104,412.00	\$402,732.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>264,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$264,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2647	1.2.3.4.7.7	CCD 2.9 Å	ANL	M&S	3	0 wks	\$0.00	\$319,000.00	\$0.00	\$319,000.00	\$41,470.00	\$126,164.50	\$486,634.50
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>319,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$319,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2648	1.2.3.4.7.8	Converter optics	ANL	M&S	3	0 wks	\$0.00	\$88,000.00	\$0.00	\$88,000.00	\$11,440.00	\$34,804.00	\$134,244.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>88,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$88,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2649	1.2.3.4.7.9	Fabricated components	ANL	M&S	3	0 wks	\$0.00	\$660,000.00	\$0.00	\$660,000.00	\$85,800.00	\$261,030.00	\$1,006,830.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>660,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$660,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2650	1.2.3.4.7.10	Assembly	ANL	ED&I	3	33 wks	\$0.00	\$0.00	\$98,089.20	\$98,089.20	\$29,230.58	\$44,561.92	\$171,881.71
		<i>ANL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>33 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$98,089.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2651	1.2.3.4.7.10	Assembly	ANL	ED&I	3	17 wks	\$0.00	\$0.00	\$50,530.80	\$50,530.80	\$15,058.18	\$22,956.14	\$88,545.12
		<i>ANL Physicist - Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>17 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$50,530.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2652	1.2.3.4.7.10	Assembly	ANL	B&H	3	74 wks	\$0.00	\$0.00	\$150,486.40	\$150,486.40	\$36,417.71	\$65,416.44	\$252,320.55
		<i>ANL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>74 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$150,486.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2653	1.2.3.4.7.11	Software config.	ANL	ED&I	3	11 wks	\$0.00	\$0.00	\$32,696.40	\$32,696.40	\$9,743.53	\$14,853.97	\$57,293.90
		<i>ANL Controls: Programmer</i>		<i>ED&I</i>	<i>0</i>	<i>11 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$32,696.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2654	1.2.3.4.7.12	Procurement	ANL	ED&I	3	6 wks	\$0.00	\$0.00	\$17,834.40	\$17,834.40	\$5,314.65	\$8,102.17	\$31,251.22
		<i>ANL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$17,834.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2655	1.2.3.4.7.13	Shipping	ANL	M&S	3	0 wks	\$0.00	\$11,000.00	\$0.00	\$11,000.00	\$1,430.00	\$4,350.50	\$16,780.50
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>11,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2656	1.2.3.4.7.14	Install. supervision	ANL	ED&I	3	6 wks	\$0.00	\$0.00	\$17,834.40	\$17,834.40	\$5,314.65	\$8,102.17	\$31,251.22
		<i>ANL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$17,834.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2657	1.2.3.5	Power Conversion			0	68 wks	\$0.00	\$462,000.00	\$157,060.80	\$619,060.80	\$101,397.80	\$236,866.97	\$957,325.57
2658	1.2.3.5.1	Und. power supplies			0	68 wks	\$0.00	\$462,000.00	\$157,060.80	\$619,060.80	\$101,397.80	\$236,866.97	\$957,325.57

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
2659	1.2.3.5.1.1	Vert./horiz. steering	ANL	M&S	3	0 wks	\$0.00	\$462,000.00	\$0.00	\$462,000.00	\$60,060.00	\$182,721.00	\$704,781.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>462,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$462,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2660	1.2.3.5.1.2	Assembly	ANL	ED&I	3	10 wks	\$0.00	\$0.00	\$29,724.00	\$29,724.00	\$8,857.75	\$13,503.61	\$52,085.37
		<i>ANL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>10 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$29,724.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2661	1.2.3.5.1.2	Assembly	ANL	B&H	3	33 wks	\$0.00	\$0.00	\$67,108.80	\$67,108.80	\$16,240.33	\$29,172.20	\$112,521.32
		<i>ANL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>33 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$67,108.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2662	1.2.3.5.1.3	Testing	ANL	ED&I	1	10 wks	\$0.00	\$0.00	\$29,724.00	\$29,724.00	\$8,857.75	\$5,787.26	\$44,369.01
		<i>ANL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>10 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$29,724.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2663	1.2.3.5.1.3	Testing	ANL	B&H	1	15 wks	\$0.00	\$0.00	\$30,504.00	\$30,504.00	\$7,381.97	\$5,682.90	\$43,568.86
		<i>ANL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>15 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$30,504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2664	1.2.3.6	Magnets			0	33 wks	\$0.00	\$330,000.00	\$92,456.40	\$422,456.40	\$69,768.72	\$164,134.88	\$656,359.99
2665	1.2.3.6.1	Undulator Electromagnets			0	33 wks	\$0.00	\$330,000.00	\$92,456.40	\$422,456.40	\$69,768.72	\$164,134.88	\$656,359.99
2666	1.2.3.6.1.1	Correctors	ANL	M&S	3	0 wks	\$0.00	\$330,000.00	\$0.00	\$330,000.00	\$42,900.00	\$130,515.00	\$503,415.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>330,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$330,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2667	1.2.3.6.1.2	Procurement supervision	ANL	ED&I	2	6 wks	\$0.00	\$0.00	\$17,834.40	\$17,834.40	\$5,314.65	\$5,787.26	\$28,936.31
		<i>ANL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$17,834.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2668	1.2.3.6.1.3	Installation supervision	ANL	ED&I	2	4 wks	\$0.00	\$0.00	\$11,889.60	\$11,889.60	\$3,543.10	\$3,858.18	\$19,290.88
		<i>ANL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,889.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2669	1.2.3.6.1.4	Magnetic measurement	ANL	ED&I	2	17 wks	\$0.00	\$0.00	\$50,530.80	\$50,530.80	\$15,058.18	\$16,397.24	\$81,986.22
		<i>ANL Physicist - Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>17 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$50,530.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2670	1.2.3.6.1.4	Magnetic measurement	ANL	B&H	4	6 wks	\$0.00	\$0.00	\$12,201.60	\$12,201.60	\$2,952.79	\$7,577.19	\$22,731.58
		<i>ANL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,201.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2671	1.2.3.6.2	Quads			0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2672	1.2.3.6.2.1	Permanent magnet quads	ANL		2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2673	1.2.3.6.3	Corrector			0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2674	1.2.3.6.3.1	Correctors	ANL		2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2675	1.2.3.7	Controls			0	305.7 wks	\$0.00	\$1,483,500.00	\$757,912.96	\$2,241,412.96	\$384,347.06	\$713,374.00	\$3,339,134.02
2676	1.2.3.7.1	EPICS Hardware	ANL		0	20 wks	\$0.00	\$299,000.00	\$50,060.00	\$349,060.00	\$52,649.06	\$76,096.23	\$477,805.29
2677	1.2.3.7.1.1	VME Crate	ANL	M&S	1	0 wks	\$0.00	\$80,000.00	\$0.00	\$80,000.00	\$10,400.00	\$13,560.00	\$103,960.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>80,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$80,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2678	1.2.3.7.1.1	VME Crate	ANL	B&H	1	2 wks	\$0.00	\$0.00	\$4,067.20	\$4,067.20	\$984.26	\$757.72	\$5,809.18
		<i>ANL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,067.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2679	1.2.3.7.1.1	VME Processor	ANL	M&S	1	0 wks	\$0.00	\$48,000.00	\$0.00	\$48,000.00	\$6,240.00	\$8,136.00	\$62,376.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>48,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$48,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2680	1.2.3.7.1.1	VME Processor	ANL	B&H	1	2 wks	\$0.00	\$0.00	\$4,067.20	\$4,067.20	\$984.26	\$757.72	\$5,809.18

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>ANL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,067.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2681	1.2.3.7.1.1	VME Transision h/w	ANL	M&S	1	0 wks	\$0.00	\$32,000.00	\$0.00	\$32,000.00	\$4,160.00	\$5,424.00	\$41,584.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>32,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$32,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2682	1.2.3.7.1.1	VME Transision h/w	ANL	B&H	1	1 wk	\$0.00	\$0.00	\$2,033.60	\$2,033.60	\$492.13	\$378.86	\$2,904.59
		<i>ANL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,033.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2683	1.2.3.7.1.1	VME Fieldbus intfc	ANL	M&S	2	0 wks	\$0.00	\$90,000.00	\$0.00	\$90,000.00	\$11,700.00	\$25,425.00	\$127,125.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>90,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$90,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2684	1.2.3.7.1.1	VME Fieldbus intfc	ANL	B&H	2	3 wks	\$0.00	\$0.00	\$6,100.80	\$6,100.80	\$1,476.39	\$1,894.30	\$9,471.49
		<i>ANL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,100.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2685	1.2.3.7.1.1	VME Timing module	ANL	M&S	2	0 wks	\$0.00	\$39,000.00	\$0.00	\$39,000.00	\$5,070.00	\$11,017.50	\$55,087.50
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>39,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$39,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2686	1.2.3.7.1.1	VME Timing module	ANL	B&H	2	2 wks	\$0.00	\$0.00	\$4,067.20	\$4,067.20	\$984.26	\$1,262.87	\$6,314.33
		<i>ANL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,067.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2687	1.2.3.7.1.1	EPICS server	ANL	M&S	1	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$1,300.00	\$1,695.00	\$12,995.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2688	1.2.3.7.1.1	EPICS server	ANL	ED&I	1	10 wks	\$0.00	\$0.00	\$29,724.00	\$29,724.00	\$8,857.75	\$5,787.26	\$44,369.01
		<i>ANL Controls: Programmer</i>		<i>ED&I</i>	<i>0</i>	<i>10 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$29,724.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2689	1.2.3.7.2	Vacuun controls			0	48.5 wks	\$0.00	\$149,000.00	\$126,793.60	\$275,793.60	\$55,047.68	\$88,014.61	\$418,855.90
2690	1.2.3.7.2.2	Ion pump controller (IPC)	ANL	M&S	2	0 wks	\$0.00	\$19,000.00	\$0.00	\$19,000.00	\$2,470.00	\$5,367.50	\$26,837.50
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>19,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$19,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2691	1.2.3.7.2.2	Ion pump controller (IPC)	ANL	B&H	2	2 wks	\$0.00	\$0.00	\$4,067.20	\$4,067.20	\$984.26	\$1,262.87	\$6,314.33
		<i>ANL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,067.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2692	1.2.3.7.2.2	Software - IPC	ANL	ED&I	2	4 wks	\$0.00	\$0.00	\$11,889.60	\$11,889.60	\$3,543.10	\$3,858.18	\$19,290.88
		<i>ANL Controls: Programmer</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,889.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2693	1.2.3.7.2.2	Vac. Gauge controller (VGC)	ANL	M&S	2	0 wks	\$0.00	\$36,000.00	\$0.00	\$36,000.00	\$4,680.00	\$10,170.00	\$50,850.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>36,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$36,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2694	1.2.3.7.2.2	Vac. Gauge controller (VGC)	ANL	B&H	2	2 wks	\$0.00	\$0.00	\$4,067.20	\$4,067.20	\$984.26	\$1,262.87	\$6,314.33
		<i>ANL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,067.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2695	1.2.3.7.2.2	Software - VGC	ANL	ED&I	2	2 wks	\$0.00	\$0.00	\$5,944.80	\$5,944.80	\$1,771.55	\$1,929.09	\$9,645.44
		<i>ANL Controls: Programmer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,944.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2696	1.2.3.7.2.2	Software - VGC	ANL	B&H	2	2 wks	\$0.00	\$0.00	\$4,067.20	\$4,067.20	\$984.26	\$1,262.87	\$6,314.33
		<i>ANL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,067.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2697	1.2.3.7.2.2	Gate valve controller (VVC)	ANL	M&S	2	0 wks	\$0.00	\$56,000.00	\$0.00	\$56,000.00	\$7,280.00	\$15,820.00	\$79,100.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>56,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$56,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2698	1.2.3.7.2.2	Gate valve controller (VVC)	ANL	B&H	2	8.5 wks	\$0.00	\$0.00	\$17,285.60	\$17,285.60	\$4,183.12	\$5,367.18	\$26,835.89

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>ANL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>8.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$17,285.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2699	1.2.3.7.2.2	Software - VVC	ANL	ED&I	2	16 wks	\$0.00	\$0.00	\$47,558.40	\$47,558.40	\$14,172.40	\$15,432.70	\$77,163.50
		<i>ANL Controls: Programmer</i>		<i>ED&I</i>	<i>0</i>	<i>16 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$47,558.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2700	1.2.3.7.2.2	Turbo pump controller (TPC)	ANL	M&S	3	0 wks	\$0.00	\$19,000.00	\$0.00	\$19,000.00	\$2,470.00	\$7,514.50	\$28,984.50
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>19,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$19,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2701	1.2.3.7.2.2	Turbo pump controller (TPC)	ANL	B&H	3	2 wks	\$0.00	\$0.00	\$4,067.20	\$4,067.20	\$984.26	\$1,768.01	\$6,819.47
		<i>ANL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,067.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2702	1.2.3.7.2.2	Software - TPC	ANL	ED&I	2	4 wks	\$0.00	\$0.00	\$11,889.60	\$11,889.60	\$3,543.10	\$3,858.18	\$19,290.88
		<i>ANL Controls: Programmer</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,889.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2703	1.2.3.7.2.2	Roughing pump cntlr (RPC)	ANL	M&S	3	0 wks	\$0.00	\$19,000.00	\$0.00	\$19,000.00	\$2,470.00	\$7,514.50	\$28,984.50
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>19,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$19,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2704	1.2.3.7.2.2	Roughing pump cntlr (RPC)	ANL	B&H	3	2 wks	\$0.00	\$0.00	\$4,067.20	\$4,067.20	\$984.26	\$1,768.01	\$6,819.47
		<i>ANL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,067.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2705	1.2.3.7.2.2	Software - RPC	ANL	ED&I	2	4 wks	\$0.00	\$0.00	\$11,889.60	\$11,889.60	\$3,543.10	\$3,858.18	\$19,290.88
		<i>ANL Controls: Programmer</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,889.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2706	1.2.3.7.3	Motor controls	ANL		0	32 wks	\$0.00	\$470,000.00	\$80,096.00	\$550,096.00	\$83,146.50	\$158,310.63	\$791,553.13
2707	1.2.3.7.3.1	Strongback motors	ANL	M&S	2	0 wks	\$0.00	\$334,000.00	\$0.00	\$334,000.00	\$43,420.00	\$94,355.00	\$471,775.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>334,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$334,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2708	1.2.3.7.3.1	Strongback motors	ANL	B&H	2	8 wks	\$0.00	\$0.00	\$16,268.80	\$16,268.80	\$3,937.05	\$5,051.46	\$25,257.31
		<i>ANL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$16,268.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2709	1.2.3.7.3.1	Software - ID Motor	ANL	ED&I	2	8 wks	\$0.00	\$0.00	\$23,779.20	\$23,779.20	\$7,086.20	\$7,716.35	\$38,581.75
		<i>ANL Controls: Programmer</i>		<i>ED&I</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$23,779.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2710	1.2.3.7.3.1	Quadrupole motors	ANL	M&S	2	0 wks	\$0.00	\$136,000.00	\$0.00	\$136,000.00	\$17,680.00	\$38,420.00	\$192,100.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>136,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$136,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2711	1.2.3.7.3.1	Quadrupole motors	ANL	B&H	2	8 wks	\$0.00	\$0.00	\$16,268.80	\$16,268.80	\$3,937.05	\$5,051.46	\$25,257.31
		<i>ANL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$16,268.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2712	1.2.3.7.3.1	Software - Quad motor	ANL	ED&I	2	8 wks	\$0.00	\$0.00	\$23,779.20	\$23,779.20	\$7,086.20	\$7,716.35	\$38,581.75
		<i>ANL Controls: Programmer</i>		<i>ED&I</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$23,779.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2713	1.2.3.7.4	Diagnostic controls/DAQ	ANL		0	98 wks	\$0.00	\$510,000.00	\$240,600.00	\$750,600.00	\$131,849.19	\$286,078.84	\$1,168,528.04
2714	1.2.3.7.4.1	RFBPM	ANL	M&S	3	0 wks	\$0.00	\$84,000.00	\$0.00	\$84,000.00	\$10,920.00	\$33,222.00	\$128,142.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>84,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$84,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2715	1.2.3.7.4.1	RFBPM	ANL	B&H	3	4 wks	\$0.00	\$0.00	\$8,134.40	\$8,134.40	\$1,968.52	\$3,536.02	\$13,638.95
		<i>ANL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,134.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2716	1.2.3.7.4.1	Software - RFBPM	ANL	ED&I	2	4 wks	\$0.00	\$0.00	\$11,889.60	\$11,889.60	\$3,543.10	\$3,858.18	\$19,290.88
		<i>ANL Controls: Programmer</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,889.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
2717	1.2.3.7.4.1	Cerenkov detector	ANL	M&S	2	0 wks	\$0.00	\$68,000.00	\$0.00	\$68,000.00	\$8,840.00	\$19,210.00	\$96,050.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>68,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$68,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2718	1.2.3.7.4.1	Cerenkov detector	ANL	B&H	2	4 wks	\$0.00	\$0.00	\$8,134.40	\$8,134.40	\$1,968.52	\$2,525.73	\$12,628.66
		<i>ANL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,134.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2719	1.2.3.7.4.1	Software - cerenkov	ANL	ED&I	2	4 wks	\$0.00	\$0.00	\$11,889.60	\$11,889.60	\$3,543.10	\$3,858.18	\$19,290.88
		<i>ANL Controls: Programmer</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,889.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2720	1.2.3.7.4.1	Optical station	ANL	M&S	3	0 wks	\$0.00	\$120,000.00	\$0.00	\$120,000.00	\$15,600.00	\$47,460.00	\$183,060.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>120,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$120,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2721	1.2.3.7.4.1	Optical station	ANL	B&H	3	16 wks	\$0.00	\$0.00	\$32,537.60	\$32,537.60	\$7,874.10	\$14,144.09	\$54,555.79
		<i>ANL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>16 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$32,537.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2722	1.2.3.7.4.1	Software - Optical station	ANL	ED&I	3	4 wks	\$0.00	\$0.00	\$11,889.60	\$11,889.60	\$3,543.10	\$5,401.45	\$20,834.15
		<i>ANL Controls: Programmer</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,889.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2723	1.2.3.7.4.1	X-Ray diagnostics	ANL	M&S	3	0 wks	\$0.00	\$144,000.00	\$0.00	\$144,000.00	\$18,720.00	\$56,952.00	\$219,672.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>144,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$144,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2724	1.2.3.7.4.1	X-Ray diagnostics	ANL	B&H	3	16 wks	\$0.00	\$0.00	\$32,537.60	\$32,537.60	\$7,874.10	\$14,144.09	\$54,555.79
		<i>ANL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>16 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$32,537.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2725	1.2.3.7.4.1	Software - Xray station	ANL	ED&I	3	4 wks	\$0.00	\$0.00	\$11,889.60	\$11,889.60	\$3,543.10	\$5,401.45	\$20,834.15
		<i>ANL Controls: Programmer</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,889.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2726	1.2.3.7.4.1	PC Hardware - image anlys.	ANL	M&S	3	0 wks	\$0.00	\$60,000.00	\$0.00	\$60,000.00	\$7,800.00	\$23,730.00	\$91,530.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>60,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$60,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2727	1.2.3.7.4.1	PC Hardware - image anlys.	ANL	B&H	3	4 wks	\$0.00	\$0.00	\$8,134.40	\$8,134.40	\$1,968.52	\$3,536.02	\$13,638.95
		<i>ANL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,134.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2728	1.2.3.7.4.1	Software - Image anlys	ANL	ED&I	3	16 wks	\$0.00	\$0.00	\$47,558.40	\$47,558.40	\$14,172.40	\$21,605.78	\$83,336.58
		<i>ANL Controls: Programmer</i>		<i>ED&I</i>	<i>0</i>	<i>16 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$47,558.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2729	1.2.3.7.4.1	Diagnostic laser	ANL	M&S	2	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$1,040.00	\$2,260.00	\$11,300.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2730	1.2.3.7.4.1	Diagnostic laser	ANL	B&H	2	2 wks	\$0.00	\$0.00	\$4,067.20	\$4,067.20	\$984.26	\$1,262.87	\$6,314.33
		<i>ANL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,067.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2731	1.2.3.7.4.1	Software - Diag laser	ANL	ED&I	2	4 wks	\$0.00	\$0.00	\$11,889.60	\$11,889.60	\$3,543.10	\$3,858.18	\$19,290.88
		<i>ANL Controls: Programmer</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,889.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2732	1.2.3.7.4.1	Wire scanner	ANL	M&S	2	0 wks	\$0.00	\$20,000.00	\$0.00	\$20,000.00	\$2,600.00	\$5,650.00	\$28,250.00
		<i>ANL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>20,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$20,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2733	1.2.3.7.4.1	Wire scanner	ANL	B&H	2	4 wks	\$0.00	\$0.00	\$8,134.40	\$8,134.40	\$1,968.52	\$2,525.73	\$12,628.66
		<i>ANL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,134.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2734	1.2.3.7.4.1	Software - Wire scanner	ANL	ED&I	2	4 wks	\$0.00	\$0.00	\$11,889.60	\$11,889.60	\$3,543.10	\$3,858.18	\$19,290.88

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>ANL Controls: Programmer</i>		<i>ED&I</i>	0	4 wks	\$0.00	\$0.00	\$0.00	\$11,889.60	\$0.00	\$0.00	\$0.00
2735	1.2.3.7.4.1	Pulse current monitor	ANL	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$780.00	\$1,695.00	\$8,475.00
		<i>ANL M&S Total</i>		<i>M&S</i>	0	6,000	\$0.00	\$0.00	\$0.00	\$6,000.00	\$0.00	\$0.00	\$0.00
2736	1.2.3.7.4.1	Pulse current monitor	ANL	B&H	2	4 wks	\$0.00	\$0.00	\$8,134.40	\$8,134.40	\$1,968.52	\$2,525.73	\$12,628.66
		<i>ANL Controls: Technician</i>		<i>B&H</i>	0	4 wks	\$0.00	\$0.00	\$0.00	\$8,134.40	\$0.00	\$0.00	\$0.00
2737	1.2.3.7.4.1	Software - PCM	ANL	ED&I	2	4 wks	\$0.00	\$0.00	\$11,889.60	\$11,889.60	\$3,543.10	\$3,858.18	\$19,290.88
		<i>ANL Controls: Programmer</i>		<i>ED&I</i>	0	4 wks	\$0.00	\$0.00	\$0.00	\$11,889.60	\$0.00	\$0.00	\$0.00
2738	1.2.3.7.5	Power Supply Controls	ANL		0	24 wks	\$0.00	\$36,500.00	\$56,316.80	\$92,816.80	\$19,705.30	\$28,130.53	\$140,652.63
2739	1.2.3.7.5.1	Steering coil (H)	ANL	M&S	2	0 wks	\$0.00	\$18,000.00	\$0.00	\$18,000.00	\$2,340.00	\$5,085.00	\$25,425.00
		<i>ANL M&S Total</i>		<i>M&S</i>	0	18,000	\$0.00	\$0.00	\$0.00	\$18,000.00	\$0.00	\$0.00	\$0.00
2740	1.2.3.7.5.1	Steering coil (H)	ANL	B&H	2	2 wks	\$0.00	\$0.00	\$4,067.20	\$4,067.20	\$984.26	\$1,262.87	\$6,314.33
		<i>ANL Controls: Technician</i>		<i>B&H</i>	0	2 wks	\$0.00	\$0.00	\$0.00	\$4,067.20	\$0.00	\$0.00	\$0.00
2741	1.2.3.7.5.1	Software - PS (H)	ANL	ED&I	2	4 wks	\$0.00	\$0.00	\$11,889.60	\$11,889.60	\$3,543.10	\$3,858.18	\$19,290.88
		<i>ANL Controls: Programmer</i>		<i>ED&I</i>	0	4 wks	\$0.00	\$0.00	\$0.00	\$11,889.60	\$0.00	\$0.00	\$0.00
2742	1.2.3.7.5.1	Steering coil (V)	ANL	M&S	2	0 wks	\$0.00	\$18,000.00	\$0.00	\$18,000.00	\$2,340.00	\$5,085.00	\$25,425.00
		<i>ANL M&S Total</i>		<i>M&S</i>	0	18,000	\$0.00	\$0.00	\$0.00	\$18,000.00	\$0.00	\$0.00	\$0.00
2743	1.2.3.7.5.1	Steering coil (V)	ANL	B&H	2	2 wks	\$0.00	\$0.00	\$4,067.20	\$4,067.20	\$984.26	\$1,262.87	\$6,314.33
		<i>ANL Controls: Technician</i>		<i>B&H</i>	0	2 wks	\$0.00	\$0.00	\$0.00	\$4,067.20	\$0.00	\$0.00	\$0.00
2744	1.2.3.7.5.1	Software - PS (V)	ANL	B&H	2	4 wks	\$0.00	\$0.00	\$8,134.40	\$8,134.40	\$1,968.52	\$2,525.73	\$12,628.66
		<i>ANL Controls: Technician</i>		<i>B&H</i>	0	4 wks	\$0.00	\$0.00	\$0.00	\$8,134.40	\$0.00	\$0.00	\$0.00
2745	1.2.3.7.5.1	Phase correctors	ANL	M&S	2	0 wks	\$0.00	\$500.00	\$0.00	\$500.00	\$65.00	\$141.25	\$706.25
		<i>ANL M&S Total</i>		<i>M&S</i>	0	500	\$0.00	\$0.00	\$0.00	\$500.00	\$0.00	\$0.00	\$0.00
2746	1.2.3.7.5.1	Phase correctors	ANL	B&H	2	8 wks	\$0.00	\$0.00	\$16,268.80	\$16,268.80	\$3,937.05	\$5,051.46	\$25,257.31
		<i>ANL Controls: Technician</i>		<i>B&H</i>	0	8 wks	\$0.00	\$0.00	\$0.00	\$16,268.80	\$0.00	\$0.00	\$0.00
2747	1.2.3.7.5.1	Software - Phase corrector	ANL	ED&I	2	4 wks	\$0.00	\$0.00	\$11,889.60	\$11,889.60	\$3,543.10	\$3,858.18	\$19,290.88
		<i>ANL Controls: Programmer</i>		<i>ED&I</i>	0	4 wks	\$0.00	\$0.00	\$0.00	\$11,889.60	\$0.00	\$0.00	\$0.00
2748	1.2.3.7.6	Computers and Crates (3)			0	65.2 wks	\$0.00	\$1,000.00	\$158,957.76	\$159,957.76	\$31,851.55	\$55,266.53	\$247,075.84
2749	1.2.3.7.6.1	Software support for integrating ANL Control Systems	SLAC	ED&I	3	25 wks	\$0.00	\$0.00	\$63,160.00	\$63,160.00	\$12,632.00	\$26,527.20	\$102,319.20
		<i>SLAC Controls: Programmer</i>		<i>ED&I</i>	0	25 wks	\$0.00	\$0.00	\$0.00	\$63,160.00	\$0.00	\$0.00	\$0.00
2750	1.2.3.7.6.2	CAMAC Crates (Refurb), Control & Support Modules	SLAC	ED&I	2	8 wks	\$0.00	\$0.00	\$16,000.00	\$16,000.00	\$3,200.00	\$4,800.00	\$24,000.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	0	8 wks	\$0.00	\$0.00	\$0.00	\$16,000.00	\$0.00	\$0.00	\$0.00
2751	1.2.3.7.6.3	VME Crates, IOC's & Interface Chassis (0)	SLAC	ED&I	2	30 wks	\$0.00	\$0.00	\$75,792.00	\$75,792.00	\$15,158.40	\$22,737.60	\$113,688.00
		<i>SLAC Controls: Programmer</i>		<i>ED&I</i>	0	30 wks	\$0.00	\$0.00	\$0.00	\$75,792.00	\$0.00	\$0.00	\$0.00
2752	1.2.3.7.6.4	Install VME Crates, IOC's & Interface Chassis	SLAC	B&H	2	1.6 wks	\$0.00	\$0.00	\$2,805.76	\$2,805.76	\$561.15	\$841.73	\$4,208.64
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	0	1.6 wks	\$0.00	\$0.00	\$0.00	\$2,805.76	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
2753	1.2.3.7.6.5	Cableplant	SLAC	M&S	0	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$0.00	\$1,060.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2754	1.2.3.7.6.6	Install Cableplant	SLAC	B&H	2	0.6 wks	\$0.00	\$0.00	\$1,200.00	\$1,200.00	\$240.00	\$360.00	\$1,800.00
		<i>SLACL PCD:Inst-Cablng-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2755	1.2.3.7.7	TIMING DISTRIBUTION SYSTEM-Undulator			0	18 wks	\$0.00	\$18,000.00	\$45,088.80	\$63,088.80	\$10,097.76	\$21,476.64	\$94,663.20
2756	1.2.3.7.7.1	Distributed Timing Hardware	SLAC	M&S	4	0 wks	\$0.00	\$12,000.00	\$0.00	\$12,000.00	\$720.00	\$6,360.00	\$19,080.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>12,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2757	1.2.3.7.7.2	Install Timing System Hardware	SLAC	B&H	2	0.5 wks	\$0.00	\$0.00	\$876.80	\$876.80	\$175.36	\$263.04	\$1,315.20
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$876.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2758	1.2.3.7.7.3	Timing System Helix Cableplant	SLAC	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$1,590.00	\$7,950.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2759	1.2.3.7.7.4	Timing Software support of ANL Systems	SLAC	ED&I	2	17.5 wks	\$0.00	\$0.00	\$44,212.00	\$44,212.00	\$8,842.40	\$13,263.60	\$66,318.00
		<i>SLAC Controls: Programmer</i>		<i>ED&I</i>	<i>0</i>	<i>17.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$44,212.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2760	1.2.3.8	PPS			0	32.75 wks	\$0.00	\$0.00	\$84,191.68	\$84,191.68	\$16,838.34	\$36,109.98	\$137,139.99
2761	1.2.3.8.1	PPS	SLAC		0	21.75 wks	\$0.00	\$0.00	\$55,561.28	\$55,561.28	\$11,112.26	\$21,331.74	\$88,005.27
2762	1.2.3.8.1.1	PPS Hardware Engineer	SLAC	ED&I	3	11.9 wks	\$0.00	\$0.00	\$35,071.68	\$35,071.68	\$7,014.34	\$14,730.11	\$56,816.12
		<i>SLAC Controls: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>11.9 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35,071.68</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2763	1.2.3.8.1.1	PPS Coordination & Documentation	SLAC	ED&I	2	8.35 wks	\$0.00	\$0.00	\$16,700.00	\$16,700.00	\$3,340.00	\$5,010.00	\$25,050.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	<i>0</i>	<i>8.35 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$16,700.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2764	1.2.3.8.1.1	PPS Software Development	SLAC	ED&I	3	1.5 wks	\$0.00	\$0.00	\$3,789.60	\$3,789.60	\$757.92	\$1,591.63	\$6,139.15
		<i>SLAC Controls: Programmer</i>		<i>ED&I</i>	<i>0</i>	<i>1.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,789.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2765	1.2.3.8.2	BCS	SLAC		0	5.5 wks	\$0.00	\$0.00	\$14,315.20	\$14,315.20	\$2,863.04	\$7,389.12	\$24,567.36
2766	1.2.3.8.2.1	BCS Hardware Engineer	SLAC	ED&I	4	3.5 wks	\$0.00	\$0.00	\$10,315.20	\$10,315.20	\$2,063.04	\$6,189.12	\$18,567.36
		<i>SLAC Controls: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>3.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,315.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2767	1.2.3.8.2.1	BCS Coordination & Documentation	SLAC	ED&I	2	2 wks	\$0.00	\$0.00	\$4,000.00	\$4,000.00	\$800.00	\$1,200.00	\$6,000.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2768	1.2.3.8.3	MPS	SLAC		0	5.5 wks	\$0.00	\$0.00	\$14,315.20	\$14,315.20	\$2,863.04	\$7,389.12	\$24,567.36
2769	1.2.3.8.3.1	MPS Hardware Engineer	SLAC	ED&I	4	3.5 wks	\$0.00	\$0.00	\$10,315.20	\$10,315.20	\$2,063.04	\$6,189.12	\$18,567.36
		<i>SLAC Controls: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>3.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,315.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2770	1.2.3.8.3.1	MPS Coordination & Documentation	SLAC	ED&I	2	2 wks	\$0.00	\$0.00	\$4,000.00	\$4,000.00	\$800.00	\$1,200.00	\$6,000.00
		<i>SLAC Controls: Coordinator Assoc.</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2771	1.2.3.9	Undulator Measurement System			0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2772	1.2.3.9.1	Und. Meas. System	ANL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2773	1.2.3.9.1.1	Granite bench	ANL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2774	1.2.3.9.1.1	Slide assembly	ANL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
2775	1.2.3.9.1.1	Trolley assembly	ANL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2776	1.2.3.9.1.1	Rotary coil assembly	ANL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2777	1.2.3.9.1.1	Hall probes	ANL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2778	1.2.3.9.1.1	Integrator	ANL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2779	1.2.3.9.1.1	Motion controls	ANL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2780	1.2.3.9.1.1	Equipment rack	ANL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2781	1.2.3.9.1.1	Moving coils	ANL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2782	1.2.3.9.1.1	Pulsed wire system	ANL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2783	1.2.3.9.1.1	Air system	ANL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2784	1.2.3.9.1.1	Computer	ANL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2785	1.2.3.9.1.1	Cabling	ANL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2786	1.2.3.9.1.1	Assembly	ANL	ED&I	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>ANL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>0 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2787	1.2.3.9.1.1	Assembly	ANL	ED&I	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>ANL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2788	1.2.3.9.1.1	Assembly	ANL	ED&I	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>ANL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2789	1.2.3.9.1.1	Assembly	ANL	B&H	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>ANL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2790	1.2.3.9.1.1	Assembly	ANL	ED&I	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>ANL Controls: Programmer</i>		<i>ED&I</i>	<i>0</i>	<i>0 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2791	1.2.3.9.1.1	Crating & shipping	ANL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2792	1.2.3.9.1.1	Install. supervision	ANL	ED&I	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>ANL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2793	1.2.3.9.1.1	Install. supervision	ANL	ED&I	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>ANL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2794	1.2.3.9.1.1	Install. supervision	ANL	ED&I	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>ANL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>0 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2795	1.2.4	Installation & Alignment			0	1,808.74 wks	\$0.00	\$1,386,000.00	\$4,031,866.24	\$5,417,866.24	\$889,533.25	\$1,947,083.57	\$8,254,483.06
2796	1.2.4.1	Injector Installation			0	160.3 wks	\$0.00	\$0.00	\$363,279.60	\$363,279.60	\$72,655.92	\$143,172.89	\$579,108.41
2797	1.2.4.1.1	Reserved			0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2798	1.2.4.1.2	Gun & Load Lock Installation			0	6 wks	\$0.00	\$0.00	\$11,992.80	\$11,992.80	\$2,398.56	\$3,597.84	\$17,989.20
2799	1.2.4.1.2.1	Gun	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$3,997.60	\$3,997.60	\$799.52	\$1,199.28	\$5,996.40
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,997.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2800	1.2.4.1.2.1	Loadlock	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$3,997.60	\$3,997.60	\$799.52	\$1,199.28	\$5,996.40

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,997.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2801	1.2.4.1.2.1	Diagnostics	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$3,997.60	\$3,997.60	\$799.52	\$1,199.28	\$5,996.40
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,997.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2802	1.2.4.1.3	L0 Installation			0	4 wks	\$0.00	\$0.00	\$7,995.20	\$7,995.20	\$1,599.04	\$2,398.56	\$11,992.80
2803	1.2.4.1.3.1	RF structures	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$3,997.60	\$3,997.60	\$799.52	\$1,199.28	\$5,996.40
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,997.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2804	1.2.4.1.3.1	Diagnostics	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$3,997.60	\$3,997.60	\$799.52	\$1,199.28	\$5,996.40
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,997.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2805	1.2.4.1.4	MS Installation			0	3 wks	\$0.00	\$0.00	\$5,996.40	\$5,996.40	\$1,199.28	\$1,798.92	\$8,994.60
2806	1.2.4.1.4.1	RF structures	SLAC	B&H	2	1 wk	\$0.00	\$0.00	\$1,998.80	\$1,998.80	\$399.76	\$599.64	\$2,998.20
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,998.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2807	1.2.4.1.4.1	Diagnostics	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$3,997.60	\$3,997.60	\$799.52	\$1,199.28	\$5,996.40
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,997.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2808	1.2.4.1.5	Straighthead Installation			0	1 wk	\$0.00	\$0.00	\$1,998.80	\$1,998.80	\$399.76	\$599.64	\$2,998.20
2809	1.2.4.1.5.1	Diagnostics	SLAC	B&H	2	1 wk	\$0.00	\$0.00	\$1,998.80	\$1,998.80	\$399.76	\$599.64	\$2,998.20
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,998.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2810	1.2.4.1.6	Reserved	SLAC		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2811	1.2.4.1.7	Reserved	SLAC		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2812	1.2.4.1.8	Reserved	SLAC		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2813	1.2.4.1.9	Protection System Installation			0	146.3 wks	\$0.00	\$0.00	\$335,296.40	\$335,296.40	\$67,059.28	\$134,777.93	\$537,133.61
2814	1.2.4.1.10	INJECTOR CONTROLS INSTALLATION			0	19.8 wks	\$0.00	\$0.00	\$53,856.00	\$53,856.00	\$10,771.20	\$16,572.96	\$81,200.16
2815	1.2.4.1.10.1	Computers and Crates (6)	SLAC		0	2.6 wks	\$0.00	\$0.00	\$7,072.00	\$7,072.00	\$1,414.40	\$2,121.60	\$10,608.00
2816	1.2.4.1.10.1	Install Cableplant	SLAC	B&H	2	0.6 wks	\$0.00	\$0.00	\$1,632.00	\$1,632.00	\$326.40	\$489.60	\$2,448.00
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,632.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2817	1.2.4.1.10.1	Install Multibus Cableplant	SLAC	B&H	2	1 wk	\$0.00	\$0.00	\$2,720.00	\$2,720.00	\$544.00	\$816.00	\$4,080.00
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,720.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2818	1.2.4.1.10.1	Install CAMAC System Cableplant	SLAC	B&H	2	1 wk	\$0.00	\$0.00	\$2,720.00	\$2,720.00	\$544.00	\$816.00	\$4,080.00
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,720.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2819	1.2.4.1.10.2	TIMING DISTRIBUTION SYSTEM-CAMAC	SLAC		0	3 wks	\$0.00	\$0.00	\$8,160.00	\$8,160.00	\$1,632.00	\$2,448.00	\$12,240.00
2820	1.2.4.1.10.2	Install Timing System Heliac Cableplant	SLAC	B&H	2	3 wks	\$0.00	\$0.00	\$8,160.00	\$8,160.00	\$1,632.00	\$2,448.00	\$12,240.00
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2821	1.2.4.1.10.3	LCLS VACUUM SYSTEM (11)	SLAC		0	0.6 wks	\$0.00	\$0.00	\$1,632.00	\$1,632.00	\$326.40	\$685.44	\$2,643.84
2822	1.2.4.1.10.3	Valve Control Cable (250')	SLAC	B&H	3	0.2 wks	\$0.00	\$0.00	\$544.00	\$544.00	\$108.80	\$228.48	\$881.28
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$544.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2823	1.2.4.1.10.3	Vacuum Guage Cable (coax) (250')	SLAC	B&H	3	0.2 wks	\$0.00	\$0.00	\$544.00	\$544.00	\$108.80	\$228.48	\$881.28

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		SLAC T&M Crafts - Union Electrician		B&H	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$544.00	\$0.00	\$0.00	\$0.00
2824	1.2.4.1.10.3	Valve Controller J-Box Cable (20')	SLAC	B&H	3	0.2 wks	\$0.00	\$0.00	\$544.00	\$544.00	\$108.80	\$228.48	\$881.28
		SLAC T&M Crafts - Union Electrician		B&H	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$544.00	\$0.00	\$0.00	\$0.00
2825	1.2.4.1.10.4	TUNE-UP DUMPS (1)	SLAC		0	0.2 wks	\$0.00	\$0.00	\$544.00	\$544.00	\$108.80	\$97.92	\$750.72
2826	1.2.4.1.10.4	Install Tune Dump Cableplant	SLAC	B&H	1	0.2 wks	\$0.00	\$0.00	\$544.00	\$544.00	\$108.80	\$97.92	\$750.72
		SLAC T&M Crafts - Union Electrician		B&H	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$544.00	\$0.00	\$0.00	\$0.00
2827	1.2.4.1.10.5	WIRE SCANNERS (4)	SLAC		0	5.4 wks	\$0.00	\$0.00	\$14,688.00	\$14,688.00	\$2,937.60	\$2,643.84	\$20,269.44
2828	1.2.4.1.10.5	RG58 to PMT 250'	SLAC	B&H	1	2.4 wks	\$0.00	\$0.00	\$6,528.00	\$6,528.00	\$1,305.60	\$1,175.04	\$9,008.64
		SLAC T&M Crafts - Union Electrician		B&H	0	2.4 wks	\$0.00	\$0.00	\$0.00	\$6,528.00	\$0.00	\$0.00	\$0.00
2829	1.2.4.1.10.5	MULTI-COND (4PR) DATRONIC TO LVDT 250'	SLAC	B&H	1	3 wks	\$0.00	\$0.00	\$8,160.00	\$8,160.00	\$1,632.00	\$1,468.80	\$11,260.80
		SLAC T&M Crafts - Union Electrician		B&H	0	3 wks	\$0.00	\$0.00	\$0.00	\$8,160.00	\$0.00	\$0.00	\$0.00
2830	1.2.4.1.10.6	BEAM POSITION MONITORS (13)	SLAC		0	1.43 wks	\$0.00	\$0.00	\$3,889.60	\$3,889.60	\$777.92	\$2,333.76	\$7,001.28
2831	1.2.4.1.10.6.6	RG223 (4 ea BPM, timed and matched, 200')	SLAC	B&H	4	1.43 wks	\$0.00	\$0.00	\$3,889.60	\$3,889.60	\$777.92	\$2,333.76	\$7,001.28
		SLAC T&M Crafts - Union Electrician		B&H	0	1.43 wks	\$0.00	\$0.00	\$0.00	\$3,889.60	\$0.00	\$0.00	\$0.00
2832	1.2.4.1.10.7	TOROIDS (6)	SLAC		0	0.48 wks	\$0.00	\$0.00	\$1,305.60	\$1,305.60	\$261.12	\$235.01	\$1,801.73
2833	1.2.4.1.10.7	RG22, TCM to TCM PreAmp (2)	SLAC	B&H	1	0.16 wks	\$0.00	\$0.00	\$435.20	\$435.20	\$87.04	\$78.34	\$600.58
		SLAC T&M Crafts - Union Electrician		B&H	0	0.16 wks	\$0.00	\$0.00	\$0.00	\$435.20	\$0.00	\$0.00	\$0.00
2834	1.2.4.1.10.7	2/c power, TCM to TCM PreAmp (1 each toroid)	SLAC	B&H	1	0.16 wks	\$0.00	\$0.00	\$435.20	\$435.20	\$87.04	\$78.34	\$600.58
		SLAC T&M Crafts - Union Electrician		B&H	0	0.16 wks	\$0.00	\$0.00	\$0.00	\$435.20	\$0.00	\$0.00	\$0.00
2835	1.2.4.1.10.7	RG58, TCM to TCM PreAmp (1 each toroid))	SLAC	B&H	1	0.16 wks	\$0.00	\$0.00	\$435.20	\$435.20	\$87.04	\$78.34	\$600.58
		SLAC T&M Crafts - Union Electrician		B&H	0	0.16 wks	\$0.00	\$0.00	\$0.00	\$435.20	\$0.00	\$0.00	\$0.00
2836	1.2.4.1.10.8	PROFILE MONITORS (7) / COLLIMATOR (1)	SLAC		0	2.18 wks	\$0.00	\$0.00	\$5,929.60	\$5,929.60	\$1,185.92	\$1,237.06	\$8,352.58
2837	1.2.4.1.10.8	RG59, coax-video (7)	SLAC	B&H	1	0.64 wks	\$0.00	\$0.00	\$1,740.80	\$1,740.80	\$348.16	\$313.34	\$2,402.30
		SLAC T&M Crafts - Union Electrician		B&H	0	0.64 wks	\$0.00	\$0.00	\$0.00	\$1,740.80	\$0.00	\$0.00	\$0.00
2838	1.2.4.1.10.8	Multi-conductor (21C/16GA-CONT&STAT) (7)	SLAC	B&H	1	0.64 wks	\$0.00	\$0.00	\$1,740.80	\$1,740.80	\$348.16	\$313.34	\$2,402.30
		SLAC T&M Crafts - Union Electrician		B&H	0	0.64 wks	\$0.00	\$0.00	\$0.00	\$1,740.80	\$0.00	\$0.00	\$0.00
2839	1.2.4.1.10.8	Multi-conductor (3C/16GA-AC POWER) (7)	SLAC	B&H	1	0.64 wks	\$0.00	\$0.00	\$1,740.80	\$1,740.80	\$348.16	\$313.34	\$2,402.30
		SLAC T&M Crafts - Union Electrician		B&H	0	0.64 wks	\$0.00	\$0.00	\$0.00	\$1,740.80	\$0.00	\$0.00	\$0.00
2840	1.2.4.1.10.8.1	Collimator (1)	SLAC		0	0.26 wks	\$0.00	\$0.00	\$707.20	\$707.20	\$141.44	\$297.02	\$1,145.66
2841	1.2.4.1.10.8.1	LVDT UNIT (2)	SLAC	B&H	3	0.02 wks	\$0.00	\$0.00	\$54.40	\$54.40	\$10.88	\$22.85	\$88.13
		SLAC T&M Crafts - Union Electrician		B&H	0	0.02 wks	\$0.00	\$0.00	\$0.00	\$54.40	\$0.00	\$0.00	\$0.00
2842	1.2.4.1.10.8.1	MULTI-COND (4PR) DATRONIC TO LVDT	SLAC	B&H	3	0.24 wks	\$0.00	\$0.00	\$652.80	\$652.80	\$130.56	\$274.18	\$1,057.54
		SLAC T&M Crafts - Union Electrician		B&H	0	0.24 wks	\$0.00	\$0.00	\$0.00	\$652.80	\$0.00	\$0.00	\$0.00
2843	1.2.4.1.10.9	E-O Diagnostic	SLAC		0	0.2 wks	\$0.00	\$0.00	\$544.00	\$544.00	\$108.80	\$97.92	\$750.72
2844	1.2.4.1.10.9	Multi-Cond. cable (4PR)	SLAC	B&H	1	0.2 wks	\$0.00	\$0.00	\$544.00	\$544.00	\$108.80	\$97.92	\$750.72

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$544.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2845	1.2.4.1.10.10	RF Controls	SLAC		0	2.5 wks	\$0.00	\$0.00	\$6,800.00	\$6,800.00	\$1,360.00	\$4,080.00	\$12,240.00
2846	1.2.4.1.10.10	Sector 20	SLAC		0	2.5 wks	\$0.00	\$0.00	\$6,800.00	\$6,800.00	\$1,360.00	\$4,080.00	\$12,240.00
2847	1.2.4.1.10.10	Cableplant Phase & Amp., BLM, Temp.	SLAC	B&H	4	2.5 wks	\$0.00	\$0.00	\$6,800.00	\$6,800.00	\$1,360.00	\$4,080.00	\$12,240.00
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>2.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2848	1.2.4.1.10.11	Gun & Injector Systems	SLAC		0	0.6 wks	\$0.00	\$0.00	\$1,632.00	\$1,632.00	\$326.40	\$293.76	\$2,252.16
2849	1.2.4.1.10.11	CAMAC Module, SAM (1)	SLAC	B&H	1	0.2 wks	\$0.00	\$0.00	\$544.00	\$544.00	\$108.80	\$97.92	\$750.72
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$544.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2850	1.2.4.1.10.11	CAMAC Module, IDOM (1)	SLAC	B&H	1	0.2 wks	\$0.00	\$0.00	\$544.00	\$544.00	\$108.80	\$97.92	\$750.72
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$544.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2851	1.2.4.1.10.11	CAMAC cable ID0M (1)	SLAC	B&H	1	0.2 wks	\$0.00	\$0.00	\$544.00	\$544.00	\$108.80	\$97.92	\$750.72
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$544.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2852	1.2.4.1.10.12	Alignment Laser Systems	SLAC		0	0.61 wks	\$0.00	\$0.00	\$1,659.20	\$1,659.20	\$331.84	\$298.66	\$2,289.70
2853	1.2.4.1.10.12	MULTI-COND (4PR)	SLAC	B&H	1	0.61 wks	\$0.00	\$0.00	\$1,659.20	\$1,659.20	\$331.84	\$298.66	\$2,289.70
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>0.61 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,659.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2854	1.2.4.1.11	Vacuum Beamline Installation	SLAC	B&H	3	16 wks	\$0.00	\$0.00	\$31,980.80	\$31,980.80	\$6,396.16	\$13,431.94	\$51,808.90
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>16 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$31,980.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2855	1.2.4.1.12	Injector Support Installation			3	110.5 wks	\$0.00	\$0.00	\$249,459.60	\$249,459.60	\$49,891.92	\$104,773.03	\$404,124.55
2856	1.2.4.1.12	Installation	SLAC	B&H	3	17 wks	\$0.00	\$0.00	\$33,979.60	\$33,979.60	\$6,795.92	\$14,271.43	\$55,046.95
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>17 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$33,979.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2857	1.2.4.1.12	Installation Welding	SLAC	B&H	3	2.5 wks	\$0.00	\$0.00	\$8,000.00	\$8,000.00	\$1,600.00	\$3,360.00	\$12,960.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>2.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2858	1.2.4.1.12	Alignment	SLAC	B&H	3	91 wks	\$0.00	\$0.00	\$207,480.00	\$207,480.00	\$41,496.00	\$87,141.60	\$336,117.60
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>91 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$207,480.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2859	1.2.4.2	Linac Installation			0	426.69 wks	\$0.00	\$0.00	\$986,657.14	\$986,657.14	\$197,331.43	\$462,879.09	\$1,646,867.66
2860	1.2.4.2.1	FFTB De-installation			0	78 wks	\$0.00	\$0.00	\$176,611.20	\$176,611.20	\$35,322.24	\$74,176.70	\$286,110.14
2861	1.2.4.2.1.1	FFTB De-installation (MFPAS)	SLAC	B&H	3	24 wks	\$0.00	\$0.00	\$47,971.20	\$47,971.20	\$9,594.24	\$20,147.90	\$77,713.34
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>24 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$47,971.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2862	1.2.4.2.1.1	FFTB De-installation (TME0)	SLAC	B&H	3	12 wks	\$0.00	\$0.00	\$28,320.00	\$28,320.00	\$5,664.00	\$11,894.40	\$45,878.40
		<i>SLAC T&M Crafts - Union Equip. Op.</i>		<i>B&H</i>	<i>0</i>	<i>12 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$28,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2863	1.2.4.2.1.1	FFTB De-installation (TMIW)	SLAC	B&H	3	34 wks	\$0.00	\$0.00	\$73,440.00	\$73,440.00	\$14,688.00	\$30,844.80	\$118,972.80
		<i>SLAC T&M Crafts - Union Ironwork.</i>		<i>B&H</i>	<i>0</i>	<i>34 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$73,440.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2864	1.2.4.2.1.1	FFTB De-installation (MEVE)	SLAC	ED&I	3	8 wks	\$0.00	\$0.00	\$26,880.00	\$26,880.00	\$5,376.00	\$11,289.60	\$43,545.60
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$26,880.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2865	1.2.4.2.2	L1 Installation			0	11.48 wks	\$0.00	\$0.00	\$25,329.82	\$25,329.82	\$5,065.96	\$7,598.95	\$37,994.74

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
2866	1.2.4.2.2.1	L1 Installation (MFPAS)	SLAC	B&H	2	8.48 wks	\$0.00	\$0.00	\$16,949.82	\$16,949.82	\$3,389.96	\$5,084.95	\$25,424.74
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>8.48 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$16,949.82</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2867	1.2.4.2.2.1	L1 Installation (TME0)	SLAC	B&H	2	0.5 wks	\$0.00	\$0.00	\$1,180.00	\$1,180.00	\$236.00	\$354.00	\$1,770.00
		<i>SLAC T&M Crafts - Union Equip. Op.</i>		<i>B&H</i>	<i>0</i>	<i>0.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,180.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2868	1.2.4.2.2.1	L1 Installation (TMIW)	SLAC	B&H	2	1 wk	\$0.00	\$0.00	\$2,160.00	\$2,160.00	\$432.00	\$648.00	\$3,240.00
		<i>SLAC T&M Crafts - Union Ironwork.</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2869	1.2.4.2.2.1	L1 Installation (MEVE)	SLAC	ED&I	2	1.5 wks	\$0.00	\$0.00	\$5,040.00	\$5,040.00	\$1,008.00	\$1,512.00	\$7,560.00
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,040.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2870	1.2.4.2.3	BC1 Installation			0	32.68 wks	\$0.00	\$0.00	\$72,133.98	\$72,133.98	\$14,426.80	\$30,296.27	\$116,857.05
2871	1.2.4.2.3.1	BC1 Installation (MFPAS)	SLAC	B&H	3	21.68 wks	\$0.00	\$0.00	\$43,333.98	\$43,333.98	\$8,666.80	\$18,200.27	\$70,201.05
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>21.68 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$43,333.98</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2872	1.2.4.2.3.1	BC1 Installation (TME0)	SLAC	B&H	3	2.4 wks	\$0.00	\$0.00	\$5,664.00	\$5,664.00	\$1,132.80	\$2,378.88	\$9,175.68
		<i>SLAC T&M Crafts - Union Equip. Op.</i>		<i>B&H</i>	<i>0</i>	<i>2.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,664.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2873	1.2.4.2.3.1	BC1 Installation (TMIW)	SLAC	B&H	3	4.8 wks	\$0.00	\$0.00	\$10,368.00	\$10,368.00	\$2,073.60	\$4,354.56	\$16,796.16
		<i>SLAC T&M Crafts - Union Ironwork.</i>		<i>B&H</i>	<i>0</i>	<i>4.8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,368.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2874	1.2.4.2.3.1	BC1 Installation (MEVE)	SLAC	ED&I	3	3.8 wks	\$0.00	\$0.00	\$12,768.00	\$12,768.00	\$2,553.60	\$5,362.56	\$20,684.16
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>3.8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,768.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2875	1.2.4.2.4	L2 Installation			0	11.13 wks	\$0.00	\$0.00	\$24,459.34	\$24,459.34	\$4,891.87	\$7,337.80	\$36,689.02
2876	1.2.4.2.4.1	L2 Installation (MFPAS)	SLAC	B&H	2	8.88 wks	\$0.00	\$0.00	\$17,749.34	\$17,749.34	\$3,549.87	\$5,324.80	\$26,624.02
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>8.88 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$17,749.34</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2877	1.2.4.2.4.1	L2 Installation (TME0)	SLAC	B&H	2	0.25 wks	\$0.00	\$0.00	\$590.00	\$590.00	\$118.00	\$177.00	\$885.00
		<i>SLAC T&M Crafts - Union Equip. Op.</i>		<i>B&H</i>	<i>0</i>	<i>0.25 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$590.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2878	1.2.4.2.4.1	L2 Installation (TMIW)	SLAC	B&H	2	0.5 wks	\$0.00	\$0.00	\$1,080.00	\$1,080.00	\$216.00	\$324.00	\$1,620.00
		<i>SLAC T&M Crafts - Union Ironwork.</i>		<i>B&H</i>	<i>0</i>	<i>0.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2879	1.2.4.2.4.1	L2 Installation (MEVE)	SLAC	ED&I	2	1.5 wks	\$0.00	\$0.00	\$5,040.00	\$5,040.00	\$1,008.00	\$1,512.00	\$7,560.00
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,040.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2880	1.2.4.2.5	BC2 Installation			0	36.28 wks	\$0.00	\$0.00	\$80,826.38	\$80,826.38	\$16,165.28	\$33,947.08	\$130,938.74
2881	1.2.4.2.5.1	BC2 Installation (MFPAS)	SLAC	B&H	3	24.68 wks	\$0.00	\$0.00	\$49,330.38	\$49,330.38	\$9,866.08	\$20,718.76	\$79,915.22
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>24.68 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$49,330.38</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2882	1.2.4.2.5.1	BC2 Installation (TME0)	SLAC	B&H	3	2.2 wks	\$0.00	\$0.00	\$5,192.00	\$5,192.00	\$1,038.40	\$2,180.64	\$8,411.04
		<i>SLAC T&M Crafts - Union Equip. Op.</i>		<i>B&H</i>	<i>0</i>	<i>2.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,192.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2883	1.2.4.2.5.1	BC2 Installation (TMIW)	SLAC	B&H	3	4.4 wks	\$0.00	\$0.00	\$9,504.00	\$9,504.00	\$1,900.80	\$3,991.68	\$15,396.48
		<i>SLAC T&M Crafts - Union Ironwork.</i>		<i>B&H</i>	<i>0</i>	<i>4.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2884	1.2.4.2.5.1	BC2 Installation (MEVE)	SLAC	ED&I	3	5 wks	\$0.00	\$0.00	\$16,800.00	\$16,800.00	\$3,360.00	\$7,056.00	\$27,216.00
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$16,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
2885	1.2.4.2.6	L3 Installation			0	34.05 wks	\$0.00	\$0.00	\$76,232.34	\$76,232.34	\$15,246.47	\$22,869.70	\$114,348.51
2886	1.2.4.2.6.1	L3 Installation (MFPAS)	SLAC	B&H	2	23.05 wks	\$0.00	\$0.00	\$46,072.34	\$46,072.34	\$9,214.47	\$13,821.70	\$69,108.51
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	23.05 wks	\$0.00	\$0.00	\$0.00	\$46,072.34	\$0.00	\$0.00	\$0.00
2887	1.2.4.2.6.1	L3 Installation (TME0)	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$4,720.00	\$4,720.00	\$944.00	\$1,416.00	\$7,080.00
		<i>SLAC T&M Crafts - Union Equip. Op.</i>		<i>B&H</i>	0	2 wks	\$0.00	\$0.00	\$0.00	\$4,720.00	\$0.00	\$0.00	\$0.00
2888	1.2.4.2.6.1	L3 Installation (TMIW)	SLAC	B&H	2	4 wks	\$0.00	\$0.00	\$8,640.00	\$8,640.00	\$1,728.00	\$2,592.00	\$12,960.00
		<i>SLAC T&M Crafts - Union Ironwork.</i>		<i>B&H</i>	0	4 wks	\$0.00	\$0.00	\$0.00	\$8,640.00	\$0.00	\$0.00	\$0.00
2889	1.2.4.2.6.1	L3 Installation (MEVE)	SLAC	ED&I	2	5 wks	\$0.00	\$0.00	\$16,800.00	\$16,800.00	\$3,360.00	\$5,040.00	\$25,200.00
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	0	5 wks	\$0.00	\$0.00	\$0.00	\$16,800.00	\$0.00	\$0.00	\$0.00
2890	1.2.4.2.7	DL2 Installation			0	103.26 wks	\$0.00	\$0.00	\$232,970.62	\$232,970.62	\$46,594.12	\$139,782.37	\$419,347.12
2891	1.2.4.2.7.1	DL2 Installation (MFPAS)	SLAC	B&H	4	23.48 wks	\$0.00	\$0.00	\$46,931.82	\$46,931.82	\$9,386.36	\$28,159.09	\$84,477.28
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	23.48 wks	\$0.00	\$0.00	\$0.00	\$46,931.82	\$0.00	\$0.00	\$0.00
2892	1.2.4.2.7.1	DL2 Installation (TME0)	SLAC	B&H	4	16.97 wks	\$0.00	\$0.00	\$40,049.20	\$40,049.20	\$8,009.84	\$24,029.52	\$72,088.56
		<i>SLAC T&M Crafts - Union Equip. Op.</i>		<i>B&H</i>	0	16.97 wks	\$0.00	\$0.00	\$0.00	\$40,049.20	\$0.00	\$0.00	\$0.00
2893	1.2.4.2.7.1	DL2 Installation (TMIW)	SLAC	B&H	4	50.81 wks	\$0.00	\$0.00	\$109,749.60	\$109,749.60	\$21,949.92	\$65,849.76	\$197,549.28
		<i>SLAC T&M Crafts - Union Ironwork.</i>		<i>B&H</i>	0	50.81 wks	\$0.00	\$0.00	\$0.00	\$109,749.60	\$0.00	\$0.00	\$0.00
2894	1.2.4.2.7.1	DL2 Installation (TMPL)	SLAC	B&H	4	6 wks	\$0.00	\$0.00	\$16,080.00	\$16,080.00	\$3,216.00	\$9,648.00	\$28,944.00
		<i>SLAC T&M Crafts - Union Pipefitter</i>		<i>B&H</i>	0	6 wks	\$0.00	\$0.00	\$0.00	\$16,080.00	\$0.00	\$0.00	\$0.00
2895	1.2.4.2.7.1	DL2 Installation (MEVE)	SLAC	ED&I	4	6 wks	\$0.00	\$0.00	\$20,160.00	\$20,160.00	\$4,032.00	\$12,096.00	\$36,288.00
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	0	6 wks	\$0.00	\$0.00	\$0.00	\$20,160.00	\$0.00	\$0.00	\$0.00
2896	1.2.4.2.8	Dumpline			0	48.4 wks	\$0.00	\$0.00	\$108,698.24	\$108,698.24	\$21,739.65	\$65,218.94	\$195,656.83
2897	1.2.4.2.8.1	Dumpline (MFPAS)	SLAC	B&H	4	14.8 wks	\$0.00	\$0.00	\$29,582.24	\$29,582.24	\$5,916.45	\$17,749.34	\$53,248.03
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	14.8 wks	\$0.00	\$0.00	\$0.00	\$29,582.24	\$0.00	\$0.00	\$0.00
2898	1.2.4.2.8.1	Dumpline (TME0)	SLAC	B&H	4	6.9 wks	\$0.00	\$0.00	\$16,284.00	\$16,284.00	\$3,256.80	\$9,770.40	\$29,311.20
		<i>SLAC T&M Crafts - Union Equip. Op.</i>		<i>B&H</i>	0	6.9 wks	\$0.00	\$0.00	\$0.00	\$16,284.00	\$0.00	\$0.00	\$0.00
2899	1.2.4.2.8.1	DL2 Installation (TMIW)	SLAC	B&H	4	20.7 wks	\$0.00	\$0.00	\$44,712.00	\$44,712.00	\$8,942.40	\$26,827.20	\$80,481.60
		<i>SLAC T&M Crafts - Union Ironwork.</i>		<i>B&H</i>	0	20.7 wks	\$0.00	\$0.00	\$0.00	\$44,712.00	\$0.00	\$0.00	\$0.00
2900	1.2.4.2.8.1	DL2 Installation (TMPL)	SLAC	B&H	4	3 wks	\$0.00	\$0.00	\$8,040.00	\$8,040.00	\$1,608.00	\$4,824.00	\$14,472.00
		<i>SLAC T&M Crafts - Union Pipefitter</i>		<i>B&H</i>	0	3 wks	\$0.00	\$0.00	\$0.00	\$8,040.00	\$0.00	\$0.00	\$0.00
2901	1.2.4.2.8.1	Dumpline (MEVE)	SLAC	ED&I	4	3 wks	\$0.00	\$0.00	\$10,080.00	\$10,080.00	\$2,016.00	\$6,048.00	\$18,144.00
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	0	3 wks	\$0.00	\$0.00	\$0.00	\$10,080.00	\$0.00	\$0.00	\$0.00
2902	1.2.4.2.9	Power Conversion	SLAC		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2903	1.2.4.2.10	Controls			0	71.41 wks	\$0.00	\$0.00	\$189,395.20	\$189,395.20	\$37,879.04	\$81,651.26	\$308,925.50
2904	1.2.4.2.10.1	Computers and Crates (6)	SLAC		0	2.5 wks	\$0.00	\$0.00	\$6,800.00	\$6,800.00	\$1,360.00	\$2,856.00	\$11,016.00
2905	1.2.4.2.10.1	Install CAMAC System Cableplant	SLAC	B&H	3	2.5 wks	\$0.00	\$0.00	\$6,800.00	\$6,800.00	\$1,360.00	\$2,856.00	\$11,016.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>2.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2906	1.2.4.2.10.2	TIMING DISTRIBUTION SYSTEM-CAMAC	SLAC		0	28 wks	\$0.00	\$0.00	\$71,320.00	\$71,320.00	\$14,264.00	\$29,954.40	\$115,538.40
2907	1.2.4.2.10.2	Install Timing System Helix Cableplant	SLAC	B&H	3	3 wks	\$0.00	\$0.00	\$8,160.00	\$8,160.00	\$1,632.00	\$3,427.20	\$13,219.20
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2908	1.2.4.2.10.2	Timing Software support	SLAC	ED&I	3	25 wks	\$0.00	\$0.00	\$63,160.00	\$63,160.00	\$12,632.00	\$26,527.20	\$102,319.20
		<i>SLAC Controls: Programmer</i>		<i>ED&I</i>	<i>0</i>	<i>25 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$63,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2909	1.2.4.2.10.3	LCLS VACUUM SYSTEM (2)	SLAC		0	1.6 wks	\$0.00	\$0.00	\$4,352.00	\$4,352.00	\$870.40	\$1,827.84	\$7,050.24
2910	1.2.4.2.10.3	Replace Ion Pump Cables (250')	SLAC	B&H	3	1 wk	\$0.00	\$0.00	\$2,720.00	\$2,720.00	\$544.00	\$1,142.40	\$4,406.40
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,720.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2911	1.2.4.2.10.3	Vacuum Valve Cables (coax) (250')	SLAC	B&H	3	0.6 wks	\$0.00	\$0.00	\$1,632.00	\$1,632.00	\$326.40	\$685.44	\$2,643.84
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,632.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2912	1.2.4.2.10.4	TUNE-UP DUMPS (3)	SLAC		0	1 wk	\$0.00	\$0.00	\$2,720.00	\$2,720.00	\$544.00	\$1,142.40	\$4,406.40
2913	1.2.4.2.10.2.4	Multi-conductor (21C/16GA-CONT&STAT) (2)	SLAC	B&H	3	1 wk	\$0.00	\$0.00	\$2,720.00	\$2,720.00	\$544.00	\$1,142.40	\$4,406.40
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,720.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2914	1.2.4.2.10.5	WIRE SCANNERS (14)	SLAC		0	5.4 wks	\$0.00	\$0.00	\$14,688.00	\$14,688.00	\$2,937.60	\$6,168.96	\$23,794.56
2915	1.2.4.2.10.5	RG58 to PMT 250'	SLAC	B&H	3	2.4 wks	\$0.00	\$0.00	\$6,528.00	\$6,528.00	\$1,305.60	\$2,741.76	\$10,575.36
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>2.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,528.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2916	1.2.4.2.10.5	MULTI-COND (4PR) DATRONIC TO LVDT 250'	SLAC	B&H	3	3 wks	\$0.00	\$0.00	\$8,160.00	\$8,160.00	\$1,632.00	\$3,427.20	\$13,219.20
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2917	1.2.4.2.10.6	BPM's (136)w/ 6 Linac / 2 Special / 2 Dump	SLAC		0	4.3 wks	\$0.00	\$0.00	\$11,696.00	\$11,696.00	\$2,339.20	\$7,017.60	\$21,052.80
2918	1.2.4.2.10.6.6	RG223 (4 ea BPM, timed and matched, 200')	SLAC	B&H	4	4.3 wks	\$0.00	\$0.00	\$11,696.00	\$11,696.00	\$2,339.20	\$7,017.60	\$21,052.80
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>4.3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,696.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2919	1.2.4.2.10.7	TOROIDS (7) w/ BC's and Dump	SLAC		0	0.9 wks	\$0.00	\$0.00	\$2,448.00	\$2,448.00	\$489.60	\$1,028.16	\$3,965.76
2920	1.2.4.2.10.7	RG22, TCM to TCM PreAmp (2)	SLAC	B&H	3	0.3 wks	\$0.00	\$0.00	\$816.00	\$816.00	\$163.20	\$342.72	\$1,321.92
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>0.3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$816.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2921	1.2.4.2.10.7	2/c power, TCM to TCM PreAmp (1 each toroid)	SLAC	B&H	3	0.3 wks	\$0.00	\$0.00	\$816.00	\$816.00	\$163.20	\$342.72	\$1,321.92
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>0.3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$816.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2922	1.2.4.2.10.7	RG58, TCM to TCM PreAmp (1 each toroid))	SLAC	B&H	3	0.3 wks	\$0.00	\$0.00	\$816.00	\$816.00	\$163.20	\$342.72	\$1,321.92
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>0.3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$816.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2923	1.2.4.2.10.8	PROFILE MONITORS (4) w/ 1 Dump	SLAC		0	3 wks	\$0.00	\$0.00	\$8,160.00	\$8,160.00	\$1,632.00	\$3,427.20	\$13,219.20
2924	1.2.4.2.10.8	RG59, coax-video (4)	SLAC	B&H	3	1 wk	\$0.00	\$0.00	\$2,720.00	\$2,720.00	\$544.00	\$1,142.40	\$4,406.40
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,720.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2925	1.2.4.2.10.8	Multi-conductor (21C/16GA-CONT&STAT) (4)	SLAC	B&H	3	1 wk	\$0.00	\$0.00	\$2,720.00	\$2,720.00	\$544.00	\$1,142.40	\$4,406.40
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,720.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2926	1.2.4.2.10.8	Multi-conductor (3C/16GA-AC POWER) (4)	SLAC	B&H	3	1 wk	\$0.00	\$0.00	\$2,720.00	\$2,720.00	\$544.00	\$1,142.40	\$4,406.40

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,720.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2927	1.2.4.2.10.9	E-O Diagnostic	SLAC		0	0.11 wks	\$0.00	\$0.00	\$299.20	\$299.20	\$59.84	\$125.66	\$484.70
2928	1.2.4.2.10.9	Multi-Cond. cable (4PR)	SLAC	B&H	3	0.11 wks	\$0.00	\$0.00	\$299.20	\$299.20	\$59.84	\$125.66	\$484.70
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>0.11 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$299.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2929	1.2.4.2.10.10	RF Controls	SLAC		0	0.6 wks	\$0.00	\$0.00	\$1,632.00	\$1,632.00	\$326.40	\$685.44	\$2,643.84
2930	2.4.2.10.10.1	Sector 24	SLAC		0	0.3 wks	\$0.00	\$0.00	\$816.00	\$816.00	\$163.20	\$342.72	\$1,321.92
2931	2.4.2.10.10.1	Cblpnt Phase & Amp., BLM, TC's.(Gun & L0+L1+X-Band)	SLAC	B&H	3	0.3 wks	\$0.00	\$0.00	\$816.00	\$816.00	\$163.20	\$342.72	\$1,321.92
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>0.3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$816.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2932	2.4.2.10.10.2	Sector 30	SLAC		0	0.3 wks	\$0.00	\$0.00	\$816.00	\$816.00	\$163.20	\$342.72	\$1,321.92
2933	2.4.2.10.10.2	Cblpnt Phase & Amp., BLM, TC's.(Gun & L0+L1+X-Band)	SLAC	B&H	3	0.3 wks	\$0.00	\$0.00	\$816.00	\$816.00	\$163.20	\$342.72	\$1,321.92
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>0.3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$816.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2934	1.2.4.2.10.11	FFTB Controls Electronic Systems Removal	SLAC		0	24 wks	\$0.00	\$0.00	\$65,280.00	\$65,280.00	\$13,056.00	\$27,417.60	\$105,753.60
2935	1.2.4.2.10.11	Remove abandoned Cableplant (B406 to Housing)	SLAC	B&H	3	24 wks	\$0.00	\$0.00	\$65,280.00	\$65,280.00	\$13,056.00	\$27,417.60	\$105,753.60
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>24 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$65,280.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2936	1.2.4.2.11	RF Installation	SLAC		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2937	1.2.4.2.12	Protection Systems Installation	SLAC		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2938	1.2.4.3	Undulator Installation			0	663.75 wks	\$0.00	\$0.00	\$1,409,689.50	\$1,409,689.50	\$281,937.90	\$592,069.59	\$2,283,696.99
2939	1.2.4.3.1	Undulator Installation	SLAC	B&H	3	408.75 wks	\$0.00	\$0.00	\$817,009.50	\$817,009.50	\$163,401.90	\$343,143.99	\$1,323,555.39
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>408.75 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$817,009.50</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2940	1.2.4.3.2	Instrumentation Installation	SLAC	B&H	3	65.4 wks	\$0.00	\$0.00	\$154,344.00	\$154,344.00	\$30,868.80	\$64,824.48	\$250,037.28
		<i>SLAC T&M Crafts - Union Equip. Op.</i>		<i>B&H</i>	<i>0</i>	<i>65.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$154,344.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2941	1.2.4.3.3	Power Conversion	SLAC	B&H	3	165.6 wks	\$0.00	\$0.00	\$357,696.00	\$357,696.00	\$71,539.20	\$150,232.32	\$579,467.52
		<i>SLAC T&M Crafts - Union Ironwork.</i>		<i>B&H</i>	<i>0</i>	<i>165.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$357,696.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2942	1.2.4.3.4	Controls	SLAC	ED&I	3	24 wks	\$0.00	\$0.00	\$80,640.00	\$80,640.00	\$16,128.00	\$33,868.80	\$130,636.80
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>24 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$80,640.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2943	1.2.4.4	LCLS Inj. & Linac Align.			0	157.4 wks	\$0.00	\$271,000.00	\$358,872.00	\$629,872.00	\$88,034.40	\$179,476.60	\$897,383.00
2944	1.2.4.4.1	M&S			0	0 wks	\$0.00	\$271,000.00	\$0.00	\$271,000.00	\$16,260.00	\$71,815.00	\$359,075.00
2945	1.2.4.4.1.1	Hydrostatic level (inj. tunnel to Linac)	SLAC	M&S	2	0 wks	\$0.00	\$50,000.00	\$0.00	\$50,000.00	\$3,000.00	\$13,250.00	\$66,250.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>50,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$50,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2946	1.2.4.4.1.2	Laser Tracker	SLAC	M&S	2	0 wks	\$0.00	\$180,000.00	\$0.00	\$180,000.00	\$10,800.00	\$47,700.00	\$238,500.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>180,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$180,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2947	1.2.4.4.1.3	Floor Monuments	SLAC	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$1,325.00	\$6,625.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2948	1.2.4.4.1.4	Wall Monuments	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
2949	1.2.4.4.1.5	Fiducial bushings	SLAC	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$1,060.00	\$5,300.00
		SLAC M&S Total		M&S	0	4,000	\$0.00	\$0.00	\$0.00	\$4,000.00	\$0.00	\$0.00	\$0.00
2950	1.2.4.4.1.6	Special Fixtures	SLAC	M&S	2	0 wks	\$0.00	\$30,000.00	\$0.00	\$30,000.00	\$1,800.00	\$7,950.00	\$39,750.00
		SLAC M&S Total		M&S	0	30,000	\$0.00	\$0.00	\$0.00	\$30,000.00	\$0.00	\$0.00	\$0.00
2951	1.2.4.4.2	Fiducialization			0	20.8 wks	\$0.00	\$0.00	\$47,424.00	\$47,424.00	\$9,484.80	\$14,227.20	\$71,136.00
2952	1.2.4.4.2.1	Injector quads	SLAC	B&H	2	3 wks	\$0.00	\$0.00	\$6,840.00	\$6,840.00	\$1,368.00	\$2,052.00	\$10,260.00
		SLAC Metrology:Eng. & Surveyors		B&H	0	3 wks	\$0.00	\$0.00	\$0.00	\$6,840.00	\$0.00	\$0.00	\$0.00
2953	1.2.4.4.2.2	Injector dipoles	SLAC	B&H	2	0.6 wks	\$0.00	\$0.00	\$1,368.00	\$1,368.00	\$273.60	\$410.40	\$2,052.00
		SLAC Metrology:Eng. & Surveyors		B&H	0	0.6 wks	\$0.00	\$0.00	\$0.00	\$1,368.00	\$0.00	\$0.00	\$0.00
2954	1.2.4.4.2.3	Injector diagnostics	SLAC	B&H	2	1.6 wks	\$0.00	\$0.00	\$3,648.00	\$3,648.00	\$729.60	\$1,094.40	\$5,472.00
		SLAC Metrology:Eng. & Surveyors		B&H	0	1.6 wks	\$0.00	\$0.00	\$0.00	\$3,648.00	\$0.00	\$0.00	\$0.00
2955	1.2.4.4.2.4	Gun	SLAC	B&H	2	0.4 wks	\$0.00	\$0.00	\$912.00	\$912.00	\$182.40	\$273.60	\$1,368.00
		SLAC Metrology:Eng. & Surveyors		B&H	0	0.4 wks	\$0.00	\$0.00	\$0.00	\$912.00	\$0.00	\$0.00	\$0.00
2956	1.2.4.4.2.5	Linac quads	SLAC	B&H	2	7.2 wks	\$0.00	\$0.00	\$16,416.00	\$16,416.00	\$3,283.20	\$4,924.80	\$24,624.00
		SLAC Metrology:Eng. & Surveyors		B&H	0	7.2 wks	\$0.00	\$0.00	\$0.00	\$16,416.00	\$0.00	\$0.00	\$0.00
2957	1.2.4.4.2.6	Llinac dipoles	SLAC	B&H	2	3.6 wks	\$0.00	\$0.00	\$8,208.00	\$8,208.00	\$1,641.60	\$2,462.40	\$12,312.00
		SLAC Metrology:Eng. & Surveyors		B&H	0	3.6 wks	\$0.00	\$0.00	\$0.00	\$8,208.00	\$0.00	\$0.00	\$0.00
2958	1.2.4.4.2.7	Linac diagnostics	SLAC	B&H	2	4.4 wks	\$0.00	\$0.00	\$10,032.00	\$10,032.00	\$2,006.40	\$3,009.60	\$15,048.00
		SLAC Metrology:Eng. & Surveyors		B&H	0	4.4 wks	\$0.00	\$0.00	\$0.00	\$10,032.00	\$0.00	\$0.00	\$0.00
2959	1.2.4.4.3	Accelerator Sections			0	84 wks	\$0.00	\$0.00	\$191,520.00	\$191,520.00	\$38,304.00	\$57,456.00	\$287,280.00
2960	1.2.4.4.3.1	Straightness	SLAC	B&H	2	60 wks	\$0.00	\$0.00	\$136,800.00	\$136,800.00	\$27,360.00	\$41,040.00	\$205,200.00
		SLAC Metrology:Eng. & Surveyors		B&H	0	60 wks	\$0.00	\$0.00	\$0.00	\$136,800.00	\$0.00	\$0.00	\$0.00
2961	1.2.4.4.3.2	Alignment	SLAC	B&H	2	24 wks	\$0.00	\$0.00	\$54,720.00	\$54,720.00	\$10,944.00	\$16,416.00	\$82,080.00
		SLAC Metrology:Eng. & Surveyors		B&H	0	24 wks	\$0.00	\$0.00	\$0.00	\$54,720.00	\$0.00	\$0.00	\$0.00
2962	1.2.4.4.4	Injector Tunnel Sector 20			0	12.6 wks	\$0.00	\$0.00	\$28,728.00	\$28,728.00	\$5,745.60	\$8,618.40	\$43,092.00
2963	1.2.4.4.4.1	Data Processing (Engineer)	SLAC	B&H	2	0.6 wks	\$0.00	\$0.00	\$1,368.00	\$1,368.00	\$273.60	\$410.40	\$2,052.00
		SLAC Metrology:Eng. & Surveyors		B&H	0	0.6 wks	\$0.00	\$0.00	\$0.00	\$1,368.00	\$0.00	\$0.00	\$0.00
2964	1.2.4.4.4.2	Networking/Inj Tunnel	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$4,560.00	\$4,560.00	\$912.00	\$1,368.00	\$6,840.00
		SLAC Metrology:Eng. & Surveyors		B&H	0	2 wks	\$0.00	\$0.00	\$0.00	\$4,560.00	\$0.00	\$0.00	\$0.00
2965	1.2.4.4.4.3	Networking/Sec. 20-8,20-9,21-1	SLAC	B&H	2	4 wks	\$0.00	\$0.00	\$9,120.00	\$9,120.00	\$1,824.00	\$2,736.00	\$13,680.00
		SLAC Metrology:Eng. & Surveyors		B&H	0	4 wks	\$0.00	\$0.00	\$0.00	\$9,120.00	\$0.00	\$0.00	\$0.00
2966	1.2.4.4.4.4	Lay-out	SLAC	B&H	2	1.2 wks	\$0.00	\$0.00	\$2,736.00	\$2,736.00	\$547.20	\$820.80	\$4,104.00
		SLAC Metrology:Eng. & Surveyors		B&H	0	1.2 wks	\$0.00	\$0.00	\$0.00	\$2,736.00	\$0.00	\$0.00	\$0.00
2967	1.2.4.4.4.5	Align supports	SLAC	B&H	2	1.2 wks	\$0.00	\$0.00	\$2,736.00	\$2,736.00	\$547.20	\$820.80	\$4,104.00
		SLAC Metrology:Eng. & Surveyors		B&H	0	1.2 wks	\$0.00	\$0.00	\$0.00	\$2,736.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
2968	1.2.4.4.4.6	Pre-align components	SLAC	B&H	2	1.6 wks	\$0.00	\$0.00	\$3,648.00	\$3,648.00	\$729.60	\$1,094.40	\$5,472.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>1.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,648.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2969	1.2.4.4.4.7	Fine alignment	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$4,560.00	\$4,560.00	\$912.00	\$1,368.00	\$6,840.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,560.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2970	1.2.4.4.5	Linac (20-9 through 28-7)			0	40 wks	\$0.00	\$0.00	\$91,200.00	\$91,200.00	\$18,240.00	\$27,360.00	\$136,800.00
2971	1.2.4.4.5.1	Data Processing (Engineer)	SLAC	B&H	2	12 wks	\$0.00	\$0.00	\$27,360.00	\$27,360.00	\$5,472.00	\$8,208.00	\$41,040.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>12 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$27,360.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2972	1.2.4.4.5.2	Networking : L2	SLAC	B&H	2	8 wks	\$0.00	\$0.00	\$18,240.00	\$18,240.00	\$3,648.00	\$5,472.00	\$27,360.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$18,240.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2973	1.2.4.4.5.3	Pre-align components	SLAC	B&H	2	10 wks	\$0.00	\$0.00	\$22,800.00	\$22,800.00	\$4,560.00	\$6,840.00	\$34,200.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>10 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$22,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2974	1.2.4.4.5.4	Fine alignment (map and moves)	SLAC	B&H	2	10 wks	\$0.00	\$0.00	\$22,800.00	\$22,800.00	\$4,560.00	\$6,840.00	\$34,200.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>10 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$22,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2975	1.2.4.5	Linac Smoothing			0	200 wks	\$0.00	\$117,000.00	\$456,000.00	\$573,000.00	\$98,220.00	\$167,805.00	\$839,025.00
2976	1.2.4.5.1	Equipment			0	0 wks	\$0.00	\$117,000.00	\$0.00	\$117,000.00	\$7,020.00	\$31,005.00	\$155,025.00
2977	1.2.4.5.1.1	Hamar Laser	SLAC	M&S	2	0 wks	\$0.00	\$12,000.00	\$0.00	\$12,000.00	\$720.00	\$3,180.00	\$15,900.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>12,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2978	1.2.4.5.1.2	Hamar Laser Targets	SLAC	M&S	2	0 wks	\$0.00	\$22,000.00	\$0.00	\$22,000.00	\$1,320.00	\$5,830.00	\$29,150.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>22,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$22,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2979	1.2.4.5.1.3	Digital Interface	SLAC	M&S	2	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$600.00	\$2,650.00	\$13,250.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2980	1.2.4.5.1.4	Data Logger	SLAC	M&S	2	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$600.00	\$2,650.00	\$13,250.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2981	1.2.4.5.1.5	Laser/Target Stand	SLAC	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$1,590.00	\$7,950.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2982	1.2.4.5.1.6	Laser/Target Mount	SLAC	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$795.00	\$3,975.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2983	1.2.4.5.1.7	Offset Arm	SLAC	M&S	2	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$600.00	\$2,650.00	\$13,250.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2984	1.2.4.5.1.8	Stand w. lockable wheels	SLAC	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$1,590.00	\$7,950.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2985	1.2.4.5.1.9	Zeiss Automatic Level	SLAC	M&S	2	0 wks	\$0.00	\$30,000.00	\$0.00	\$30,000.00	\$1,800.00	\$7,950.00	\$39,750.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>30,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$30,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2986	1.2.4.5.1.10	Zeiss Industrial Scales	SLAC	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$1,060.00	\$5,300.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
2987	1.2.4.5.1.11	Minirod	SLAC	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$1,060.00	\$5,300.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2988	1.2.4.5.2	Smooth Linac	SLAC		0	200 wks	\$0.00	\$0.00	\$456,000.00	\$456,000.00	\$91,200.00	\$136,800.00	\$684,000.00
2989	1.2.4.5.2.1	Horizontal Survey 1st It.	SLAC	B&H	2	26 wks	\$0.00	\$0.00	\$59,280.00	\$59,280.00	\$11,856.00	\$17,784.00	\$88,920.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>26 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$59,280.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2990	1.2.4.5.2.2	Vertical Survey 1st It.	SLAC	B&H	2	17.5 wks	\$0.00	\$0.00	\$39,900.00	\$39,900.00	\$7,980.00	\$11,970.00	\$59,850.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>17.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$39,900.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2991	1.2.4.5.2.3	Analyse Data	SLAC	B&H	2	8.75 wks	\$0.00	\$0.00	\$19,950.00	\$19,950.00	\$3,990.00	\$5,985.00	\$29,925.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>8.75 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$19,950.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2992	1.2.4.5.2.4	Apply Position Corrections	SLAC	B&H	2	26 wks	\$0.00	\$0.00	\$59,280.00	\$59,280.00	\$11,856.00	\$17,784.00	\$88,920.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>26 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$59,280.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2993	1.2.4.5.2.5	Horizontal Survey 2nd It.	SLAC	B&H	2	26 wks	\$0.00	\$0.00	\$59,280.00	\$59,280.00	\$11,856.00	\$17,784.00	\$88,920.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>26 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$59,280.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2994	1.2.4.5.2.6	Vertical Survey 2nd It.	SLAC	B&H	2	17.5 wks	\$0.00	\$0.00	\$39,900.00	\$39,900.00	\$7,980.00	\$11,970.00	\$59,850.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>17.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$39,900.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2995	1.2.4.5.2.7	Analyse Data	SLAC	B&H	2	8.75 wks	\$0.00	\$0.00	\$19,950.00	\$19,950.00	\$3,990.00	\$5,985.00	\$29,925.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>8.75 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$19,950.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2996	1.2.4.5.2.8	Apply Position Corrections	SLAC	B&H	2	26 wks	\$0.00	\$0.00	\$59,280.00	\$59,280.00	\$11,856.00	\$17,784.00	\$88,920.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>26 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$59,280.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2997	1.2.4.5.2.9	Horizontal Check Survey	SLAC	B&H	2	26 wks	\$0.00	\$0.00	\$59,280.00	\$59,280.00	\$11,856.00	\$17,784.00	\$88,920.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>26 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$59,280.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2998	1.2.4.5.2.10	Vertical Check Survey	SLAC	B&H	2	17.5 wks	\$0.00	\$0.00	\$39,900.00	\$39,900.00	\$7,980.00	\$11,970.00	\$59,850.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>17.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$39,900.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
2999	1.2.4.6	Undulator Alignment			0	200.6 wks	\$0.00	\$998,000.00	\$457,368.00	\$1,455,368.00	\$151,353.60	\$401,680.40	\$2,008,402.00
3000	1.2.4.6.1	M&S			0	0 wks	\$0.00	\$448,000.00	\$0.00	\$448,000.00	\$26,880.00	\$118,720.00	\$593,600.00
3001	1.2.4.6.1.1	Hydrostatic Level System, 80 sensors	SLAC	M&S	2	0 wks	\$0.00	\$240,000.00	\$0.00	\$240,000.00	\$14,400.00	\$63,600.00	\$318,000.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>240,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$240,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3002	1.2.4.6.1.2	Stretched wire system, 10 sensors	SLAC	M&S	2	0 wks	\$0.00	\$200,000.00	\$0.00	\$200,000.00	\$12,000.00	\$53,000.00	\$265,000.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>200,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$200,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3003	1.2.4.6.1.3	Reference Points	SLAC	M&S	2	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$480.00	\$2,120.00	\$10,600.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3004	1.2.4.6.2	Network			0	85.2 wks	\$0.00	\$0.00	\$194,256.00	\$194,256.00	\$38,851.20	\$58,276.80	\$291,384.00
3005	1.2.4.6.2.1	Installation	SLAC	B&H	2	1.2 wks	\$0.00	\$0.00	\$2,736.00	\$2,736.00	\$547.20	\$820.80	\$4,104.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>1.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,736.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3006	1.2.4.6.2.2	Measurements	SLAC	B&H	2	6 wks	\$0.00	\$0.00	\$13,680.00	\$13,680.00	\$2,736.00	\$4,104.00	\$20,520.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC Metrology:Eng. & Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,680.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3007	1.2.4.6.2.3	HLS Installation	SLAC	B&H	2	8 wks	\$0.00	\$0.00	\$18,240.00	\$18,240.00	\$3,648.00	\$5,472.00	\$27,360.00
		<i>SLAC Metrology:Eng. & Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$18,240.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3008	1.2.4.6.2.4	HLS Commissioning	SLAC	B&H	2	12 wks	\$0.00	\$0.00	\$27,360.00	\$27,360.00	\$5,472.00	\$8,208.00	\$41,040.00
		<i>SLAC Metrology:Eng. & Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>12 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$27,360.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3009	1.2.4.6.2.5	HLS Testing	SLAC	B&H	2	4 wks	\$0.00	\$0.00	\$9,120.00	\$9,120.00	\$1,824.00	\$2,736.00	\$13,680.00
		<i>SLAC Metrology:Eng. & Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,120.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3010	1.2.4.6.2.6	HLS Measurements	SLAC	B&H	2	8 wks	\$0.00	\$0.00	\$18,240.00	\$18,240.00	\$3,648.00	\$5,472.00	\$27,360.00
		<i>SLAC Metrology:Eng. & Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$18,240.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3011	1.2.4.6.2.7	Stretchwire Installation	SLAC	B&H	2	4 wks	\$0.00	\$0.00	\$9,120.00	\$9,120.00	\$1,824.00	\$2,736.00	\$13,680.00
		<i>SLAC Metrology:Eng. & Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,120.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3012	1.2.4.6.2.8	Stretchwire Commissioning	SLAC	B&H	2	12 wks	\$0.00	\$0.00	\$27,360.00	\$27,360.00	\$5,472.00	\$8,208.00	\$41,040.00
		<i>SLAC Metrology:Eng. & Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>12 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$27,360.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3013	1.2.4.6.2.9	Stretchwire Testing	SLAC	B&H	2	4 wks	\$0.00	\$0.00	\$9,120.00	\$9,120.00	\$1,824.00	\$2,736.00	\$13,680.00
		<i>SLAC Metrology:Eng. & Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,120.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3014	1.2.4.6.2.10	Stretchwire Measurements	SLAC	B&H	2	8 wks	\$0.00	\$0.00	\$18,240.00	\$18,240.00	\$3,648.00	\$5,472.00	\$27,360.00
		<i>SLAC Metrology:Eng. & Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$18,240.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3015	1.2.4.6.2.11	Re-measurement (Laser tracker)	SLAC	B&H	2	6 wks	\$0.00	\$0.00	\$13,680.00	\$13,680.00	\$2,736.00	\$4,104.00	\$20,520.00
		<i>SLAC Metrology:Eng. & Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,680.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3016	1.2.4.6.2.12	Re-measurement (HLS)	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$4,560.00	\$4,560.00	\$912.00	\$1,368.00	\$6,840.00
		<i>SLAC Metrology:Eng. & Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,560.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3017	1.2.4.6.2.13	Re-measurement (Wire)	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$4,560.00	\$4,560.00	\$912.00	\$1,368.00	\$6,840.00
		<i>SLAC Metrology:Eng. & Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,560.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3018	1.2.4.6.2.14	Data Evaluation	SLAC	B&H	2	8 wks	\$0.00	\$0.00	\$18,240.00	\$18,240.00	\$3,648.00	\$5,472.00	\$27,360.00
		<i>SLAC Metrology:Eng. & Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$18,240.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3019	1.2.4.6.3	Layout			0	5 wks	\$0.00	\$0.00	\$11,400.00	\$11,400.00	\$2,280.00	\$3,420.00	\$17,100.00
3020	1.2.4.6.3.1	Computation	SLAC	B&H	2	1 wk	\$0.00	\$0.00	\$2,280.00	\$2,280.00	\$456.00	\$684.00	\$3,420.00
		<i>SLAC Metrology:Eng. & Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,280.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3021	1.2.4.6.3.2	Mark Support bolts on Floor	SLAC	B&H	2	4 wks	\$0.00	\$0.00	\$9,120.00	\$9,120.00	\$1,824.00	\$2,736.00	\$13,680.00
		<i>SLAC Metrology:Eng. & Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,120.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3022	1.2.4.6.4	Pre-Align			0	23.2 wks	\$0.00	\$0.00	\$52,896.00	\$52,896.00	\$10,579.20	\$15,868.80	\$79,344.00
3023	1.2.4.6.4.1	Adjust stut nuts to nominal elevation	SLAC	B&H	2	2.4 wks	\$0.00	\$0.00	\$5,472.00	\$5,472.00	\$1,094.40	\$1,641.60	\$8,208.00
		<i>SLAC Metrology:Eng. & Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>2.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,472.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3024	1.2.4.6.4.2	Pre-align Stands	SLAC	B&H	2	8 wks	\$0.00	\$0.00	\$18,240.00	\$18,240.00	\$3,648.00	\$5,472.00	\$27,360.00
		<i>SLAC Metrology:Eng. & Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$18,240.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
3025	1.2.4.6.4.3	Lab-align components on common supports	SLAC	B&H	2	6.4 wks	\$0.00	\$0.00	\$14,592.00	\$14,592.00	\$2,918.40	\$4,377.60	\$21,888.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>6.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$14,592.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3026	1.2.4.6.4.4	Pre-align undulators	SLAC	B&H	2	3.2 wks	\$0.00	\$0.00	\$7,296.00	\$7,296.00	\$1,459.20	\$2,188.80	\$10,944.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>3.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,296.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3027	1.2.4.6.4.5	Pre-align rafts in tunnel	SLAC	B&H	2	3.2 wks	\$0.00	\$0.00	\$7,296.00	\$7,296.00	\$1,459.20	\$2,188.80	\$10,944.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>3.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,296.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3028	1.2.4.6.5	Align			0	25.4 wks	\$0.00	\$0.00	\$57,912.00	\$57,912.00	\$11,582.40	\$17,373.60	\$86,868.00
3029	1.2.4.6.5.1	Undulators Horiz	SLAC	B&H	2	2.4 wks	\$0.00	\$0.00	\$5,472.00	\$5,472.00	\$1,094.40	\$1,641.60	\$8,208.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>2.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,472.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3030	1.2.4.6.5.2	Undulators Vert	SLAC	B&H	2	6.6 wks	\$0.00	\$0.00	\$15,048.00	\$15,048.00	\$3,009.60	\$4,514.40	\$22,572.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>6.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$15,048.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3031	1.2.4.6.5.3	Survey Quadrupole/ BPM fiducial offsets	SLAC	B&H	2	3.2 wks	\$0.00	\$0.00	\$7,296.00	\$7,296.00	\$1,459.20	\$2,188.80	\$10,944.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>3.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,296.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3032	1.2.4.6.5.4	Survey Quadrupole to undulator fiducial offsets	SLAC	B&H	2	3.2 wks	\$0.00	\$0.00	\$7,296.00	\$7,296.00	\$1,459.20	\$2,188.80	\$10,944.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>3.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,296.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3033	1.2.4.6.5.5	Correctors	SLAC	B&H	2	0.8 wks	\$0.00	\$0.00	\$1,824.00	\$1,824.00	\$364.80	\$547.20	\$2,736.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>0.8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,824.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3034	1.2.4.6.5.6	X-ray diagnostics	SLAC	B&H	2	1.2 wks	\$0.00	\$0.00	\$2,736.00	\$2,736.00	\$547.20	\$820.80	\$4,104.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>1.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,736.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3035	1.2.4.6.5.7	Quality Control	SLAC	B&H	2	8 wks	\$0.00	\$0.00	\$18,240.00	\$18,240.00	\$3,648.00	\$5,472.00	\$27,360.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$18,240.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3036	1.2.4.6.6	Fiducialization M&S			0	0 wks	\$0.00	\$550,000.00	\$0.00	\$550,000.00	\$33,000.00	\$145,750.00	\$728,750.00
3037	1.2.4.6.6.1	Undulator test stand + CCM	SLAC		2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3038	1.2.4.6.6.2	Quad test stand	SLAC	M&S	2	0 wks	\$0.00	\$150,000.00	\$0.00	\$150,000.00	\$9,000.00	\$39,750.00	\$198,750.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>150,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$150,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3039	1.2.4.6.6.3	Climatized lab	SLAC	M&S	2	0 wks	\$0.00	\$200,000.00	\$0.00	\$200,000.00	\$12,000.00	\$53,000.00	\$265,000.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>200,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$200,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3040	1.2.4.6.6.4	BPM test stand	SLAC	M&S	2	0 wks	\$0.00	\$50,000.00	\$0.00	\$50,000.00	\$3,000.00	\$13,250.00	\$66,250.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>50,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$50,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3041	1.2.4.6.6.5	X-ray opdiag test stand	SLAC	M&S	2	0 wks	\$0.00	\$150,000.00	\$0.00	\$150,000.00	\$9,000.00	\$39,750.00	\$198,750.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>150,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$150,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3042	1.2.4.6.7	Fiducialization			0	61.8 wks	\$0.00	\$0.00	\$140,904.00	\$140,904.00	\$28,180.80	\$42,271.20	\$211,356.00
3043	1.2.4.6.5.1	Undulators Mag Meas	SLAC	B&H	2	30 wks	\$0.00	\$0.00	\$68,400.00	\$68,400.00	\$13,680.00	\$20,520.00	\$102,600.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>30 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$68,400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3044	1.2.4.6.5.2	Und Fiduc Measure	SLAC	B&H	2	13 wks	\$0.00	\$0.00	\$29,640.00	\$29,640.00	\$5,928.00	\$8,892.00	\$44,460.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>13 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$29,640.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3045	1.2.4.6.5.3	Und data Eval	SLAC	B&H	2	7.5 wks	\$0.00	\$0.00	\$17,100.00	\$17,100.00	\$3,420.00	\$5,130.00	\$25,650.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>7.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$17,100.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3046	1.2.4.6.5.4	Quads	SLAC	B&H	2	4.6 wks	\$0.00	\$0.00	\$10,488.00	\$10,488.00	\$2,097.60	\$3,146.40	\$15,732.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>4.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,488.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3047	1.2.4.6.5.5	X-ray diagnostics	SLAC	B&H	2	6 wks	\$0.00	\$0.00	\$13,680.00	\$13,680.00	\$2,736.00	\$4,104.00	\$20,520.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,680.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3048	1.2.4.6.5.6	BPMs	SLAC	B&H	2	0.4 wks	\$0.00	\$0.00	\$912.00	\$912.00	\$182.40	\$273.60	\$1,368.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$912.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3049	1.2.4.6.5.7	Correctors	SLAC	B&H	2	0.3 wks	\$0.00	\$0.00	\$684.00	\$684.00	\$136.80	\$205.20	\$1,026.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>0.3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$684.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3050	1.3	Photo Beam Handling and Systems			0	12,142.14 wks	\$7,964,589.56	\$14,144,503.00	\$4,264,255.80	\$26,373,348.36	\$9,132,171.24	\$9,049,919.55	\$44,555,439.15
3051	1.3.1	X-ray transport and diagnostics			0	9,896.79 wks	\$3,889,494.00	\$8,094,702.00	\$2,421,710.24	\$14,405,906.24	\$7,585,654.95	\$4,657,178.00	\$26,648,739.20
3052	1.3.1.1	PED/Management			0	1,646.15 wks	\$3,889,494.00	\$0.00	\$0.00	\$3,889,494.00	\$3,754,752.12	\$1,598,944.95	\$9,243,191.07
3053	1.3.1.1.1	Management and oversight			0	276.6 wks	\$569,232.00	\$0.00	\$0.00	\$569,232.00	\$500,895.36	\$160,519.10	\$1,230,646.46
3054	1.3.1.1.1.1	Management	LLNL		0	276.6 wks	\$497,232.00	\$0.00	\$0.00	\$497,232.00	\$487,287.36	\$147,677.90	\$1,132,197.26
3055	1.3.1.1.1.1	Director	LLNL	ED&I	1	60 wks	\$129,600.00	\$0.00	\$0.00	\$129,600.00	\$127,008.00	\$38,491.20	\$295,099.20
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>60 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$129,600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3056	1.3.1.1.1.1	Deputy	LLNL	ED&I	1	60 wks	\$129,600.00	\$0.00	\$0.00	\$129,600.00	\$127,008.00	\$38,491.20	\$295,099.20
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>60 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$129,600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3057	1.3.1.1.1.1	Administrator	LLNL	ED&I	1	156.6 wks	\$238,032.00	\$0.00	\$0.00	\$238,032.00	\$233,271.36	\$70,695.50	\$541,998.86
		<i>LLNL Administration</i>		<i>ED&I</i>	<i>0</i>	<i>156.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$238,032.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3058	1.3.1.1.1.2	Travel to SSRL	LLNL		0	0 wks	\$32,000.00	\$0.00	\$0.00	\$32,000.00	\$6,048.00	\$5,707.20	\$43,755.20
3059	1.3.1.1.1.2	Director	LLNL	M&S	1	0 wks	\$8,000.00	\$0.00	\$0.00	\$8,000.00	\$1,512.00	\$1,426.80	\$10,938.80
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3060	1.3.1.1.1.2	Deputy	LLNL	M&S	1	0 wks	\$24,000.00	\$0.00	\$0.00	\$24,000.00	\$4,536.00	\$4,280.40	\$32,816.40
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>24,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$24,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3061	1.3.1.1.1.3	Meetings	LLNL		0	0 wks	\$40,000.00	\$0.00	\$0.00	\$40,000.00	\$7,560.00	\$7,134.00	\$54,694.00
3062	1.3.1.1.1.3	SSRL	LLNL	M&S	1	0 wks	\$1,000.00	\$0.00	\$0.00	\$1,000.00	\$189.00	\$178.35	\$1,367.35
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3063	1.3.1.1.1.3	ANL	LLNL	M&S	1	0 wks	\$5,000.00	\$0.00	\$0.00	\$5,000.00	\$945.00	\$891.75	\$6,836.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3064	1.3.1.1.1.3	SSRL	LLNL	M&S	1	0 wks	\$3,000.00	\$0.00	\$0.00	\$3,000.00	\$567.00	\$535.05	\$4,102.05
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3065	1.3.1.1.1.3	UCLA	LLNL	M&S	1	0 wks	\$5,000.00	\$0.00	\$0.00	\$5,000.00	\$945.00	\$891.75	\$6,836.75

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3066	1.3.1.1.1.3	SSRL	LLNL	M&S	1	0 wks	\$3,000.00	\$0.00	\$0.00	\$3,000.00	\$567.00	\$535.05	\$4,102.05
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3067	1.3.1.1.1.3	BNL	LLNL	M&S	1	0 wks	\$8,000.00	\$0.00	\$0.00	\$8,000.00	\$1,512.00	\$1,426.80	\$10,938.80
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3068	1.3.1.1.1.3	SSRL	LLNL	M&S	1	0 wks	\$3,000.00	\$0.00	\$0.00	\$3,000.00	\$567.00	\$535.05	\$4,102.05
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3069	1.3.1.1.1.3	LANL	LLNL	M&S	1	0 wks	\$6,000.00	\$0.00	\$0.00	\$6,000.00	\$1,134.00	\$1,070.10	\$8,204.10
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3070	1.3.1.1.1.3	SSRL	LLNL	M&S	1	0 wks	\$3,000.00	\$0.00	\$0.00	\$3,000.00	\$567.00	\$535.05	\$4,102.05
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3071	1.3.1.1.1.3	LLNL	LLNL	M&S	1	0 wks	\$3,000.00	\$0.00	\$0.00	\$3,000.00	\$567.00	\$535.05	\$4,102.05
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3072	1.3.1.1.2	Mechanical and Vacuum			0	307.75 wks	\$711,050.00	\$0.00	\$0.00	\$711,050.00	\$696,829.00	\$242,972.73	\$1,650,851.73
3073	1.3.1.1.2.1	Fast close valve	LLNL		0	5 wks	\$11,560.00	\$0.00	\$0.00	\$11,560.00	\$11,328.80	\$3,433.32	\$26,322.12
3074	1.3.1.1.2.1	Spec	LLNL	ED&I	1	1 wk	\$2,800.00	\$0.00	\$0.00	\$2,800.00	\$2,744.00	\$831.60	\$6,375.60
		<i>LLNL Project Management</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3075	1.3.1.1.2.1	Engr	LLNL	B&H	1	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$617.76	\$4,736.16
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3076	1.3.1.1.2.1	Quotation	LLNL	ED&I	1	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$748.44	\$5,738.04
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3077	1.3.1.1.2.1	Design	LLNL	ED&I	1	2 wks	\$4,160.00	\$0.00	\$0.00	\$4,160.00	\$4,076.80	\$1,235.52	\$9,472.32
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3078	1.3.1.1.2.2	Isolation valve-w/ Be window	LLNL		0	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
3079	1.3.1.1.2.2	Engineering	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3080	1.3.1.1.2.3	Stands	LLNL		0	14 wks	\$30,880.00	\$0.00	\$0.00	\$30,880.00	\$30,262.40	\$19,902.96	\$81,045.36
3081	1.3.1.1.2.3	Spec	LLNL	ED&I	3	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,746.36	\$6,735.96
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3082	1.3.1.1.2.3	Engr & Safety note	LLNL	ED&I	2	3 wks	\$7,560.00	\$0.00	\$0.00	\$7,560.00	\$7,408.80	\$3,742.20	\$18,711.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,560.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3083	1.3.1.1.2.3	Design	LLNL	ED&I	3	10 wks	\$20,800.00	\$0.00	\$0.00	\$20,800.00	\$20,384.00	\$14,414.40	\$55,598.40
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>10 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$20,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3084	1.3.1.1.2.4	Vacuum systems-Elect/controls	LLNL		0	44 wks	\$103,840.00	\$0.00	\$0.00	\$103,840.00	\$101,763.20	\$51,400.80	\$257,004.00
3085	1.3.1.1.2.4	Electr. Engr	LLNL	ED&I	2	12 wks	\$30,240.00	\$0.00	\$0.00	\$30,240.00	\$29,635.20	\$14,968.80	\$74,844.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL Klystron: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>12 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$30,240.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3086	1.3.1.1.2.4	Controls engr	LLNL	B&H	2	16 wks	\$33,920.00	\$0.00	\$0.00	\$33,920.00	\$33,241.60	\$16,790.40	\$83,952.00
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>16 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$33,920.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3087	1.3.1.1.2.4	Electr. Design	LLNL	ED&I	2	16 wks	\$39,680.00	\$0.00	\$0.00	\$39,680.00	\$38,886.40	\$19,641.60	\$98,208.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>16 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$39,680.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3088	1.3.1.1.2.5	Engr oversight/mgt	LLNL		0	243.75 wks	\$562,250.00	\$0.00	\$0.00	\$562,250.00	\$551,005.00	\$166,988.25	\$1,280,243.25
3089	1.3.1.1.2.5	Vac Engr	LLNL	B&H	1	81.25 wks	\$185,250.00	\$0.00	\$0.00	\$185,250.00	\$181,545.00	\$55,019.25	\$421,814.25
		<i>LLNL Mech. Fab: Plating & Cleaning</i>		<i>B&H</i>	<i>0</i>	<i>81.25 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$185,250.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3090	1.3.1.1.2.5	Controls engr	LLNL	B&H	1	81.25 wks	\$172,250.00	\$0.00	\$0.00	\$172,250.00	\$168,805.00	\$51,158.25	\$392,213.25
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>81.25 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$172,250.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3091	1.3.1.1.2.5	Electr. Engr	LLNL	ED&I	1	81.25 wks	\$204,750.00	\$0.00	\$0.00	\$204,750.00	\$200,655.00	\$60,810.75	\$466,215.75
		<i>LLNL Klystron: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>81.25 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$204,750.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3092	1.3.1.1.3	Facility Optics			0	227.6 wks	\$583,220.00	\$0.00	\$0.00	\$583,220.00	\$571,555.60	\$291,975.16	\$1,446,750.76
3093	1.3.1.1.3.1	Fixed Masks	LLNL		0	17.6 wks	\$39,104.00	\$0.00	\$0.00	\$39,104.00	\$38,321.92	\$19,356.48	\$96,782.40
3094	1.3.1.1.3.1	Specification	LLNL	ED&I	2	1 wk	\$2,800.00	\$0.00	\$0.00	\$2,800.00	\$2,744.00	\$1,386.00	\$6,930.00
		<i>LLNL Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3095	1.3.1.1.3.1	engineering	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3096	1.3.1.1.3.1	Quotation	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3097	1.3.1.1.3.1	Hardware unit 1	LLNL	ED&I	2	2 wks	\$5,040.00	\$0.00	\$0.00	\$5,040.00	\$4,939.20	\$2,494.80	\$12,474.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,040.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3098	1.3.1.1.3.1	Characterization unit 1	LLNL	ED&I	2	2 wks	\$3,040.00	\$0.00	\$0.00	\$3,040.00	\$2,979.20	\$1,504.80	\$7,524.00
		<i>LLNL Physicist - Post Doc</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,040.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3099	1.3.1.1.3.1	Test Spec unit 1	LLNL	ED&I	2	1 wk	\$3,440.00	\$0.00	\$0.00	\$3,440.00	\$3,371.20	\$1,702.80	\$8,514.00
		<i>LLNL Precision Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,440.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3100	1.3.1.1.3.1	Beamline test unit 1	LLNL	ED&I	2	1 wk	\$1,520.00	\$0.00	\$0.00	\$1,520.00	\$1,489.60	\$752.40	\$3,762.00
		<i>LLNL Physicist - Post Doc</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3101	1.3.1.1.3.1	Beamline test unit 1	LLNL	ED&I	2	1 wk	\$2,160.00	\$0.00	\$0.00	\$2,160.00	\$2,116.80	\$1,069.20	\$5,346.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3102	1.3.1.1.3.1	Hardware unit 2	LLNL	ED&I	2	2 wks	\$5,040.00	\$0.00	\$0.00	\$5,040.00	\$4,939.20	\$2,494.80	\$12,474.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,040.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3103	1.3.1.1.3.1	Characterization unit 2	LLNL	ED&I	2	1 wk	\$1,520.00	\$0.00	\$0.00	\$1,520.00	\$1,489.60	\$752.40	\$3,762.00
		<i>LLNL Physicist - Post Doc</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3104	1.3.1.1.3.1	Beamline test unit 2	LLNL	ED&I	2	0.4 wks	\$608.00	\$0.00	\$0.00	\$608.00	\$595.84	\$300.96	\$1,504.80

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL Physicist - Post Doc</i>		<i>ED&I</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$608.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3105	1.3.1.1.3.1	Beamline test unit 2	LLNL	ED&I	2	0.4 wks	\$864.00	\$0.00	\$0.00	\$864.00	\$846.72	\$427.68	\$2,138.40
		<i>LLNL Physicist - Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$864.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3106	1.3.1.1.3.1	Hardware unit 3	LLNL	ED&I	2	2 wks	\$5,040.00	\$0.00	\$0.00	\$5,040.00	\$4,939.20	\$2,494.80	\$12,474.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,040.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3107	1.3.1.1.3.1	Characterization unit 3	LLNL	ED&I	2	1 wk	\$1,520.00	\$0.00	\$0.00	\$1,520.00	\$1,489.60	\$752.40	\$3,762.00
		<i>LLNL Physicist - Post Doc</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3108	1.3.1.1.3.1	Beamline test unit 3	LLNL	ED&I	2	0.4 wks	\$608.00	\$0.00	\$0.00	\$608.00	\$595.84	\$300.96	\$1,504.80
		<i>LLNL Physicist - Post Doc</i>		<i>ED&I</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$608.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3109	1.3.1.1.3.1	Beamline test unit 3	LLNL	ED&I	2	0.4 wks	\$864.00	\$0.00	\$0.00	\$864.00	\$846.72	\$427.68	\$2,138.40
		<i>LLNL Physicist - Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$864.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3110	1.3.1.1.3.2	Slits/Collimator A	LLNL		0	29 wks	\$72,980.00	\$0.00	\$0.00	\$72,980.00	\$71,520.40	\$30,054.42	\$174,554.82
3111	1.3.1.1.3.2	Precision motion Engr	LLNL	ED&I	2	3 wks	\$10,320.00	\$0.00	\$0.00	\$10,320.00	\$10,113.60	\$5,108.40	\$25,542.00
		<i>LLNL Precision Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3112	1.3.1.1.3.2	Precision motion Design	LLNL	ED&I	2	8 wks	\$16,640.00	\$0.00	\$0.00	\$16,640.00	\$16,307.20	\$8,236.80	\$41,184.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$16,640.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3113	1.3.1.1.3.2	Jaws Specification	LLNL	ED&I	1	2 wks	\$5,600.00	\$0.00	\$0.00	\$5,600.00	\$5,488.00	\$1,663.20	\$12,751.20
		<i>LLNL Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3114	1.3.1.1.3.2	Jaws engineering	LLNL	ED&I	1	2 wks	\$6,880.00	\$0.00	\$0.00	\$6,880.00	\$6,742.40	\$2,043.36	\$15,665.76
		<i>LLNL Precision Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,880.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3115	1.3.1.1.3.2	Jaws Quotation	LLNL	ED&I	1	0.5 wks	\$1,260.00	\$0.00	\$0.00	\$1,260.00	\$1,234.80	\$374.22	\$2,869.02
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,260.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3116	1.3.1.1.3.2	Controls and Electronics Engr.	LLNL	ED&I	2	3 wks	\$7,680.00	\$0.00	\$0.00	\$7,680.00	\$7,526.40	\$3,801.60	\$19,008.00
		<i>LLNL Controls: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,680.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3117	1.3.1.1.3.2	Controls and Electronics Design	LLNL	B&H	2	2 wks	\$4,240.00	\$0.00	\$0.00	\$4,240.00	\$4,155.20	\$2,098.80	\$10,494.00
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,240.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3118	1.3.1.1.3.2	Test Specification	LLNL	ED&I	2	1 wk	\$3,440.00	\$0.00	\$0.00	\$3,440.00	\$3,371.20	\$1,702.80	\$8,514.00
		<i>LLNL Precision Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,440.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3119	1.3.1.1.3.2	Tank Design	LLNL	ED&I	1	2.5 wks	\$5,200.00	\$0.00	\$0.00	\$5,200.00	\$5,096.00	\$1,544.40	\$11,840.40
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>2.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3120	1.3.1.1.3.2	Vacuum Design	LLNL	ED&I	1	2 wks	\$5,040.00	\$0.00	\$0.00	\$5,040.00	\$4,939.20	\$1,496.88	\$11,476.08
		<i>LLNL AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,040.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3121	1.3.1.1.3.2	Stand Design	LLNL	ED&I	1	2 wks	\$4,160.00	\$0.00	\$0.00	\$4,160.00	\$4,076.80	\$1,235.52	\$9,472.32
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3122	1.3.1.1.3.2	Stand Engr	LLNL	ED&I	1	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$748.44	\$5,738.04

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,520.00	\$0.00	\$0.00	\$0.00
3123	1.3.1.1.3.3	Slits/Collimator B	LLNL		0	10.5 wks	\$26,732.00	\$0.00	\$0.00	\$26,732.00	\$26,197.36	\$10,966.43	\$63,895.79
3124	1.3.1.1.3.3	Precision motion Engr	LLNL	ED&I	2	1 wk	\$3,440.00	\$0.00	\$0.00	\$3,440.00	\$3,371.20	\$1,702.80	\$8,514.00
		<i>LLNL Precision Engineer</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$3,440.00	\$0.00	\$0.00	\$0.00
3125	1.3.1.1.3.3	Precision motion Design	LLNL	ED&I	2	2 wks	\$4,160.00	\$0.00	\$0.00	\$4,160.00	\$4,076.80	\$2,059.20	\$10,296.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	0	2 wks	\$0.00	\$0.00	\$0.00	\$4,160.00	\$0.00	\$0.00	\$0.00
3126	1.3.1.1.3.3	Jaws Specification	LLNL	ED&I	2	1 wk	\$2,800.00	\$0.00	\$0.00	\$2,800.00	\$2,744.00	\$1,386.00	\$6,930.00
		<i>LLNL Physicist - Senior Scientist</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,800.00	\$0.00	\$0.00	\$0.00
3127	1.3.1.1.3.3	Jaws engineering	LLNL	ED&I	1	1 wk	\$3,440.00	\$0.00	\$0.00	\$3,440.00	\$3,371.20	\$1,021.68	\$7,832.88
		<i>LLNL Precision Engineer</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$3,440.00	\$0.00	\$0.00	\$0.00
3128	1.3.1.1.3.3	Jaws Quotation	LLNL	ED&I	1	0.5 wks	\$1,260.00	\$0.00	\$0.00	\$1,260.00	\$1,234.80	\$374.22	\$2,869.02
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	0	0.5 wks	\$0.00	\$0.00	\$0.00	\$1,260.00	\$0.00	\$0.00	\$0.00
3129	1.3.1.1.3.3	Controls and Electronics Engr.	LLNL	ED&I	1	1 wk	\$2,560.00	\$0.00	\$0.00	\$2,560.00	\$2,508.80	\$760.32	\$5,829.12
		<i>LLNL Controls: Engineer</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,560.00	\$0.00	\$0.00	\$0.00
3130	1.3.1.1.3.3	Controls and Electronics Design	LLNL	B&H	2	1 wk	\$2,120.00	\$0.00	\$0.00	\$2,120.00	\$2,077.60	\$1,049.40	\$5,247.00
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,120.00	\$0.00	\$0.00	\$0.00
3131	1.3.1.1.3.3	Test Specification	LLNL	ED&I	2	0.2 wks	\$688.00	\$0.00	\$0.00	\$688.00	\$674.24	\$340.56	\$1,702.80
		<i>LLNL Precision Engineer</i>		<i>ED&I</i>	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$688.00	\$0.00	\$0.00	\$0.00
3132	1.3.1.1.3.3	Tank Design	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,080.00	\$0.00	\$0.00	\$0.00
3133	1.3.1.1.3.3	Vacuum Design	LLNL	ED&I	1	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$748.44	\$5,738.04
		<i>LLNL AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,520.00	\$0.00	\$0.00	\$0.00
3134	1.3.1.1.3.3	Stand Design	LLNL	ED&I	1	0.4 wks	\$832.00	\$0.00	\$0.00	\$832.00	\$815.36	\$247.10	\$1,894.46
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	0	0.4 wks	\$0.00	\$0.00	\$0.00	\$832.00	\$0.00	\$0.00	\$0.00
3135	1.3.1.1.3.3	Stand Engr	LLNL	ED&I	1	0.4 wks	\$832.00	\$0.00	\$0.00	\$832.00	\$815.36	\$247.10	\$1,894.46
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	0	0.4 wks	\$0.00	\$0.00	\$0.00	\$832.00	\$0.00	\$0.00	\$0.00
3136	1.3.1.1.3.4	Gas Attenuator	LLNL		0	101.5 wks	\$233,520.00	\$0.00	\$0.00	\$233,520.00	\$228,849.60	\$129,337.56	\$591,707.16
3137	1.3.1.1.3.4	PDR Theory	LLNL	ED&I	3	8 wks	\$17,280.00	\$0.00	\$0.00	\$17,280.00	\$16,934.40	\$11,975.04	\$46,189.44
		<i>LLNL Physicist - Scientist</i>		<i>ED&I</i>	0	8 wks	\$0.00	\$0.00	\$0.00	\$17,280.00	\$0.00	\$0.00	\$0.00
3138	1.3.1.1.3.4	PDR Engineering EE	LLNL	ED&I	2	2 wks	\$4,960.00	\$0.00	\$0.00	\$4,960.00	\$4,860.80	\$2,455.20	\$12,276.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	0	2 wks	\$0.00	\$0.00	\$0.00	\$4,960.00	\$0.00	\$0.00	\$0.00
3139	1.3.1.1.3.4	PDR Engineering ME	LLNL	ED&I	4	4 wks	\$10,080.00	\$0.00	\$0.00	\$10,080.00	\$9,878.40	\$9,979.20	\$29,937.60
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	0	4 wks	\$0.00	\$0.00	\$0.00	\$10,080.00	\$0.00	\$0.00	\$0.00
3140	1.3.1.1.3.4	PDR Drafting ME	LLNL	ED&I	1	2 wks	\$4,160.00	\$0.00	\$0.00	\$4,160.00	\$4,076.80	\$1,235.52	\$9,472.32
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	0	2 wks	\$0.00	\$0.00	\$0.00	\$4,160.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
3141	1.3.1.1.3.4	PDR Drafting EE	LLNL	ED&I	1	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$617.76	\$4,736.16
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3142	1.3.1.1.3.4	FDR Theory	LLNL	ED&I	3	8 wks	\$17,280.00	\$0.00	\$0.00	\$17,280.00	\$16,934.40	\$11,975.04	\$46,189.44
		<i>LLNL Physicist - Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$17,280.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3143	1.3.1.1.3.4	FDR Engineering EE	LLNL	ED&I	2	2 wks	\$4,960.00	\$0.00	\$0.00	\$4,960.00	\$4,860.80	\$2,455.20	\$12,276.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,960.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3144	1.3.1.1.3.4	FDR Engineering ME	LLNL	ED&I	4	4 wks	\$10,080.00	\$0.00	\$0.00	\$10,080.00	\$9,878.40	\$9,979.20	\$29,937.60
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3145	1.3.1.1.3.4	FDR Drafting ME	LLNL	ED&I	4	2 wks	\$4,160.00	\$0.00	\$0.00	\$4,160.00	\$4,076.80	\$4,118.40	\$12,355.20
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3146	1.3.1.1.3.4	FDR Drafting EE	LLNL	ED&I	1	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$617.76	\$4,736.16
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3147	1.3.1.1.3.4	Safety Note Gas/Pressure Analysis	LLNL	ED&I	2	4 wks	\$10,080.00	\$0.00	\$0.00	\$10,080.00	\$9,878.40	\$4,989.60	\$24,948.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3148	1.3.1.1.3.4	Safety Note Electrical Safety	LLNL	ED&I	2	4 wks	\$9,920.00	\$0.00	\$0.00	\$9,920.00	\$9,721.60	\$4,910.40	\$24,552.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,920.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3149	1.3.1.1.3.4	Safety Note Earthquake	LLNL	ED&I	2	4 wks	\$10,080.00	\$0.00	\$0.00	\$10,080.00	\$9,878.40	\$4,989.60	\$24,948.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3150	1.3.1.1.3.4	Safety Note Documentation	LLNL	ED&I	2	4 wks	\$10,080.00	\$0.00	\$0.00	\$10,080.00	\$9,878.40	\$4,989.60	\$24,948.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3151	1.3.1.1.3.4	Safety Note Drafting	LLNL	ED&I	2	4 wks	\$8,320.00	\$0.00	\$0.00	\$8,320.00	\$8,153.60	\$4,118.40	\$20,592.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3152	1.3.1.1.3.4	Chamber Engineering	LLNL	ED&I	4	3 wks	\$7,560.00	\$0.00	\$0.00	\$7,560.00	\$7,408.80	\$7,484.40	\$22,453.20
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,560.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3153	1.3.1.1.3.4	Chamber Drafting ME	LLNL	ED&I	1	2 wks	\$4,160.00	\$0.00	\$0.00	\$4,160.00	\$4,076.80	\$1,235.52	\$9,472.32
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3154	1.3.1.1.3.4	Chamber Drafting EE	LLNL	ED&I	1	2 wks	\$4,160.00	\$0.00	\$0.00	\$4,160.00	\$4,076.80	\$1,235.52	\$9,472.32
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3155	1.3.1.1.3.4	Venture Engineering	LLNL	ED&I	4	2 wks	\$5,040.00	\$0.00	\$0.00	\$5,040.00	\$4,939.20	\$4,989.60	\$14,968.80
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,040.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3156	1.3.1.1.3.4	Venture Drafting ME	LLNL	ED&I	3	2.5 wks	\$5,200.00	\$0.00	\$0.00	\$5,200.00	\$5,096.00	\$3,603.60	\$13,899.60
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>2.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3157	1.3.1.1.3.4	Turbo pump Engineering	LLNL	ED&I	1	2 wks	\$5,040.00	\$0.00	\$0.00	\$5,040.00	\$4,939.20	\$1,496.88	\$11,476.08
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,040.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3158	1.3.1.1.3.4	Turbo pump Drafting ME	LLNL	ED&I	1	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$617.76	\$4,736.16

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,080.00	\$0.00	\$0.00	\$0.00
3159	1.3.1.1.3.4	Turbo pump Drafting EE	LLNL	ED&I	1	2 wks	\$4,160.00	\$0.00	\$0.00	\$4,160.00	\$4,076.80	\$1,235.52	\$9,472.32
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	0	2 wks	\$0.00	\$0.00	\$0.00	\$4,160.00	\$0.00	\$0.00	\$0.00
3160	1.3.1.1.3.4	Dry Pump Engineering	LLNL	ED&I	1	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$748.44	\$5,738.04
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,520.00	\$0.00	\$0.00	\$0.00
3161	1.3.1.1.3.4	Dry Pump Drafting ME	LLNL	ED&I	1	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$617.76	\$4,736.16
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,080.00	\$0.00	\$0.00	\$0.00
3162	1.3.1.1.3.4	Storage Tank Engineering	LLNL	ED&I	1	3 wks	\$7,560.00	\$0.00	\$0.00	\$7,560.00	\$7,408.80	\$2,245.32	\$17,214.12
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	0	3 wks	\$0.00	\$0.00	\$0.00	\$7,560.00	\$0.00	\$0.00	\$0.00
3163	1.3.1.1.3.4	Storage Tank Drafting ME	LLNL	ED&I	1	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$617.76	\$4,736.16
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,080.00	\$0.00	\$0.00	\$0.00
3164	1.3.1.1.3.4	Gast Pump Engineering	LLNL	ED&I	1	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$748.44	\$5,738.04
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,520.00	\$0.00	\$0.00	\$0.00
3165	1.3.1.1.3.4	Gast Pump Drafting ME	LLNL	ED&I	1	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$617.76	\$4,736.16
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,080.00	\$0.00	\$0.00	\$0.00
3166	1.3.1.1.3.4	Controls Engineering	LLNL	ED&I	2	5 wks	\$12,600.00	\$0.00	\$0.00	\$12,600.00	\$12,348.00	\$6,237.00	\$31,185.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	0	5 wks	\$0.00	\$0.00	\$0.00	\$12,600.00	\$0.00	\$0.00	\$0.00
3167	1.3.1.1.3.4	Controls Drafting ME	LLNL	ED&I	2	3 wks	\$6,240.00	\$0.00	\$0.00	\$6,240.00	\$6,115.20	\$3,088.80	\$15,444.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	0	3 wks	\$0.00	\$0.00	\$0.00	\$6,240.00	\$0.00	\$0.00	\$0.00
3168	1.3.1.1.3.4	Controls Drafting EE	LLNL	ED&I	2	4 wks	\$8,320.00	\$0.00	\$0.00	\$8,320.00	\$8,153.60	\$4,118.40	\$20,592.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	0	4 wks	\$0.00	\$0.00	\$0.00	\$8,320.00	\$0.00	\$0.00	\$0.00
3169	1.3.1.1.3.4	Controls Programming	LLNL	ED&I	2	4 wks	\$8,640.00	\$0.00	\$0.00	\$8,640.00	\$8,467.20	\$4,276.80	\$21,384.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	0	4 wks	\$0.00	\$0.00	\$0.00	\$8,640.00	\$0.00	\$0.00	\$0.00
3170	1.3.1.1.3.4	GreenField Compressor Engineering	LLNL	ED&I	1	3 wks	\$7,560.00	\$0.00	\$0.00	\$7,560.00	\$7,408.80	\$2,245.32	\$17,214.12
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	0	3 wks	\$0.00	\$0.00	\$0.00	\$7,560.00	\$0.00	\$0.00	\$0.00
3171	1.3.1.1.3.4	GreenField Compressor Drafting ME	LLNL	ED&I	1	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$617.76	\$4,736.16
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,080.00	\$0.00	\$0.00	\$0.00
3172	1.3.1.1.3.4	GreenField Compressor Drafting EE	LLNL	ED&I	1	3 wks	\$6,240.00	\$0.00	\$0.00	\$6,240.00	\$6,115.20	\$1,853.28	\$14,208.48
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	0	3 wks	\$0.00	\$0.00	\$0.00	\$6,240.00	\$0.00	\$0.00	\$0.00
3173	1.3.1.1.3.5	Apertures	LLNL		0	9 wks	\$25,048.00	\$0.00	\$0.00	\$25,048.00	\$24,547.04	\$12,398.76	\$61,993.80
3174	1.3.1.1.3.5	Specification	LLNL	ED&I	2	2 wks	\$5,600.00	\$0.00	\$0.00	\$5,600.00	\$5,488.00	\$2,772.00	\$13,860.00
		<i>LLNL Physicist - Senior Scientist</i>		<i>ED&I</i>	0	2 wks	\$0.00	\$0.00	\$0.00	\$5,600.00	\$0.00	\$0.00	\$0.00
3175	1.3.1.1.3.5	engineering	LLNL	ED&I	2	4 wks	\$10,080.00	\$0.00	\$0.00	\$10,080.00	\$9,878.40	\$4,989.60	\$24,948.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	0	4 wks	\$0.00	\$0.00	\$0.00	\$10,080.00	\$0.00	\$0.00	\$0.00
3176	1.3.1.1.3.5	Quotation	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3177	1.3.1.1.3.5	Test Spec unit 1	LLNL	ED&I	2	1 wk	\$3,440.00	\$0.00	\$0.00	\$3,440.00	\$3,371.20	\$1,702.80	\$8,514.00
		<i>LLNL Precision Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,440.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3178	1.3.1.1.3.5	Beamline test unit 1	LLNL	ED&I	2	0.4 wks	\$608.00	\$0.00	\$0.00	\$608.00	\$595.84	\$300.96	\$1,504.80
		<i>LLNL Physicist - Post Doc</i>		<i>ED&I</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$608.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3179	1.3.1.1.3.5	Beamline test unit 1	LLNL	ED&I	2	0.4 wks	\$1,376.00	\$0.00	\$0.00	\$1,376.00	\$1,348.48	\$681.12	\$3,405.60
		<i>LLNL Precision Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,376.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3180	1.3.1.1.3.5	Test Spec unit 2	LLNL	ED&I	2	1 wk	\$3,440.00	\$0.00	\$0.00	\$3,440.00	\$3,371.20	\$1,702.80	\$8,514.00
		<i>LLNL Precision Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,440.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3181	1.3.1.1.3.6	Solid Attenuator	LLNL		0	7 wks	\$20,336.00	\$0.00	\$0.00	\$20,336.00	\$19,929.28	\$10,066.32	\$50,331.60
3182	1.3.1.1.3.6	Unit 1 Specification	LLNL	ED&I	2	2 wks	\$5,600.00	\$0.00	\$0.00	\$5,600.00	\$5,488.00	\$2,772.00	\$13,860.00
		<i>LLNL Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3183	1.3.1.1.3.6	Unit 1 engineering	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3184	1.3.1.1.3.6	Unit 1 Quotation	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3185	1.3.1.1.3.6	Unit 1 Test Spec	LLNL	ED&I	2	1 wk	\$3,440.00	\$0.00	\$0.00	\$3,440.00	\$3,371.20	\$1,702.80	\$8,514.00
		<i>LLNL Precision Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,440.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3186	1.3.1.1.3.6	Unit 2 Test Spec	LLNL	ED&I	2	0.2 wks	\$688.00	\$0.00	\$0.00	\$688.00	\$674.24	\$340.56	\$1,702.80
		<i>LLNL Precision Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$688.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3187	1.3.1.1.3.6	Unit 3 Specification	LLNL	ED&I	2	0.4 wks	\$1,120.00	\$0.00	\$0.00	\$1,120.00	\$1,097.60	\$554.40	\$2,772.00
		<i>LLNL Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,120.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3188	1.3.1.1.3.6	Unit 3 engineering	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3189	1.3.1.1.3.6	Unit 3 Quotation	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3190	1.3.1.1.3.6	Unit 3 Test Spec	LLNL	ED&I	2	1 wk	\$3,440.00	\$0.00	\$0.00	\$3,440.00	\$3,371.20	\$1,702.80	\$8,514.00
		<i>LLNL Precision Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,440.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3191	1.3.1.1.3.7	Low Energy Mirror System	LLNL		0	53 wks	\$165,500.00	\$0.00	\$0.00	\$165,500.00	\$162,190.00	\$79,795.19	\$407,485.19
3192	1.3.1.1.3.7	Precision motion Engr	LLNL	ED&I	2	12 wks	\$41,280.00	\$0.00	\$0.00	\$41,280.00	\$40,454.40	\$20,433.60	\$102,168.00
		<i>LLNL Precision Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>12 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$41,280.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3193	1.3.1.1.3.7	Precision motion Design	LLNL	ED&I	2	20 wks	\$68,800.00	\$0.00	\$0.00	\$68,800.00	\$67,424.00	\$34,056.00	\$170,280.00
		<i>LLNL Precision Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>20 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$68,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3194	1.3.1.1.3.7	Optic Specification	LLNL	ED&I	2	2 wks	\$5,600.00	\$0.00	\$0.00	\$5,600.00	\$5,488.00	\$2,772.00	\$13,860.00
		<i>LLNL Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
3195	1.3.1.1.3.7	Optic engineering	LLNL	ED&I	2	4 wks	\$13,760.00	\$0.00	\$0.00	\$13,760.00	\$13,484.80	\$6,811.20	\$34,056.00
		<i>LLNL Precision Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,760.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3196	1.3.1.1.3.7	Optic Quotation	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3197	1.3.1.1.3.7	Controls and Electronics Engr.	LLNL	ED&I	2	3 wks	\$7,680.00	\$0.00	\$0.00	\$7,680.00	\$7,526.40	\$3,801.60	\$19,008.00
		<i>LLNL Controls: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,680.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3198	1.3.1.1.3.7	Controls and Electronics Design	LLNL	B&H	2	2 wks	\$4,240.00	\$0.00	\$0.00	\$4,240.00	\$4,155.20	\$2,098.80	\$10,494.00
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,240.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3199	1.3.1.1.3.7	Test Spec	LLNL	ED&I	2	1 wk	\$3,440.00	\$0.00	\$0.00	\$3,440.00	\$3,371.20	\$1,702.80	\$8,514.00
		<i>LLNL Precision Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,440.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3200	1.3.1.1.3.7	Tank Design	LLNL	ED&I	1	2.5 wks	\$5,200.00	\$0.00	\$0.00	\$5,200.00	\$5,096.00	\$1,544.40	\$11,840.40
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>2.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3201	1.3.1.1.3.7	Tank Fabrication	LLNL	ED&I	2	0.1 wks	\$252.00	\$0.00	\$0.00	\$252.00	\$246.96	\$124.74	\$623.70
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.1 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$252.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3202	1.3.1.1.3.7	Vacuum Design	LLNL	ED&I	1	2 wks	\$5,040.00	\$0.00	\$0.00	\$5,040.00	\$4,939.20	\$1,496.88	\$11,476.08
		<i>LLNL AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,040.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3203	1.3.1.1.3.7	Vacuum Pumps	LLNL	ED&I	1	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$149.69	\$1,147.61
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3204	1.3.1.1.3.7	Stand Design	LLNL	ED&I	2	2 wks	\$4,160.00	\$0.00	\$0.00	\$4,160.00	\$4,076.80	\$2,059.20	\$10,296.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3205	1.3.1.1.3.7	Stand Engr	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3206	1.3.1.1.3.7	Stand Fabrication	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3207	1.3.1.1.4	End Station Optics			0	118.3 wks	\$283,316.00	\$0.00	\$0.00	\$283,316.00	\$277,649.68	\$139,505.65	\$700,471.33
3208	1.3.1.1.4.1	KB Mirror System	LLNL		0	77 wks	\$187,160.00	\$0.00	\$0.00	\$187,160.00	\$183,416.80	\$92,644.20	\$463,221.00
3209	1.3.1.1.4.1	Precision Motion Engr	LLNL	ED&I	2	10 wks	\$34,400.00	\$0.00	\$0.00	\$34,400.00	\$33,712.00	\$17,028.00	\$85,140.00
		<i>LLNL Precision Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>10 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$34,400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3210	1.3.1.1.4.1	Precision Motion Design	LLNL	ED&I	2	14 wks	\$29,120.00	\$0.00	\$0.00	\$29,120.00	\$28,537.60	\$14,414.40	\$72,072.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>14 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$29,120.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3211	1.3.1.1.4.1	Optic Specification	LLNL	ED&I	2	5 wks	\$10,800.00	\$0.00	\$0.00	\$10,800.00	\$10,584.00	\$5,346.00	\$26,730.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3212	1.3.1.1.4.1	Optic engineering	LLNL	ED&I	2	4 wks	\$13,760.00	\$0.00	\$0.00	\$13,760.00	\$13,484.80	\$6,811.20	\$34,056.00
		<i>LLNL Precision Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,760.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3213	1.3.1.1.4.1	Optic Quotation	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3214	1.3.1.1.4.1	Optic Hardware	LLNL	ED&I	2	2 wks	\$6,880.00	\$0.00	\$0.00	\$6,880.00	\$6,742.40	\$3,405.60	\$17,028.00
		<i>LLNL Precision Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,880.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3215	1.3.1.1.4.1	Optic Characterization	LLNL	ED&I	2	8 wks	\$12,160.00	\$0.00	\$0.00	\$12,160.00	\$11,916.80	\$6,019.20	\$30,096.00
		<i>LLNL Physicist - Post Doc</i>		<i>ED&I</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3216	1.3.1.1.4.1	Optic Characterization	LLNL	ED&I	2	8 wks	\$27,520.00	\$0.00	\$0.00	\$27,520.00	\$26,969.60	\$13,622.40	\$68,112.00
		<i>LLNL Precision Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$27,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3217	1.3.1.1.4.1	Controls & Elect Engr.	LLNL	ED&I	2	3 wks	\$7,680.00	\$0.00	\$0.00	\$7,680.00	\$7,526.40	\$3,801.60	\$19,008.00
		<i>LLNL Controls: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,680.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3218	1.3.1.1.4.1	Controls & Elect Design	LLNL	B&H	2	2 wks	\$4,240.00	\$0.00	\$0.00	\$4,240.00	\$4,155.20	\$2,098.80	\$10,494.00
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,240.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3219	1.3.1.1.4.1	Test Spec	LLNL	ED&I	2	1 wk	\$3,440.00	\$0.00	\$0.00	\$3,440.00	\$3,371.20	\$1,702.80	\$8,514.00
		<i>LLNL Precision Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,440.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3220	1.3.1.1.4.1	Beamline test	LLNL	ED&I	2	16 wks	\$24,320.00	\$0.00	\$0.00	\$24,320.00	\$23,833.60	\$12,038.40	\$60,192.00
		<i>LLNL Physicist - Post Doc</i>		<i>ED&I</i>	<i>0</i>	<i>16 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$24,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3221	1.3.1.1.4.1	Beamline test	LLNL	ED&I	2	3 wks	\$10,320.00	\$0.00	\$0.00	\$10,320.00	\$10,113.60	\$5,108.40	\$25,542.00
		<i>LLNL Precision Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3222	1.3.1.1.4.2	Optics Tank A2 1	LLNL		0	23 wks	\$53,840.00	\$0.00	\$0.00	\$53,840.00	\$52,763.20	\$23,449.54	\$130,052.74
3223	1.3.1.1.4.2	Motion & Mech Engr	LLNL	ED&I	2	1 wk	\$3,440.00	\$0.00	\$0.00	\$3,440.00	\$3,371.20	\$1,702.80	\$8,514.00
		<i>LLNL Precision Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,440.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3224	1.3.1.1.4.2	Motion & Mech Design	LLNL	ED&I	2	3 wks	\$6,240.00	\$0.00	\$0.00	\$6,240.00	\$6,115.20	\$3,088.80	\$15,444.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,240.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3225	1.3.1.1.4.2	Controls & Elect Engr.	LLNL	ED&I	2	3 wks	\$7,680.00	\$0.00	\$0.00	\$7,680.00	\$7,526.40	\$3,801.60	\$19,008.00
		<i>LLNL Controls: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,680.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3226	1.3.1.1.4.2	Controls & Elect Design	LLNL	B&H	2	2 wks	\$4,240.00	\$0.00	\$0.00	\$4,240.00	\$4,155.20	\$2,098.80	\$10,494.00
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,240.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3227	1.3.1.1.4.2	Test Spec	LLNL	ED&I	2	1 wk	\$3,440.00	\$0.00	\$0.00	\$3,440.00	\$3,371.20	\$1,702.80	\$8,514.00
		<i>LLNL Precision Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,440.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3228	1.3.1.1.4.2	Beamline test	LLNL	ED&I	2	4 wks	\$6,080.00	\$0.00	\$0.00	\$6,080.00	\$5,958.40	\$3,009.60	\$15,048.00
		<i>LLNL Physicist - Post Doc</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3229	1.3.1.1.4.2	Beamline test	LLNL	ED&I	1	1 wk	\$3,440.00	\$0.00	\$0.00	\$3,440.00	\$3,371.20	\$1,021.68	\$7,832.88
		<i>LLNL Precision Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,440.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3230	1.3.1.1.4.2	Tank Design	LLNL	ED&I	2	2.5 wks	\$6,300.00	\$0.00	\$0.00	\$6,300.00	\$6,174.00	\$3,118.50	\$15,592.50
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,300.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3231	1.3.1.1.4.2	Tank Fabrication	LLNL	ED&I	2	0.1 wks	\$252.00	\$0.00	\$0.00	\$252.00	\$246.96	\$124.74	\$623.70

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.1 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$252.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3232	1.3.1.1.4.2	Vacuum Design	LLNL	B&H	1	2 wks	\$4,160.00	\$0.00	\$0.00	\$4,160.00	\$4,076.80	\$1,235.52	\$9,472.32
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3233	1.3.1.1.4.2	Vacuum Pumps	LLNL	ED&I	1	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$149.69	\$1,147.61
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3234	1.3.1.1.4.2	Stand Design	LLNL	ED&I	1	2 wks	\$5,040.00	\$0.00	\$0.00	\$5,040.00	\$4,939.20	\$1,496.88	\$11,476.08
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,040.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3235	1.3.1.1.4.2	Stand Engr	LLNL	ED&I	1	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$748.44	\$5,738.04
		<i>LLNL AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3236	1.3.1.1.4.2	Stand Fabrication	LLNL	ED&I	1	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$149.69	\$1,147.61
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3237	1.3.1.1.4.3	Optics Tank B2 1	LLNL		0	6.1 wks	\$14,932.00	\$0.00	\$0.00	\$14,932.00	\$14,633.36	\$4,434.80	\$34,000.16
3238	1.3.1.1.4.3	Tank Design	LLNL	ED&I	1	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$748.44	\$5,738.04
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3239	1.3.1.1.4.3	Tank Fabrication	LLNL	ED&I	1	0.1 wks	\$252.00	\$0.00	\$0.00	\$252.00	\$246.96	\$74.84	\$573.80
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.1 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$252.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3240	1.3.1.1.4.3	Vacuum Design	LLNL	B&H	1	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$617.76	\$4,736.16
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3241	1.3.1.1.4.3	Vacuum Pumps	LLNL	ED&I	1	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$748.44	\$5,738.04
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3242	1.3.1.1.4.3	Stand Design	LLNL	ED&I	1	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$748.44	\$5,738.04
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3243	1.3.1.1.4.3	Stand Engr	LLNL	ED&I	1	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$748.44	\$5,738.04
		<i>LLNL AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3244	1.3.1.1.4.3	Stand Fabrication	LLNL	ED&I	1	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$748.44	\$5,738.04
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3245	1.3.1.1.4.4	Refractive Lenses	LLNL		0	12.2 wks	\$27,384.00	\$0.00	\$0.00	\$27,384.00	\$26,836.32	\$18,977.11	\$73,197.43
3246	1.3.1.1.4.4	PDR Design and Theory	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3247	1.3.1.1.4.4	PDR Lens Design	LLNL	ED&I	3	0.2 wks	\$432.00	\$0.00	\$0.00	\$432.00	\$423.36	\$299.38	\$1,154.74
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$432.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3248	1.3.1.1.4.4	PDR Lens Testing	LLNL	ED&I	3	0.2 wks	\$432.00	\$0.00	\$0.00	\$432.00	\$423.36	\$299.38	\$1,154.74
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$432.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3249	1.3.1.1.4.4	PDR Diamond Turned Form	LLNL		3	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3250	1.3.1.1.4.4	PDR Press	LLNL		3	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3251	1.3.1.1.4.4	PDR Lens Mount	LLNL		3	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
3252	1.3.1.1.4.4	PDR Lens Fabrication	LLNL		3	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3253	1.3.1.1.4.4	PDR ME Drafing	LLNL	ED&I	3	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,441.44	\$5,559.84
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	0	1 wk	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3254	1.3.1.1.4.4	FDR Lens Design Physics	LLNL	ED&I	3	2 wks	\$4,320.00	\$0.00	\$0.00	\$4,320.00	\$4,233.60	\$2,993.76	\$11,547.36
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	0	2 wks	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3255	1.3.1.1.4.4	FDR Lens Testing Physics	LLNL	ED&I	3	1 wk	\$2,160.00	\$0.00	\$0.00	\$2,160.00	\$2,116.80	\$1,496.88	\$5,773.68
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	0	1 wk	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3256	1.3.1.1.4.4	FDR Lens Testing EE	LLNL	ED&I	3	0.6 wks	\$1,488.00	\$0.00	\$0.00	\$1,488.00	\$1,458.24	\$1,031.18	\$3,977.42
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	0	0.6 wks	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,488.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3257	1.3.1.1.4.4	FDR Lens Testing ME	LLNL	ED&I	3	0.4 wks	\$832.00	\$0.00	\$0.00	\$832.00	\$815.36	\$576.58	\$2,223.94
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	0	0.4 wks	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$832.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3258	1.3.1.1.4.4	FDR Diamond Turned Form	LLNL	ED&I	3	0.6 wks	\$1,512.00	\$0.00	\$0.00	\$1,512.00	\$1,481.76	\$1,047.82	\$4,041.58
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	0	0.6 wks	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,512.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3259	1.3.1.1.4.4	FDR Diamond Turning fixture for form ME	LLNL	ED&I	3	0.6 wks	\$1,512.00	\$0.00	\$0.00	\$1,512.00	\$1,481.76	\$1,047.82	\$4,041.58
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	0	0.6 wks	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,512.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3260	1.3.1.1.4.4	FDR Diamond Turned Form Mount ME	LLNL	ED&I	3	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$349.27	\$1,347.19
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	0	0.2 wks	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3261	1.3.1.1.4.4	FDR Press ME	LLNL	ED&I	3	0.4 wks	\$1,008.00	\$0.00	\$0.00	\$1,008.00	\$987.84	\$698.54	\$2,694.38
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	0	0.4 wks	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,008.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3262	1.3.1.1.4.4	FDR Lens ME	LLNL	ED&I	3	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$349.27	\$1,347.19
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	0	0.2 wks	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3263	1.3.1.1.4.4	FDR Lens Mount ME	LLNL	ED&I	3	0.6 wks	\$1,512.00	\$0.00	\$0.00	\$1,512.00	\$1,481.76	\$1,047.82	\$4,041.58
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	0	0.6 wks	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,512.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3264	1.3.1.1.4.4	FDR Lens Fabrication ME	LLNL	ED&I	3	0.6 wks	\$1,512.00	\$0.00	\$0.00	\$1,512.00	\$1,481.76	\$1,047.82	\$4,041.58
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	0	0.6 wks	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,512.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3265	1.3.1.1.4.4	FDR Lens Assembly ME	LLNL	ED&I	3	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$349.27	\$1,347.19
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	0	0.2 wks	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3266	1.3.1.1.4.4	FDR Diamond Turned Form ME Drafing	LLNL	ED&I	3	0.2 wks	\$416.00	\$0.00	\$0.00	\$416.00	\$407.68	\$288.29	\$1,111.97
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	0	0.2 wks	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$416.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3267	1.3.1.1.4.4	FDR Diamond Turning fixture for form ME Drafing	LLNL	ED&I	3	0.6 wks	\$1,248.00	\$0.00	\$0.00	\$1,248.00	\$1,223.04	\$864.86	\$3,335.90
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	0	0.6 wks	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,248.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3268	1.3.1.1.4.4	FDR Diamond Turned Form Mount ME Drafing	LLNL	ED&I	3	0.4 wks	\$832.00	\$0.00	\$0.00	\$832.00	\$815.36	\$576.58	\$2,223.94
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	0	0.4 wks	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$832.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3269	1.3.1.1.4.4	FDR Press ME Drafing	LLNL	ED&I	3	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,441.44	\$5,559.84
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	0	1 wk	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
3270	1.3.1.1.4.4	FDR Lens ME Drafting	LLNL	ED&I	3	0.2 wks	\$416.00	\$0.00	\$0.00	\$416.00	\$407.68	\$288.29	\$1,111.97
		LLNL Mech Drafting/Design		ED&I	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$416.00	\$0.00	\$0.00	\$0.00
3271	1.3.1.1.4.4	FDR Lens Mount ME Drafting	LLNL	ED&I	3	0.2 wks	\$416.00	\$0.00	\$0.00	\$416.00	\$407.68	\$288.29	\$1,111.97
		LLNL Mech Drafting/Design		ED&I	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$416.00	\$0.00	\$0.00	\$0.00
3272	1.3.1.1.4.4	FDR Lens Fabrication ME Drafting	LLNL	ED&I	3	0.2 wks	\$416.00	\$0.00	\$0.00	\$416.00	\$407.68	\$288.29	\$1,111.97
		LLNL Mech Drafting/Design		ED&I	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$416.00	\$0.00	\$0.00	\$0.00
3273	1.3.1.1.4.4	FDR Lens Assembly ME Drafting	LLNL	ED&I	3	0.6 wks	\$1,248.00	\$0.00	\$0.00	\$1,248.00	\$1,223.04	\$864.86	\$3,335.90
		LLNL Mech Drafting/Design		ED&I	0	0.6 wks	\$0.00	\$0.00	\$0.00	\$1,248.00	\$0.00	\$0.00	\$0.00
3274	1.3.1.1.5	Crystals and Gratings			0	82.7 wks	\$192,684.00	\$0.00	\$0.00	\$192,684.00	\$188,830.32	\$111,986.03	\$493,500.35
3275	1.3.1.1.5.1	Pulse Split and delay	LLNL		0	37.3 wks	\$89,236.00	\$0.00	\$0.00	\$89,236.00	\$87,451.28	\$49,613.65	\$226,300.93
3276	1.3.1.1.5.1	Vacuum engr	LLNL	ED&I	3	2 wks	\$5,040.00	\$0.00	\$0.00	\$5,040.00	\$4,939.20	\$3,492.72	\$13,471.92
		LLNL AD: Mech/Vacuum Engineer		ED&I	0	2 wks	\$0.00	\$0.00	\$0.00	\$5,040.00	\$0.00	\$0.00	\$0.00
3277	1.3.1.1.5.1	Engineering	LLNL	ED&I	2	24 wks	\$60,480.00	\$0.00	\$0.00	\$60,480.00	\$59,270.40	\$29,937.60	\$149,688.00
		LLNL Mechanical Engineer		ED&I	0	24 wks	\$0.00	\$0.00	\$0.00	\$60,480.00	\$0.00	\$0.00	\$0.00
3278	1.3.1.1.5.1	Design	LLNL	ED&I	3	10 wks	\$20,800.00	\$0.00	\$0.00	\$20,800.00	\$20,384.00	\$14,414.40	\$55,598.40
		LLNL Mech Drafting/Design		ED&I	0	10 wks	\$0.00	\$0.00	\$0.00	\$20,800.00	\$0.00	\$0.00	\$0.00
3279	1.3.1.1.5.1	Inspection	LLNL	B&H	1	0.3 wks	\$636.00	\$0.00	\$0.00	\$636.00	\$623.28	\$188.89	\$1,448.17
		LLNL Klystron: Technician		B&H	0	0.3 wks	\$0.00	\$0.00	\$0.00	\$636.00	\$0.00	\$0.00	\$0.00
3280	1.3.1.1.5.1	Alignment	LLNL	B&H	3	1 wk	\$2,280.00	\$0.00	\$0.00	\$2,280.00	\$2,234.40	\$1,580.04	\$6,094.44
		LLNL Metrology:Eng.& Surveyors		B&H	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,280.00	\$0.00	\$0.00	\$0.00
3281	1.3.1.1.5.2	Crystal Monochromator	LLNL		0	45.4 wks	\$103,448.00	\$0.00	\$0.00	\$103,448.00	\$101,379.04	\$62,372.38	\$267,199.42
3282	1.3.1.1.5.2	Engineering	LLNL	ED&I	2	18 wks	\$45,360.00	\$0.00	\$0.00	\$45,360.00	\$44,452.80	\$22,453.20	\$112,266.00
		LLNL Mechanical Engineer		ED&I	0	18 wks	\$0.00	\$0.00	\$0.00	\$45,360.00	\$0.00	\$0.00	\$0.00
3283	1.3.1.1.5.2	Design	LLNL	ED&I	3	24 wks	\$49,920.00	\$0.00	\$0.00	\$49,920.00	\$48,921.60	\$34,594.56	\$133,436.16
		LLNL Mech Drafting/Design		ED&I	0	24 wks	\$0.00	\$0.00	\$0.00	\$49,920.00	\$0.00	\$0.00	\$0.00
3284	1.3.1.1.5.2	Inspection	LLNL	B&H	1	0.4 wks	\$848.00	\$0.00	\$0.00	\$848.00	\$831.04	\$251.86	\$1,930.90
		LLNL Klystron: Technician		B&H	0	0.4 wks	\$0.00	\$0.00	\$0.00	\$848.00	\$0.00	\$0.00	\$0.00
3285	1.3.1.1.5.2	Alignment planning	LLNL	B&H	3	1 wk	\$2,280.00	\$0.00	\$0.00	\$2,280.00	\$2,234.40	\$1,580.04	\$6,094.44
		LLNL Metrology:Eng.& Surveyors		B&H	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,280.00	\$0.00	\$0.00	\$0.00
3286	1.3.1.1.5.2	Vacuum engineering	LLNL	ED&I	3	2 wks	\$5,040.00	\$0.00	\$0.00	\$5,040.00	\$4,939.20	\$3,492.72	\$13,471.92
		LLNL AD: Mech/Vacuum Engineer		ED&I	0	2 wks	\$0.00	\$0.00	\$0.00	\$5,040.00	\$0.00	\$0.00	\$0.00
3287	1.3.1.1.6	Diagnostics			0	633.2 wks	\$1,549,992.00	\$0.00	\$0.00	\$1,549,992.00	\$1,518,992.16	\$651,986.28	\$3,720,970.44
3288	1.3.1.1.6.1	Modeling and Simulation	LLNL		0	207.9 wks	\$582,120.00	\$0.00	\$0.00	\$582,120.00	\$570,477.60	\$172,889.64	\$1,325,487.24
3289	1.3.1.1.6.1	Ginger Interface Wave Model	LLNL	ED&I	1	4.95 wks	\$13,860.00	\$0.00	\$0.00	\$13,860.00	\$13,582.80	\$4,116.42	\$31,559.22
		LLNL Physicist - Senior Scientist		ED&I	0	4.95 wks	\$0.00	\$0.00	\$0.00	\$13,860.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
3290	1.3.1.1.6.1	FEL Wave Model	LLNL	ED&I	1	4.95 wks	\$13,860.00	\$0.00	\$0.00	\$13,860.00	\$13,582.80	\$4,116.42	\$31,559.22
		LLNL Physicist - Senior Scientist		ED&I	0	4.95 wks	\$0.00	\$0.00	\$0.00	\$13,860.00	\$0.00	\$0.00	\$0.00
3291	1.3.1.1.6.1	Harmonics Wave Model	LLNL	ED&I	1	4.95 wks	\$13,860.00	\$0.00	\$0.00	\$13,860.00	\$13,582.80	\$4,116.42	\$31,559.22
		LLNL Physicist - Senior Scientist		ED&I	0	4.95 wks	\$0.00	\$0.00	\$0.00	\$13,860.00	\$0.00	\$0.00	\$0.00
3292	1.3.1.1.6.1	Slit Wave Model	LLNL	ED&I	1	4.95 wks	\$13,860.00	\$0.00	\$0.00	\$13,860.00	\$13,582.80	\$4,116.42	\$31,559.22
		LLNL Physicist - Senior Scientist		ED&I	0	4.95 wks	\$0.00	\$0.00	\$0.00	\$13,860.00	\$0.00	\$0.00	\$0.00
3293	1.3.1.1.6.1	Gas Attenuator Wave Model	LLNL	ED&I	1	4.95 wks	\$13,860.00	\$0.00	\$0.00	\$13,860.00	\$13,582.80	\$4,116.42	\$31,559.22
		LLNL Physicist - Senior Scientist		ED&I	0	4.95 wks	\$0.00	\$0.00	\$0.00	\$13,860.00	\$0.00	\$0.00	\$0.00
3294	1.3.1.1.6.1	Wedge Attenuator Wave Model	LLNL	ED&I	1	4.95 wks	\$13,860.00	\$0.00	\$0.00	\$13,860.00	\$13,582.80	\$4,116.42	\$31,559.22
		LLNL Physicist - Senior Scientist		ED&I	0	4.95 wks	\$0.00	\$0.00	\$0.00	\$13,860.00	\$0.00	\$0.00	\$0.00
3295	1.3.1.1.6.1	Mirror Wave Model	LLNL	ED&I	1	4.95 wks	\$13,860.00	\$0.00	\$0.00	\$13,860.00	\$13,582.80	\$4,116.42	\$31,559.22
		LLNL Physicist - Senior Scientist		ED&I	0	4.95 wks	\$0.00	\$0.00	\$0.00	\$13,860.00	\$0.00	\$0.00	\$0.00
3296	1.3.1.1.6.1	Direct Scintillation Imager Wave Model	LLNL	ED&I	1	4.95 wks	\$13,860.00	\$0.00	\$0.00	\$13,860.00	\$13,582.80	\$4,116.42	\$31,559.22
		LLNL Physicist - Senior Scientist		ED&I	0	4.95 wks	\$0.00	\$0.00	\$0.00	\$13,860.00	\$0.00	\$0.00	\$0.00
3297	1.3.1.1.6.1	Scattering Foil Imager Wave Model	LLNL	ED&I	1	4.95 wks	\$13,860.00	\$0.00	\$0.00	\$13,860.00	\$13,582.80	\$4,116.42	\$31,559.22
		LLNL Physicist - Senior Scientist		ED&I	0	4.95 wks	\$0.00	\$0.00	\$0.00	\$13,860.00	\$0.00	\$0.00	\$0.00
3298	1.3.1.1.6.1	Micro Strip Ion Chamber Wave Model	LLNL	ED&I	1	4.95 wks	\$13,860.00	\$0.00	\$0.00	\$13,860.00	\$13,582.80	\$4,116.42	\$31,559.22
		LLNL Physicist - Senior Scientist		ED&I	0	4.95 wks	\$0.00	\$0.00	\$0.00	\$13,860.00	\$0.00	\$0.00	\$0.00
3299	1.3.1.1.6.1	Diagnostics Tanks Wave Model	LLNL	ED&I	1	4.95 wks	\$13,860.00	\$0.00	\$0.00	\$13,860.00	\$13,582.80	\$4,116.42	\$31,559.22
		LLNL Physicist - Senior Scientist		ED&I	0	4.95 wks	\$0.00	\$0.00	\$0.00	\$13,860.00	\$0.00	\$0.00	\$0.00
3300	1.3.1.1.6.1	Calorimeter Wave Model	LLNL	ED&I	1	4.95 wks	\$13,860.00	\$0.00	\$0.00	\$13,860.00	\$13,582.80	\$4,116.42	\$31,559.22
		LLNL Physicist - Senior Scientist		ED&I	0	4.95 wks	\$0.00	\$0.00	\$0.00	\$13,860.00	\$0.00	\$0.00	\$0.00
3301	1.3.1.1.6.1	Pulse Length Wave Model	LLNL	ED&I	1	4.95 wks	\$13,860.00	\$0.00	\$0.00	\$13,860.00	\$13,582.80	\$4,116.42	\$31,559.22
		LLNL Physicist - Senior Scientist		ED&I	0	4.95 wks	\$0.00	\$0.00	\$0.00	\$13,860.00	\$0.00	\$0.00	\$0.00
3302	1.3.1.1.6.1	Spectrometer Wave Model	LLNL	ED&I	1	4.95 wks	\$13,860.00	\$0.00	\$0.00	\$13,860.00	\$13,582.80	\$4,116.42	\$31,559.22
		LLNL Physicist - Senior Scientist		ED&I	0	4.95 wks	\$0.00	\$0.00	\$0.00	\$13,860.00	\$0.00	\$0.00	\$0.00
3303	1.3.1.1.6.1	Transverse coherence Wave Model	LLNL	ED&I	1	4.95 wks	\$13,860.00	\$0.00	\$0.00	\$13,860.00	\$13,582.80	\$4,116.42	\$31,559.22
		LLNL Physicist - Senior Scientist		ED&I	0	4.95 wks	\$0.00	\$0.00	\$0.00	\$13,860.00	\$0.00	\$0.00	\$0.00
3304	1.3.1.1.6.1	Spatial Shape and Centroid Wave Model	LLNL	ED&I	1	4.95 wks	\$13,860.00	\$0.00	\$0.00	\$13,860.00	\$13,582.80	\$4,116.42	\$31,559.22
		LLNL Physicist - Senior Scientist		ED&I	0	4.95 wks	\$0.00	\$0.00	\$0.00	\$13,860.00	\$0.00	\$0.00	\$0.00
3305	1.3.1.1.6.1	Zone Plates Wave Model	LLNL	ED&I	1	4.95 wks	\$13,860.00	\$0.00	\$0.00	\$13,860.00	\$13,582.80	\$4,116.42	\$31,559.22
		LLNL Physicist - Senior Scientist		ED&I	0	4.95 wks	\$0.00	\$0.00	\$0.00	\$13,860.00	\$0.00	\$0.00	\$0.00
3306	1.3.1.1.6.1	Divergence Wave Model	LLNL	ED&I	1	4.95 wks	\$13,860.00	\$0.00	\$0.00	\$13,860.00	\$13,582.80	\$4,116.42	\$31,559.22
		LLNL Physicist - Senior Scientist		ED&I	0	4.95 wks	\$0.00	\$0.00	\$0.00	\$13,860.00	\$0.00	\$0.00	\$0.00
3307	1.3.1.1.6.1	KB Mirrors Wave Model	LLNL	ED&I	1	4.95 wks	\$13,860.00	\$0.00	\$0.00	\$13,860.00	\$13,582.80	\$4,116.42	\$31,559.22

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>4.95 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,860.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3308	1.3.1.1.6.1	Divergence Wave Model	LLNL	ED&I	1	4.95 wks	\$13,860.00	\$0.00	\$0.00	\$13,860.00	\$13,582.80	\$4,116.42	\$31,559.22
		<i>LLNL Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>4.95 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,860.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3309	1.3.1.1.6.1	Monochrometer Wave Model	LLNL	ED&I	1	4.95 wks	\$13,860.00	\$0.00	\$0.00	\$13,860.00	\$13,582.80	\$4,116.42	\$31,559.22
		<i>LLNL Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>4.95 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,860.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3310	1.3.1.1.6.1	Spontaneous Monte Carlo	LLNL	ED&I	1	4.95 wks	\$13,860.00	\$0.00	\$0.00	\$13,860.00	\$13,582.80	\$4,116.42	\$31,559.22
		<i>LLNL Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>4.95 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,860.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3311	1.3.1.1.6.1	FEL Monte Carlo	LLNL	ED&I	1	4.95 wks	\$13,860.00	\$0.00	\$0.00	\$13,860.00	\$13,582.80	\$4,116.42	\$31,559.22
		<i>LLNL Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>4.95 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,860.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3312	1.3.1.1.6.1	Harmonics Monte Carlo	LLNL	ED&I	1	4.95 wks	\$13,860.00	\$0.00	\$0.00	\$13,860.00	\$13,582.80	\$4,116.42	\$31,559.22
		<i>LLNL Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>4.95 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,860.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3313	1.3.1.1.6.1	Slit Monte Carlo	LLNL	ED&I	1	4.95 wks	\$13,860.00	\$0.00	\$0.00	\$13,860.00	\$13,582.80	\$4,116.42	\$31,559.22
		<i>LLNL Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>4.95 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,860.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3314	1.3.1.1.6.1	Gas Attenuator Monte Carlo	LLNL	ED&I	1	4.95 wks	\$13,860.00	\$0.00	\$0.00	\$13,860.00	\$13,582.80	\$4,116.42	\$31,559.22
		<i>LLNL Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>4.95 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,860.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3315	1.3.1.1.6.1	Wedge Attenuator Monte Carlo	LLNL	ED&I	1	4.95 wks	\$13,860.00	\$0.00	\$0.00	\$13,860.00	\$13,582.80	\$4,116.42	\$31,559.22
		<i>LLNL Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>4.95 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,860.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3316	1.3.1.1.6.1	Mirror Monte Carlo	LLNL	ED&I	1	4.95 wks	\$13,860.00	\$0.00	\$0.00	\$13,860.00	\$13,582.80	\$4,116.42	\$31,559.22
		<i>LLNL Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>4.95 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,860.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3317	1.3.1.1.6.1	Direct Scintillation Imager Monte Carlo	LLNL	ED&I	1	4.95 wks	\$13,860.00	\$0.00	\$0.00	\$13,860.00	\$13,582.80	\$4,116.42	\$31,559.22
		<i>LLNL Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>4.95 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,860.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3318	1.3.1.1.6.1	Scattering Foil Imager Monte Carlo	LLNL	ED&I	1	4.95 wks	\$13,860.00	\$0.00	\$0.00	\$13,860.00	\$13,582.80	\$4,116.42	\$31,559.22
		<i>LLNL Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>4.95 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,860.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3319	1.3.1.1.6.1	Micro Strip Ion Chamber Monte Carlo	LLNL	ED&I	1	4.95 wks	\$13,860.00	\$0.00	\$0.00	\$13,860.00	\$13,582.80	\$4,116.42	\$31,559.22
		<i>LLNL Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>4.95 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,860.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3320	1.3.1.1.6.1	Diagnostics Tanks Monte Carlo	LLNL	ED&I	1	4.95 wks	\$13,860.00	\$0.00	\$0.00	\$13,860.00	\$13,582.80	\$4,116.42	\$31,559.22
		<i>LLNL Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>4.95 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,860.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3321	1.3.1.1.6.1	Calorimeter Monte Carlo	LLNL	ED&I	1	4.95 wks	\$13,860.00	\$0.00	\$0.00	\$13,860.00	\$13,582.80	\$4,116.42	\$31,559.22
		<i>LLNL Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>4.95 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,860.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3322	1.3.1.1.6.1	Pulse Length Monte Carlo	LLNL	ED&I	1	4.95 wks	\$13,860.00	\$0.00	\$0.00	\$13,860.00	\$13,582.80	\$4,116.42	\$31,559.22
		<i>LLNL Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>4.95 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,860.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3323	1.3.1.1.6.1	Spectrometer Monte Carlo	LLNL	ED&I	1	4.95 wks	\$13,860.00	\$0.00	\$0.00	\$13,860.00	\$13,582.80	\$4,116.42	\$31,559.22
		<i>LLNL Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>4.95 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,860.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3324	1.3.1.1.6.1	Transverse coherence Monte Carlo	LLNL	ED&I	1	4.95 wks	\$13,860.00	\$0.00	\$0.00	\$13,860.00	\$13,582.80	\$4,116.42	\$31,559.22
		<i>LLNL Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>4.95 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,860.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
3325	1.3.1.1.6.1	Spatial Shape and Centroid Monte Carlo	LLNL	ED&I	1	4.95 wks	\$13,860.00	\$0.00	\$0.00	\$13,860.00	\$13,582.80	\$4,116.42	\$31,559.22
		<i>LLNL Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>4.95 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,860.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3326	1.3.1.1.6.1	Zone Plates Monte Carlo	LLNL	ED&I	1	4.95 wks	\$13,860.00	\$0.00	\$0.00	\$13,860.00	\$13,582.80	\$4,116.42	\$31,559.22
		<i>LLNL Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>4.95 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,860.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3327	1.3.1.1.6.1	Divergence Monte Carlo	LLNL	ED&I	1	4.95 wks	\$13,860.00	\$0.00	\$0.00	\$13,860.00	\$13,582.80	\$4,116.42	\$31,559.22
		<i>LLNL Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>4.95 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,860.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3328	1.3.1.1.6.1	KB Mirrors Monte Carlo	LLNL	ED&I	1	4.95 wks	\$13,860.00	\$0.00	\$0.00	\$13,860.00	\$13,582.80	\$4,116.42	\$31,559.22
		<i>LLNL Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>4.95 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,860.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3329	1.3.1.1.6.1	Divergence Monte Carlo	LLNL	ED&I	1	4.95 wks	\$13,860.00	\$0.00	\$0.00	\$13,860.00	\$13,582.80	\$4,116.42	\$31,559.22
		<i>LLNL Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>4.95 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,860.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3330	1.3.1.1.6.1	Monochrometer Monte Carlo	LLNL	ED&I	1	4.95 wks	\$13,860.00	\$0.00	\$0.00	\$13,860.00	\$13,582.80	\$4,116.42	\$31,559.22
		<i>LLNL Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>4.95 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,860.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3331	1.3.1.1.6.2	Direct Scintillator Imager	LLNL		0	49 wks	\$115,072.00	\$0.00	\$0.00	\$115,072.00	\$112,770.56	\$56,960.64	\$284,803.20
3332	1.3.1.1.6.2	PDR Scintillator and light levels	LLNL	ED&I	2	1 wk	\$2,800.00	\$0.00	\$0.00	\$2,800.00	\$2,744.00	\$1,386.00	\$6,930.00
		<i>LLNL Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3333	1.3.1.1.6.2	PDR Optical Design	LLNL	ED&I	2	0.6 wks	\$1,680.00	\$0.00	\$0.00	\$1,680.00	\$1,646.40	\$831.60	\$4,158.00
		<i>LLNL Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,680.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3334	1.3.1.1.6.2	PDR Motion requirements	LLNL	ED&I	2	0.4 wks	\$1,120.00	\$0.00	\$0.00	\$1,120.00	\$1,097.60	\$554.40	\$2,772.00
		<i>LLNL Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,120.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3335	1.3.1.1.6.2	PDR CCD system EE	LLNL	ED&I	2	1 wk	\$2,480.00	\$0.00	\$0.00	\$2,480.00	\$2,430.40	\$1,227.60	\$6,138.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,480.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3336	1.3.1.1.6.2	PDR TE Cooling / Chiller EE	LLNL	ED&I	2	1 wk	\$2,480.00	\$0.00	\$0.00	\$2,480.00	\$2,430.40	\$1,227.60	\$6,138.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,480.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3337	1.3.1.1.6.2	PDR Optical Specification EE	LLNL	ED&I	2	1 wk	\$2,480.00	\$0.00	\$0.00	\$2,480.00	\$2,430.40	\$1,227.60	\$6,138.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,480.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3338	1.3.1.1.6.2	PDR Readout / Data Acquisition EE	LLNL	ED&I	2	1 wk	\$2,480.00	\$0.00	\$0.00	\$2,480.00	\$2,430.40	\$1,227.60	\$6,138.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,480.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3339	1.3.1.1.6.2	PDR Motors EE	LLNL	ED&I	2	1 wk	\$2,480.00	\$0.00	\$0.00	\$2,480.00	\$2,430.40	\$1,227.60	\$6,138.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,480.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3340	1.3.1.1.6.2	PDR Drafting EE	LLNL	ED&I	2	2 wks	\$4,160.00	\$0.00	\$0.00	\$4,160.00	\$4,076.80	\$2,059.20	\$10,296.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3341	1.3.1.1.6.2	PDR Camera Housing ME	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3342	1.3.1.1.6.2	PDR Objective/CCD ME	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
3343	1.3.1.1.6.2	PDR Scintillator Objective ME	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3344	1.3.1.1.6.2	PDR Base Plate ME	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3345	1.3.1.1.6.2	PDR ME Drafting	LLNL	ED&I	2	2 wks	\$4,160.00	\$0.00	\$0.00	\$4,160.00	\$4,076.80	\$2,059.20	\$10,296.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3346	1.3.1.1.6.2	FDR Design and Theory	LLNL	ED&I	2	1 wk	\$2,160.00	\$0.00	\$0.00	\$2,160.00	\$2,116.80	\$1,069.20	\$5,346.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3347	1.3.1.1.6.2	FDR Scintillating Crystal EE	LLNL	ED&I	2	2 wks	\$4,960.00	\$0.00	\$0.00	\$4,960.00	\$4,860.80	\$2,455.20	\$12,276.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,960.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3348	1.3.1.1.6.2	FDR Prism EE	LLNL	ED&I	2	1 wk	\$2,480.00	\$0.00	\$0.00	\$2,480.00	\$2,430.40	\$1,227.60	\$6,138.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,480.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3349	1.3.1.1.6.2	FDR Microscope objective EE	LLNL	ED&I	2	1 wk	\$2,480.00	\$0.00	\$0.00	\$2,480.00	\$2,430.40	\$1,227.60	\$6,138.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,480.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3350	1.3.1.1.6.2	FDR Microchannel plate EE	LLNL	ED&I	2	1 wk	\$2,480.00	\$0.00	\$0.00	\$2,480.00	\$2,430.40	\$1,227.60	\$6,138.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,480.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3351	1.3.1.1.6.2	FDR 120 Hz CCD EE	LLNL	ED&I	2	3 wks	\$7,440.00	\$0.00	\$0.00	\$7,440.00	\$7,291.20	\$3,682.80	\$18,414.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,440.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3352	1.3.1.1.6.2	FDR TE Cooler EE	LLNL	ED&I	2	1 wk	\$2,480.00	\$0.00	\$0.00	\$2,480.00	\$2,430.40	\$1,227.60	\$6,138.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,480.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3353	1.3.1.1.6.2	FDR CCD Analog board EE	LLNL	ED&I	2	1 wk	\$2,480.00	\$0.00	\$0.00	\$2,480.00	\$2,430.40	\$1,227.60	\$6,138.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,480.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3354	1.3.1.1.6.2	FDR Camera Digital board EE	LLNL	ED&I	2	1 wk	\$2,480.00	\$0.00	\$0.00	\$2,480.00	\$2,430.40	\$1,227.60	\$6,138.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,480.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3355	1.3.1.1.6.2	FDR Microchannel plate HV board EE	LLNL	ED&I	2	1 wk	\$2,480.00	\$0.00	\$0.00	\$2,480.00	\$2,430.40	\$1,227.60	\$6,138.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,480.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3356	1.3.1.1.6.2	FDR Camera Interface board EE	LLNL	ED&I	2	1 wk	\$2,480.00	\$0.00	\$0.00	\$2,480.00	\$2,430.40	\$1,227.60	\$6,138.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,480.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3357	1.3.1.1.6.2	FDR Computer Interface board EE	LLNL	ED&I	2	1 wk	\$2,480.00	\$0.00	\$0.00	\$2,480.00	\$2,430.40	\$1,227.60	\$6,138.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,480.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3358	1.3.1.1.6.2	FDR System Drafting EE	LLNL	ED&I	2	0.6 wks	\$1,248.00	\$0.00	\$0.00	\$1,248.00	\$1,223.04	\$617.76	\$3,088.80
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,248.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3359	1.3.1.1.6.2	FDR CCD Analog board Drafting EE	LLNL	ED&I	2	0.6 wks	\$1,248.00	\$0.00	\$0.00	\$1,248.00	\$1,223.04	\$617.76	\$3,088.80
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,248.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3360	1.3.1.1.6.2	FDR Camera Digital board Drafting EE	LLNL	ED&I	2	0.6 wks	\$1,248.00	\$0.00	\$0.00	\$1,248.00	\$1,223.04	\$617.76	\$3,088.80

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,248.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3361	1.3.1.1.6.2	FDR Prism mount ME	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3362	1.3.1.1.6.2	FDR Prism to objective motorized stage ME	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3363	1.3.1.1.6.2	FDR Microscope objective ME	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3364	1.3.1.1.6.2	FDR Objective to CCD manual stage ME	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3365	1.3.1.1.6.2	FDR Microchannel plate I/F ME	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3366	1.3.1.1.6.2	FDR TE Cooler ME	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3367	1.3.1.1.6.2	FDR CCD Analog board ME	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3368	1.3.1.1.6.2	FDR Camera Digital board ME	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3369	1.3.1.1.6.2	FDR Microchannel plate HV board ME	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3370	1.3.1.1.6.2	FDR Camera Interface board ME	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3371	1.3.1.1.6.2	FDR Computer Interface board ME	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3372	1.3.1.1.6.2	FDR Camera vacuum housing ME	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3373	1.3.1.1.6.2	FDR Cold finger ME	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3374	1.3.1.1.6.2	FDR Chiller ME	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3375	1.3.1.1.6.2	FDR System ME Drafting	LLNL	ED&I	2	0.6 wks	\$1,248.00	\$0.00	\$0.00	\$1,248.00	\$1,223.04	\$617.76	\$3,088.80
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,248.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3376	1.3.1.1.6.2	FDR Prism to objective motorized stage ME Drafting	LLNL	ED&I	2	0.2 wks	\$416.00	\$0.00	\$0.00	\$416.00	\$407.68	\$205.92	\$1,029.60
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$416.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3377	1.3.1.1.6.2	FDR Objective to CCD manual stage ME Drafting	LLNL	ED&I	2	0.2 wks	\$416.00	\$0.00	\$0.00	\$416.00	\$407.68	\$205.92	\$1,029.60
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$416.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
3378	1.3.1.1.6.2	FDR Camera vaccum housing ME Drafting	LLNL	ED&I	2	0.2 wks	\$416.00	\$0.00	\$0.00	\$416.00	\$407.68	\$205.92	\$1,029.60
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$416.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3379	1.3.1.1.6.2	FDR Cold finger ME Drafting	LLNL	ED&I	2	0.2 wks	\$416.00	\$0.00	\$0.00	\$416.00	\$407.68	\$205.92	\$1,029.60
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$416.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3380	1.3.1.1.6.2	Computer Documentation & drafting	LLNL	ED&I	2	1 wk	\$2,160.00	\$0.00	\$0.00	\$2,160.00	\$2,116.80	\$1,069.20	\$5,346.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3381	1.3.1.1.6.2	Computer Interface Programming	LLNL	ED&I	2	6 wks	\$12,960.00	\$0.00	\$0.00	\$12,960.00	\$12,700.80	\$6,415.20	\$32,076.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,960.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3382	1.3.1.1.6.2	Image Analysis	LLNL	ED&I	2	6 wks	\$12,960.00	\$0.00	\$0.00	\$12,960.00	\$12,700.80	\$6,415.20	\$32,076.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,960.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3383	1.3.1.1.6.3	Scattering Foil Imager	LLNL		0	23.4 wks	\$39,200.00	\$0.00	\$0.00	\$39,200.00	\$38,416.00	\$19,404.00	\$97,020.00
3384	1.3.1.1.6.3	PDR Reflectivity and Thickness Design and Theory	LLNL	ED&I	2	1 wk	\$2,160.00	\$0.00	\$0.00	\$2,160.00	\$2,116.80	\$1,069.20	\$5,346.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3385	1.3.1.1.6.3	PDR Motion requirements Design and Theory	LLNL	ED&I	2	0.4 wks	\$864.00	\$0.00	\$0.00	\$864.00	\$846.72	\$427.68	\$2,138.40
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$864.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3386	1.3.1.1.6.3	PDR Motors	LLNL	ED&I	2	0.2 wks	\$496.00	\$0.00	\$0.00	\$496.00	\$486.08	\$245.52	\$1,227.60
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$496.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3387	1.3.1.1.6.3	PDR Motor Controller EE	LLNL	ED&I	2	0.2 wks	\$496.00	\$0.00	\$0.00	\$496.00	\$486.08	\$245.52	\$1,227.60
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$496.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3388	1.3.1.1.6.3	PDR Motor Computer I/F EE	LLNL	ED&I	2	0.2 wks	\$496.00	\$0.00	\$0.00	\$496.00	\$486.08	\$245.52	\$1,227.60
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$496.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3389	1.3.1.1.6.3	PDR Electrical Hardware EE	LLNL	ED&I	2	0.2 wks	\$496.00	\$0.00	\$0.00	\$496.00	\$486.08	\$245.52	\$1,227.60
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$496.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3390	1.3.1.1.6.3	PDR Drafting EE	LLNL	ED&I	2	0.2 wks	\$416.00	\$0.00	\$0.00	\$416.00	\$407.68	\$205.92	\$1,029.60
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$416.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3391	1.3.1.1.6.3	PDR Be foil ME	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3392	1.3.1.1.6.3	PDR Be foil mount ME	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3393	1.3.1.1.6.3	PDR Mirror mount ME	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3394	1.3.1.1.6.3	PDR Mirror motorized rotation stage ME	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3395	1.3.1.1.6.3	PDR Base plate ME	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
3396	1.3.1.1.6.3	PDR Camera Base Plate ME	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3397	1.3.1.1.6.3	PDR Camera motorized horizontal stage ME	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3398	1.3.1.1.6.3	PDR Camera motorized verticle stage ME	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3399	1.3.1.1.6.3	PDR Mechanical Hardware ME	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3400	1.3.1.1.6.3	PDR ME Drafing	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3401	1.3.1.1.6.3	FDR Reflectivity and Thickness Design and Theory	LLNL	ED&I	2	1 wk	\$2,160.00	\$0.00	\$0.00	\$2,160.00	\$2,116.80	\$1,069.20	\$5,346.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3402	1.3.1.1.6.3	FDR Motion requirements Design and Theory	LLNL	ED&I	2	0.4 wks	\$864.00	\$0.00	\$0.00	\$864.00	\$846.72	\$427.68	\$2,138.40
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$864.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3403	1.3.1.1.6.3	FDR Motors EE	LLNL	ED&I	2	0.2 wks	\$496.00	\$0.00	\$0.00	\$496.00	\$486.08	\$245.52	\$1,227.60
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$496.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3404	1.3.1.1.6.3	FDR Motor Controller EE	LLNL	ED&I	2	0.2 wks	\$496.00	\$0.00	\$0.00	\$496.00	\$486.08	\$245.52	\$1,227.60
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$496.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3405	1.3.1.1.6.3	FDR Motor Computer I/F EE	LLNL	ED&I	2	0.2 wks	\$496.00	\$0.00	\$0.00	\$496.00	\$486.08	\$245.52	\$1,227.60
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$496.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3406	1.3.1.1.6.3	FDR Electrical Hardware EE	LLNL	ED&I	2	0.2 wks	\$496.00	\$0.00	\$0.00	\$496.00	\$486.08	\$245.52	\$1,227.60
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$496.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3407	1.3.1.1.6.3	FDR Drafting EE	LLNL	ED&I	2	0.2 wks	\$416.00	\$0.00	\$0.00	\$416.00	\$407.68	\$205.92	\$1,029.60
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$416.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3408	1.3.1.1.6.3	FDR Be foil ME	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3409	1.3.1.1.6.3	FDR Be foil mount ME	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3410	1.3.1.1.6.3	FDR Mirror mount ME	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3411	1.3.1.1.6.3	FDR Mirror motorized rotation stage ME	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3412	1.3.1.1.6.3	FDR Base plate ME	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3413	1.3.1.1.6.3	FDR Camera Base Plate ME	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3414	1.3.1.1.6.3	FDR Camera motorized horizontal stage ME	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3415	1.3.1.1.6.3	FDR Camera motorized verticle stage ME	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3416	1.3.1.1.6.3	FDR Mechanical Hardware ME	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3417	1.3.1.1.6.3	FDR ME Drafting	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3418	1.3.1.1.6.3	Computer Documentation & drafting	LLNL	ED&I	2	1 wk	\$2,160.00	\$0.00	\$0.00	\$2,160.00	\$2,116.80	\$1,069.20	\$5,346.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3419	1.3.1.1.6.3	Computer Interface Programming	LLNL	ED&I	2	6 wks	\$12,960.00	\$0.00	\$0.00	\$12,960.00	\$12,700.80	\$6,415.20	\$32,076.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,960.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3420	1.3.1.1.6.3	Image Analysis	LLNL		2	6 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>Micro Strip Ion Chamber</i>			<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3421	1.3.1.1.6.4	Micro Strip Ion Chamber	LLNL		0	65.8 wks	\$152,520.00	\$0.00	\$0.00	\$152,520.00	\$149,469.60	\$75,497.40	\$377,487.00
3422	1.3.1.1.6.4	PDR Gas Design and Theory	LLNL	ED&I	2	0.4 wks	\$864.00	\$0.00	\$0.00	\$864.00	\$846.72	\$427.68	\$2,138.40
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$864.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3423	1.3.1.1.6.4	PDR Microstrips Design and Theory	LLNL	ED&I	2	0.4 wks	\$864.00	\$0.00	\$0.00	\$864.00	\$846.72	\$427.68	\$2,138.40
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$864.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3424	1.3.1.1.6.4	PDR Differential pumping Design and Theory	LLNL	ED&I	2	0.4 wks	\$864.00	\$0.00	\$0.00	\$864.00	\$846.72	\$427.68	\$2,138.40
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$864.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3425	1.3.1.1.6.4	PDR Focal Plane EE	LLNL	ED&I	2	0.4 wks	\$992.00	\$0.00	\$0.00	\$992.00	\$972.16	\$491.04	\$2,455.20
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$992.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3426	1.3.1.1.6.4	PDR Pulse processing electronics EE	LLNL	ED&I	2	0.2 wks	\$496.00	\$0.00	\$0.00	\$496.00	\$486.08	\$245.52	\$1,227.60
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$496.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3427	1.3.1.1.6.4	PDR Controls EE	LLNL	ED&I	2	0.4 wks	\$992.00	\$0.00	\$0.00	\$992.00	\$972.16	\$491.04	\$2,455.20
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$992.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3428	1.3.1.1.6.4	PDR Drafting EE	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3429	1.3.1.1.6.4	PDR Chamber ME	LLNL	ED&I	2	0.4 wks	\$1,008.00	\$0.00	\$0.00	\$1,008.00	\$987.84	\$498.96	\$2,494.80
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,008.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3430	1.3.1.1.6.4	PDR Differential pumping ME	LLNL	ED&I	2	0.4 wks	\$1,008.00	\$0.00	\$0.00	\$1,008.00	\$987.84	\$498.96	\$2,494.80
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,008.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3431	1.3.1.1.6.4	PDR Stand and Mount ME	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3432	1.3.1.1.6.4	PDR ME Drafing	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3433	1.3.1.1.6.4	FDR Design and Theory	LLNL	ED&I	2	3 wks	\$6,480.00	\$0.00	\$0.00	\$6,480.00	\$6,350.40	\$3,207.60	\$16,038.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,480.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3434	1.3.1.1.6.4	FDR Pumping Controller EE	LLNL	ED&I	2	1 wk	\$2,480.00	\$0.00	\$0.00	\$2,480.00	\$2,430.40	\$1,227.60	\$6,138.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,480.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3435	1.3.1.1.6.4	FDR Anode EE	LLNL	ED&I	2	3 wks	\$7,440.00	\$0.00	\$0.00	\$7,440.00	\$7,291.20	\$3,682.80	\$18,414.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,440.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3436	1.3.1.1.6.4	FDR Cathode EE	LLNL	ED&I	2	2 wks	\$4,960.00	\$0.00	\$0.00	\$4,960.00	\$4,860.80	\$2,455.20	\$12,276.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,960.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3437	1.3.1.1.6.4	FDR Amplifier EE	LLNL	ED&I	2	1 wk	\$2,480.00	\$0.00	\$0.00	\$2,480.00	\$2,430.40	\$1,227.60	\$6,138.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,480.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3438	1.3.1.1.6.4	FDR Data Processing Electronics EE	LLNL	ED&I	2	2 wks	\$4,960.00	\$0.00	\$0.00	\$4,960.00	\$4,860.80	\$2,455.20	\$12,276.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,960.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3439	1.3.1.1.6.4	FDR Safety Note EE	LLNL	ED&I	2	1 wk	\$2,480.00	\$0.00	\$0.00	\$2,480.00	\$2,430.40	\$1,227.60	\$6,138.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,480.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3440	1.3.1.1.6.4	FDR Pumping Controller Drafting EE	LLNL	ED&I	2	0.6 wks	\$1,248.00	\$0.00	\$0.00	\$1,248.00	\$1,223.04	\$617.76	\$3,088.80
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,248.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3441	1.3.1.1.6.4	FDR Anode Drafting EE	LLNL	ED&I	2	0.6 wks	\$1,248.00	\$0.00	\$0.00	\$1,248.00	\$1,223.04	\$617.76	\$3,088.80
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,248.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3442	1.3.1.1.6.4	FDR Cathode Drafting EE	LLNL	ED&I	2	0.6 wks	\$1,248.00	\$0.00	\$0.00	\$1,248.00	\$1,223.04	\$617.76	\$3,088.80
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,248.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3443	1.3.1.1.6.4	FDR Data Processing Electronics Drafting EE	LLNL	ED&I	2	0.6 wks	\$1,248.00	\$0.00	\$0.00	\$1,248.00	\$1,223.04	\$617.76	\$3,088.80
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,248.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3444	1.3.1.1.6.4	FDR System Controller Engineering ME	LLNL	ED&I	2	3 wks	\$7,560.00	\$0.00	\$0.00	\$7,560.00	\$7,408.80	\$3,742.20	\$18,711.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,560.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3445	1.3.1.1.6.4	FDR Manifold ME	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3446	1.3.1.1.6.4	FDR Turbo Pumps Engineering ME	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3447	1.3.1.1.6.4	FDR Dry Pumps ME	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3448	1.3.1.1.6.4	FDR Chamber ME	LLNL	ED&I	2	2 wks	\$5,040.00	\$0.00	\$0.00	\$5,040.00	\$4,939.20	\$2,494.80	\$12,474.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,040.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
3449	1.3.1.1.6.4	FDR Stand ME	LLNL	ED&I	2	2 wks	\$5,040.00	\$0.00	\$0.00	\$5,040.00	\$4,939.20	\$2,494.80	\$12,474.00
		LLNL Mechanical Engineer		ED&I	0	2 wks	\$0.00	\$0.00	\$0.00	\$5,040.00	\$0.00	\$0.00	\$0.00
3450	1.3.1.1.6.4	FDR Venture and Orifice ME	LLNL	ED&I	2	3 wks	\$7,560.00	\$0.00	\$0.00	\$7,560.00	\$7,408.80	\$3,742.20	\$18,711.00
		LLNL Mechanical Engineer		ED&I	0	3 wks	\$0.00	\$0.00	\$0.00	\$7,560.00	\$0.00	\$0.00	\$0.00
3451	1.3.1.1.6.4	FDR FDR Blower ME	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		LLNL Mechanical Engineer		ED&I	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,520.00	\$0.00	\$0.00	\$0.00
3452	1.3.1.1.6.4	FDR Hardware ME	LLNL	ED&I	2	2 wks	\$5,040.00	\$0.00	\$0.00	\$5,040.00	\$4,939.20	\$2,494.80	\$12,474.00
		LLNL Mechanical Engineer		ED&I	0	2 wks	\$0.00	\$0.00	\$0.00	\$5,040.00	\$0.00	\$0.00	\$0.00
3453	1.3.1.1.6.4	FDR Safety Note ME	LLNL	ED&I	2	4 wks	\$10,080.00	\$0.00	\$0.00	\$10,080.00	\$9,878.40	\$4,989.60	\$24,948.00
		LLNL Mechanical Engineer		ED&I	0	4 wks	\$0.00	\$0.00	\$0.00	\$10,080.00	\$0.00	\$0.00	\$0.00
3454	1.3.1.1.6.4	FDR System Controller Engineering ME Drafting	LLNL	ED&I	2	0.6 wks	\$1,248.00	\$0.00	\$0.00	\$1,248.00	\$1,223.04	\$617.76	\$3,088.80
		LLNL Mech Drafting/Design		ED&I	0	0.6 wks	\$0.00	\$0.00	\$0.00	\$1,248.00	\$0.00	\$0.00	\$0.00
3455	1.3.1.1.6.4	FDR Manifold ME Drafting	LLNL	ED&I	2	0.2 wks	\$416.00	\$0.00	\$0.00	\$416.00	\$407.68	\$205.92	\$1,029.60
		LLNL Mech Drafting/Design		ED&I	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$416.00	\$0.00	\$0.00	\$0.00
3456	1.3.1.1.6.4	FDR Turbo Pumps Engineering ME Drafting	LLNL	ED&I	2	0.2 wks	\$416.00	\$0.00	\$0.00	\$416.00	\$407.68	\$205.92	\$1,029.60
		LLNL Mech Drafting/Design		ED&I	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$416.00	\$0.00	\$0.00	\$0.00
3457	1.3.1.1.6.4	FDR Dry Pumps ME Drafting	LLNL	ED&I	2	0.2 wks	\$416.00	\$0.00	\$0.00	\$416.00	\$407.68	\$205.92	\$1,029.60
		LLNL Mech Drafting/Design		ED&I	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$416.00	\$0.00	\$0.00	\$0.00
3458	1.3.1.1.6.4	FDR Chamber ME Drafting	LLNL	ED&I	2	0.6 wks	\$1,248.00	\$0.00	\$0.00	\$1,248.00	\$1,223.04	\$617.76	\$3,088.80
		LLNL Mech Drafting/Design		ED&I	0	0.6 wks	\$0.00	\$0.00	\$0.00	\$1,248.00	\$0.00	\$0.00	\$0.00
3459	1.3.1.1.6.4	FDR Stand ME Drafting	LLNL	ED&I	2	0.6 wks	\$1,248.00	\$0.00	\$0.00	\$1,248.00	\$1,223.04	\$617.76	\$3,088.80
		LLNL Mech Drafting/Design		ED&I	0	0.6 wks	\$0.00	\$0.00	\$0.00	\$1,248.00	\$0.00	\$0.00	\$0.00
3460	1.3.1.1.6.4	FDR Venture and Orifice ME Drafting	LLNL	ED&I	2	0.6 wks	\$1,248.00	\$0.00	\$0.00	\$1,248.00	\$1,223.04	\$617.76	\$3,088.80
		LLNL Mech Drafting/Design		ED&I	0	0.6 wks	\$0.00	\$0.00	\$0.00	\$1,248.00	\$0.00	\$0.00	\$0.00
3461	1.3.1.1.6.4	FDR Blower ME Drafting	LLNL	ED&I	2	0.2 wks	\$416.00	\$0.00	\$0.00	\$416.00	\$407.68	\$205.92	\$1,029.60
		LLNL Mech Drafting/Design		ED&I	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$416.00	\$0.00	\$0.00	\$0.00
3462	1.3.1.1.6.4	FDR Hardware ME Drafting	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		LLNL Mech Drafting/Design		ED&I	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,080.00	\$0.00	\$0.00	\$0.00
3463	1.3.1.1.6.4	Computer Documentation & drafting	LLNL	ED&I	2	1 wk	\$2,160.00	\$0.00	\$0.00	\$2,160.00	\$2,116.80	\$1,069.20	\$5,346.00
		LLNL Physicist -Scientist		ED&I	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,160.00	\$0.00	\$0.00	\$0.00
3464	1.3.1.1.6.4	Computer Interface Programming	LLNL	ED&I	2	8 wks	\$17,280.00	\$0.00	\$0.00	\$17,280.00	\$16,934.40	\$8,553.60	\$42,768.00
		LLNL Physicist -Scientist		ED&I	0	8 wks	\$0.00	\$0.00	\$0.00	\$17,280.00	\$0.00	\$0.00	\$0.00
3465	1.3.1.1.6.4	System Controller Programming	LLNL	ED&I	2	6 wks	\$12,960.00	\$0.00	\$0.00	\$12,960.00	\$12,700.80	\$6,415.20	\$32,076.00
		LLNL Physicist -Scientist		ED&I	0	6 wks	\$0.00	\$0.00	\$0.00	\$12,960.00	\$0.00	\$0.00	\$0.00
3466	1.3.1.1.6.4	Signal Analysis	LLNL	ED&I	2	6 wks	\$12,960.00	\$0.00	\$0.00	\$12,960.00	\$12,700.80	\$6,415.20	\$32,076.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,960.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3467	1.3.1.1.6.5	Gas Mixing System	LLNL		0	35.5 wks	\$81,040.00	\$0.00	\$0.00	\$81,040.00	\$79,419.20	\$40,114.80	\$200,574.00
3468	1.3.1.1.6.5	Safety Note Design and Theory	LLNL	ED&I	2	1 wk	\$2,160.00	\$0.00	\$0.00	\$2,160.00	\$2,116.80	\$1,069.20	\$5,346.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3469	1.3.1.1.6.5	Safety Note Electrical Engineering	LLNL	ED&I	2	1 wk	\$2,160.00	\$0.00	\$0.00	\$2,160.00	\$2,116.80	\$1,069.20	\$5,346.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3470	1.3.1.1.6.5	Safety Note Drafting EE	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3471	1.3.1.1.6.5	Safety Note ME Engineering	LLNL	ED&I	2	4 wks	\$10,080.00	\$0.00	\$0.00	\$10,080.00	\$9,878.40	\$4,989.60	\$24,948.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3472	1.3.1.1.6.5	Safety Note Drafting ME	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3473	1.3.1.1.6.5	Safety Note Documentation	LLNL	ED&I	2	1 wk	\$1,520.00	\$0.00	\$0.00	\$1,520.00	\$1,489.60	\$752.40	\$3,762.00
		<i>LLNL Administration</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3474	1.3.1.1.6.5	Design and Theory	LLNL	ED&I	2	1 wk	\$2,160.00	\$0.00	\$0.00	\$2,160.00	\$2,116.80	\$1,069.20	\$5,346.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3475	1.3.1.1.6.5	System Controller EE	LLNL	ED&I	2	4 wks	\$8,640.00	\$0.00	\$0.00	\$8,640.00	\$8,467.20	\$4,276.80	\$21,384.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,640.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3476	1.3.1.1.6.5	System Power EE	LLNL	ED&I	2	2 wks	\$4,320.00	\$0.00	\$0.00	\$4,320.00	\$4,233.60	\$2,138.40	\$10,692.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3477	1.3.1.1.6.5	System Controller Drafting EE	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3478	1.3.1.1.6.5	System Power Drafting EE	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3479	1.3.1.1.6.5	System engineering ME	LLNL	ED&I	2	3 wks	\$7,560.00	\$0.00	\$0.00	\$7,560.00	\$7,408.80	\$3,742.20	\$18,711.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,560.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3480	1.3.1.1.6.5	System Controller ME	LLNL	ED&I	2	2 wks	\$5,040.00	\$0.00	\$0.00	\$5,040.00	\$4,939.20	\$2,494.80	\$12,474.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,040.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3481	1.3.1.1.6.5	Engineering Bottle Manifold ME	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3482	1.3.1.1.6.5	Engineering Transfer Manifold ME	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3483	1.3.1.1.6.5	Storage Tanks Engineering ME	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3484	1.3.1.1.6.5	Engineering Hardware ME	LLNL	ED&I	2	2 wks	\$5,040.00	\$0.00	\$0.00	\$5,040.00	\$4,939.20	\$2,494.80	\$12,474.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	0	2 wks	\$0.00	\$0.00	\$0.00	\$5,040.00	\$0.00	\$0.00	\$0.00
3485	1.3.1.1.6.5	Engineering Hardware Blower ME	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,520.00	\$0.00	\$0.00	\$0.00
3486	1.3.1.1.6.5	System ME Drafting	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,520.00	\$0.00	\$0.00	\$0.00
3487	1.3.1.1.6.5	System Controller ME Drafting	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,080.00	\$0.00	\$0.00	\$0.00
3488	1.3.1.1.6.5	Bottle Manifold ME Drafting	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,080.00	\$0.00	\$0.00	\$0.00
3489	1.3.1.1.6.5	Transfer Manifold ME Drafting	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,080.00	\$0.00	\$0.00	\$0.00
3490	1.3.1.1.6.5	Storage Tank ME Drafting	LLNL	ED&I	2	0.5 wks	\$1,040.00	\$0.00	\$0.00	\$1,040.00	\$1,019.20	\$514.80	\$2,574.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	0	0.5 wks	\$0.00	\$0.00	\$0.00	\$1,040.00	\$0.00	\$0.00	\$0.00
3491	1.3.1.1.6.5	Hardware ME Drafting	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,080.00	\$0.00	\$0.00	\$0.00
3492	1.3.1.1.6.5	Blower ME Drafting	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,080.00	\$0.00	\$0.00	\$0.00
3493	1.3.1.1.6.6	Tank FEE 1	LLNL		0	251.6 wks	\$580,040.00	\$0.00	\$0.00	\$580,040.00	\$568,439.20	\$287,119.80	\$1,435,599.00
3494	1.3.1.1.6.6	PDR Design and Theory	LLNL	ED&I	2	1 wk	\$2,160.00	\$0.00	\$0.00	\$2,160.00	\$2,116.80	\$1,069.20	\$5,346.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,160.00	\$0.00	\$0.00	\$0.00
3495	1.3.1.1.6.6	PDR Electrical Engineering	LLNL	ED&I	2	1 wk	\$2,480.00	\$0.00	\$0.00	\$2,480.00	\$2,430.40	\$1,227.60	\$6,138.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,480.00	\$0.00	\$0.00	\$0.00
3496	1.3.1.1.6.6	PDR Drafting EE	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,080.00	\$0.00	\$0.00	\$0.00
3497	1.3.1.1.6.6	PDR ME Engineering	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,520.00	\$0.00	\$0.00	\$0.00
3498	1.3.1.1.6.6	PDR Drafting ME	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,080.00	\$0.00	\$0.00	\$0.00
3499	1.3.1.1.6.6	FDR Design and Theory	LLNL	ED&I	2	1 wk	\$2,160.00	\$0.00	\$0.00	\$2,160.00	\$2,116.80	\$1,069.20	\$5,346.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,160.00	\$0.00	\$0.00	\$0.00
3500	1.3.1.1.6.6	FDR Data Acquisition EE	LLNL	ED&I	2	1 wk	\$2,480.00	\$0.00	\$0.00	\$2,480.00	\$2,430.40	\$1,227.60	\$6,138.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,480.00	\$0.00	\$0.00	\$0.00
3501	1.3.1.1.6.6	FDR Controls I/F EE	LLNL	ED&I	2	1 wk	\$2,480.00	\$0.00	\$0.00	\$2,480.00	\$2,430.40	\$1,227.60	\$6,138.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,480.00	\$0.00	\$0.00	\$0.00
3502	1.3.1.1.6.6	FDR Motors EE	LLNL	ED&I	2	1 wk	\$2,480.00	\$0.00	\$0.00	\$2,480.00	\$2,430.40	\$1,227.60	\$6,138.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,480.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3503	1.3.1.1.6.6	FDR Data Acquisition Drafting EE	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3504	1.3.1.1.6.6	FDR Controls I/F Drafting EE	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3505	1.3.1.1.6.6	FDR Tank ME	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3506	1.3.1.1.6.6	FDR Turbo System ME	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3507	1.3.1.1.6.6	FDR Stand ME	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3508	1.3.1.1.6.6	FDR DI Imager insertion stage ME	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3509	1.3.1.1.6.6	FDR SF Imager insertion stage ME	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3510	1.3.1.1.6.6	FDR Spare insertion stage ME	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3511	1.3.1.1.6.6	FDR Tank ME Drafting	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3512	1.3.1.1.6.6	FDR Turbo System ME Drafting	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3513	1.3.1.1.6.6	FDR Stand ME Drafting	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3514	1.3.1.1.6.6	FDR DI Imager insertion stage ME Drafting	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3515	1.3.1.1.6.6	FDR SF Imager insertion stage ME Drafting	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3516	1.3.1.1.6.6	FDR Spare insertion stage ME Drafting	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3517	1.3.1.1.6.7	Ion Pumped Diagnostic Tanks	LLNL		0	15.8 wks	\$35,760.00	\$0.00	\$0.00	\$35,760.00	\$35,044.80	\$17,701.20	\$88,506.00
3518	1.3.1.1.6.7	PDR Design and Theory	LLNL	ED&I	2	1 wk	\$2,160.00	\$0.00	\$0.00	\$2,160.00	\$2,116.80	\$1,069.20	\$5,346.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3519	1.3.1.1.6.7	PDR Electrical Engineering	LLNL	ED&I	2	1 wk	\$2,480.00	\$0.00	\$0.00	\$2,480.00	\$2,430.40	\$1,227.60	\$6,138.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,480.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3520	1.3.1.1.6.7	PDR Drafting EE	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3521	1.3.1.1.6.7	PDR ME Engineering	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3522	1.3.1.1.6.7	PDR Drafting ME	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3523	1.3.1.1.6.7	Design and Theory	LLNL	ED&I	2	1 wk	\$2,160.00	\$0.00	\$0.00	\$2,160.00	\$2,116.80	\$1,069.20	\$5,346.00
		<i>LLNL Physicist - Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3524	1.3.1.1.6.7	Data Acquisition EE	LLNL	ED&I	2	0.4 wks	\$992.00	\$0.00	\$0.00	\$992.00	\$972.16	\$491.04	\$2,455.20
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$992.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3525	1.3.1.1.6.7	Controls I/F EE	LLNL	ED&I	2	0.4 wks	\$992.00	\$0.00	\$0.00	\$992.00	\$972.16	\$491.04	\$2,455.20
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$992.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3526	1.3.1.1.6.7	Motors EE	LLNL	ED&I	2	0.2 wks	\$496.00	\$0.00	\$0.00	\$496.00	\$486.08	\$245.52	\$1,227.60
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$496.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3527	1.3.1.1.6.7	Data Acquisition Drafting EE	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3528	1.3.1.1.6.7	Controls I/F Drafting EE	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3529	1.3.1.1.6.7	Tank ME	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3530	1.3.1.1.6.7	Ion System ME	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3531	1.3.1.1.6.7	Stand ME	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3532	1.3.1.1.6.7	DI Imager insertion stage ME	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3533	1.3.1.1.6.7	SF Imager insertion stage ME	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3534	1.3.1.1.6.7	Tank ME Drafting	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3535	1.3.1.1.6.7	Ion System ME Drafting	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3536	1.3.1.1.6.7	Stand ME Drafting	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3537	1.3.1.1.6.7	DI Imager insertion stage ME Drafting	LLNL	ED&I	2	0.2 wks	\$416.00	\$0.00	\$0.00	\$416.00	\$407.68	\$205.92	\$1,029.60
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$416.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
3538	1.3.1.1.6.7	SF Imager insertion stage ME Drafting	LLNL	ED&I	2	0.2 wks	\$416.00	\$0.00	\$0.00	\$416.00	\$407.68	\$205.92	\$1,029.60
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$416.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3539	1.3.1.1.6.8	Diagnostic Tank A4 1	LLNL		0	23 wks	\$52,680.00	\$0.00	\$0.00	\$52,680.00	\$51,626.40	\$26,076.60	\$130,383.00
3540	1.3.1.1.6.8	PDR Design and Theory	LLNL	ED&I	2	1 wk	\$2,160.00	\$0.00	\$0.00	\$2,160.00	\$2,116.80	\$1,069.20	\$5,346.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3541	1.3.1.1.6.8	PDR Electrical Engineering	LLNL	ED&I	2	1 wk	\$2,480.00	\$0.00	\$0.00	\$2,480.00	\$2,430.40	\$1,227.60	\$6,138.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,480.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3542	1.3.1.1.6.8	PDR Drafting EE	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3543	1.3.1.1.6.8	PDR ME Engineering	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3544	1.3.1.1.6.8	PDR Drafting ME	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3545	1.3.1.1.6.8	FDR Design and Theory	LLNL	ED&I	2	1 wk	\$2,160.00	\$0.00	\$0.00	\$2,160.00	\$2,116.80	\$1,069.20	\$5,346.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3546	1.3.1.1.6.8	FDR Data Acquisition EE	LLNL	ED&I	2	1 wk	\$2,480.00	\$0.00	\$0.00	\$2,480.00	\$2,430.40	\$1,227.60	\$6,138.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,480.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3547	1.3.1.1.6.8	FDR Controls I/F EE	LLNL	ED&I	2	1 wk	\$2,480.00	\$0.00	\$0.00	\$2,480.00	\$2,430.40	\$1,227.60	\$6,138.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,480.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3548	1.3.1.1.6.8	FDR Motors EE	LLNL	ED&I	2	1 wk	\$2,480.00	\$0.00	\$0.00	\$2,480.00	\$2,430.40	\$1,227.60	\$6,138.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,480.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3549	1.3.1.1.6.8	FDR Drafting EE	LLNL		2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3550	1.3.1.1.6.8	FDR Data Acquisition Drafting EE	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3551	1.3.1.1.6.8	FDR Controls I/F Drafting EE	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3552	1.3.1.1.6.8	FDR Tank ME	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3553	1.3.1.1.6.8	FDR Turbo System ME	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3554	1.3.1.1.6.8	FDR Stand ME	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3555	1.3.1.1.6.8	FDR DI Imager insertion stage ME	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3556	1.3.1.1.6.8	FDR Rail Alignment Stages ME	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3557	1.3.1.1.6.8	FDR Optics and Aperure Stage ME	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3558	1.3.1.1.6.8	FDR Tank ME Drafing	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3559	1.3.1.1.6.8	FDR Turbo System ME Drafing	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3560	1.3.1.1.6.8	FDR Stand ME Drafing	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3561	1.3.1.1.6.8	FDR DI Imager insertion stage ME Drafing	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3562	1.3.1.1.6.8	FDR Rail Alignment Stages ME Drafing	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3563	1.3.1.1.6.8	FDR Optics and Aperure Stage ME Drafing	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3564	1.3.1.1.6.9	Total Energy	LLNL		0	67.6 wks	\$156,584.00	\$0.00	\$0.00	\$156,584.00	\$153,452.32	\$77,509.08	\$387,545.40
3565	1.3.1.1.6.9	PDR Thermal modeling	LLNL	ED&I	2	2 wks	\$4,320.00	\$0.00	\$0.00	\$4,320.00	\$4,233.60	\$2,138.40	\$10,692.00
		<i>LLNL Physicist - Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3566	1.3.1.1.6.9	PDR X Ray Absorber EE	LLNL	ED&I	2	0.2 wks	\$496.00	\$0.00	\$0.00	\$496.00	\$486.08	\$245.52	\$1,227.60
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$496.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3567	1.3.1.1.6.9	PDR Black Body EE	LLNL	ED&I	2	0.2 wks	\$496.00	\$0.00	\$0.00	\$496.00	\$486.08	\$245.52	\$1,227.60
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$496.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3568	1.3.1.1.6.9	PDR Front End Electronics EE	LLNL	ED&I	2	0.1 wks	\$248.00	\$0.00	\$0.00	\$248.00	\$243.04	\$122.76	\$613.80
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.1 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$248.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3569	1.3.1.1.6.9	PDR Signal Processing Electronics EE	LLNL	ED&I	2	0.1 wks	\$248.00	\$0.00	\$0.00	\$248.00	\$243.04	\$122.76	\$613.80
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.1 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$248.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3570	1.3.1.1.6.9	PDR Computer I/F Electronics EE	LLNL	ED&I	2	0.1 wks	\$248.00	\$0.00	\$0.00	\$248.00	\$243.04	\$122.76	\$613.80
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.1 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$248.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3571	1.3.1.1.6.9	PDR Front End Electronics Drafing EE	LLNL	ED&I	2	0.1 wks	\$208.00	\$0.00	\$0.00	\$208.00	\$203.84	\$102.96	\$514.80
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>0.1 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$208.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3572	1.3.1.1.6.9	PDR Signal Processing Electronics Drafing EE	LLNL	ED&I	2	0.1 wks	\$208.00	\$0.00	\$0.00	\$208.00	\$203.84	\$102.96	\$514.80
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>0.1 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$208.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3573	1.3.1.1.6.9	PDR Absorber Drafing EE	LLNL	ED&I	2	0.1 wks	\$208.00	\$0.00	\$0.00	\$208.00	\$203.84	\$102.96	\$514.80
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>0.1 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$208.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3574	1.3.1.1.6.9	PDR X Ray Absorber ME	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3575	1.3.1.1.6.9	PDR Thermal Semiconductor ME	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3576	1.3.1.1.6.9	PDR Cold Head ME	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3577	1.3.1.1.6.9	PDR Black Body ME	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3578	1.3.1.1.6.9	PDR Pedistal mount ME	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3579	1.3.1.1.6.9	PDR Thermal Semiconductor ME	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3580	1.3.1.1.6.9	PDR Temperature probes ME	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3581	1.3.1.1.6.9	PDR Water absorber ME	LLNL	ED&I	2	0.2 wks	\$416.00	\$0.00	\$0.00	\$416.00	\$407.68	\$205.92	\$1,029.60
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$416.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3582	1.3.1.1.6.9	PDR Absorber ME Drafting	LLNL	ED&I	2	0.2 wks	\$416.00	\$0.00	\$0.00	\$416.00	\$407.68	\$205.92	\$1,029.60
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$416.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3583	1.3.1.1.6.9	PDR Thermal Semiconductor ME Drafting	LLNL	ED&I	2	0.2 wks	\$416.00	\$0.00	\$0.00	\$416.00	\$407.68	\$205.92	\$1,029.60
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$416.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3584	1.3.1.1.6.9	PDR Cold Head ME Drafting	LLNL	ED&I	2	0.2 wks	\$416.00	\$0.00	\$0.00	\$416.00	\$407.68	\$205.92	\$1,029.60
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$416.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3585	1.3.1.1.6.9	PDR Black Body ME Drafting	LLNL	ED&I	2	0.2 wks	\$416.00	\$0.00	\$0.00	\$416.00	\$407.68	\$205.92	\$1,029.60
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$416.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3586	1.3.1.1.6.9	PDR Pedistal mount ME Drafting	LLNL	ED&I	2	0.2 wks	\$416.00	\$0.00	\$0.00	\$416.00	\$407.68	\$205.92	\$1,029.60
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$416.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3587	1.3.1.1.6.9	FDR Thermal modeling	LLNL	ED&I	2	6 wks	\$12,960.00	\$0.00	\$0.00	\$12,960.00	\$12,700.80	\$6,415.20	\$32,076.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,960.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3588	1.3.1.1.6.9	FDR X Ray Absorber EE	LLNL	ED&I	2	2 wks	\$4,960.00	\$0.00	\$0.00	\$4,960.00	\$4,860.80	\$2,455.20	\$12,276.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,960.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3589	1.3.1.1.6.9	FDR Black Body EE	LLNL	ED&I	2	3 wks	\$7,440.00	\$0.00	\$0.00	\$7,440.00	\$7,291.20	\$3,682.80	\$18,414.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,440.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3590	1.3.1.1.6.9	FDR Front End Electronics EE	LLNL	ED&I	2	3 wks	\$7,440.00	\$0.00	\$0.00	\$7,440.00	\$7,291.20	\$3,682.80	\$18,414.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,440.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3591	1.3.1.1.6.9	FDR Signal Processing Electronics EE	LLNL	ED&I	2	2 wks	\$4,960.00	\$0.00	\$0.00	\$4,960.00	\$4,860.80	\$2,455.20	\$12,276.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,960.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
3592	1.3.1.1.6.9	FDR Computer I/F Electronics EE	LLNL	ED&I	2	2 wks	\$4,160.00	\$0.00	\$0.00	\$4,160.00	\$4,076.80	\$2,059.20	\$10,296.00
		LLNL Mech Drafting/Design		ED&I	0	2 wks	\$0.00	\$0.00	\$0.00	\$4,160.00	\$0.00	\$0.00	\$0.00
3593	1.3.1.1.6.9	FDR Front End Electronics Drafting EE	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		LLNL Mech Drafting/Design		ED&I	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,080.00	\$0.00	\$0.00	\$0.00
3594	1.3.1.1.6.9	FDR Signal Processing Electronics Drafting EE	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		LLNL Mech Drafting/Design		ED&I	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,080.00	\$0.00	\$0.00	\$0.00
3595	1.3.1.1.6.9	FDR X Ray Absorber Drafting EE	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		LLNL Mechanical Engineer		ED&I	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,520.00	\$0.00	\$0.00	\$0.00
3596	1.3.1.1.6.9	FDR X ray Absorber ME	LLNL	ED&I	2	2 wks	\$5,040.00	\$0.00	\$0.00	\$5,040.00	\$4,939.20	\$2,494.80	\$12,474.00
		LLNL Mechanical Engineer		ED&I	0	2 wks	\$0.00	\$0.00	\$0.00	\$5,040.00	\$0.00	\$0.00	\$0.00
3597	1.3.1.1.6.9	FDR Thermal Semiconductor ME	LLNL	ED&I	2	4 wks	\$10,080.00	\$0.00	\$0.00	\$10,080.00	\$9,878.40	\$4,989.60	\$24,948.00
		LLNL Mechanical Engineer		ED&I	0	4 wks	\$0.00	\$0.00	\$0.00	\$10,080.00	\$0.00	\$0.00	\$0.00
3598	1.3.1.1.6.9	FDR Cold Head ME	LLNL	ED&I	2	3 wks	\$7,560.00	\$0.00	\$0.00	\$7,560.00	\$7,408.80	\$3,742.20	\$18,711.00
		LLNL Mechanical Engineer		ED&I	0	3 wks	\$0.00	\$0.00	\$0.00	\$7,560.00	\$0.00	\$0.00	\$0.00
3599	1.3.1.1.6.9	FDR Black Body ME	LLNL	ED&I	2	3 wks	\$7,560.00	\$0.00	\$0.00	\$7,560.00	\$7,408.80	\$3,742.20	\$18,711.00
		LLNL Mechanical Engineer		ED&I	0	3 wks	\$0.00	\$0.00	\$0.00	\$7,560.00	\$0.00	\$0.00	\$0.00
3600	1.3.1.1.6.9	FDR Pedistal mount ME	LLNL	ED&I	2	3 wks	\$7,560.00	\$0.00	\$0.00	\$7,560.00	\$7,408.80	\$3,742.20	\$18,711.00
		LLNL Mechanical Engineer		ED&I	0	3 wks	\$0.00	\$0.00	\$0.00	\$7,560.00	\$0.00	\$0.00	\$0.00
3601	1.3.1.1.6.9	FDR Temperature probes ME	LLNL	ED&I	2	2 wks	\$5,040.00	\$0.00	\$0.00	\$5,040.00	\$4,939.20	\$2,494.80	\$12,474.00
		LLNL Mechanical Engineer		ED&I	0	2 wks	\$0.00	\$0.00	\$0.00	\$5,040.00	\$0.00	\$0.00	\$0.00
3602	1.3.1.1.6.9	FDR Water absorber ME	LLNL	ED&I	2	3 wks	\$7,560.00	\$0.00	\$0.00	\$7,560.00	\$7,408.80	\$3,742.20	\$18,711.00
		LLNL Mechanical Engineer		ED&I	0	3 wks	\$0.00	\$0.00	\$0.00	\$7,560.00	\$0.00	\$0.00	\$0.00
3603	1.3.1.1.6.9	FDR X ray Absorber ME Drafting	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		LLNL Mech Drafting/Design		ED&I	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,080.00	\$0.00	\$0.00	\$0.00
3604	1.3.1.1.6.9	FDR Thermal Semiconductor ME Drafting	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		LLNL Mech Drafting/Design		ED&I	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,080.00	\$0.00	\$0.00	\$0.00
3605	1.3.1.1.6.9	FDR Cold Head ME Drafting	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		LLNL Mech Drafting/Design		ED&I	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,080.00	\$0.00	\$0.00	\$0.00
3606	1.3.1.1.6.9	FDR Black Body ME Drafting	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		LLNL Mech Drafting/Design		ED&I	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,080.00	\$0.00	\$0.00	\$0.00
3607	1.3.1.1.6.9	FDR Pedistal mount ME Drafting	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		LLNL Mech Drafting/Design		ED&I	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,080.00	\$0.00	\$0.00	\$0.00
3608	1.3.1.1.6.9	FDR Water Absorber ME Drafting	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		LLNL Mech Drafting/Design		ED&I	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,080.00	\$0.00	\$0.00	\$0.00
3609	1.3.1.1.6.9	Computer Documentation & drafting	LLNL	ED&I	2	1 wk	\$2,160.00	\$0.00	\$0.00	\$2,160.00	\$2,116.80	\$1,069.20	\$5,346.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3610	1.3.1.1.6.9	Computer Interface Programming	LLNL	ED&I	2	8 wks	\$17,280.00	\$0.00	\$0.00	\$17,280.00	\$16,934.40	\$8,553.60	\$42,768.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$17,280.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3611	1.3.1.1.6.9	Data Analysis	LLNL	ED&I	2	6 wks	\$12,960.00	\$0.00	\$0.00	\$12,960.00	\$12,700.80	\$6,415.20	\$32,076.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,960.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3612	1.3.1.1.6.10	Pulse Length	LLNL		0	54 wks	\$125,080.00	\$0.00	\$0.00	\$125,080.00	\$122,578.40	\$61,914.60	\$309,573.00
3613	1.3.1.1.6.10	Design and Theory	LLNL	ED&I	2	0.2 wks	\$432.00	\$0.00	\$0.00	\$432.00	\$423.36	\$213.84	\$1,069.20
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$432.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3614	1.3.1.1.6.10	xtal growth Design and Theory	LLNL	ED&I	2	0.2 wks	\$432.00	\$0.00	\$0.00	\$432.00	\$423.36	\$213.84	\$1,069.20
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$432.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3615	1.3.1.1.6.10	dicing, packaging, pigtailling Design and Theory	LLNL	ED&I	2	0.2 wks	\$432.00	\$0.00	\$0.00	\$432.00	\$423.36	\$213.84	\$1,069.20
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$432.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3616	1.3.1.1.6.10	testing Design and Theory	LLNL	ED&I	2	0.2 wks	\$432.00	\$0.00	\$0.00	\$432.00	\$423.36	\$213.84	\$1,069.20
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$432.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3617	1.3.1.1.6.10	Temporal Imaging System Design and Theory	LLNL	ED&I	2	0.2 wks	\$432.00	\$0.00	\$0.00	\$432.00	\$423.36	\$213.84	\$1,069.20
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$432.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3618	1.3.1.1.6.10	Temporal Imaging System Modeling Physics	LLNL	ED&I	2	0.2 wks	\$432.00	\$0.00	\$0.00	\$432.00	\$423.36	\$213.84	\$1,069.20
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$432.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3619	1.3.1.1.6.10	Aberation compensation design Physics	LLNL	ED&I	2	0.2 wks	\$432.00	\$0.00	\$0.00	\$432.00	\$423.36	\$213.84	\$1,069.20
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$432.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3620	1.3.1.1.6.10	Tigger optimization Design and Theory	LLNL	ED&I	2	0.2 wks	\$432.00	\$0.00	\$0.00	\$432.00	\$423.36	\$213.84	\$1,069.20
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$432.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3621	1.3.1.1.6.10	Packaging design for mixing system Physics	LLNL	ED&I	2	0.2 wks	\$432.00	\$0.00	\$0.00	\$432.00	\$423.36	\$213.84	\$1,069.20
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$432.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3622	1.3.1.1.6.10	xtal growth EE	LLNL	ED&I	2	0.2 wks	\$496.00	\$0.00	\$0.00	\$496.00	\$486.08	\$245.52	\$1,227.60
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$496.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3623	1.3.1.1.6.10	lithography, processing EE	LLNL	ED&I	2	0.2 wks	\$496.00	\$0.00	\$0.00	\$496.00	\$486.08	\$245.52	\$1,227.60
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$496.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3624	1.3.1.1.6.10	dicing, packaging, pigtailling EE	LLNL	ED&I	2	0.2 wks	\$496.00	\$0.00	\$0.00	\$496.00	\$486.08	\$245.52	\$1,227.60
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$496.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3625	1.3.1.1.6.10	testing EE	LLNL	ED&I	2	0.2 wks	\$496.00	\$0.00	\$0.00	\$496.00	\$486.08	\$245.52	\$1,227.60
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$496.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3626	1.3.1.1.6.10	Temporal Imaging System Design EE	LLNL	ED&I	2	0.2 wks	\$496.00	\$0.00	\$0.00	\$496.00	\$486.08	\$245.52	\$1,227.60
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$496.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3627	1.3.1.1.6.10	Temporal Imaging System Modeling EE	LLNL	ED&I	2	0.2 wks	\$496.00	\$0.00	\$0.00	\$496.00	\$486.08	\$245.52	\$1,227.60

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$496.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3628	1.3.1.1.6.10	Aberation compensation design EE	LLNL	ED&I	2	0.2 wks	\$496.00	\$0.00	\$0.00	\$496.00	\$486.08	\$245.52	\$1,227.60
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$496.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3629	1.3.1.1.6.10	Tigger optimization EE	LLNL	ED&I	2	0.2 wks	\$496.00	\$0.00	\$0.00	\$496.00	\$486.08	\$245.52	\$1,227.60
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$496.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3630	1.3.1.1.6.10	Packaging design for mixing system EE	LLNL	ED&I	2	0.2 wks	\$496.00	\$0.00	\$0.00	\$496.00	\$486.08	\$245.52	\$1,227.60
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$496.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3631	1.3.1.1.6.10	Temporal Imaging System Design	LLNL	ED&I	2	0.2 wks	\$496.00	\$0.00	\$0.00	\$496.00	\$486.08	\$245.52	\$1,227.60
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$496.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3632	1.3.1.1.6.10	ME Engineering	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3633	1.3.1.1.6.10	ME Drafing	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3634	1.3.1.1.6.10	xtal growth	LLNL	ED&I	2	0.4 wks	\$864.00	\$0.00	\$0.00	\$864.00	\$846.72	\$427.68	\$2,138.40
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$864.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3635	1.3.1.1.6.10	dicing, packaging, pigtailling	LLNL	ED&I	2	0.4 wks	\$864.00	\$0.00	\$0.00	\$864.00	\$846.72	\$427.68	\$2,138.40
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$864.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3636	1.3.1.1.6.10	testing	LLNL	ED&I	2	0.4 wks	\$864.00	\$0.00	\$0.00	\$864.00	\$846.72	\$427.68	\$2,138.40
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$864.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3637	1.3.1.1.6.10	Temporal Imaging System Design	LLNL	ED&I	2	4 wks	\$8,640.00	\$0.00	\$0.00	\$8,640.00	\$8,467.20	\$4,276.80	\$21,384.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,640.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3638	1.3.1.1.6.10	Temporal Imaging System Modeling	LLNL	ED&I	2	4 wks	\$8,640.00	\$0.00	\$0.00	\$8,640.00	\$8,467.20	\$4,276.80	\$21,384.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,640.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3639	1.3.1.1.6.10	Aberation compensation design	LLNL	ED&I	2	2 wks	\$4,320.00	\$0.00	\$0.00	\$4,320.00	\$4,233.60	\$2,138.40	\$10,692.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3640	1.3.1.1.6.10	Tigger optimization	LLNL	ED&I	2	3 wks	\$6,480.00	\$0.00	\$0.00	\$6,480.00	\$6,350.40	\$3,207.60	\$16,038.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,480.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3641	1.3.1.1.6.10	Packaging design for mixing system	LLNL	ED&I	2	1 wk	\$2,160.00	\$0.00	\$0.00	\$2,160.00	\$2,116.80	\$1,069.20	\$5,346.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3642	1.3.1.1.6.10	xtal growth EE	LLNL	ED&I	2	2 wks	\$4,960.00	\$0.00	\$0.00	\$4,960.00	\$4,860.80	\$2,455.20	\$12,276.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,960.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3643	1.3.1.1.6.10	lithography, processing EE	LLNL	ED&I	2	2 wks	\$4,960.00	\$0.00	\$0.00	\$4,960.00	\$4,860.80	\$2,455.20	\$12,276.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,960.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3644	1.3.1.1.6.10	dicing, packaging, pigtailling EE	LLNL	ED&I	2	1 wk	\$2,480.00	\$0.00	\$0.00	\$2,480.00	\$2,430.40	\$1,227.60	\$6,138.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,480.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
3645	1.3.1.1.6.10	testing EE	LLNL	ED&I	2	1 wk	\$2,480.00	\$0.00	\$0.00	\$2,480.00	\$2,430.40	\$1,227.60	\$6,138.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,480.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3646	1.3.1.1.6.10	Temporal Imaging System Design EE	LLNL	ED&I	2	4 wks	\$9,920.00	\$0.00	\$0.00	\$9,920.00	\$9,721.60	\$4,910.40	\$24,552.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,920.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3647	1.3.1.1.6.10	Temporal Imaging System Modeling EE	LLNL	ED&I	2	4 wks	\$9,920.00	\$0.00	\$0.00	\$9,920.00	\$9,721.60	\$4,910.40	\$24,552.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,920.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3648	1.3.1.1.6.10	Aberation compensation design EE	LLNL	ED&I	2	3 wks	\$7,440.00	\$0.00	\$0.00	\$7,440.00	\$7,291.20	\$3,682.80	\$18,414.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,440.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3649	1.3.1.1.6.10	Tigger optimization EE	LLNL	ED&I	2	3 wks	\$7,440.00	\$0.00	\$0.00	\$7,440.00	\$7,291.20	\$3,682.80	\$18,414.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,440.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3650	1.3.1.1.6.10	Packaging design for mixing system EE	LLNL	ED&I	2	1 wk	\$2,480.00	\$0.00	\$0.00	\$2,480.00	\$2,430.40	\$1,227.60	\$6,138.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,480.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3651	1.3.1.1.6.10	Aberation compensation design EE	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3652	1.3.1.1.6.10	Packaging design for mixing system EE	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3653	1.3.1.1.6.10	Documentation EE	LLNL	ED&I	2	2 wks	\$4,160.00	\$0.00	\$0.00	\$4,160.00	\$4,076.80	\$2,059.20	\$10,296.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3654	1.3.1.1.6.10	Aberation compensation design ME	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3655	1.3.1.1.6.10	Packaging design for mixing system ME	LLNL	ED&I	2	2 wks	\$5,040.00	\$0.00	\$0.00	\$5,040.00	\$4,939.20	\$2,494.80	\$12,474.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,040.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3656	1.3.1.1.6.10	Documentation ME	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3657	1.3.1.1.6.10	ME Drafting	LLNL	ED&I	2	4 wks	\$8,320.00	\$0.00	\$0.00	\$8,320.00	\$8,153.60	\$4,118.40	\$20,592.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3658	1.3.1.1.6.11	Spectrometer	LLNL		0	51.8 wks	\$119,576.00	\$0.00	\$0.00	\$119,576.00	\$117,184.48	\$59,190.12	\$295,950.60
3659	1.3.1.1.6.11	PDR Scintillator and light levels Physics	LLNL	ED&I	2	1 wk	\$2,160.00	\$0.00	\$0.00	\$2,160.00	\$2,116.80	\$1,069.20	\$5,346.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3660	1.3.1.1.6.11	PDR Optical Design Physics Physics	LLNL	ED&I	2	0.6 wks	\$1,296.00	\$0.00	\$0.00	\$1,296.00	\$1,270.08	\$641.52	\$3,207.60
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,296.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3661	1.3.1.1.6.11	PDR Motion requirements Physics	LLNL	ED&I	2	0.4 wks	\$864.00	\$0.00	\$0.00	\$864.00	\$846.72	\$427.68	\$2,138.40
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$864.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3662	1.3.1.1.6.11	PDR Electrical Engineering	LLNL		2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3663	1.3.1.1.6.11	PDR Linear array EE	LLNL	ED&I	2	1 wk	\$2,480.00	\$0.00	\$0.00	\$2,480.00	\$2,430.40	\$1,227.60	\$6,138.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,480.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3664	1.3.1.1.6.11	PDR TE Cooling / Chiller EE	LLNL	ED&I	2	0.2 wks	\$496.00	\$0.00	\$0.00	\$496.00	\$486.08	\$245.52	\$1,227.60
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$496.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3665	1.3.1.1.6.11	PDR Optical Specification EE	LLNL	ED&I	2	0.2 wks	\$496.00	\$0.00	\$0.00	\$496.00	\$486.08	\$245.52	\$1,227.60
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$496.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3666	1.3.1.1.6.11	PDR Readout / Data Acquisition EE	LLNL	ED&I	2	0.4 wks	\$992.00	\$0.00	\$0.00	\$992.00	\$972.16	\$491.04	\$2,455.20
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$992.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3667	1.3.1.1.6.11	PDR Motors EE	LLNL	ED&I	2	0.2 wks	\$496.00	\$0.00	\$0.00	\$496.00	\$486.08	\$245.52	\$1,227.60
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$496.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3668	1.3.1.1.6.11	PDR Drafting EE	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3669	1.3.1.1.6.11	PDR Camera Housing ME	LLNL	ED&I	2	0.4 wks	\$1,008.00	\$0.00	\$0.00	\$1,008.00	\$987.84	\$498.96	\$2,494.80
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,008.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3670	1.3.1.1.6.11	PDR Crystal and Grating mount ME	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3671	1.3.1.1.6.11	PDR ME Drafting	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3672	1.3.1.1.6.11	FDR Design and Theory	LLNL	ED&I	2	0.4 wks	\$864.00	\$0.00	\$0.00	\$864.00	\$846.72	\$427.68	\$2,138.40
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$864.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3673	1.3.1.1.6.11	FDR Scintillating Crystal EE	LLNL	ED&I	2	0.2 wks	\$496.00	\$0.00	\$0.00	\$496.00	\$486.08	\$245.52	\$1,227.60
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$496.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3674	1.3.1.1.6.11	FDR Linear Array EE	LLNL	ED&I	2	4 wks	\$9,920.00	\$0.00	\$0.00	\$9,920.00	\$9,721.60	\$4,910.40	\$24,552.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,920.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3675	1.3.1.1.6.11	FDR TE Cooler EE	LLNL	ED&I	2	0.2 wks	\$496.00	\$0.00	\$0.00	\$496.00	\$486.08	\$245.52	\$1,227.60
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$496.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3676	1.3.1.1.6.11	FDR Analog board EE	LLNL	ED&I	2	4 wks	\$9,920.00	\$0.00	\$0.00	\$9,920.00	\$9,721.60	\$4,910.40	\$24,552.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,920.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3677	1.3.1.1.6.11	FDR Camera Digital board EE	LLNL	ED&I	2	2 wks	\$4,960.00	\$0.00	\$0.00	\$4,960.00	\$4,860.80	\$2,455.20	\$12,276.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,960.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3678	1.3.1.1.6.11	FDR Computer Interface board EE	LLNL	ED&I	2	2 wks	\$4,960.00	\$0.00	\$0.00	\$4,960.00	\$4,860.80	\$2,455.20	\$12,276.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,960.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3679	1.3.1.1.6.11	FDR System Drafting EE	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3680	1.3.1.1.6.11	FDR Analog boards Drafting EE	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
3681	1.3.1.1.6.11	FDR Camera Digital board Drafting EE	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		LLNL Mech Drafting/Design		ED&I	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,080.00	\$0.00	\$0.00	\$0.00
3682	1.3.1.1.6.11	FDR Crystal mount ME	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		LLNL Mechanical Engineer		ED&I	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,520.00	\$0.00	\$0.00	\$0.00
3683	1.3.1.1.6.11	FDR Grating mount ME	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		LLNL Mechanical Engineer		ED&I	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,520.00	\$0.00	\$0.00	\$0.00
3684	1.3.1.1.6.11	FDR Crystal ME	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		LLNL Mechanical Engineer		ED&I	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,520.00	\$0.00	\$0.00	\$0.00
3685	1.3.1.1.6.11	FDR Grating ME	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		LLNL Mechanical Engineer		ED&I	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,520.00	\$0.00	\$0.00	\$0.00
3686	1.3.1.1.6.11	FDR Alignment mirror ME	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		LLNL Mechanical Engineer		ED&I	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,520.00	\$0.00	\$0.00	\$0.00
3687	1.3.1.1.6.11	FDR TE Cooler ME	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		LLNL Mechanical Engineer		ED&I	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,520.00	\$0.00	\$0.00	\$0.00
3688	1.3.1.1.6.11	FDR Alignment mirror mount ME	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		LLNL Mechanical Engineer		ED&I	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$504.00	\$0.00	\$0.00	\$0.00
3689	1.3.1.1.6.11	FDR Camera vaccum housing ME	LLNL	ED&I	2	3 wks	\$7,560.00	\$0.00	\$0.00	\$7,560.00	\$7,408.80	\$3,742.20	\$18,711.00
		LLNL Mechanical Engineer		ED&I	0	3 wks	\$0.00	\$0.00	\$0.00	\$7,560.00	\$0.00	\$0.00	\$0.00
3690	1.3.1.1.6.11	FDR Cold finger ME	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		LLNL Mechanical Engineer		ED&I	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,520.00	\$0.00	\$0.00	\$0.00
3691	1.3.1.1.6.11	FDR Chiller ME	LLNL	ED&I	2	0.2 wks	\$504.00	\$0.00	\$0.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		LLNL Mechanical Engineer		ED&I	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$504.00	\$0.00	\$0.00	\$0.00
3692	1.3.1.1.6.11	FDR System ME Drafing	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		LLNL Mech Drafting/Design		ED&I	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,080.00	\$0.00	\$0.00	\$0.00
3693	1.3.1.1.6.11	FDR Crystal mount ME Drafing	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		LLNL Mech Drafting/Design		ED&I	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,080.00	\$0.00	\$0.00	\$0.00
3694	1.3.1.1.6.11	FDR Grating mount ME Drafing	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		LLNL Mech Drafting/Design		ED&I	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,080.00	\$0.00	\$0.00	\$0.00
3695	1.3.1.1.6.11	FDR Camera vaccum housing ME Drafing	LLNL	ED&I	2	2 wks	\$4,160.00	\$0.00	\$0.00	\$4,160.00	\$4,076.80	\$2,059.20	\$10,296.00
		LLNL Mech Drafting/Design		ED&I	0	2 wks	\$0.00	\$0.00	\$0.00	\$4,160.00	\$0.00	\$0.00	\$0.00
3696	1.3.1.1.6.11	FDR Cold finger ME Drafing	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		LLNL Mech Drafting/Design		ED&I	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,080.00	\$0.00	\$0.00	\$0.00
3697	1.3.1.1.6.11	Computer Documentation & drafting	LLNL	ED&I	2	1 wk	\$2,160.00	\$0.00	\$0.00	\$2,160.00	\$2,116.80	\$1,069.20	\$5,346.00
		LLNL Physicist -Scientist		ED&I	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,160.00	\$0.00	\$0.00	\$0.00
3698	1.3.1.1.6.11	Computer Interface Programming	LLNL	ED&I	2	6 wks	\$12,960.00	\$0.00	\$0.00	\$12,960.00	\$12,700.80	\$6,415.20	\$32,076.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,960.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3699	1.3.1.1.6.11	Image Analysis	LLNL	ED&I	2	6 wks	\$12,960.00	\$0.00	\$0.00	\$12,960.00	\$12,700.80	\$6,415.20	\$32,076.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,960.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3700	1.3.1.1.6.12	Spatial Coherence	LLNL		0	14 wks	\$31,616.00	\$0.00	\$0.00	\$31,616.00	\$30,983.68	\$15,649.92	\$78,249.60
3701	1.3.1.1.6.12	PDR Low Energy Slits Physics	LLNL	ED&I	2	0.4 wks	\$864.00	\$0.00	\$0.00	\$864.00	\$846.72	\$427.68	\$2,138.40
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$864.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3702	1.3.1.1.6.12	PDR Hight Energy Slits Physics	LLNL	ED&I	2	0.4 wks	\$864.00	\$0.00	\$0.00	\$864.00	\$846.72	\$427.68	\$2,138.40
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$864.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3703	1.3.1.1.6.12	PDR Coherence Theory Physics	LLNL	ED&I	2	0.4 wks	\$864.00	\$0.00	\$0.00	\$864.00	\$846.72	\$427.68	\$2,138.40
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$864.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3704	1.3.1.1.6.12	PDR Low Energy Etching Process EE	LLNL	ED&I	2	0.4 wks	\$992.00	\$0.00	\$0.00	\$992.00	\$972.16	\$491.04	\$2,455.20
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$992.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3705	1.3.1.1.6.12	PDR Sputter / Sliced Process ME	LLNL	ED&I	2	0.4 wks	\$1,008.00	\$0.00	\$0.00	\$1,008.00	\$987.84	\$498.96	\$2,494.80
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,008.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3706	1.3.1.1.6.12	PDR Mounting ME	LLNL	ED&I	2	0.4 wks	\$1,008.00	\$0.00	\$0.00	\$1,008.00	\$987.84	\$498.96	\$2,494.80
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,008.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3707	1.3.1.1.6.12	PDR ME Drating	LLNL	ED&I	2	0.4 wks	\$832.00	\$0.00	\$0.00	\$832.00	\$815.36	\$411.84	\$2,059.20
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$832.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3708	1.3.1.1.6.12	FDR Design and Theory	LLNL	ED&I	2	1 wk	\$2,160.00	\$0.00	\$0.00	\$2,160.00	\$2,116.80	\$1,069.20	\$5,346.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3709	1.3.1.1.6.12	FDR Low Energy Masks	LLNL	ED&I	2	1 wk	\$2,480.00	\$0.00	\$0.00	\$2,480.00	\$2,430.40	\$1,227.60	\$6,138.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,480.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3710	1.3.1.1.6.12	FDR Low Energy Masks Drafting EE	LLNL	ED&I	2	2 wks	\$4,160.00	\$0.00	\$0.00	\$4,160.00	\$4,076.80	\$2,059.20	\$10,296.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3711	1.3.1.1.6.12	FDR Mount for Low Energy ME	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3712	1.3.1.1.6.12	FDR Mount for High Energy ME	LLNL	ED&I	2	1 wk	\$2,520.00	\$0.00	\$0.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3713	1.3.1.1.6.12	FDR High Energy Substrate ME	LLNL	ED&I	2	0.4 wks	\$1,008.00	\$0.00	\$0.00	\$1,008.00	\$987.84	\$498.96	\$2,494.80
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,008.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3714	1.3.1.1.6.12	FDR Sputtering ME	LLNL	ED&I	2	0.4 wks	\$1,008.00	\$0.00	\$0.00	\$1,008.00	\$987.84	\$498.96	\$2,494.80
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,008.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3715	1.3.1.1.6.12	FDR Vacuum brase ME	LLNL	ED&I	2	0.4 wks	\$1,008.00	\$0.00	\$0.00	\$1,008.00	\$987.84	\$498.96	\$2,494.80
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,008.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3716	1.3.1.1.6.12	FDR Mount for Low Energy ME Drafting	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,080.00	\$0.00	\$0.00	\$0.00
3717	1.3.1.1.6.12	FDR Mount for High Energy ME Drafting	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,080.00	\$0.00	\$0.00	\$0.00
3718	1.3.1.1.6.12	FDR Slit Drawings ME Drafting	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,080.00	\$0.00	\$0.00	\$0.00
3719	1.3.1.1.6.12	FDR Assembly Drawing ME Drafting	LLNL	ED&I	2	1 wk	\$2,080.00	\$0.00	\$0.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,080.00	\$0.00	\$0.00	\$0.00
3720	1.3.1.1.6.13	Spatial Shape and Centroid	LLNL		0	1.2 wks	\$2,592.00	\$0.00	\$0.00	\$2,592.00	\$2,540.16	\$1,283.04	\$6,415.20
3721	1.3.1.1.6.13	PDR Design and Theory	LLNL	ED&I	2	0.2 wks	\$432.00	\$0.00	\$0.00	\$432.00	\$423.36	\$213.84	\$1,069.20
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$432.00	\$0.00	\$0.00	\$0.00
3722	1.3.1.1.6.13	FDRDesign and Theory	LLNL	ED&I	2	1 wk	\$2,160.00	\$0.00	\$0.00	\$2,160.00	\$2,116.80	\$1,069.20	\$5,346.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,160.00	\$0.00	\$0.00	\$0.00
3723	1.3.1.1.6.14	Divergence	LLNL		0	1.2 wks	\$2,592.00	\$0.00	\$0.00	\$2,592.00	\$2,540.16	\$1,283.04	\$6,415.20
3724	1.3.1.1.6.14	PDR Design and Theory	LLNL	ED&I	2	0.2 wks	\$432.00	\$0.00	\$0.00	\$432.00	\$423.36	\$213.84	\$1,069.20
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$432.00	\$0.00	\$0.00	\$0.00
3725	1.3.1.1.6.14	FDR Design and Theory	LLNL	ED&I	2	1 wk	\$2,160.00	\$0.00	\$0.00	\$2,160.00	\$2,116.80	\$1,069.20	\$5,346.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,160.00	\$0.00	\$0.00	\$0.00
3726	1.3.1.2	Mechanical and Vacuum			0	182.55 wks	\$0.00	\$1,453,001.00	\$401,150.00	\$1,854,151.00	\$667,744.19	\$465,272.25	\$2,987,167.44
3727	1.3.1.2.1	Front End Enclosure(FEE)			0	13.46 wks	\$0.00	\$106,500.00	\$29,623.20	\$136,123.20	\$49,159.24	\$32,454.29	\$217,736.72
3728	1.3.1.2.1.1	Isolation valve	LLNL		0	1.2 wks	\$0.00	\$7,000.00	\$2,688.00	\$9,688.00	\$3,957.24	\$2,579.01	\$16,224.25
3729	1.3.1.2.1.1	Hardware	LLNL	ED&I	2	0.4 wks	\$0.00	\$0.00	\$1,008.00	\$1,008.00	\$987.84	\$498.96	\$2,494.80
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	0	0.4 wks	\$0.00	\$0.00	\$0.00	\$1,008.00	\$0.00	\$0.00	\$0.00
3730	1.3.1.2.1.1	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$1,323.00	\$1,248.45	\$9,571.45
		<i>LLNL M&S Total</i>		<i>M&S</i>	0	7,000	\$0.00	\$0.00	\$0.00	\$7,000.00	\$0.00	\$0.00	\$0.00
3731	1.3.1.2.1.1	Install & test	LLNL	B&H	2	0.4 wks	\$0.00	\$0.00	\$832.00	\$832.00	\$815.36	\$411.84	\$2,059.20
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	0.4 wks	\$0.00	\$0.00	\$0.00	\$832.00	\$0.00	\$0.00	\$0.00
3732	1.3.1.2.1.1	Elect inst	LLNL	B&H	2	0.4 wks	\$0.00	\$0.00	\$848.00	\$848.00	\$831.04	\$419.76	\$2,098.80
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	0	0.4 wks	\$0.00	\$0.00	\$0.00	\$848.00	\$0.00	\$0.00	\$0.00
3733	1.3.1.2.1.2	Isolation valve-Be	LLNL		0	1.6 wks	\$0.00	\$10,000.00	\$3,520.00	\$13,520.00	\$5,339.60	\$2,859.04	\$21,718.64
3734	1.3.1.2.1.2	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$1,890.00	\$1,783.50	\$13,673.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	0	10,000	\$0.00	\$0.00	\$0.00	\$10,000.00	\$0.00	\$0.00	\$0.00
3735	1.3.1.2.1.2	Hardware	LLNL	ED&I	0	0.4 wks	\$0.00	\$0.00	\$1,008.00	\$1,008.00	\$987.84	\$0.00	\$1,995.84
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	1	0.4 wks	\$0.00	\$0.00	\$0.00	\$1,008.00	\$0.00	\$0.00	\$0.00
3736	1.3.1.2.1.2	Assemble, install & test	LLNL	B&H	2	0.8 wks	\$0.00	\$0.00	\$1,664.00	\$1,664.00	\$1,630.72	\$823.68	\$4,118.40
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	0.8 wks	\$0.00	\$0.00	\$0.00	\$1,664.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
3737	1.3.1.2.1.2	Elect inst	LLNL	B&H	1	0.4 wks	\$0.00	\$0.00	\$848.00	\$848.00	\$831.04	\$251.86	\$1,930.90
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$848.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3738	1.3.1.2.1.3	Vacuum piping	LLNL		0	0.75 wks	\$0.00	\$2,000.00	\$1,626.00	\$3,626.00	\$1,971.48	\$974.46	\$6,571.94
3739	1.3.1.2.1.3	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$378.00	\$356.70	\$2,734.70
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3740	1.3.1.2.1.3	Hardware	LLNL	ED&I	10	0.15 wks	\$0.00	\$0.00	\$378.00	\$378.00	\$370.44	\$0.00	\$748.44
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.15 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$378.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3741	1.3.1.2.1.3	Install & test	LLNL	B&H	2	0.6 wks	\$0.00	\$0.00	\$1,248.00	\$1,248.00	\$1,223.04	\$617.76	\$3,088.80
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,248.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3742	1.3.1.2.1.4	Ion pumps	LLNL		0	1.2 wks	\$0.00	\$38,000.00	\$2,640.00	\$40,640.00	\$9,769.20	\$7,934.41	\$58,343.61
3743	1.3.1.2.1.4	Hardware	LLNL	ED&I	1	0.15 wks	\$0.00	\$0.00	\$378.00	\$378.00	\$370.44	\$112.27	\$860.71
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.15 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$378.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3744	1.3.1.2.1.4	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$22,000.00	\$0.00	\$22,000.00	\$4,158.00	\$3,923.70	\$30,081.70
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>22,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$22,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3745	1.3.1.2.1.4	Controller	LLNL	M&S	1	0 wks	\$0.00	\$16,000.00	\$0.00	\$16,000.00	\$3,024.00	\$2,853.60	\$21,877.60
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>16,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$16,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3746	1.3.1.2.1.4	Controller	LLNL	ED&I	1	0.15 wks	\$0.00	\$0.00	\$378.00	\$378.00	\$370.44	\$112.27	\$860.71
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.15 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$378.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3747	1.3.1.2.1.4	Install electrical	LLNL	B&H	2	0.3 wks	\$0.00	\$0.00	\$636.00	\$636.00	\$623.28	\$314.82	\$1,574.10
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$636.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3748	1.3.1.2.1.4	Install (mech) and test	LLNL	B&H	2	0.6 wks	\$0.00	\$0.00	\$1,248.00	\$1,248.00	\$1,223.04	\$617.76	\$3,088.80
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,248.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3749	1.3.1.2.1.5	Ion gauges	LLNL		0	0.61 wks	\$0.00	\$5,000.00	\$1,345.20	\$6,345.20	\$2,263.30	\$1,477.79	\$10,086.29
3750	1.3.1.2.1.5	Hardware	LLNL	ED&I	1	0.08 wks	\$0.00	\$0.00	\$201.60	\$201.60	\$197.57	\$59.88	\$459.04
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.08 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$201.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3751	1.3.1.2.1.5	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$178.35	\$1,367.35
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3752	1.3.1.2.1.5	Controller	LLNL	M&S	1	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$756.00	\$713.40	\$5,469.40
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3753	1.3.1.2.1.5	Controller	LLNL	ED&I	1	0.08 wks	\$0.00	\$0.00	\$201.60	\$201.60	\$197.57	\$59.88	\$459.04
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.08 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$201.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3754	1.3.1.2.1.5	Install electrical	LLNL	B&H	2	0.15 wks	\$0.00	\$0.00	\$318.00	\$318.00	\$311.64	\$157.41	\$787.05
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.15 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$318.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3755	1.3.1.2.1.5	Install (mech) and test	LLNL	B&H	2	0.3 wks	\$0.00	\$0.00	\$624.00	\$624.00	\$611.52	\$308.88	\$1,544.40
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$624.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
3756	1.3.1.2.1.6	Spools	LLNL		0	0.3 wks	\$0.00	\$500.00	\$668.00	\$1,168.00	\$749.14	\$369.94	\$2,287.08
3757	1.3.1.2.1.6	Hardware	LLNL	ED&I	1	0.1 wks	\$0.00	\$0.00	\$252.00	\$252.00	\$246.96	\$74.84	\$573.80
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.1 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$252.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3758	1.3.1.2.1.6	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$500.00	\$0.00	\$500.00	\$94.50	\$89.18	\$683.68
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>500</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$500.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3759	1.3.1.2.1.6	Installation	LLNL	B&H	2	0.2 wks	\$0.00	\$0.00	\$416.00	\$416.00	\$407.68	\$205.92	\$1,029.60
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$416.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3760	1.3.1.2.1.7	Turbo pumps 500/s	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3761	1.3.1.2.1.7	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3762	1.3.1.2.1.7	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3763	1.3.1.2.1.7	Controller	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3764	1.3.1.2.1.7	Controller	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3765	1.3.1.2.1.7	Install electrical	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3766	1.3.1.2.1.7	Install (mech) and test	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3767	1.3.1.2.1.8	Stands	LLNL		0	2.8 wks	\$0.00	\$12,000.00	\$6,176.00	\$18,176.00	\$8,320.48	\$5,626.20	\$32,122.68
3768	1.3.1.2.1.8	Hardware	LLNL	ED&I	0	0.8 wks	\$0.00	\$0.00	\$2,016.00	\$2,016.00	\$1,975.68	\$0.00	\$3,991.68
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,016.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3769	1.3.1.2.1.8	Hardware	LLNL	M&S	2	0 wks	\$0.00	\$12,000.00	\$0.00	\$12,000.00	\$2,268.00	\$3,567.00	\$17,835.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>12,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3770	1.3.1.2.1.8	Installation	LLNL	B&H	2	2 wks	\$0.00	\$0.00	\$4,160.00	\$4,160.00	\$4,076.80	\$2,059.20	\$10,296.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3771	1.3.1.2.1.9	Fast close valve & seat (1)	LLNL		0	5 wks	\$0.00	\$32,000.00	\$10,960.00	\$42,960.00	\$16,788.80	\$10,633.44	\$70,382.24
3772	1.3.1.2.1.9	Valve and sensors	LLNL	M&S	1	0 wks	\$0.00	\$32,000.00	\$0.00	\$32,000.00	\$6,048.00	\$5,707.20	\$43,755.20
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>32,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$32,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3773	1.3.1.2.1.9	Valve and sensors	LLNL	ED&I	1	1 wk	\$0.00	\$0.00	\$2,520.00	\$2,520.00	\$2,469.60	\$748.44	\$5,738.04
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3774	1.3.1.2.1.9	Assly & Test	LLNL	B&H	2	1 wk	\$0.00	\$0.00	\$2,080.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3775	1.3.1.2.1.9	Elect install	LLNL	B&H	2	3 wks	\$0.00	\$0.00	\$6,360.00	\$6,360.00	\$6,232.80	\$3,148.20	\$15,741.00
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,360.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3776	1.3.1.2.2	Electron Dump			0	4.56 wks	\$0.00	\$45,000.00	\$9,771.20	\$54,771.20	\$18,080.78	\$12,558.13	\$85,410.10
3777	1.3.1.2.2.1	Isolation valve	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3778	1.3.1.2.2.1	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3779	1.3.1.2.2.1	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3780	1.3.1.2.2.1	Install & test	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
3781	1.3.1.2.2.1	Elect inst	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3782	1.3.1.2.2.2	Isolation valve-Be	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3783	1.3.1.2.2.2	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3784	1.3.1.2.2.2	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3785	1.3.1.2.2.2	Assemble, install & test	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3786	1.3.1.2.2.2	Elect inst	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3787	1.3.1.2.2.3	Vacuum piping	LLNL		0	0.75 wks	\$0.00	\$2,000.00	\$1,626.00	\$3,626.00	\$1,971.48	\$1,086.73	\$6,684.21
3788	1.3.1.2.2.3	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$378.00	\$356.70	\$2,734.70
		LLNL M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
3789	1.3.1.2.2.3	Hardware	LLNL	ED&I	1	0.15 wks	\$0.00	\$0.00	\$378.00	\$378.00	\$370.44	\$112.27	\$860.71
		LLNL PCD:Coordinator Associate		ED&I	0	0.15 wks	\$0.00	\$0.00	\$0.00	\$378.00	\$0.00	\$0.00	\$0.00
3790	1.3.1.2.2.3	Install & test	LLNL	B&H	2	0.6 wks	\$0.00	\$0.00	\$1,248.00	\$1,248.00	\$1,223.04	\$617.76	\$3,088.80
		LLNL Mech. Fab: Assembly Tech		B&H	0	0.6 wks	\$0.00	\$0.00	\$0.00	\$1,248.00	\$0.00	\$0.00	\$0.00
3791	1.3.1.2.2.4	Ion pumps	LLNL		0	1.2 wks	\$0.00	\$38,000.00	\$2,640.00	\$40,640.00	\$9,769.20	\$7,934.41	\$58,343.61
3792	1.3.1.2.2.4	Hardware	LLNL	ED&I	1	0.15 wks	\$0.00	\$0.00	\$378.00	\$378.00	\$370.44	\$112.27	\$860.71
		LLNL PCD:Coordinator Associate		ED&I	0	0.15 wks	\$0.00	\$0.00	\$0.00	\$378.00	\$0.00	\$0.00	\$0.00
3793	1.3.1.2.2.4	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$22,000.00	\$0.00	\$22,000.00	\$4,158.00	\$3,923.70	\$30,081.70
		LLNL M&S Total		M&S	0	22,000	\$0.00	\$0.00	\$0.00	\$22,000.00	\$0.00	\$0.00	\$0.00
3794	1.3.1.2.2.4	Controller	LLNL	M&S	1	0 wks	\$0.00	\$16,000.00	\$0.00	\$16,000.00	\$3,024.00	\$2,853.60	\$21,877.60
		LLNL M&S Total		M&S	0	16,000	\$0.00	\$0.00	\$0.00	\$16,000.00	\$0.00	\$0.00	\$0.00
3795	1.3.1.2.2.4	Controller	LLNL	ED&I	1	0.15 wks	\$0.00	\$0.00	\$378.00	\$378.00	\$370.44	\$112.27	\$860.71
		LLNL PCD:Coordinator Associate		ED&I	0	0.15 wks	\$0.00	\$0.00	\$0.00	\$378.00	\$0.00	\$0.00	\$0.00
3796	1.3.1.2.2.4	Install electrical	LLNL	B&H	2	0.3 wks	\$0.00	\$0.00	\$636.00	\$636.00	\$623.28	\$314.82	\$1,574.10
		LLNL Controls: Technician		B&H	0	0.3 wks	\$0.00	\$0.00	\$0.00	\$636.00	\$0.00	\$0.00	\$0.00
3797	1.3.1.2.2.4	Install (mech) and test	LLNL	B&H	2	0.6 wks	\$0.00	\$0.00	\$1,248.00	\$1,248.00	\$1,223.04	\$617.76	\$3,088.80
		LLNL Mech. Fab: Assembly Tech		B&H	0	0.6 wks	\$0.00	\$0.00	\$0.00	\$1,248.00	\$0.00	\$0.00	\$0.00
3798	1.3.1.2.2.5	Ion gauges	LLNL		0	0.61 wks	\$0.00	\$5,000.00	\$1,345.20	\$6,345.20	\$2,263.30	\$1,477.79	\$10,086.29
3799	1.3.1.2.2.5	Hardware	LLNL	ED&I	1	0.08 wks	\$0.00	\$0.00	\$201.60	\$201.60	\$197.57	\$59.88	\$459.04
		LLNL PCD:Coordinator Associate		ED&I	0	0.08 wks	\$0.00	\$0.00	\$0.00	\$201.60	\$0.00	\$0.00	\$0.00
3800	1.3.1.2.2.5	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$178.35	\$1,367.35
		LLNL M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
3801	1.3.1.2.2.5	Controller	LLNL	M&S	1	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$756.00	\$713.40	\$5,469.40
		LLNL M&S Total		M&S	0	4,000	\$0.00	\$0.00	\$0.00	\$4,000.00	\$0.00	\$0.00	\$0.00
3802	1.3.1.2.2.5	Controller	LLNL	ED&I	1	0.08 wks	\$0.00	\$0.00	\$201.60	\$201.60	\$197.57	\$59.88	\$459.04
		LLNL PCD:Coordinator Associate		ED&I	0	0.08 wks	\$0.00	\$0.00	\$0.00	\$201.60	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
3803	1.3.1.2.2.5	Install electrical	LLNL	B&H	2	0.15 wks	\$0.00	\$0.00	\$318.00	\$318.00	\$311.64	\$157.41	\$787.05
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.15 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$318.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3804	1.3.1.2.2.5	Install (mech) and test	LLNL	B&H	2	0.3 wks	\$0.00	\$0.00	\$624.00	\$624.00	\$611.52	\$308.88	\$1,544.40
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$624.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3805	1.3.1.2.2.6	Spools	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3806	1.3.1.2.2.6	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3807	1.3.1.2.2.6	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3808	1.3.1.2.2.6	Installation	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3809	1.3.1.2.2.7	Turbo pumps 500l/s	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3810	1.3.1.2.2.7	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3811	1.3.1.2.2.7	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3812	1.3.1.2.2.7	Controller	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3813	1.3.1.2.2.7	Controller	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3814	1.3.1.2.2.7	Install electrical	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3815	1.3.1.2.2.7	Install (mech) and test	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3816	1.3.1.2.2.8	Stands	LLNL		0	2 wks	\$0.00	\$0.00	\$4,160.00	\$4,160.00	\$4,076.80	\$2,059.20	\$10,296.00
3817	1.3.1.2.2.8	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3818	1.3.1.2.2.8	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3819	1.3.1.2.2.8	Installation	LLNL	B&H	2	2 wks	\$0.00	\$0.00	\$4,160.00	\$4,160.00	\$4,076.80	\$2,059.20	\$10,296.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3820	1.3.1.2.3	Hutch A1			0	10.26 wks	\$0.00	\$72,001.00	\$22,479.20	\$94,480.20	\$35,637.81	\$25,423.59	\$155,541.59
3821	1.3.1.2.3.1	Isolation valve	LLNL		0	0.9 wks	\$0.00	\$4,000.00	\$2,100.00	\$6,100.00	\$2,814.00	\$1,752.90	\$10,666.90
3822	1.3.1.2.3.1	Hardware	LLNL	ED&I	2	0.5 wks	\$0.00	\$0.00	\$1,260.00	\$1,260.00	\$1,234.80	\$623.70	\$3,118.50
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,260.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3823	1.3.1.2.3.1	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$756.00	\$713.40	\$5,469.40
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3824	1.3.1.2.3.1	Install & test	LLNL	B&H	2	0.2 wks	\$0.00	\$0.00	\$416.00	\$416.00	\$407.68	\$205.92	\$1,029.60
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$416.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3825	1.3.1.2.3.1	Elect inst	LLNL	B&H	2	0.2 wks	\$0.00	\$0.00	\$424.00	\$424.00	\$415.52	\$209.88	\$1,049.40
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$424.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3826	1.3.1.2.3.2	Isolation valve-Be	LLNL		0	0.8 wks	\$0.00	\$1.00	\$1,760.00	\$1,761.00	\$1,724.99	\$606.67	\$4,092.66
3827	1.3.1.2.3.2	Hardware	LLNL	M&S	0	0 wks	\$0.00	\$1.00	\$0.00	\$1.00	\$0.19	\$0.00	\$1.19
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3828	1.3.1.2.3.2	Hardware	LLNL	ED&I	1	0.2 wks	\$0.00	\$0.00	\$504.00	\$504.00	\$493.92	\$149.69	\$1,147.61
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
3829	1.3.1.2.3.2	Assemble, install & test	LLNL	B&H	1	0.4 wks	\$0.00	\$0.00	\$832.00	\$832.00	\$815.36	\$247.10	\$1,894.46
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$832.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3830	1.3.1.2.3.2	Elect inst	LLNL	B&H	2	0.2 wks	\$0.00	\$0.00	\$424.00	\$424.00	\$415.52	\$209.88	\$1,049.40
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$424.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3831	1.3.1.2.3.3	Vacuum piping	LLNL		0	0.75 wks	\$0.00	\$2,000.00	\$1,626.00	\$3,626.00	\$1,971.48	\$1,086.73	\$6,684.21
3832	1.3.1.2.3.3	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$378.00	\$356.70	\$2,734.70
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3833	1.3.1.2.3.3	Hardware	LLNL	ED&I	1	0.15 wks	\$0.00	\$0.00	\$378.00	\$378.00	\$370.44	\$112.27	\$860.71
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.15 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$378.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3834	1.3.1.2.3.3	Install & test	LLNL	B&H	2	0.6 wks	\$0.00	\$0.00	\$1,248.00	\$1,248.00	\$1,223.04	\$617.76	\$3,088.80
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,248.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3835	1.3.1.2.3.4	Ion pumps	LLNL		0	1.2 wks	\$0.00	\$38,000.00	\$2,640.00	\$40,640.00	\$9,769.20	\$7,561.38	\$57,970.58
3836	1.3.1.2.3.4	Hardware	LLNL	ED&I	1	0.15 wks	\$0.00	\$0.00	\$378.00	\$378.00	\$370.44	\$112.27	\$860.71
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.15 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$378.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3837	1.3.1.2.3.4	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$22,000.00	\$0.00	\$22,000.00	\$4,158.00	\$3,923.70	\$30,081.70
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>22,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$22,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3838	1.3.1.2.3.4	Controller	LLNL	M&S	1	0 wks	\$0.00	\$16,000.00	\$0.00	\$16,000.00	\$3,024.00	\$2,853.60	\$21,877.60
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>16,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$16,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3839	1.3.1.2.3.4	Controller	LLNL	ED&I	1	0.15 wks	\$0.00	\$0.00	\$378.00	\$378.00	\$370.44	\$112.27	\$860.71
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.15 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$378.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3840	1.3.1.2.3.4	Install electrical	LLNL	B&H	1	0.3 wks	\$0.00	\$0.00	\$636.00	\$636.00	\$623.28	\$188.89	\$1,448.17
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$636.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3841	1.3.1.2.3.4	Install (mech) and test	LLNL	B&H	1	0.6 wks	\$0.00	\$0.00	\$1,248.00	\$1,248.00	\$1,223.04	\$370.66	\$2,841.70
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,248.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3842	1.3.1.2.3.5	Ion gauges	LLNL		0	0.61 wks	\$0.00	\$5,000.00	\$1,345.20	\$6,345.20	\$2,263.30	\$1,477.79	\$10,086.29
3843	1.3.1.2.3.5	Hardware	LLNL	ED&I	1	0.08 wks	\$0.00	\$0.00	\$201.60	\$201.60	\$197.57	\$59.88	\$459.04
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.08 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$201.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3844	1.3.1.2.3.5	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$178.35	\$1,367.35
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3845	1.3.1.2.3.5	Controller	LLNL	M&S	1	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$756.00	\$713.40	\$5,469.40
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3846	1.3.1.2.3.5	Controller	LLNL	ED&I	1	0.08 wks	\$0.00	\$0.00	\$201.60	\$201.60	\$197.57	\$59.88	\$459.04
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.08 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$201.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3847	1.3.1.2.3.5	Install electrical	LLNL	B&H	2	0.15 wks	\$0.00	\$0.00	\$318.00	\$318.00	\$311.64	\$157.41	\$787.05
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.15 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$318.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
3848	1.3.1.2.3.5	Install (mech) and test	LLNL	B&H	2	0.3 wks	\$0.00	\$0.00	\$624.00	\$624.00	\$611.52	\$308.88	\$1,544.40
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$624.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3849	1.3.1.2.3.6	Spools	LLNL		0	1 wk	\$0.00	\$2,000.00	\$2,168.00	\$4,168.00	\$2,502.64	\$1,330.07	\$8,000.71
3850	1.3.1.2.3.6	Hardware	LLNL	ED&I	1	0.2 wks	\$0.00	\$0.00	\$504.00	\$504.00	\$493.92	\$149.69	\$1,147.61
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3851	1.3.1.2.3.6	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$378.00	\$356.70	\$2,734.70
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3852	1.3.1.2.3.6	Installation	LLNL	B&H	2	0.8 wks	\$0.00	\$0.00	\$1,664.00	\$1,664.00	\$1,630.72	\$823.68	\$4,118.40
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,664.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3853	1.3.1.2.3.7	Turbo pumps 500/s	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3854	1.3.1.2.3.7	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3855	1.3.1.2.3.7	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3856	1.3.1.2.3.7	Controller	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3857	1.3.1.2.3.7	Controller	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3858	1.3.1.2.3.7	Install electrical	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3859	1.3.1.2.3.7	Install (mech) and test	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3860	1.3.1.2.3.8	Stands	LLNL		0	5 wks	\$0.00	\$21,000.00	\$10,840.00	\$31,840.00	\$14,592.20	\$11,608.05	\$58,040.25
3861	1.3.1.2.3.8	Hardware	LLNL	ED&I	2	1 wk	\$0.00	\$0.00	\$2,520.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3862	1.3.1.2.3.8	Hardware	LLNL	M&S	2	0 wks	\$0.00	\$21,000.00	\$0.00	\$21,000.00	\$3,969.00	\$6,242.25	\$31,211.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>21,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$21,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3863	1.3.1.2.3.8	Installation	LLNL	B&H	2	4 wks	\$0.00	\$0.00	\$8,320.00	\$8,320.00	\$8,153.60	\$4,118.40	\$20,592.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3864	1.3.1.2.4	Hutch A2			0	6.16 wks	\$0.00	\$64,000.00	\$13,335.20	\$77,335.20	\$25,164.50	\$18,631.37	\$121,131.07
3865	1.3.1.2.4.1	Isolation valve	LLNL		0	0.3 wks	\$0.00	\$2,000.00	\$672.00	\$2,672.00	\$1,036.56	\$689.34	\$4,397.90
3866	1.3.1.2.4.1	Hardware	LLNL	ED&I	2	0.1 wks	\$0.00	\$0.00	\$252.00	\$252.00	\$246.96	\$124.74	\$623.70
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.1 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$252.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3867	1.3.1.2.4.1	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$378.00	\$356.70	\$2,734.70
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3868	1.3.1.2.4.1	Install & test	LLNL	B&H	2	0.1 wks	\$0.00	\$0.00	\$208.00	\$208.00	\$203.84	\$102.96	\$514.80
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.1 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$208.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3869	1.3.1.2.4.1	Elect inst	LLNL	B&H	2	0.1 wks	\$0.00	\$0.00	\$212.00	\$212.00	\$207.76	\$104.94	\$524.70
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.1 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$212.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3870	1.3.1.2.4.2	Isolation valve-Be	LLNL		0	1.2 wks	\$0.00	\$8,000.00	\$2,640.00	\$10,640.00	\$4,099.20	\$2,583.91	\$17,323.11
3871	1.3.1.2.4.2	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$1,512.00	\$1,426.80	\$10,938.80

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3872	1.3.1.2.4.2	Hardware	LLNL	ED&I	1	0.3 wks	\$0.00	\$0.00	\$756.00	\$756.00	\$740.88	\$224.53	\$1,721.41
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$756.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3873	1.3.1.2.4.2	Assemble, install & test	LLNL	B&H	2	0.6 wks	\$0.00	\$0.00	\$1,248.00	\$1,248.00	\$1,223.04	\$617.76	\$3,088.80
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,248.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3874	1.3.1.2.4.2	Elect inst	LLNL	B&H	2	0.3 wks	\$0.00	\$0.00	\$636.00	\$636.00	\$623.28	\$314.82	\$1,574.10
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$636.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3875	1.3.1.2.4.3	Vacuum piping	LLNL		0	0.75 wks	\$0.00	\$2,000.00	\$1,626.00	\$3,626.00	\$1,971.48	\$1,086.73	\$6,684.21
3876	1.3.1.2.4.3	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$378.00	\$356.70	\$2,734.70
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3877	1.3.1.2.4.3	Hardware	LLNL	ED&I	1	0.15 wks	\$0.00	\$0.00	\$378.00	\$378.00	\$370.44	\$112.27	\$860.71
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.15 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$378.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3878	1.3.1.2.4.3	Install & test	LLNL	B&H	2	0.6 wks	\$0.00	\$0.00	\$1,248.00	\$1,248.00	\$1,223.04	\$617.76	\$3,088.80
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,248.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3879	1.3.1.2.4.4	Ion pumps	LLNL		0	1.2 wks	\$0.00	\$38,000.00	\$2,640.00	\$40,640.00	\$9,769.20	\$7,934.41	\$58,343.61
3880	1.3.1.2.4.4	Hardware	LLNL	ED&I	1	0.15 wks	\$0.00	\$0.00	\$378.00	\$378.00	\$370.44	\$112.27	\$860.71
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.15 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$378.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3881	1.3.1.2.4.4	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$22,000.00	\$0.00	\$22,000.00	\$4,158.00	\$3,923.70	\$30,081.70
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>22,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$22,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3882	1.3.1.2.4.4	Controller	LLNL	M&S	1	0 wks	\$0.00	\$16,000.00	\$0.00	\$16,000.00	\$3,024.00	\$2,853.60	\$21,877.60
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>16,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$16,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3883	1.3.1.2.4.4	Controller	LLNL	ED&I	1	0.15 wks	\$0.00	\$0.00	\$378.00	\$378.00	\$370.44	\$112.27	\$860.71
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.15 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$378.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3884	1.3.1.2.4.4	Install electrical	LLNL	B&H	2	0.3 wks	\$0.00	\$0.00	\$636.00	\$636.00	\$623.28	\$314.82	\$1,574.10
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$636.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3885	1.3.1.2.4.4	Install (mech) and test	LLNL	B&H	2	0.6 wks	\$0.00	\$0.00	\$1,248.00	\$1,248.00	\$1,223.04	\$617.76	\$3,088.80
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,248.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3886	1.3.1.2.4.5	Ion gauges	LLNL		0	0.61 wks	\$0.00	\$5,000.00	\$1,345.20	\$6,345.20	\$2,263.30	\$1,477.79	\$10,086.29
3887	1.3.1.2.4.5	Hardware	LLNL	ED&I	1	0.08 wks	\$0.00	\$0.00	\$201.60	\$201.60	\$197.57	\$59.88	\$459.04
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.08 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$201.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3888	1.3.1.2.4.5	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$178.35	\$1,367.35
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3889	1.3.1.2.4.5	Controller	LLNL	M&S	1	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$756.00	\$713.40	\$5,469.40
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3890	1.3.1.2.4.5	Controller	LLNL	ED&I	1	0.08 wks	\$0.00	\$0.00	\$201.60	\$201.60	\$197.57	\$59.88	\$459.04

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.08 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$201.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3891	1.3.1.2.4.5	Install electrical	LLNL	B&H	2	0.15 wks	\$0.00	\$0.00	\$318.00	\$318.00	\$311.64	\$157.41	\$787.05
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.15 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$318.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3892	1.3.1.2.4.5	Install (mech) and test	LLNL	B&H	2	0.3 wks	\$0.00	\$0.00	\$624.00	\$624.00	\$611.52	\$308.88	\$1,544.40
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$624.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3893	1.3.1.2.4.6	Spools	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3894	1.3.1.2.4.6	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3895	1.3.1.2.4.6	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3896	1.3.1.2.4.6	Installation	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3897	1.3.1.2.4.7	Turbo pumps 500/s	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3898	1.3.1.2.4.7	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3899	1.3.1.2.4.7	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3900	1.3.1.2.4.7	Controller	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3901	1.3.1.2.4.7	Controller	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3902	1.3.1.2.4.7	Install electrical	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3903	1.3.1.2.4.7	Install (mech) and test	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3904	1.3.1.2.4.8	Stands	LLNL		0	2.1 wks	\$0.00	\$9,000.00	\$4,412.00	\$13,412.00	\$6,024.76	\$4,859.19	\$24,295.95
3905	1.3.1.2.4.8	Hardware	LLNL	ED&I	2	0.1 wks	\$0.00	\$0.00	\$252.00	\$252.00	\$246.96	\$124.74	\$623.70
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.1 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$252.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3906	1.3.1.2.4.8	Hardware	LLNL	M&S	2	0 wks	\$0.00	\$9,000.00	\$0.00	\$9,000.00	\$1,701.00	\$2,675.25	\$13,376.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>9,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3907	1.3.1.2.4.8	Installation	LLNL	B&H	2	2 wks	\$0.00	\$0.00	\$4,160.00	\$4,160.00	\$4,076.80	\$2,059.20	\$10,296.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3908	1.3.1.2.5	Hutch A3			0	4.66 wks	\$0.00	\$54,000.00	\$10,023.20	\$64,023.20	\$20,028.74	\$15,358.12	\$99,410.05
3909	1.3.1.2.5.1	Isolation valve	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3910	1.3.1.2.5.1	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3911	1.3.1.2.5.1	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3912	1.3.1.2.5.1	Install & test	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3913	1.3.1.2.5.1	Elect inst	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3914	1.3.1.2.5.2	Isolation valve-Be	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3915	1.3.1.2.5.2	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3916	1.3.1.2.5.2	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3917	1.3.1.2.5.2	Assemble, install & test	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3918	1.3.1.2.5.2	Elect inst	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3919	1.3.1.2.5.3	Vacuum piping	LLNL		0	0.75 wks	\$0.00	\$2,000.00	\$1,626.00	\$3,626.00	\$1,971.48	\$1,086.73	\$6,684.21

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
3920	1.3.1.2.5.3	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$378.00	\$356.70	\$2,734.70
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3921	1.3.1.2.5.3	Hardware	LLNL	ED&I	1	0.15 wks	\$0.00	\$0.00	\$378.00	\$378.00	\$370.44	\$112.27	\$860.71
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.15 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$378.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3922	1.3.1.2.5.3	Install & test	LLNL	B&H	2	0.6 wks	\$0.00	\$0.00	\$1,248.00	\$1,248.00	\$1,223.04	\$617.76	\$3,088.80
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,248.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3923	1.3.1.2.5.4	Ion pumps	LLNL		0	1.2 wks	\$0.00	\$38,000.00	\$2,640.00	\$40,640.00	\$9,769.20	\$7,934.41	\$58,343.61
3924	1.3.1.2.5.4	Hardware	LLNL	ED&I	1	0.15 wks	\$0.00	\$0.00	\$378.00	\$378.00	\$370.44	\$112.27	\$860.71
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.15 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$378.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3925	1.3.1.2.5.4	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$22,000.00	\$0.00	\$22,000.00	\$4,158.00	\$3,923.70	\$30,081.70
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>22,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$22,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3926	1.3.1.2.5.4	Controller	LLNL	M&S	1	0 wks	\$0.00	\$16,000.00	\$0.00	\$16,000.00	\$3,024.00	\$2,853.60	\$21,877.60
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>16,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$16,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3927	1.3.1.2.5.4	Controller	LLNL	ED&I	1	0.15 wks	\$0.00	\$0.00	\$378.00	\$378.00	\$370.44	\$112.27	\$860.71
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.15 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$378.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3928	1.3.1.2.5.4	Install electrical	LLNL	B&H	2	0.3 wks	\$0.00	\$0.00	\$636.00	\$636.00	\$623.28	\$314.82	\$1,574.10
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$636.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3929	1.3.1.2.5.4	Install (mech) and test	LLNL	B&H	2	0.6 wks	\$0.00	\$0.00	\$1,248.00	\$1,248.00	\$1,223.04	\$617.76	\$3,088.80
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,248.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3930	1.3.1.2.5.5	Ion gauges	LLNL		0	0.61 wks	\$0.00	\$5,000.00	\$1,345.20	\$6,345.20	\$2,263.30	\$1,477.79	\$10,086.29
3931	1.3.1.2.5.5	Hardware	LLNL	ED&I	1	0.08 wks	\$0.00	\$0.00	\$201.60	\$201.60	\$197.57	\$59.88	\$459.04
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.08 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$201.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3932	1.3.1.2.5.5	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$178.35	\$1,367.35
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3933	1.3.1.2.5.5	Controller	LLNL	M&S	1	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$756.00	\$713.40	\$5,469.40
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3934	1.3.1.2.5.5	Controller	LLNL	ED&I	1	0.08 wks	\$0.00	\$0.00	\$201.60	\$201.60	\$197.57	\$59.88	\$459.04
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.08 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$201.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3935	1.3.1.2.5.5	Install electrical	LLNL	B&H	2	0.15 wks	\$0.00	\$0.00	\$318.00	\$318.00	\$311.64	\$157.41	\$787.05
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.15 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$318.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3936	1.3.1.2.5.5	Install (mech) and test	LLNL	B&H	2	0.3 wks	\$0.00	\$0.00	\$624.00	\$624.00	\$611.52	\$308.88	\$1,544.40
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$624.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3937	1.3.1.2.5.6	Spools	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3938	1.3.1.2.5.6	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3939	1.3.1.2.5.6	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
3940	1.3.1.2.5.6	Installation	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3941	1.3.1.2.5.7	Turbo pumps 500/s	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3942	1.3.1.2.5.7	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3943	1.3.1.2.5.7	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3944	1.3.1.2.5.7	Controller	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3945	1.3.1.2.5.7	Controller	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3946	1.3.1.2.5.7	Install electrical	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3947	1.3.1.2.5.7	Install (mech) and test	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3948	1.3.1.2.5.8	Stands	LLNL		0	2.1 wks	\$0.00	\$9,000.00	\$4,412.00	\$13,412.00	\$6,024.76	\$4,859.19	\$24,295.95
3949	1.3.1.2.5.8	Hardware	LLNL	ED&I	2	0.1 wks	\$0.00	\$0.00	\$252.00	\$252.00	\$246.96	\$124.74	\$623.70
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	0	0.1 wks	\$0.00	\$0.00	\$0.00	\$252.00	\$0.00	\$0.00	\$0.00
3950	1.3.1.2.5.8	Hardware	LLNL	M&S	2	0 wks	\$0.00	\$9,000.00	\$0.00	\$9,000.00	\$1,701.00	\$2,675.25	\$13,376.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	0	9,000	\$0.00	\$0.00	\$0.00	\$9,000.00	\$0.00	\$0.00	\$0.00
3951	1.3.1.2.5.8	Installation	LLNL	B&H	2	2 wks	\$0.00	\$0.00	\$4,160.00	\$4,160.00	\$4,076.80	\$2,059.20	\$10,296.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	2 wks	\$0.00	\$0.00	\$0.00	\$4,160.00	\$0.00	\$0.00	\$0.00
3952	1.3.1.2.6	Hutch A4			0	5.86 wks	\$0.00	\$62,000.00	\$12,663.20	\$74,663.20	\$24,127.94	\$17,942.03	\$116,733.17
3953	1.3.1.2.6.1	Isolation valve	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3954	1.3.1.2.6.1	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3955	1.3.1.2.6.1	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3956	1.3.1.2.6.1	Install & test	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3957	1.3.1.2.6.1	Elect inst	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3958	1.3.1.2.6.2	Isolation valve-Be	LLNL		0	1.2 wks	\$0.00	\$8,000.00	\$2,640.00	\$10,640.00	\$4,099.20	\$2,583.91	\$17,323.11
3959	1.3.1.2.6.2	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$1,512.00	\$1,426.80	\$10,938.80
		<i>LLNL M&S Total</i>		<i>M&S</i>	0	8,000	\$0.00	\$0.00	\$0.00	\$8,000.00	\$0.00	\$0.00	\$0.00
3960	1.3.1.2.6.2	Hardware	LLNL	ED&I	1	0.3 wks	\$0.00	\$0.00	\$756.00	\$756.00	\$740.88	\$224.53	\$1,721.41
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	0	0.3 wks	\$0.00	\$0.00	\$0.00	\$756.00	\$0.00	\$0.00	\$0.00
3961	1.3.1.2.6.2	Assemble, install & test	LLNL	B&H	2	0.6 wks	\$0.00	\$0.00	\$1,248.00	\$1,248.00	\$1,223.04	\$617.76	\$3,088.80
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	0.6 wks	\$0.00	\$0.00	\$0.00	\$1,248.00	\$0.00	\$0.00	\$0.00
3962	1.3.1.2.6.2	Elect inst	LLNL	B&H	2	0.3 wks	\$0.00	\$0.00	\$636.00	\$636.00	\$623.28	\$314.82	\$1,574.10
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	0	0.3 wks	\$0.00	\$0.00	\$0.00	\$636.00	\$0.00	\$0.00	\$0.00
3963	1.3.1.2.6.3	Vacuum piping	LLNL		0	0.75 wks	\$0.00	\$2,000.00	\$1,626.00	\$3,626.00	\$1,971.48	\$1,086.73	\$6,684.21
3964	1.3.1.2.6.3	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$378.00	\$356.70	\$2,734.70
		<i>LLNL M&S Total</i>		<i>M&S</i>	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
3965	1.3.1.2.6.3	Hardware	LLNL	ED&I	1	0.15 wks	\$0.00	\$0.00	\$378.00	\$378.00	\$370.44	\$112.27	\$860.71
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	0	0.15 wks	\$0.00	\$0.00	\$0.00	\$378.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
3966	1.3.1.2.6.3	Install & test	LLNL	B&H	2	0.6 wks	\$0.00	\$0.00	\$1,248.00	\$1,248.00	\$1,223.04	\$617.76	\$3,088.80
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,248.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3967	1.3.1.2.6.4	Ion pumps	LLNL		0	1.2 wks	\$0.00	\$38,000.00	\$2,640.00	\$40,640.00	\$9,769.20	\$7,934.41	\$58,343.61
3968	1.3.1.2.6.4	Hardware	LLNL	ED&I	1	0.15 wks	\$0.00	\$0.00	\$378.00	\$378.00	\$370.44	\$112.27	\$860.71
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.15 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$378.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3969	1.3.1.2.6.4	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$22,000.00	\$0.00	\$22,000.00	\$4,158.00	\$3,923.70	\$30,081.70
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>22,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$22,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3970	1.3.1.2.6.4	Controller	LLNL	M&S	1	0 wks	\$0.00	\$16,000.00	\$0.00	\$16,000.00	\$3,024.00	\$2,853.60	\$21,877.60
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>16,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$16,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3971	1.3.1.2.6.4	Controller	LLNL	ED&I	1	0.15 wks	\$0.00	\$0.00	\$378.00	\$378.00	\$370.44	\$112.27	\$860.71
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.15 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$378.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3972	1.3.1.2.6.4	Install electrical	LLNL	B&H	2	0.3 wks	\$0.00	\$0.00	\$636.00	\$636.00	\$623.28	\$314.82	\$1,574.10
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$636.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3973	1.3.1.2.6.4	Install (mech) and test	LLNL	B&H	2	0.6 wks	\$0.00	\$0.00	\$1,248.00	\$1,248.00	\$1,223.04	\$617.76	\$3,088.80
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,248.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3974	1.3.1.2.6.5	Ion gauges	LLNL		0	0.61 wks	\$0.00	\$5,000.00	\$1,345.20	\$6,345.20	\$2,263.30	\$1,477.79	\$10,086.29
3975	1.3.1.2.6.5	Hardware	LLNL	ED&I	1	0.08 wks	\$0.00	\$0.00	\$201.60	\$201.60	\$197.57	\$59.88	\$459.04
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.08 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$201.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3976	1.3.1.2.6.5	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$178.35	\$1,367.35
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3977	1.3.1.2.6.5	Controller	LLNL	M&S	1	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$756.00	\$713.40	\$5,469.40
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3978	1.3.1.2.6.5	Controller	LLNL	ED&I	1	0.08 wks	\$0.00	\$0.00	\$201.60	\$201.60	\$197.57	\$59.88	\$459.04
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.08 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$201.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3979	1.3.1.2.6.5	Install electrical	LLNL	B&H	2	0.15 wks	\$0.00	\$0.00	\$318.00	\$318.00	\$311.64	\$157.41	\$787.05
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.15 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$318.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3980	1.3.1.2.6.5	Install (mech) and test	LLNL	B&H	2	0.3 wks	\$0.00	\$0.00	\$624.00	\$624.00	\$611.52	\$308.88	\$1,544.40
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$624.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3981	1.3.1.2.6.6	Spools	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3982	1.3.1.2.6.6	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3983	1.3.1.2.6.6	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3984	1.3.1.2.6.6	Installation	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3985	1.3.1.2.6.7	Turbo pumps 500l/s	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3986	1.3.1.2.6.7	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3987	1.3.1.2.6.7	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
3988	1.3.1.2.6.7	Controller	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3989	1.3.1.2.6.7	Controller	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3990	1.3.1.2.6.7	Install electrical	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3991	1.3.1.2.6.7	Install (mech) and test	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3992	1.3.1.2.6.8	Stands	LLNL		0	2.1 wks	\$0.00	\$9,000.00	\$4,412.00	\$13,412.00	\$6,024.76	\$4,859.19	\$24,295.95
3993	1.3.1.2.6.8	Hardware	LLNL	ED&I	2	0.1 wks	\$0.00	\$0.00	\$252.00	\$252.00	\$246.96	\$124.74	\$623.70
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	0	<i>0.1 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$252.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3994	1.3.1.2.6.8	Hardware	LLNL	M&S	2	0 wks	\$0.00	\$9,000.00	\$0.00	\$9,000.00	\$1,701.00	\$2,675.25	\$13,376.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	0	<i>9,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3995	1.3.1.2.6.8	Installation	LLNL	B&H	2	2 wks	\$0.00	\$0.00	\$4,160.00	\$4,160.00	\$4,076.80	\$2,059.20	\$10,296.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3996	1.3.1.2.7	Tunnel			0	63.6 wks	\$0.00	\$713,500.00	\$137,816.00	\$851,316.00	\$269,911.18	\$206,054.77	\$1,327,281.95
3997	1.3.1.2.7.1	Isolation valve	LLNL		0	0.6 wks	\$0.00	\$4,000.00	\$1,344.00	\$5,344.00	\$2,073.12	\$1,378.68	\$8,795.80
3998	1.3.1.2.7.1	Hardware	LLNL	ED&I	2	0.2 wks	\$0.00	\$0.00	\$504.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	0	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
3999	1.3.1.2.7.1	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$756.00	\$713.40	\$5,469.40
		<i>LLNL M&S Total</i>		<i>M&S</i>	0	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4000	1.3.1.2.7.1	Install & test	LLNL	B&H	2	0.2 wks	\$0.00	\$0.00	\$416.00	\$416.00	\$407.68	\$205.92	\$1,029.60
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$416.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4001	1.3.1.2.7.1	Elect inst	LLNL	B&H	2	0.2 wks	\$0.00	\$0.00	\$424.00	\$424.00	\$415.52	\$209.88	\$1,049.40
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	0	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$424.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4002	1.3.1.2.7.2	Isolation valve-Be	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4003	1.3.1.2.7.2	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4004	1.3.1.2.7.2	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4005	1.3.1.2.7.2	Assemble, install & test	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4006	1.3.1.2.7.2	Elect inst	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4007	1.3.1.2.7.3	Vacuum piping	LLNL		0	10 wks	\$0.00	\$20,000.00	\$21,680.00	\$41,680.00	\$25,026.40	\$13,300.68	\$80,007.08
4008	1.3.1.2.7.3	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$20,000.00	\$0.00	\$20,000.00	\$3,780.00	\$3,567.00	\$27,347.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	0	<i>20,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$20,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4009	1.3.1.2.7.3	Hardware	LLNL	ED&I	1	2 wks	\$0.00	\$0.00	\$5,040.00	\$5,040.00	\$4,939.20	\$1,496.88	\$11,476.08
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	0	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,040.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4010	1.3.1.2.7.3	Install & test	LLNL	B&H	2	8 wks	\$0.00	\$0.00	\$16,640.00	\$16,640.00	\$16,307.20	\$8,236.80	\$41,184.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$16,640.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4011	1.3.1.2.7.4	Ion pumps	LLNL		0	16 wks	\$0.00	\$500,000.00	\$35,200.00	\$535,200.00	\$128,996.00	\$104,603.16	\$768,799.16
4012	1.3.1.2.7.4	Hardware	LLNL	ED&I	1	2 wks	\$0.00	\$0.00	\$5,040.00	\$5,040.00	\$4,939.20	\$1,496.88	\$11,476.08

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,040.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4013	1.3.1.2.7.4	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$288,000.00	\$0.00	\$288,000.00	\$54,432.00	\$51,364.80	\$393,796.80
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>288,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$288,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4014	1.3.1.2.7.4	Controller	LLNL	M&S	1	0 wks	\$0.00	\$212,000.00	\$0.00	\$212,000.00	\$40,068.00	\$37,810.20	\$289,878.20
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>212,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$212,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4015	1.3.1.2.7.4	Controller	LLNL	ED&I	1	2 wks	\$0.00	\$0.00	\$5,040.00	\$5,040.00	\$4,939.20	\$1,496.88	\$11,476.08
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,040.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4016	1.3.1.2.7.4	Install electrical	LLNL	B&H	2	4 wks	\$0.00	\$0.00	\$8,480.00	\$8,480.00	\$8,310.40	\$4,197.60	\$20,988.00
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,480.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4017	1.3.1.2.7.4	Install (mech) and test	LLNL	B&H	2	8 wks	\$0.00	\$0.00	\$16,640.00	\$16,640.00	\$16,307.20	\$8,236.80	\$41,184.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$16,640.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4018	1.3.1.2.7.5	Ion gauges	LLNL		0	8 wks	\$0.00	\$66,000.00	\$17,600.00	\$83,600.00	\$29,722.00	\$19,485.18	\$132,807.18
4019	1.3.1.2.7.5	Hardware	LLNL	ED&I	1	1 wk	\$0.00	\$0.00	\$2,520.00	\$2,520.00	\$2,469.60	\$748.44	\$5,738.04
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4020	1.3.1.2.7.5	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$18,000.00	\$0.00	\$18,000.00	\$3,402.00	\$3,210.30	\$24,612.30
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>18,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$18,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4021	1.3.1.2.7.5	Controller	LLNL	M&S	1	0 wks	\$0.00	\$48,000.00	\$0.00	\$48,000.00	\$9,072.00	\$8,560.80	\$65,632.80
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>48,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$48,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4022	1.3.1.2.7.5	Controller	LLNL	ED&I	1	1 wk	\$0.00	\$0.00	\$2,520.00	\$2,520.00	\$2,469.60	\$748.44	\$5,738.04
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4023	1.3.1.2.7.5	Install electrical	LLNL	B&H	2	2 wks	\$0.00	\$0.00	\$4,240.00	\$4,240.00	\$4,155.20	\$2,098.80	\$10,494.00
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,240.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4024	1.3.1.2.7.5	Install (mech) and test	LLNL	B&H	2	4 wks	\$0.00	\$0.00	\$8,320.00	\$8,320.00	\$8,153.60	\$4,118.40	\$20,592.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4025	1.3.1.2.7.6	Spools	LLNL		0	0.3 wks	\$0.00	\$500.00	\$668.00	\$1,168.00	\$749.14	\$369.94	\$2,287.08
4026	1.3.1.2.7.6	Hardware	LLNL	ED&I	1	0.1 wks	\$0.00	\$0.00	\$252.00	\$252.00	\$246.96	\$74.84	\$573.80
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.1 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$252.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4027	1.3.1.2.7.6	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$500.00	\$0.00	\$500.00	\$94.50	\$89.18	\$683.68
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>500</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$500.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4028	1.3.1.2.7.6	Installation	LLNL	B&H	2	0.2 wks	\$0.00	\$0.00	\$416.00	\$416.00	\$407.68	\$205.92	\$1,029.60
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$416.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4029	1.3.1.2.7.7	Turbo pumps 500/s	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4030	1.3.1.2.7.7	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4031	1.3.1.2.7.7	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4032	1.3.1.2.7.7	Controller	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
4033	1.3.1.2.7.7	Controller	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4034	1.3.1.2.7.7	Install electrical	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4035	1.3.1.2.7.7	Install (mech) and test	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4036	1.3.1.2.7.8	Stands	LLNL		0	28.7 wks	\$0.00	\$123,000.00	\$61,324.00	\$184,324.00	\$83,344.52	\$66,917.13	\$334,585.65
4037	1.3.1.2.7.8	Hardware	LLNL	ED&I	2	3.7 wks	\$0.00	\$0.00	\$9,324.00	\$9,324.00	\$9,137.52	\$4,615.38	\$23,076.90
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	0	3.7 wks	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,324.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4038	1.3.1.2.7.8	Hardware	LLNL	M&S	2	0 wks	\$0.00	\$123,000.00	\$0.00	\$123,000.00	\$23,247.00	\$36,561.75	\$182,808.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	0	<i>123,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$123,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4039	1.3.1.2.7.8	Installation	LLNL	B&H	2	25 wks	\$0.00	\$0.00	\$52,000.00	\$52,000.00	\$50,960.00	\$25,740.00	\$128,700.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	25 wks	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$52,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4040	1.3.1.2.8	Hutch B1			0	9.76 wks	\$0.00	\$75,000.00	\$21,307.20	\$96,307.20	\$35,056.06	\$14,408.01	\$145,771.26
4041	1.3.1.2.8.1	Isolation valve	LLNL		0	1.2 wks	\$0.00	\$7,000.00	\$2,688.00	\$9,688.00	\$3,957.24	\$2,579.01	\$16,224.25
4042	1.3.1.2.8.1	Hardware	LLNL	ED&I	2	0.4 wks	\$0.00	\$0.00	\$1,008.00	\$1,008.00	\$987.84	\$498.96	\$2,494.80
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	0	0.4 wks	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,008.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4043	1.3.1.2.8.1	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$1,323.00	\$1,248.45	\$9,571.45
		<i>LLNL M&S Total</i>		<i>M&S</i>	0	<i>7,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4044	1.3.1.2.8.1	Install & test	LLNL	B&H	2	0.4 wks	\$0.00	\$0.00	\$832.00	\$832.00	\$815.36	\$411.84	\$2,059.20
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	0.4 wks	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$832.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4045	1.3.1.2.8.1	Elect inst	LLNL	B&H	2	0.4 wks	\$0.00	\$0.00	\$848.00	\$848.00	\$831.04	\$419.76	\$2,098.80
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	0	0.4 wks	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$848.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4046	1.3.1.2.8.2	Isolation valve-Be	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4047	1.3.1.2.8.2	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4048	1.3.1.2.8.2	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4049	1.3.1.2.8.2	Assemble, install & test	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4050	1.3.1.2.8.2	Elect inst	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4051	1.3.1.2.8.3	Vacuum piping	LLNL		0	0.75 wks	\$0.00	\$2,000.00	\$1,626.00	\$3,626.00	\$1,971.48	\$1,086.73	\$6,684.21
4052	1.3.1.2.8.3	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$378.00	\$356.70	\$2,734.70
		<i>LLNL M&S Total</i>		<i>M&S</i>	0	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4053	1.3.1.2.8.3	Hardware	LLNL	ED&I	1	0.15 wks	\$0.00	\$0.00	\$378.00	\$378.00	\$370.44	\$112.27	\$860.71
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	0	0.15 wks	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$378.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4054	1.3.1.2.8.3	Install & test	LLNL	B&H	2	0.6 wks	\$0.00	\$0.00	\$1,248.00	\$1,248.00	\$1,223.04	\$617.76	\$3,088.80
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	0.6 wks	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,248.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4055	1.3.1.2.8.4	Ion pumps	LLNL		0	1.2 wks	\$0.00	\$38,000.00	\$2,640.00	\$40,640.00	\$9,769.20	\$7,934.41	\$58,343.61
4056	1.3.1.2.8.4	Hardware	LLNL	ED&I	1	0.15 wks	\$0.00	\$0.00	\$378.00	\$378.00	\$370.44	\$112.27	\$860.71
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	0	0.15 wks	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$378.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
4057	1.3.1.2.8.4	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$22,000.00	\$0.00	\$22,000.00	\$4,158.00	\$3,923.70	\$30,081.70
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>22,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$22,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4058	1.3.1.2.8.4	Controller	LLNL	M&S	1	0 wks	\$0.00	\$16,000.00	\$0.00	\$16,000.00	\$3,024.00	\$2,853.60	\$21,877.60
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>16,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$16,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4059	1.3.1.2.8.4	Controller	LLNL	ED&I	1	0.15 wks	\$0.00	\$0.00	\$378.00	\$378.00	\$370.44	\$112.27	\$860.71
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.15 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$378.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4060	1.3.1.2.8.4	Install electrical	LLNL	B&H	2	0.3 wks	\$0.00	\$0.00	\$636.00	\$636.00	\$623.28	\$314.82	\$1,574.10
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$636.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4061	1.3.1.2.8.4	Install (mech) and test	LLNL	B&H	2	0.6 wks	\$0.00	\$0.00	\$1,248.00	\$1,248.00	\$1,223.04	\$617.76	\$3,088.80
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,248.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4062	1.3.1.2.8.5	Ion gauges	LLNL		0	0.61 wks	\$0.00	\$5,000.00	\$1,345.20	\$6,345.20	\$2,263.30	\$1,477.79	\$10,086.29
4063	1.3.1.2.8.5	Hardware	LLNL	ED&I	1	0.08 wks	\$0.00	\$0.00	\$201.60	\$201.60	\$197.57	\$59.88	\$459.04
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.08 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$201.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4064	1.3.1.2.8.5	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$178.35	\$1,367.35
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4065	1.3.1.2.8.5	Controller	LLNL	M&S	1	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$756.00	\$713.40	\$5,469.40
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4066	1.3.1.2.8.5	Controller	LLNL	ED&I	1	0.08 wks	\$0.00	\$0.00	\$201.60	\$201.60	\$197.57	\$59.88	\$459.04
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.08 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$201.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4067	1.3.1.2.8.5	Install electrical	LLNL	B&H	2	0.15 wks	\$0.00	\$0.00	\$318.00	\$318.00	\$311.64	\$157.41	\$787.05
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.15 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$318.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4068	1.3.1.2.8.5	Install (mech) and test	LLNL	B&H	2	0.3 wks	\$0.00	\$0.00	\$624.00	\$624.00	\$611.52	\$308.88	\$1,544.40
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$624.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4069	1.3.1.2.8.6	Spools	LLNL		0	1 wk	\$0.00	\$2,000.00	\$2,168.00	\$4,168.00	\$2,502.64	\$1,330.07	\$8,000.71
4070	1.3.1.2.8.6	Hardware	LLNL	ED&I	1	0.2 wks	\$0.00	\$0.00	\$504.00	\$504.00	\$493.92	\$149.69	\$1,147.61
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4071	1.3.1.2.8.6	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$378.00	\$356.70	\$2,734.70
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4072	1.3.1.2.8.6	Installation	LLNL	B&H	2	0.8 wks	\$0.00	\$0.00	\$1,664.00	\$1,664.00	\$1,630.72	\$823.68	\$4,118.40
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,664.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4073	1.3.1.2.8.7	Turbo pumps 500/s	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4074	1.3.1.2.8.7	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4075	1.3.1.2.8.7	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4076	1.3.1.2.8.7	Controller	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4077	1.3.1.2.8.7	Controller	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
4078	1.3.1.2.8.7	Install electrical	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4079	1.3.1.2.8.7	Install (mech) and test	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4080	1.3.1.2.8.8	Stands	LLNL		0	5 wks	\$0.00	\$21,000.00	\$10,840.00	\$31,840.00	\$14,592.20	\$0.00	\$46,432.20
4081	1.3.1.2.8.8	Hardware	LLNL	ED&I	0	1 wk	\$0.00	\$0.00	\$2,520.00	\$2,520.00	\$2,469.60	\$0.00	\$4,989.60
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	0	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4082	1.3.1.2.8.8	Hardware	LLNL	M&S	0	0 wks	\$0.00	\$21,000.00	\$0.00	\$21,000.00	\$3,969.00	\$0.00	\$24,969.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	0	<i>21,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$21,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4083	1.3.1.2.8.8	Installation	LLNL	B&H	0	4 wks	\$0.00	\$0.00	\$8,320.00	\$8,320.00	\$8,153.60	\$0.00	\$16,473.60
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4084	1.3.1.2.9	Hutch B2			0	6.16 wks	\$0.00	\$64,000.00	\$13,335.20	\$77,335.20	\$25,164.50	\$18,631.37	\$121,131.07
4085	1.3.1.2.9.1	Isolation valve	LLNL		0	0.3 wks	\$0.00	\$2,000.00	\$672.00	\$2,672.00	\$1,036.56	\$689.34	\$4,397.90
4086	1.3.1.2.9.1	Hardware	LLNL	ED&I	2	0.1 wks	\$0.00	\$0.00	\$252.00	\$252.00	\$246.96	\$124.74	\$623.70
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	0	<i>0.1 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$252.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4087	1.3.1.2.9.1	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$378.00	\$356.70	\$2,734.70
		<i>LLNL M&S Total</i>		<i>M&S</i>	0	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4088	1.3.1.2.9.1	Install & test	LLNL	B&H	2	0.1 wks	\$0.00	\$0.00	\$208.00	\$208.00	\$203.84	\$102.96	\$514.80
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	<i>0.1 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$208.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4089	1.3.1.2.9.1	Elect inst	LLNL	B&H	2	0.1 wks	\$0.00	\$0.00	\$212.00	\$212.00	\$207.76	\$104.94	\$524.70
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	0	<i>0.1 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$212.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4090	1.3.1.2.9.2	Isolation valve-Be	LLNL		0	1.2 wks	\$0.00	\$8,000.00	\$2,640.00	\$10,640.00	\$4,099.20	\$2,583.91	\$17,323.11
4091	1.3.1.2.9.2	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$1,512.00	\$1,426.80	\$10,938.80
		<i>LLNL M&S Total</i>		<i>M&S</i>	0	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4092	1.3.1.2.9.2	Hardware	LLNL	ED&I	1	0.3 wks	\$0.00	\$0.00	\$756.00	\$756.00	\$740.88	\$224.53	\$1,721.41
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	0	<i>0.3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$756.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4093	1.3.1.2.9.2	Assemble, install & test	LLNL	B&H	2	0.6 wks	\$0.00	\$0.00	\$1,248.00	\$1,248.00	\$1,223.04	\$617.76	\$3,088.80
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,248.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4094	1.3.1.2.9.2	Elect inst	LLNL	B&H	2	0.3 wks	\$0.00	\$0.00	\$636.00	\$636.00	\$623.28	\$314.82	\$1,574.10
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	0	<i>0.3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$636.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4095	1.3.1.2.9.3	Vacuum piping	LLNL		0	0.75 wks	\$0.00	\$2,000.00	\$1,626.00	\$3,626.00	\$1,971.48	\$1,086.73	\$6,684.21
4096	1.3.1.2.9.3	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$378.00	\$356.70	\$2,734.70
		<i>LLNL M&S Total</i>		<i>M&S</i>	0	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4097	1.3.1.2.9.3	Hardware	LLNL	ED&I	1	0.15 wks	\$0.00	\$0.00	\$378.00	\$378.00	\$370.44	\$112.27	\$860.71
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	0	<i>0.15 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$378.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4098	1.3.1.2.9.3	Install & test	LLNL	B&H	2	0.6 wks	\$0.00	\$0.00	\$1,248.00	\$1,248.00	\$1,223.04	\$617.76	\$3,088.80
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,248.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
4099	1.3.1.2.9.4	Ion pumps	LLNL		0	1.2 wks	\$0.00	\$38,000.00	\$2,640.00	\$40,640.00	\$9,769.20	\$7,934.41	\$58,343.61
4100	1.3.1.2.9.4	Hardware	LLNL	ED&I	1	0.15 wks	\$0.00	\$0.00	\$378.00	\$378.00	\$370.44	\$112.27	\$860.71
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.15 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$378.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4101	1.3.1.2.9.4	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$22,000.00	\$0.00	\$22,000.00	\$4,158.00	\$3,923.70	\$30,081.70
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>22,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$22,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4102	1.3.1.2.9.4	Controller	LLNL	M&S	1	0 wks	\$0.00	\$16,000.00	\$0.00	\$16,000.00	\$3,024.00	\$2,853.60	\$21,877.60
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>16,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$16,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4103	1.3.1.2.9.4	Controller	LLNL	ED&I	1	0.15 wks	\$0.00	\$0.00	\$378.00	\$378.00	\$370.44	\$112.27	\$860.71
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.15 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$378.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4104	1.3.1.2.9.4	Install electrical	LLNL	B&H	2	0.3 wks	\$0.00	\$0.00	\$636.00	\$636.00	\$623.28	\$314.82	\$1,574.10
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$636.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4105	1.3.1.2.9.4	Install (mech) and test	LLNL	B&H	2	0.6 wks	\$0.00	\$0.00	\$1,248.00	\$1,248.00	\$1,223.04	\$617.76	\$3,088.80
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,248.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4106	1.3.1.2.9.5	Ion gauges	LLNL		0	0.61 wks	\$0.00	\$5,000.00	\$1,345.20	\$6,345.20	\$2,263.30	\$1,477.79	\$10,086.29
4107	1.3.1.2.9.5	Hardware	LLNL	ED&I	1	0.08 wks	\$0.00	\$0.00	\$201.60	\$201.60	\$197.57	\$59.88	\$459.04
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.08 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$201.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4108	1.3.1.2.9.5	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$178.35	\$1,367.35
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4109	1.3.1.2.9.5	Controller	LLNL	M&S	1	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$756.00	\$713.40	\$5,469.40
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4110	1.3.1.2.9.5	Controller	LLNL	ED&I	1	0.08 wks	\$0.00	\$0.00	\$201.60	\$201.60	\$197.57	\$59.88	\$459.04
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.08 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$201.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4111	1.3.1.2.9.5	Install electrical	LLNL	B&H	2	0.15 wks	\$0.00	\$0.00	\$318.00	\$318.00	\$311.64	\$157.41	\$787.05
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.15 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$318.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4112	1.3.1.2.9.5	Install (mech) and test	LLNL	B&H	2	0.3 wks	\$0.00	\$0.00	\$624.00	\$624.00	\$611.52	\$308.88	\$1,544.40
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$624.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4113	1.3.1.2.9.6	Spools	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4114	1.3.1.2.9.6	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4115	1.3.1.2.9.6	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4116	1.3.1.2.9.6	Installation	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4117	1.3.1.2.9.7	Turbo pumps 500l/s	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4118	1.3.1.2.9.7	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4119	1.3.1.2.9.7	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4120	1.3.1.2.9.7	Controller	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4121	1.3.1.2.9.7	Controller	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
4122	1.3.1.2.9.7	Install electrical	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4123	1.3.1.2.9.7	Install (mech) and test	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4124	1.3.1.2.9.8	Stands	LLNL		0	2.1 wks	\$0.00	\$9,000.00	\$4,412.00	\$13,412.00	\$6,024.76	\$4,859.19	\$24,295.95
4125	1.3.1.2.9.8	Hardware	LLNL	ED&I	2	0.1 wks	\$0.00	\$0.00	\$252.00	\$252.00	\$246.96	\$124.74	\$623.70
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.1 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$252.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4126	1.3.1.2.9.8	Hardware	LLNL	M&S	2	0 wks	\$0.00	\$9,000.00	\$0.00	\$9,000.00	\$1,701.00	\$2,675.25	\$13,376.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>9,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4127	1.3.1.2.9.8	Installation	LLNL	B&H	2	2 wks	\$0.00	\$0.00	\$4,160.00	\$4,160.00	\$4,076.80	\$2,059.20	\$10,296.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4128	1.3.1.2.10	Hutch B3 Totals			0	19.51 wks	\$0.00	\$54,000.00	\$47,445.20	\$101,445.20	\$56,702.30	\$26,463.15	\$184,610.64
4129	1.3.1.2.10.1	Isolation valve	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4130	1.3.1.2.10.1	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4131	1.3.1.2.10.1	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4132	1.3.1.2.10.1	Install & test	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4133	1.3.1.2.10.1	Elect inst	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4134	1.3.1.2.10.2	Isolation valve-Be	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4135	1.3.1.2.10.2	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4136	1.3.1.2.10.2	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4137	1.3.1.2.10.2	Assemble, install & test	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4138	1.3.1.2.10.2	Elect inst	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4139	1.3.1.2.10.3	Vacuum piping	LLNL		0	15.6 wks	\$0.00	\$2,000.00	\$39,048.00	\$41,048.00	\$38,645.04	\$12,191.76	\$91,884.80
4140	1.3.1.2.10.3	Hardware	LLNL	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$378.00	\$594.50	\$2,972.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4141	1.3.1.2.10.3	Hardware	LLNL	ED&I	1	15 wks	\$0.00	\$0.00	\$37,800.00	\$37,800.00	\$37,044.00	\$11,226.60	\$86,070.60
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>15 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$37,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4142	1.3.1.2.10.3	Install & test	LLNL	B&H	1	0.6 wks	\$0.00	\$0.00	\$1,248.00	\$1,248.00	\$1,223.04	\$370.66	\$2,841.70
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,248.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4143	1.3.1.2.10.4	Ion pumps	LLNL		0	1.2 wks	\$0.00	\$38,000.00	\$2,640.00	\$40,640.00	\$9,769.20	\$7,934.41	\$58,343.61
4144	1.3.1.2.10.4	Hardware	LLNL	ED&I	1	0.15 wks	\$0.00	\$0.00	\$378.00	\$378.00	\$370.44	\$112.27	\$860.71
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.15 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$378.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4145	1.3.1.2.10.4	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$22,000.00	\$0.00	\$22,000.00	\$4,158.00	\$3,923.70	\$30,081.70
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>22,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$22,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4146	1.3.1.2.10.4	Controller	LLNL	M&S	1	0 wks	\$0.00	\$16,000.00	\$0.00	\$16,000.00	\$3,024.00	\$2,853.60	\$21,877.60
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>16,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$16,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4147	1.3.1.2.10.4	Controller	LLNL	ED&I	1	0.15 wks	\$0.00	\$0.00	\$378.00	\$378.00	\$370.44	\$112.27	\$860.71

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.15 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$378.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4148	1.3.1.2.10.4	Install electrical	LLNL	B&H	2	0.3 wks	\$0.00	\$0.00	\$636.00	\$636.00	\$623.28	\$314.82	\$1,574.10
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$636.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4149	1.3.1.2.10.4	Install (mech) and test	LLNL	B&H	2	0.6 wks	\$0.00	\$0.00	\$1,248.00	\$1,248.00	\$1,223.04	\$617.76	\$3,088.80
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,248.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4150	1.3.1.2.10.5	Ion gauges	LLNL		0	0.61 wks	\$0.00	\$5,000.00	\$1,345.20	\$6,345.20	\$2,263.30	\$1,477.79	\$10,086.29
4151	1.3.1.2.10.5	Hardware	LLNL	ED&I	1	0.08 wks	\$0.00	\$0.00	\$201.60	\$201.60	\$197.57	\$59.88	\$459.04
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.08 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$201.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4152	1.3.1.2.10.5	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$178.35	\$1,367.35
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4153	1.3.1.2.10.5	Controller	LLNL	M&S	1	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$756.00	\$713.40	\$5,469.40
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4154	1.3.1.2.10.5	Controller	LLNL	ED&I	1	0.08 wks	\$0.00	\$0.00	\$201.60	\$201.60	\$197.57	\$59.88	\$459.04
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.08 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$201.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4155	1.3.1.2.10.5	Install electrical	LLNL	B&H	2	0.15 wks	\$0.00	\$0.00	\$318.00	\$318.00	\$311.64	\$157.41	\$787.05
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.15 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$318.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4156	1.3.1.2.10.5	Install (mech) and test	LLNL	B&H	2	0.3 wks	\$0.00	\$0.00	\$624.00	\$624.00	\$611.52	\$308.88	\$1,544.40
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$624.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4157	1.3.1.2.10.6	Spools	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4158	1.3.1.2.10.6	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4159	1.3.1.2.10.6	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4160	1.3.1.2.10.6	Installation	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4161	1.3.1.2.10.7	Turbo pumps 500l/s	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4162	1.3.1.2.10.7	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4163	1.3.1.2.10.7	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4164	1.3.1.2.10.7	Controller	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4165	1.3.1.2.10.7	Controller	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4166	1.3.1.2.10.7	Install electrical	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4167	1.3.1.2.10.7	Install (mech) and test	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4168	1.3.1.2.10.8	Stands	LLNL		0	2.1 wks	\$0.00	\$9,000.00	\$4,412.00	\$13,412.00	\$6,024.76	\$4,859.19	\$24,295.95
4169	1.3.1.2.10.8	Hardware	LLNL	ED&I	2	0.1 wks	\$0.00	\$0.00	\$252.00	\$252.00	\$246.96	\$124.74	\$623.70
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.1 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$252.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4170	1.3.1.2.10.8	Hardware	LLNL	M&S	2	0 wks	\$0.00	\$9,000.00	\$0.00	\$9,000.00	\$1,701.00	\$2,675.25	\$13,376.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>9,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4171	1.3.1.2.10.8	Installation	LLNL	B&H	2	2 wks	\$0.00	\$0.00	\$4,160.00	\$4,160.00	\$4,076.80	\$2,059.20	\$10,296.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4172	1.3.1.2.11	Hutch B4 totals			0	6.56 wks	\$0.00	\$63,000.00	\$14,471.20	\$77,471.20	\$26,088.78	\$19,471.83	\$123,031.81
4173	1.3.1.2.11.1	Isolation valve	LLNL		0	0.9 wks	\$0.00	\$5,000.00	\$2,016.00	\$7,016.00	\$2,920.68	\$1,889.67	\$11,826.35
4174	1.3.1.2.11.1	Hardware	LLNL	ED&I	2	0.3 wks	\$0.00	\$0.00	\$756.00	\$756.00	\$740.88	\$374.22	\$1,871.10
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$756.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4175	1.3.1.2.11.1	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$945.00	\$891.75	\$6,836.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4176	1.3.1.2.11.1	Install & test	LLNL	B&H	2	0.3 wks	\$0.00	\$0.00	\$624.00	\$624.00	\$611.52	\$308.88	\$1,544.40
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$624.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4177	1.3.1.2.11.1	Elect inst	LLNL	B&H	2	0.3 wks	\$0.00	\$0.00	\$636.00	\$636.00	\$623.28	\$314.82	\$1,574.10
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$636.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4178	1.3.1.2.11.2	Isolation valve-Be	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4179	1.3.1.2.11.2	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4180	1.3.1.2.11.2	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4181	1.3.1.2.11.2	Assemble, install & test	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4182	1.3.1.2.11.2	Elect inst	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4183	1.3.1.2.11.3	Vacuum piping	LLNL		0	0.75 wks	\$0.00	\$2,000.00	\$1,626.00	\$3,626.00	\$1,971.48	\$1,086.73	\$6,684.21
4184	1.3.1.2.11.3	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$378.00	\$356.70	\$2,734.70
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4185	1.3.1.2.11.3	Hardware	LLNL	ED&I	1	0.15 wks	\$0.00	\$0.00	\$378.00	\$378.00	\$370.44	\$112.27	\$860.71
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.15 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$378.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4186	1.3.1.2.11.3	Install & test	LLNL	B&H	2	0.6 wks	\$0.00	\$0.00	\$1,248.00	\$1,248.00	\$1,223.04	\$617.76	\$3,088.80
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,248.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4187	1.3.1.2.11.4	Ion pumps	LLNL		0	1.2 wks	\$0.00	\$38,000.00	\$2,640.00	\$40,640.00	\$9,769.20	\$7,934.41	\$58,343.61
4188	1.3.1.2.11.4	Hardware	LLNL	ED&I	1	0.15 wks	\$0.00	\$0.00	\$378.00	\$378.00	\$370.44	\$112.27	\$860.71
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.15 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$378.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4189	1.3.1.2.11.4	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$22,000.00	\$0.00	\$22,000.00	\$4,158.00	\$3,923.70	\$30,081.70
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>22,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$22,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4190	1.3.1.2.11.4	Controller	LLNL	M&S	1	0 wks	\$0.00	\$16,000.00	\$0.00	\$16,000.00	\$3,024.00	\$2,853.60	\$21,877.60
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>16,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$16,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4191	1.3.1.2.11.4	Controller	LLNL	ED&I	1	0.15 wks	\$0.00	\$0.00	\$378.00	\$378.00	\$370.44	\$112.27	\$860.71
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.15 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$378.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4192	1.3.1.2.11.4	Install electrical	LLNL	B&H	2	0.3 wks	\$0.00	\$0.00	\$636.00	\$636.00	\$623.28	\$314.82	\$1,574.10
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$636.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4193	1.3.1.2.11.4	Install (mech) and test	LLNL	B&H	2	0.6 wks	\$0.00	\$0.00	\$1,248.00	\$1,248.00	\$1,223.04	\$617.76	\$3,088.80

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,248.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4194	1.3.1.2.11.5	Ion gauges	LLNL		0	0.61 wks	\$0.00	\$5,000.00	\$1,345.20	\$6,345.20	\$2,263.30	\$1,477.79	\$10,086.29
4195	1.3.1.2.11.5	Hardware	LLNL	ED&I	1	0.08 wks	\$0.00	\$0.00	\$201.60	\$201.60	\$197.57	\$59.88	\$459.04
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.08 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$201.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4196	1.3.1.2.11.5	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$178.35	\$1,367.35
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4197	1.3.1.2.11.5	Controller	LLNL	M&S	1	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$756.00	\$713.40	\$5,469.40
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4198	1.3.1.2.11.5	Controller	LLNL	ED&I	1	0.08 wks	\$0.00	\$0.00	\$201.60	\$201.60	\$197.57	\$59.88	\$459.04
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.08 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$201.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4199	1.3.1.2.11.5	Install electrical	LLNL	B&H	2	0.15 wks	\$0.00	\$0.00	\$318.00	\$318.00	\$311.64	\$157.41	\$787.05
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.15 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$318.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4200	1.3.1.2.11.5	Install (mech) and test	LLNL	B&H	2	0.3 wks	\$0.00	\$0.00	\$624.00	\$624.00	\$611.52	\$308.88	\$1,544.40
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$624.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4201	1.3.1.2.11.6	Spools	LLNL		0	0.3 wks	\$0.00	\$1,000.00	\$668.00	\$1,668.00	\$843.64	\$459.11	\$2,970.75
4202	1.3.1.2.11.6	Hardware	LLNL	ED&I	1	0.1 wks	\$0.00	\$0.00	\$252.00	\$252.00	\$246.96	\$74.84	\$573.80
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.1 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$252.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4203	1.3.1.2.11.6	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$178.35	\$1,367.35
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4204	1.3.1.2.11.6	Installation	LLNL	B&H	2	0.2 wks	\$0.00	\$0.00	\$416.00	\$416.00	\$407.68	\$205.92	\$1,029.60
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$416.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4205	1.3.1.2.11.7	Turbo pumps 500l/s	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4206	1.3.1.2.11.7	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4207	1.3.1.2.11.7	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4208	1.3.1.2.11.7	Controller	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4209	1.3.1.2.11.7	Controller	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4210	1.3.1.2.11.7	Install electrical	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4211	1.3.1.2.11.7	Install (mech) and test	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4212	1.3.1.2.11.8	Stands	LLNL		0	2.8 wks	\$0.00	\$12,000.00	\$6,176.00	\$18,176.00	\$8,320.48	\$6,624.12	\$33,120.60
4213	1.3.1.2.11.8	Hardware	LLNL	ED&I	2	0.8 wks	\$0.00	\$0.00	\$2,016.00	\$2,016.00	\$1,975.68	\$997.92	\$4,989.60
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,016.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4214	1.3.1.2.11.8	Hardware	LLNL	M&S	2	0 wks	\$0.00	\$12,000.00	\$0.00	\$12,000.00	\$2,268.00	\$3,567.00	\$17,835.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>12,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4215	1.3.1.2.11.8	Installation	LLNL	B&H	2	2 wks	\$0.00	\$0.00	\$4,160.00	\$4,160.00	\$4,076.80	\$2,059.20	\$10,296.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
4216	1.3.1.2.12	Vac/Mech Systems			0	32 wks	\$0.00	\$80,000.00	\$68,880.00	\$148,880.00	\$82,622.40	\$57,875.60	\$289,378.00
4217	1.3.1.2.12.1	Isolation valve-w/ Be window	LLNL		0	5 wks	\$0.00	\$10,000.00	\$10,840.00	\$20,840.00	\$12,513.20	\$8,338.30	\$41,691.50
4218	1.3.1.2.12.1	Prototype Hardware	LLNL	ED&I	2	1 wk	\$0.00	\$0.00	\$2,520.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL PCD:Engineer</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,520.00	\$0.00	\$0.00	\$0.00
4219	1.3.1.2.12.1	Prototype Hardware	LLNL	M&S	2	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$1,890.00	\$2,972.50	\$14,862.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	0	10,000	\$0.00	\$0.00	\$0.00	\$10,000.00	\$0.00	\$0.00	\$0.00
4220	1.3.1.2.12.1	Characterization	LLNL	B&H	2	4 wks	\$0.00	\$0.00	\$8,320.00	\$8,320.00	\$8,153.60	\$4,118.40	\$20,592.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	4 wks	\$0.00	\$0.00	\$0.00	\$8,320.00	\$0.00	\$0.00	\$0.00
4221	1.3.1.2.12.2	Stands	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4222	1.3.1.2.12.2	Spec	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4223	1.3.1.2.12.2	Engr & Safety note	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4224	1.3.1.2.12.2	Design	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4225	1.3.1.2.12.3	Vacuum systems-Elect/controls	LLNL		0	27 wks	\$0.00	\$70,000.00	\$58,040.00	\$128,040.00	\$70,109.20	\$49,537.30	\$247,686.50
4226	1.3.1.2.12.3	Hardware/software	LLNL	M&S	2	0 wks	\$0.00	\$70,000.00	\$0.00	\$70,000.00	\$13,230.00	\$20,807.50	\$104,037.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	0	70,000	\$0.00	\$0.00	\$0.00	\$70,000.00	\$0.00	\$0.00	\$0.00
4227	1.3.1.2.12.3	Hardware/software	LLNL	ED&I	2	2 wks	\$0.00	\$0.00	\$5,040.00	\$5,040.00	\$4,939.20	\$2,494.80	\$12,474.00
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	0	2 wks	\$0.00	\$0.00	\$0.00	\$5,040.00	\$0.00	\$0.00	\$0.00
4228	1.3.1.2.12.3	Electr. Install	LLNL	B&H	2	25 wks	\$0.00	\$0.00	\$53,000.00	\$53,000.00	\$51,940.00	\$26,235.00	\$131,175.00
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	0	25 wks	\$0.00	\$0.00	\$0.00	\$53,000.00	\$0.00	\$0.00	\$0.00
4229	1.3.1.3	Facility Optical Systems			0	5,308.5 wks	\$0.00	\$1,924,000.00	\$733,652.00	\$2,657,652.00	\$1,082,614.96	\$740,274.49	\$4,480,541.45
4230	1.3.1.3.1	Fixed Mask			0	7.5 wks	\$0.00	\$26,000.00	\$15,600.00	\$41,600.00	\$20,202.00	\$15,450.50	\$77,252.50
4231	1.3.1.3.1.1	Mask	LLNL		0	0 wks	\$0.00	\$13,000.00	\$0.00	\$13,000.00	\$2,457.00	\$3,864.25	\$19,321.25
4232	1.3.1.3.1.1	Hardware	LLNL	M&S	2	0 wks	\$0.00	\$13,000.00	\$0.00	\$13,000.00	\$2,457.00	\$3,864.25	\$19,321.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	0	13,000	\$0.00	\$0.00	\$0.00	\$13,000.00	\$0.00	\$0.00	\$0.00
4233	1.3.1.3.1.2	Integ & Test	LLNL		0	2.5 wks	\$0.00	\$0.00	\$5,200.00	\$5,200.00	\$5,096.00	\$2,574.00	\$12,870.00
4234	1.3.1.3.1.2	Bench Assembly	LLNL	B&H	2	0.5 wks	\$0.00	\$0.00	\$1,040.00	\$1,040.00	\$1,019.20	\$514.80	\$2,574.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	0.5 wks	\$0.00	\$0.00	\$0.00	\$1,040.00	\$0.00	\$0.00	\$0.00
4235	1.3.1.3.1.2	Perform Test	LLNL	B&H	2	1 wk	\$0.00	\$0.00	\$2,080.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,080.00	\$0.00	\$0.00	\$0.00
4236	1.3.1.3.1.2	Beamline install	LLNL	B&H	2	1 wk	\$0.00	\$0.00	\$2,080.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,080.00	\$0.00	\$0.00	\$0.00
4237	1.3.1.3.1.3	Mask	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4238	1.3.1.3.1.3	Hardware	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4239	1.3.1.3.1.4	Integ & Test	LLNL		2	2.5 wks	\$0.00	\$0.00	\$5,200.00	\$5,200.00	\$5,096.00	\$2,574.00	\$12,870.00
4240	1.3.1.3.1.4	Bench Assembly	LLNL	B&H	2	0.5 wks	\$0.00	\$0.00	\$1,040.00	\$1,040.00	\$1,019.20	\$514.80	\$2,574.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,040.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4241	1.3.1.3.1.4	Perform Test	LLNL	B&H	2	1 wk	\$0.00	\$0.00	\$2,080.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4242	1.3.1.3.1.4	Beamline install	LLNL	B&H	2	1 wk	\$0.00	\$0.00	\$2,080.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4243	1.3.1.3.1.5	Mask	LLNL		2	0 wks	\$0.00	\$13,000.00	\$0.00	\$13,000.00	\$2,457.00	\$3,864.25	\$19,321.25
4244	1.3.1.3.1.5	Hardware	LLNL	M&S	2	0 wks	\$0.00	\$13,000.00	\$0.00	\$13,000.00	\$2,457.00	\$3,864.25	\$19,321.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>13,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4245	1.3.1.3.1.6	Integ & Test	LLNL		0	2.5 wks	\$0.00	\$0.00	\$5,200.00	\$5,200.00	\$5,096.00	\$2,574.00	\$12,870.00
4246	1.3.1.3.1.6	Bench Assembly	LLNL	B&H	2	0.5 wks	\$0.00	\$0.00	\$1,040.00	\$1,040.00	\$1,019.20	\$514.80	\$2,574.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,040.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4247	1.3.1.3.1.6	Perform Test	LLNL	B&H	2	1 wk	\$0.00	\$0.00	\$2,080.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4248	1.3.1.3.1.6	Beamline install	LLNL	B&H	2	1 wk	\$0.00	\$0.00	\$2,080.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4249	1.3.1.3.2	Slits/Collimator A			0	46.2 wks	\$0.00	\$224,000.00	\$118,584.00	\$342,584.00	\$158,548.32	\$86,587.64	\$587,719.96
4250	1.3.1.3.2.1	Precision Motion	LLNL		0	6.5 wks	\$0.00	\$32,000.00	\$21,900.00	\$53,900.00	\$27,510.00	\$0.00	\$81,410.00
4251	1.3.1.3.2.1	Hardware	LLNL	M&S	0	0 wks	\$0.00	\$32,000.00	\$0.00	\$32,000.00	\$6,048.00	\$0.00	\$38,048.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>32,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$32,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4252	1.3.1.3.2.1	Hardware	LLNL	ED&I	0	0.5 wks	\$0.00	\$0.00	\$1,260.00	\$1,260.00	\$1,234.80	\$0.00	\$2,494.80
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,260.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4253	1.3.1.3.2.1	Assly & Test	LLNL	B&H	0	6 wks	\$0.00	\$0.00	\$20,640.00	\$20,640.00	\$20,227.20	\$0.00	\$40,867.20
		<i>LLNL Precision Crafts (mach/tech)</i>		<i>B&H</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$20,640.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4254	1.3.1.3.2.2	Jaws	LLNL		0	10 wks	\$0.00	\$48,000.00	\$19,040.00	\$67,040.00	\$27,731.20	\$23,692.80	\$118,464.00
4255	1.3.1.3.2.2	Hardware	LLNL	M&S	2	0 wks	\$0.00	\$48,000.00	\$0.00	\$48,000.00	\$9,072.00	\$14,268.00	\$71,340.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>48,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$48,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4256	1.3.1.3.2.2	Characterization	LLNL	ED&I	2	8 wks	\$0.00	\$0.00	\$12,160.00	\$12,160.00	\$11,916.80	\$6,019.20	\$30,096.00
		<i>LLNL Physicist - Post Doc</i>		<i>ED&I</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4257	1.3.1.3.2.2	Characterization	LLNL	ED&I	2	2 wks	\$0.00	\$0.00	\$6,880.00	\$6,880.00	\$6,742.40	\$3,405.60	\$17,028.00
		<i>LLNL Precision Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,880.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4258	1.3.1.3.2.3	Controls & Elect	LLNL		0	3.2 wks	\$0.00	\$23,000.00	\$6,864.00	\$29,864.00	\$11,073.72	\$10,234.43	\$51,172.15
4259	1.3.1.3.2.3	Hardware	LLNL	M&S	2	0 wks	\$0.00	\$23,000.00	\$0.00	\$23,000.00	\$4,347.00	\$6,836.75	\$34,183.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>23,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$23,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4260	1.3.1.3.2.3	Hardware	LLNL	ED&I	2	0.2 wks	\$0.00	\$0.00	\$504.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
4261	1.3.1.3.2.3	Assly & Test	LLNL	B&H	2	3 wks	\$0.00	\$0.00	\$6,360.00	\$6,360.00	\$6,232.80	\$3,148.20	\$15,741.00
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,360.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4262	1.3.1.3.2.4	Integ & Test	LLNL		0	17 wks	\$0.00	\$0.00	\$50,800.00	\$50,800.00	\$49,784.00	\$25,146.00	\$125,730.00
4263	1.3.1.3.2.4	Bench Assembly	LLNL	B&H	2	3 wks	\$0.00	\$0.00	\$10,320.00	\$10,320.00	\$10,113.60	\$5,108.40	\$25,542.00
		<i>LLNL Precision Crafts (mach/tech)</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4264	1.3.1.3.2.4	Perform Test	LLNL	B&H	2	3 wks	\$0.00	\$0.00	\$10,320.00	\$10,320.00	\$10,113.60	\$5,108.40	\$25,542.00
		<i>LLNL Precision Crafts (mach/tech)</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4265	1.3.1.3.2.4	Beamline install	LLNL	B&H	2	3 wks	\$0.00	\$0.00	\$10,320.00	\$10,320.00	\$10,113.60	\$5,108.40	\$25,542.00
		<i>LLNL Precision Crafts (mach/tech)</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4266	1.3.1.3.2.4	Beamline test	LLNL	ED&I	2	4 wks	\$0.00	\$0.00	\$6,080.00	\$6,080.00	\$5,958.40	\$3,009.60	\$15,048.00
		<i>LLNL Physicist - Post Doc</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4267	1.3.1.3.2.4	Beamline test	LLNL	ED&I	2	4 wks	\$0.00	\$0.00	\$13,760.00	\$13,760.00	\$13,484.80	\$6,811.20	\$34,056.00
		<i>LLNL Precision Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,760.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4268	1.3.1.3.2.5	Tank	LLNL		0	4.1 wks	\$0.00	\$40,000.00	\$8,572.00	\$48,572.00	\$15,960.56	\$9,679.88	\$74,212.44
4269	1.3.1.3.2.5	Fabrication	LLNL	M&S	1	0 wks	\$0.00	\$30,000.00	\$0.00	\$30,000.00	\$5,670.00	\$5,350.50	\$41,020.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>30,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$30,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4270	1.3.1.3.2.5	Fabrication	LLNL	ED&I	1	0.1 wks	\$0.00	\$0.00	\$252.00	\$252.00	\$246.96	\$74.84	\$573.80
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.1 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$252.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4271	1.3.1.3.2.5	Accept. Test	LLNL	M&S	1	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$1,890.00	\$1,783.50	\$13,673.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4272	1.3.1.3.2.5	Installation	LLNL	B&H	1	4 wks	\$0.00	\$0.00	\$8,320.00	\$8,320.00	\$8,153.60	\$2,471.04	\$18,944.64
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4273	1.3.1.3.2.6	Vacuum	LLNL		0	4.2 wks	\$0.00	\$71,000.00	\$8,824.00	\$79,824.00	\$22,066.52	\$15,283.58	\$117,174.10
4274	1.3.1.3.2.6	Pumps	LLNL	M&S	1	0 wks	\$0.00	\$57,000.00	\$0.00	\$57,000.00	\$10,773.00	\$10,165.95	\$77,938.95
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>57,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$57,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4275	1.3.1.3.2.6	Pumps	LLNL	ED&I	1	0.2 wks	\$0.00	\$0.00	\$504.00	\$504.00	\$493.92	\$149.69	\$1,147.61
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4276	1.3.1.3.2.6	Gauges	LLNL	M&S	1	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$1,134.00	\$1,070.10	\$8,204.10
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4277	1.3.1.3.2.6	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$1,512.00	\$1,426.80	\$10,938.80
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4278	1.3.1.3.2.6	Installation	LLNL	B&H	1	1 wk	\$0.00	\$0.00	\$2,080.00	\$2,080.00	\$2,038.40	\$617.76	\$4,736.16
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4279	1.3.1.3.2.6	Leak check	LLNL	B&H	1	3 wks	\$0.00	\$0.00	\$6,240.00	\$6,240.00	\$6,115.20	\$1,853.28	\$14,208.48
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,240.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
4280	1.3.1.3.2.7	Stand	LLNL		0	1.2 wks	\$0.00	\$10,000.00	\$2,584.00	\$12,584.00	\$4,422.32	\$2,550.95	\$19,557.27
4281	1.3.1.3.2.7	Fabrication	LLNL	M&S	1	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$1,890.00	\$1,783.50	\$13,673.50
		<i>LLNL M&S Total</i>		M&S	0	10,000	\$0.00	\$0.00	\$0.00	\$10,000.00	\$0.00	\$0.00	\$0.00
4282	1.3.1.3.2.7	Fabrication	LLNL	ED&I	1	0.2 wks	\$0.00	\$0.00	\$504.00	\$504.00	\$493.92	\$149.69	\$1,147.61
		<i>LLNL PCD:Coordinator Associate</i>		ED&I	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$504.00	\$0.00	\$0.00	\$0.00
4283	1.3.1.3.2.7	Installation	LLNL	B&H	1	1 wk	\$0.00	\$0.00	\$2,080.00	\$2,080.00	\$2,038.40	\$617.76	\$4,736.16
		<i>LLNL Mech. Fab: Assembly Tech</i>		B&H	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,080.00	\$0.00	\$0.00	\$0.00
4284	1.3.1.3.3	Slits/Collimator B			0	43.8 wks	\$0.00	\$279,000.00	\$113,680.00	\$392,680.00	\$164,137.40	\$121,832.40	\$678,649.80
4285	1.3.1.3.3.1	Precision Motion	LLNL		0	6.5 wks	\$0.00	\$64,000.00	\$21,900.00	\$85,900.00	\$33,558.00	\$29,864.50	\$149,322.50
4286	1.3.1.3.3.1	Hardware	LLNL	M&S	2	0 wks	\$0.00	\$64,000.00	\$0.00	\$64,000.00	\$12,096.00	\$19,024.00	\$95,120.00
		<i>LLNL M&S Total</i>		M&S	0	64,000	\$0.00	\$0.00	\$0.00	\$64,000.00	\$0.00	\$0.00	\$0.00
4287	1.3.1.3.3.1	Hardware	LLNL	ED&I	2	0.5 wks	\$0.00	\$0.00	\$1,260.00	\$1,260.00	\$1,234.80	\$623.70	\$3,118.50
		<i>LLNL PCD:Coordinator Associate</i>		ED&I	0	0.5 wks	\$0.00	\$0.00	\$0.00	\$1,260.00	\$0.00	\$0.00	\$0.00
4288	1.3.1.3.3.1	Assly & Test	LLNL	B&H	2	6 wks	\$0.00	\$0.00	\$20,640.00	\$20,640.00	\$20,227.20	\$10,216.80	\$51,084.00
		<i>LLNL Precision Crafts (mach/tech)</i>		B&H	0	6 wks	\$0.00	\$0.00	\$0.00	\$20,640.00	\$0.00	\$0.00	\$0.00
4289	1.3.1.3.3.2	Jaws	LLNL		0	10 wks	\$0.00	\$48,000.00	\$19,040.00	\$67,040.00	\$27,731.20	\$23,692.80	\$118,464.00
4290	1.3.1.3.3.2	Hardware	LLNL	M&S	2	0 wks	\$0.00	\$48,000.00	\$0.00	\$48,000.00	\$9,072.00	\$14,268.00	\$71,340.00
		<i>LLNL M&S Total</i>		M&S	0	48,000	\$0.00	\$0.00	\$0.00	\$48,000.00	\$0.00	\$0.00	\$0.00
4291	1.3.1.3.3.2	Characterization	LLNL	ED&I	2	8 wks	\$0.00	\$0.00	\$12,160.00	\$12,160.00	\$11,916.80	\$6,019.20	\$30,096.00
		<i>LLNL Physicist - Post Doc</i>		ED&I	0	8 wks	\$0.00	\$0.00	\$0.00	\$12,160.00	\$0.00	\$0.00	\$0.00
4292	1.3.1.3.3.2	Characterization	LLNL	ED&I	2	2 wks	\$0.00	\$0.00	\$6,880.00	\$6,880.00	\$6,742.40	\$3,405.60	\$17,028.00
		<i>LLNL Precision Engineer</i>		ED&I	0	2 wks	\$0.00	\$0.00	\$0.00	\$6,880.00	\$0.00	\$0.00	\$0.00
4293	1.3.1.3.3.3	Controls & Elect	LLNL		0	3.2 wks	\$0.00	\$46,000.00	\$6,864.00	\$52,864.00	\$15,420.72	\$17,071.18	\$85,355.90
4294	1.3.1.3.3.3	Hardware	LLNL	M&S	2	0 wks	\$0.00	\$46,000.00	\$0.00	\$46,000.00	\$8,694.00	\$13,673.50	\$68,367.50
		<i>LLNL M&S Total</i>		M&S	0	46,000	\$0.00	\$0.00	\$0.00	\$46,000.00	\$0.00	\$0.00	\$0.00
4295	1.3.1.3.3.3	Hardware	LLNL	ED&I	2	0.2 wks	\$0.00	\$0.00	\$504.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL PCD:Coordinator Associate</i>		ED&I	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$504.00	\$0.00	\$0.00	\$0.00
4296	1.3.1.3.3.3	Assly & Test	LLNL	B&H	2	3 wks	\$0.00	\$0.00	\$6,360.00	\$6,360.00	\$6,232.80	\$3,148.20	\$15,741.00
		<i>LLNL Controls: Technician</i>		B&H	0	3 wks	\$0.00	\$0.00	\$0.00	\$6,360.00	\$0.00	\$0.00	\$0.00
4297	1.3.1.3.3.4	Integ & Test	LLNL		0	17 wks	\$0.00	\$0.00	\$50,800.00	\$50,800.00	\$49,784.00	\$25,146.00	\$125,730.00
4298	1.3.1.3.3.4	Bench Assembly	LLNL	B&H	2	3 wks	\$0.00	\$0.00	\$10,320.00	\$10,320.00	\$10,113.60	\$5,108.40	\$25,542.00
		<i>LLNL Precision Crafts (mach/tech)</i>		B&H	0	3 wks	\$0.00	\$0.00	\$0.00	\$10,320.00	\$0.00	\$0.00	\$0.00
4299	1.3.1.3.3.4	Perform Test	LLNL	B&H	2	3 wks	\$0.00	\$0.00	\$10,320.00	\$10,320.00	\$10,113.60	\$5,108.40	\$25,542.00
		<i>LLNL Precision Crafts (mach/tech)</i>		B&H	0	3 wks	\$0.00	\$0.00	\$0.00	\$10,320.00	\$0.00	\$0.00	\$0.00
4300	1.3.1.3.3.4	Beamline install	LLNL	B&H	2	3 wks	\$0.00	\$0.00	\$10,320.00	\$10,320.00	\$10,113.60	\$5,108.40	\$25,542.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL Precision Crafts (mach/tech)</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4301	1.3.1.3.3.4	Beamline test	LLNL	ED&I	2	4 wks	\$0.00	\$0.00	\$6,080.00	\$6,080.00	\$5,958.40	\$3,009.60	\$15,048.00
		<i>LLNL Physicist - Post Doc</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4302	1.3.1.3.3.4	Beamline test	LLNL	ED&I	2	4 wks	\$0.00	\$0.00	\$13,760.00	\$13,760.00	\$13,484.80	\$6,811.20	\$34,056.00
		<i>LLNL Precision Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,760.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4303	1.3.1.3.3.5	Tank	LLNL		0	4.1 wks	\$0.00	\$40,000.00	\$8,572.00	\$48,572.00	\$15,960.56	\$9,679.88	\$74,212.44
4304	1.3.1.3.3.5	Fabrication	LLNL	M&S	1	0 wks	\$0.00	\$30,000.00	\$0.00	\$30,000.00	\$5,670.00	\$5,350.50	\$41,020.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>30,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$30,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4305	1.3.1.3.3.5	Fabrication	LLNL	ED&I	1	0.1 wks	\$0.00	\$0.00	\$252.00	\$252.00	\$246.96	\$74.84	\$573.80
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.1 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$252.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4306	1.3.1.3.3.5	Accept. Test	LLNL	M&S	1	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$1,890.00	\$1,783.50	\$13,673.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4307	1.3.1.3.3.5	Installation	LLNL	B&H	1	4 wks	\$0.00	\$0.00	\$8,320.00	\$8,320.00	\$8,153.60	\$2,471.04	\$18,944.64
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4308	1.3.1.3.3.6	Vacuum	LLNL		0	1.6 wks	\$0.00	\$71,000.00	\$3,416.00	\$74,416.00	\$16,766.68	\$13,677.40	\$104,860.08
4309	1.3.1.3.3.6	Pumps	LLNL	M&S	1	0 wks	\$0.00	\$57,000.00	\$0.00	\$57,000.00	\$10,773.00	\$10,165.95	\$77,938.95
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>57,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$57,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4310	1.3.1.3.3.6	Pumps	LLNL	ED&I	1	0.2 wks	\$0.00	\$0.00	\$504.00	\$504.00	\$493.92	\$149.69	\$1,147.61
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>1</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4311	1.3.1.3.3.6	Gauges	LLNL	M&S	1	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$1,134.00	\$1,070.10	\$8,204.10
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4312	1.3.1.3.3.6	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$1,512.00	\$1,426.80	\$10,938.80
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4313	1.3.1.3.3.6	Installation	LLNL	B&H	1	0.4 wks	\$0.00	\$0.00	\$832.00	\$832.00	\$815.36	\$247.10	\$1,894.46
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$832.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4314	1.3.1.3.3.6	Leak check	LLNL	B&H	1	1 wk	\$0.00	\$0.00	\$2,080.00	\$2,080.00	\$2,038.40	\$617.76	\$4,736.16
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4315	1.3.1.3.3.7	Stand	LLNL		0	1.4 wks	\$0.00	\$10,000.00	\$3,088.00	\$13,088.00	\$4,916.24	\$2,700.64	\$20,704.88
4316	1.3.1.3.3.7	Fabrication	LLNL	M&S	1	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$1,890.00	\$1,783.50	\$13,673.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4317	1.3.1.3.3.7	Fabrication	LLNL	ED&I	1	0.4 wks	\$0.00	\$0.00	\$1,008.00	\$1,008.00	\$987.84	\$299.38	\$2,295.22
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,008.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4318	1.3.1.3.3.7	Installation	LLNL	B&H	1	1 wk	\$0.00	\$0.00	\$2,080.00	\$2,080.00	\$2,038.40	\$617.76	\$4,736.16
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4319	1.3.1.3.4	Gas Attenuator			0	5,061.5 wks	\$0.00	\$754,000.00	\$135,920.00	\$889,920.00	\$275,707.60	\$186,358.32	\$1,351,985.92

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
4320	1.3.1.3.4.1	Chamber Work Order	LLNL		0	4 wks	\$0.00	\$61,000.00	\$8,320.00	\$69,320.00	\$19,682.60	\$14,997.75	\$104,000.35
4321	1.3.1.3.4.1	Three piece chamber	LLNL	M&S	1	0 wks	\$0.00	\$35,000.00	\$0.00	\$35,000.00	\$6,615.00	\$6,242.25	\$47,857.25
		<i>LLNL M&S Total</i>		M&S	0	35,000	\$0.00	\$0.00	\$0.00	\$35,000.00	\$0.00	\$0.00	\$0.00
4322	1.3.1.3.4.1	Gate Valves 8"	LLNL	M&S	1	0 wks	\$0.00	\$19,000.00	\$0.00	\$19,000.00	\$3,591.00	\$3,388.65	\$25,979.65
		<i>LLNL M&S Total</i>		M&S	0	19,000	\$0.00	\$0.00	\$0.00	\$19,000.00	\$0.00	\$0.00	\$0.00
4323	1.3.1.3.4.1	Gate Valves 4"	LLNL	M&S	1	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$1,323.00	\$1,248.45	\$9,571.45
		<i>LLNL M&S Total</i>		M&S	0	7,000	\$0.00	\$0.00	\$0.00	\$7,000.00	\$0.00	\$0.00	\$0.00
4324	1.3.1.3.4.1	Labor and Assembly	LLNL	B&H	2	4 wks	\$0.00	\$0.00	\$8,320.00	\$8,320.00	\$8,153.60	\$4,118.40	\$20,592.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		B&H	0	4 wks	\$0.00	\$0.00	\$0.00	\$8,320.00	\$0.00	\$0.00	\$0.00
4325	1.3.1.3.4.2	Chamber Venture	LLNL		1	2 wks	\$0.00	\$22,000.00	\$4,160.00	\$26,160.00	\$8,234.80	\$2,059.20	\$36,454.00
4326	1.3.1.3.4.2	Venture	LLNL	M&S	0	0 wks	\$0.00	\$22,000.00	\$0.00	\$22,000.00	\$4,158.00	\$0.00	\$26,158.00
		<i>LLNL M&S Total</i>		M&S	0	22,000	\$0.00	\$0.00	\$0.00	\$22,000.00	\$0.00	\$0.00	\$0.00
4327	1.3.1.3.4.2	Labor and Assembly	LLNL	B&H	2	2 wks	\$0.00	\$0.00	\$4,160.00	\$4,160.00	\$4,076.80	\$2,059.20	\$10,296.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		B&H	0	2 wks	\$0.00	\$0.00	\$0.00	\$4,160.00	\$0.00	\$0.00	\$0.00
4328	1.3.1.3.4.3	Turbo pumps	LLNL		0	3 wks	\$0.00	\$215,000.00	\$6,240.00	\$221,240.00	\$46,750.20	\$41,434.05	\$309,424.25
4329	1.3.1.3.4.3	M261 (2x@8.7K\$)	LLNL	M&S	1	0 wks	\$0.00	\$17,000.00	\$0.00	\$17,000.00	\$3,213.00	\$3,031.95	\$23,244.95
		<i>LLNL M&S Total</i>		M&S	0	17,000	\$0.00	\$0.00	\$0.00	\$17,000.00	\$0.00	\$0.00	\$0.00
4330	1.3.1.3.4.3	M521 (2x@15.9K\$)	LLNL	M&S	1	0 wks	\$0.00	\$32,000.00	\$0.00	\$32,000.00	\$6,048.00	\$5,707.20	\$43,755.20
		<i>LLNL M&S Total</i>		M&S	0	32,000	\$0.00	\$0.00	\$0.00	\$32,000.00	\$0.00	\$0.00	\$0.00
4331	1.3.1.3.4.3	M2101 (4x@34.0K\$)	LLNL	M&S	1	0 wks	\$0.00	\$136,000.00	\$0.00	\$136,000.00	\$25,704.00	\$24,255.60	\$185,959.60
		<i>LLNL M&S Total</i>		M&S	0	136,000	\$0.00	\$0.00	\$0.00	\$136,000.00	\$0.00	\$0.00	\$0.00
4332	1.3.1.3.4.3	Display 261 (2x@2.5K\$)	LLNL	M&S	1	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$567.00	\$535.05	\$4,102.05
		<i>LLNL M&S Total</i>		M&S	0	3,000	\$0.00	\$0.00	\$0.00	\$3,000.00	\$0.00	\$0.00	\$0.00
4333	1.3.1.3.4.3	Display 521 (2x@1.77K\$)	LLNL	M&S	1	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$756.00	\$713.40	\$5,469.40
		<i>LLNL M&S Total</i>		M&S	0	4,000	\$0.00	\$0.00	\$0.00	\$4,000.00	\$0.00	\$0.00	\$0.00
4334	1.3.1.3.4.3	Display 2101 (4x@1.325K\$)	LLNL	M&S	1	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$1,890.00	\$1,783.50	\$13,673.50
		<i>LLNL M&S Total</i>		M&S	0	10,000	\$0.00	\$0.00	\$0.00	\$10,000.00	\$0.00	\$0.00	\$0.00
4335	1.3.1.3.4.3	Cables and Hardware	LLNL	M&S	1	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$1,323.00	\$1,248.45	\$9,571.45
		<i>LLNL M&S Total</i>		M&S	0	7,000	\$0.00	\$0.00	\$0.00	\$7,000.00	\$0.00	\$0.00	\$0.00
4336	1.3.1.3.4.3	Gate Controller	LLNL	M&S	1	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$1,134.00	\$1,070.10	\$8,204.10
		<i>LLNL M&S Total</i>		M&S	0	6,000	\$0.00	\$0.00	\$0.00	\$6,000.00	\$0.00	\$0.00	\$0.00
4337	1.3.1.3.4.3	Labor and Assembly	LLNL	B&H	2	3 wks	\$0.00	\$0.00	\$6,240.00	\$6,240.00	\$6,115.20	\$3,088.80	\$15,444.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		B&H	0	3 wks	\$0.00	\$0.00	\$0.00	\$6,240.00	\$0.00	\$0.00	\$0.00
4338	1.3.1.3.4.4	Dry pumps	LLNL		0	1.5 wks	\$0.00	\$107,000.00	\$3,120.00	\$110,120.00	\$23,280.60	\$20,627.85	\$154,028.45
4339	1.3.1.3.4.4	M 35 cfm (4x@26.77K\$)	LLNL	M&S	1	0 wks	\$0.00	\$107,000.00	\$0.00	\$107,000.00	\$20,223.00	\$19,083.45	\$146,306.45

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>107,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$107,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4340	1.3.1.3.4.4	Labor and Assembly	LLNL	B&H	2	1.5 wks	\$0.00	\$0.00	\$3,120.00	\$3,120.00	\$3,057.60	\$1,544.40	\$7,722.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,120.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4341	1.3.1.3.4.5	Storage Tanks	LLNL		0	2 wks	\$0.00	\$7,000.00	\$4,160.00	\$11,160.00	\$5,399.80	\$2,483.97	\$19,043.77
4342	1.3.1.3.4.5	Manchester Tank (3x@0.8KS)	LLNL	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$378.00	\$356.70	\$2,734.70
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4343	1.3.1.3.4.5	Platform (2x@2.5KS)	LLNL	M&S	1	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$945.00	\$891.75	\$6,836.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4344	1.3.1.3.4.5	Labor and Assembly	LLNL	B&H	1	2 wks	\$0.00	\$0.00	\$4,160.00	\$4,160.00	\$4,076.80	\$1,235.52	\$9,472.32
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4345	1.3.1.3.4.6	Gast pumps	LLNL		0	1.5 wks	\$0.00	\$10,000.00	\$3,120.00	\$13,120.00	\$4,947.60	\$3,327.90	\$21,395.50
4346	1.3.1.3.4.6	Gast Model 6606 4@2.5	LLNL	M&S	1	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$1,890.00	\$1,783.50	\$13,673.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4347	1.3.1.3.4.6	Labor and Assembly	LLNL	B&H	2	1.5 wks	\$0.00	\$0.00	\$3,120.00	\$3,120.00	\$3,057.60	\$1,544.40	\$7,722.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,120.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4348	1.3.1.3.4.7	Controls	LLNL		0	5 wks	\$0.00	\$206,000.00	\$10,400.00	\$216,400.00	\$49,126.00	\$41,888.10	\$307,414.10
4349	1.3.1.3.4.7	Press. Control Head 4@1.8	LLNL	M&S	1	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$1,323.00	\$1,248.45	\$9,571.45
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>7,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4350	1.3.1.3.4.7	Press. Controller 2@4.5	LLNL	M&S	1	0 wks	\$0.00	\$32,000.00	\$0.00	\$32,000.00	\$6,048.00	\$5,707.20	\$43,755.20
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>32,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$32,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4351	1.3.1.3.4.7	Multiloop Controller	LLNL	M&S	1	0 wks	\$0.00	\$136,000.00	\$0.00	\$136,000.00	\$25,704.00	\$24,255.60	\$185,959.60
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>136,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$136,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4352	1.3.1.3.4.7	Press. Sensors	LLNL	M&S	1	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$567.00	\$535.05	\$4,102.05
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4353	1.3.1.3.4.7	Flow Control 2@1.5	LLNL	M&S	1	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$756.00	\$713.40	\$5,469.40
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4354	1.3.1.3.4.7	Flow Control Drive 2@1	LLNL	M&S	1	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$1,890.00	\$1,783.50	\$13,673.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4355	1.3.1.3.4.7	Cables and Hardware	LLNL	M&S	1	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$1,323.00	\$1,248.45	\$9,571.45
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>7,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4356	1.3.1.3.4.7	VME Crate	LLNL	M&S	1	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$1,323.00	\$1,248.45	\$9,571.45
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>7,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4357	1.3.1.3.4.7	Labor and Assembly	LLNL	B&H	2	5 wks	\$0.00	\$0.00	\$10,400.00	\$10,400.00	\$10,192.00	\$5,148.00	\$25,740.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4358	1.3.1.3.4.8	GreenField Compression System	LLNL		0	3 wks	\$0.00	\$95,000.00	\$6,240.00	\$101,240.00	\$24,070.20	\$20,032.05	\$145,342.25

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
4359	1.3.1.3.4.8	GreenField Compressor	LLNL	M&S	1	0 wks	\$0.00	\$95,000.00	\$0.00	\$95,000.00	\$17,955.00	\$16,943.25	\$129,898.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>95,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$95,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4360	1.3.1.3.4.8	Labor and Assembly	LLNL	B&H	2	3 wks	\$0.00	\$0.00	\$6,240.00	\$6,240.00	\$6,115.20	\$3,088.80	\$15,444.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,240.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4361	1.3.1.3.4.9	Transfer Manifold	LLNL		0	5,006 wks	\$0.00	\$0.00	\$12,920.00	\$12,920.00	\$12,661.60	\$1,983.96	\$27,565.56
4362	1.3.1.3.4.9	Engineering	LLNL	ED&I	1	1 wk	\$0.00	\$0.00	\$2,520.00	\$2,520.00	\$2,469.60	\$748.44	\$5,738.04
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4363	1.3.1.3.4.9	Drafting ME	LLNL	ED&I	1	2 wks	\$0.00	\$0.00	\$4,160.00	\$4,160.00	\$4,076.80	\$1,235.52	\$9,472.32
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4364	1.3.1.3.4.9	Manifold 2@2.5	LLNL		1	5,000 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4365	1.3.1.3.4.9	Labor and Assembly	LLNL	B&H	0	3 wks	\$0.00	\$0.00	\$6,240.00	\$6,240.00	\$6,115.20	\$0.00	\$12,355.20
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>2</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,240.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4366	1.3.1.3.4.10	Gas Purifier	LLNL		0	5 wks	\$0.00	\$8,000.00	\$10,840.00	\$18,840.00	\$12,135.20	\$5,469.96	\$36,445.16
4367	1.3.1.3.4.10	Engineering	LLNL	ED&I	1	1 wk	\$0.00	\$0.00	\$2,520.00	\$2,520.00	\$2,469.60	\$748.44	\$5,738.04
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4368	1.3.1.3.4.10	Drafting ME	LLNL	ED&I	1	2 wks	\$0.00	\$0.00	\$4,160.00	\$4,160.00	\$4,076.80	\$1,235.52	\$9,472.32
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4369	1.3.1.3.4.10	NuPure Purifier 2@4	LLNL	M&S	1	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$1,512.00	\$1,426.80	\$10,938.80
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4370	1.3.1.3.4.10	Labor and Assembly	LLNL	B&H	2	2 wks	\$0.00	\$0.00	\$4,160.00	\$4,160.00	\$4,076.80	\$2,059.20	\$10,296.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4371	1.3.1.3.4.11	Hardware	LLNL		0	5 wks	\$0.00	\$18,000.00	\$11,280.00	\$29,280.00	\$14,456.40	\$7,845.30	\$51,581.70
4372	1.3.1.3.4.11	Engineering	LLNL	ED&I	2	2 wks	\$0.00	\$0.00	\$5,040.00	\$5,040.00	\$4,939.20	\$2,494.80	\$12,474.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,040.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4373	1.3.1.3.4.11	Parts	LLNL	M&S	2	0 wks	\$0.00	\$18,000.00	\$0.00	\$18,000.00	\$3,402.00	\$5,350.50	\$26,752.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>18,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$18,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4374	1.3.1.3.4.11	Labor and Assembly	LLNL	B&H	0	3 wks	\$0.00	\$0.00	\$6,240.00	\$6,240.00	\$6,115.20	\$0.00	\$12,355.20
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>2</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,240.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4375	1.3.1.3.4.12	Blower	LLNL		0	4 wks	\$0.00	\$5,000.00	\$8,760.00	\$13,760.00	\$9,529.80	\$2,257.95	\$25,547.75
4376	1.3.1.3.4.12	Engineering	LLNL	ED&I	1	1 wk	\$0.00	\$0.00	\$2,520.00	\$2,520.00	\$2,469.60	\$748.44	\$5,738.04
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4377	1.3.1.3.4.12	Drafting ME	LLNL	ED&I	1	1 wk	\$0.00	\$0.00	\$2,080.00	\$2,080.00	\$2,038.40	\$617.76	\$4,736.16
		<i>LLNL Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4378	1.3.1.3.4.12	Blower	LLNL	M&S	1	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$945.00	\$891.75	\$6,836.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
4379	1.3.1.3.4.12	Labor and Assembly	LLNL	B&H	0	2 wks	\$0.00	\$0.00	\$4,160.00	\$4,160.00	\$4,076.80	\$0.00	\$8,236.80
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4380	1.3.1.3.4.13	Shipping and Installation	LLNL		0	8.5 wks	\$0.00	\$0.00	\$21,240.00	\$21,240.00	\$20,815.20	\$9,515.88	\$51,571.08
4381	1.3.1.3.4.13	Rigging	LLNL	B&H	1	1.5 wks	\$0.00	\$0.00	\$3,780.00	\$3,780.00	\$3,704.40	\$1,122.66	\$8,607.06
		<i>LLNL T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>1.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,780.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4382	1.3.1.3.4.13	Transportation	LLNL	B&H	1	0.5 wks	\$0.00	\$0.00	\$1,260.00	\$1,260.00	\$1,234.80	\$374.22	\$2,869.02
		<i>LLNL T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>0.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,260.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4383	1.3.1.3.4.13	Plumbing	LLNL	B&H	2	3 wks	\$0.00	\$0.00	\$7,440.00	\$7,440.00	\$7,291.20	\$3,682.80	\$18,414.00
		<i>LLNL T&M Crafts - Union Equip. Op.</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,440.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4384	1.3.1.3.4.13	Crafts electrical	LLNL	B&H	2	2 wks	\$0.00	\$0.00	\$5,040.00	\$5,040.00	\$4,939.20	\$2,494.80	\$12,474.00
		<i>LLNL Site Engineering: Plant Maint.</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,040.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4385	1.3.1.3.4.13	Labor & Assembly	LLNL	B&H	2	1.5 wks	\$0.00	\$0.00	\$3,720.00	\$3,720.00	\$3,645.60	\$1,841.40	\$9,207.00
		<i>LLNL T&M Crafts - Union Equip. Op.</i>		<i>B&H</i>	<i>0</i>	<i>1.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,720.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4386	1.3.1.3.4.14	Acceptance tests	LLNL		0	11 wks	\$0.00	\$0.00	\$25,120.00	\$25,120.00	\$24,617.60	\$12,434.40	\$62,172.00
4387	1.3.1.3.4.14	Theory	LLNL	ED&I	2	4 wks	\$0.00	\$0.00	\$8,640.00	\$8,640.00	\$8,467.20	\$4,276.80	\$21,384.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,640.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4388	1.3.1.3.4.14	Engineering	LLNL	ED&I	2	2 wks	\$0.00	\$0.00	\$5,040.00	\$5,040.00	\$4,939.20	\$2,494.80	\$12,474.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,040.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4389	1.3.1.3.4.14	Programming	LLNL	ED&I	2	3 wks	\$0.00	\$0.00	\$6,480.00	\$6,480.00	\$6,350.40	\$3,207.60	\$16,038.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,480.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4390	1.3.1.3.4.14	Engineering	LLNL	ED&I	2	2 wks	\$0.00	\$0.00	\$4,960.00	\$4,960.00	\$4,860.80	\$2,455.20	\$12,276.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,960.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4391	1.3.1.3.5	Local Apertures			0	35.1 wks	\$0.00	\$114,000.00	\$83,684.00	\$197,684.00	\$103,556.32	\$71,255.80	\$372,496.12
4392	1.3.1.3.5.1	Apertures	LLNL		0	9.5 wks	\$0.00	\$20,000.00	\$17,320.00	\$37,320.00	\$20,753.60	\$14,518.40	\$72,592.00
4393	1.3.1.3.5.1	Hardware	LLNL	M&S	2	0 wks	\$0.00	\$20,000.00	\$0.00	\$20,000.00	\$3,780.00	\$5,945.00	\$29,725.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>20,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$20,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4394	1.3.1.3.5.1	Hardware	LLNL	ED&I	2	0.5 wks	\$0.00	\$0.00	\$1,720.00	\$1,720.00	\$1,685.60	\$851.40	\$4,257.00
		<i>LLNL Precision Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,720.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4395	1.3.1.3.5.1	Characterization	LLNL	ED&I	2	8 wks	\$0.00	\$0.00	\$12,160.00	\$12,160.00	\$11,916.80	\$6,019.20	\$30,096.00
		<i>LLNL Physicist - Post Doc</i>		<i>ED&I</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4396	1.3.1.3.5.1	Characterization	LLNL	ED&I	2	1 wk	\$0.00	\$0.00	\$3,440.00	\$3,440.00	\$3,371.20	\$1,702.80	\$8,514.00
		<i>LLNL Precision Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,440.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4397	1.3.1.3.5.2	Integ & Test	LLNL		0	2.2 wks	\$0.00	\$0.00	\$7,568.00	\$7,568.00	\$7,416.64	\$3,746.16	\$18,730.80
4398	1.3.1.3.5.2	Bench Assembly	LLNL	B&H	2	1 wk	\$0.00	\$0.00	\$3,440.00	\$3,440.00	\$3,371.20	\$1,702.80	\$8,514.00
		<i>LLNL Precision Crafts (mach/tech)</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,440.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
4399	1.3.1.3.5.2	Perform Test	LLNL	B&H	2	1 wk	\$0.00	\$0.00	\$3,440.00	\$3,440.00	\$3,371.20	\$1,702.80	\$8,514.00
		<i>LLNL Precision Crafts (mach/tech)</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,440.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4400	1.3.1.3.5.2	Beamline install	LLNL	B&H	2	0.2 wks	\$0.00	\$0.00	\$688.00	\$688.00	\$674.24	\$340.56	\$1,702.80
		<i>LLNL Precision Crafts (mach/tech)</i>		<i>B&H</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$688.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4401	1.3.1.3.5.3	Precision Motion	LLNL		0	6.5 wks	\$0.00	\$32,000.00	\$21,900.00	\$53,900.00	\$27,510.00	\$16,298.22	\$97,708.22
4402	1.3.1.3.5.3	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$32,000.00	\$0.00	\$32,000.00	\$6,048.00	\$5,707.20	\$43,755.20
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>32,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$32,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4403	1.3.1.3.5.3	Hardware	LLNL	ED&I	1	0.5 wks	\$0.00	\$0.00	\$1,260.00	\$1,260.00	\$1,234.80	\$374.22	\$2,869.02
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,260.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4404	1.3.1.3.5.3	Assly & Test	LLNL	B&H	2	6 wks	\$0.00	\$0.00	\$20,640.00	\$20,640.00	\$20,227.20	\$10,216.80	\$51,084.00
		<i>LLNL Precision Crafts (mach/tech)</i>		<i>B&H</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$20,640.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4405	1.3.1.3.5.4	Apertures	LLNL		0	9.5 wks	\$0.00	\$20,000.00	\$17,320.00	\$37,320.00	\$20,753.60	\$14,518.40	\$72,592.00
4406	1.3.1.3.5.4	Hardware	LLNL	ED&I	2	0.5 wks	\$0.00	\$0.00	\$1,720.00	\$1,720.00	\$1,685.60	\$851.40	\$4,257.00
		<i>LLNL Precision Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,720.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4407	1.3.1.3.5.4	Hardware	LLNL	M&S	2	0 wks	\$0.00	\$20,000.00	\$0.00	\$20,000.00	\$3,780.00	\$5,945.00	\$29,725.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>20,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$20,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4408	1.3.1.3.5.4	Characterization	LLNL	ED&I	2	8 wks	\$0.00	\$0.00	\$12,160.00	\$12,160.00	\$11,916.80	\$6,019.20	\$30,096.00
		<i>LLNL Physicist - Post Doc</i>		<i>ED&I</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4409	1.3.1.3.5.4	Characterization	LLNL	ED&I	2	1 wk	\$0.00	\$0.00	\$3,440.00	\$3,440.00	\$3,371.20	\$1,702.80	\$8,514.00
		<i>LLNL Precision Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,440.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4410	1.3.1.3.5.5	Controls & Elect	LLNL		0	3 wks	\$0.00	\$42,000.00	\$6,360.00	\$48,360.00	\$14,170.80	\$15,632.70	\$78,163.50
4411	1.3.1.3.5.5	Hardware	LLNL	M&S	2	0 wks	\$0.00	\$42,000.00	\$0.00	\$42,000.00	\$7,938.00	\$12,484.50	\$62,422.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>42,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$42,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4412	1.3.1.3.5.5	Assly & Test	LLNL	B&H	2	3 wks	\$0.00	\$0.00	\$6,360.00	\$6,360.00	\$6,232.80	\$3,148.20	\$15,741.00
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,360.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4413	1.3.1.3.5.6	Integ & Test	LLNL		0	4.4 wks	\$0.00	\$0.00	\$13,216.00	\$13,216.00	\$12,951.68	\$6,541.92	\$32,709.60
4414	1.3.1.3.5.6	Bench Assembly	LLNL	B&H	2	1 wk	\$0.00	\$0.00	\$3,440.00	\$3,440.00	\$3,371.20	\$1,702.80	\$8,514.00
		<i>LLNL Precision Crafts (mach/tech)</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,440.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4415	1.3.1.3.5.6	Perform Test	LLNL	B&H	2	1 wk	\$0.00	\$0.00	\$3,440.00	\$3,440.00	\$3,371.20	\$1,702.80	\$8,514.00
		<i>LLNL Precision Crafts (mach/tech)</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,440.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4416	1.3.1.3.5.6	Beamline install	LLNL	B&H	2	0.4 wks	\$0.00	\$0.00	\$1,376.00	\$1,376.00	\$1,348.48	\$681.12	\$3,405.60
		<i>LLNL Precision Crafts (mach/tech)</i>		<i>B&H</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,376.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4417	1.3.1.3.5.6	Beamline test	LLNL	ED&I	2	1 wk	\$0.00	\$0.00	\$1,520.00	\$1,520.00	\$1,489.60	\$752.40	\$3,762.00
		<i>LLNL Physicist - Post Doc</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4418	1.3.1.3.5.6	Beamline test	LLNL	ED&I	2	1 wk	\$0.00	\$0.00	\$3,440.00	\$3,440.00	\$3,371.20	\$1,702.80	\$8,514.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL Precision Engineer</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$3,440.00	\$0.00	\$0.00	\$0.00
4419	1.3.1.3.6	Wedge Attenuator			0	55.7 wks	\$0.00	\$86,000.00	\$110,940.00	\$196,940.00	\$124,975.20	\$72,734.40	\$394,649.60
4420	1.3.1.3.6.1	Motion Control	LLNL		0	3 wks	\$0.00	\$13,000.00	\$9,400.00	\$22,400.00	\$11,669.00	\$2,318.55	\$36,387.55
4421	1.3.1.3.6.1	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$13,000.00	\$0.00	\$13,000.00	\$2,457.00	\$2,318.55	\$17,775.55
		<i>LLNL M&S Total</i>		<i>M&S</i>	0	13,000	\$0.00	\$0.00	\$0.00	\$13,000.00	\$0.00	\$0.00	\$0.00
4422	1.3.1.3.6.1	Hardware	LLNL	ED&I	0	1 wk	\$0.00	\$0.00	\$2,520.00	\$2,520.00	\$2,469.60	\$0.00	\$4,989.60
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	2	1 wk	\$0.00	\$0.00	\$0.00	\$2,520.00	\$0.00	\$0.00	\$0.00
4423	1.3.1.3.6.1	Assly & Test	LLNL	B&H	0	2 wks	\$0.00	\$0.00	\$6,880.00	\$6,880.00	\$6,742.40	\$0.00	\$13,622.40
		<i>LLNL Precision Crafts (mach/tech)</i>		<i>B&H</i>	2	2 wks	\$0.00	\$0.00	\$0.00	\$6,880.00	\$0.00	\$0.00	\$0.00
4424	1.3.1.3.6.2	Attenuator	LLNL		0	10.2 wks	\$0.00	\$12,000.00	\$17,704.00	\$29,704.00	\$19,617.92	\$12,330.48	\$61,652.40
4425	1.3.1.3.6.2	Hardware	LLNL	M&S	2	0 wks	\$0.00	\$12,000.00	\$0.00	\$12,000.00	\$2,268.00	\$3,567.00	\$17,835.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	0	12,000	\$0.00	\$0.00	\$0.00	\$12,000.00	\$0.00	\$0.00	\$0.00
4426	1.3.1.3.6.2	Hardware	LLNL	ED&I	2	0.2 wks	\$0.00	\$0.00	\$504.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$504.00	\$0.00	\$0.00	\$0.00
4427	1.3.1.3.6.2	Characterization	LLNL	ED&I	2	8 wks	\$0.00	\$0.00	\$12,160.00	\$12,160.00	\$11,916.80	\$6,019.20	\$30,096.00
		<i>LLNL Physicist - Post Doc</i>		<i>ED&I</i>	0	8 wks	\$0.00	\$0.00	\$0.00	\$12,160.00	\$0.00	\$0.00	\$0.00
4428	1.3.1.3.6.2	Characterization	LLNL	ED&I	2	2 wks	\$0.00	\$0.00	\$5,040.00	\$5,040.00	\$4,939.20	\$2,494.80	\$12,474.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	0	2 wks	\$0.00	\$0.00	\$0.00	\$5,040.00	\$0.00	\$0.00	\$0.00
4429	1.3.1.3.6.3	Controls & Elect	LLNL		0	3.2 wks	\$0.00	\$12,000.00	\$6,864.00	\$18,864.00	\$8,994.72	\$6,964.68	\$34,823.40
4430	1.3.1.3.6.3	Hardware	LLNL	M&S	2	0 wks	\$0.00	\$12,000.00	\$0.00	\$12,000.00	\$2,268.00	\$3,567.00	\$17,835.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	0	12,000	\$0.00	\$0.00	\$0.00	\$12,000.00	\$0.00	\$0.00	\$0.00
4431	1.3.1.3.6.3	Hardware	LLNL	ED&I	2	0.2 wks	\$0.00	\$0.00	\$504.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$504.00	\$0.00	\$0.00	\$0.00
4432	1.3.1.3.6.3	Assly & Test	LLNL	B&H	2	3 wks	\$0.00	\$0.00	\$6,360.00	\$6,360.00	\$6,232.80	\$3,148.20	\$15,741.00
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	0	3 wks	\$0.00	\$0.00	\$0.00	\$6,360.00	\$0.00	\$0.00	\$0.00
4433	1.3.1.3.6.4	Integ & Test	LLNL		0	2.6 wks	\$0.00	\$0.00	\$5,360.00	\$5,360.00	\$5,252.80	\$2,653.20	\$13,266.00
4434	1.3.1.3.6.4	Bench Assembly	LLNL	B&H	2	1 wk	\$0.00	\$0.00	\$2,080.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,080.00	\$0.00	\$0.00	\$0.00
4435	1.3.1.3.6.4	Perform Test	LLNL	B&H	2	0.4 wks	\$0.00	\$0.00	\$832.00	\$832.00	\$815.36	\$411.84	\$2,059.20
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	0.4 wks	\$0.00	\$0.00	\$0.00	\$832.00	\$0.00	\$0.00	\$0.00
4436	1.3.1.3.6.4	Beamline install	LLNL	B&H	2	0.4 wks	\$0.00	\$0.00	\$832.00	\$832.00	\$815.36	\$411.84	\$2,059.20
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	0.4 wks	\$0.00	\$0.00	\$0.00	\$832.00	\$0.00	\$0.00	\$0.00
4437	1.3.1.3.6.4	Beamline test	LLNL	ED&I	2	0.4 wks	\$0.00	\$0.00	\$608.00	\$608.00	\$595.84	\$300.96	\$1,504.80
		<i>LLNL Physicist - Post Doc</i>		<i>ED&I</i>	0	0.4 wks	\$0.00	\$0.00	\$0.00	\$608.00	\$0.00	\$0.00	\$0.00
4438	1.3.1.3.6.4	Beamline test	LLNL	ED&I	2	0.4 wks	\$0.00	\$0.00	\$1,008.00	\$1,008.00	\$987.84	\$498.96	\$2,494.80

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,008.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4439	1.3.1.3.6.5	Motion Control	LLNL		0	2.5 wks	\$0.00	\$13,000.00	\$8,140.00	\$21,140.00	\$10,434.20	\$6,347.85	\$37,922.05
4440	1.3.1.3.6.5	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$13,000.00	\$0.00	\$13,000.00	\$2,457.00	\$2,318.55	\$17,775.55
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>13,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4441	1.3.1.3.6.5	Hardware	LLNL	ED&I	2	0.5 wks	\$0.00	\$0.00	\$1,260.00	\$1,260.00	\$1,234.80	\$623.70	\$3,118.50
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,260.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4442	1.3.1.3.6.5	Assly & Test	LLNL	B&H	2	2 wks	\$0.00	\$0.00	\$6,880.00	\$6,880.00	\$6,742.40	\$3,405.60	\$17,028.00
		<i>LLNL Precision Crafts (mach/tech)</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,880.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4443	1.3.1.3.6.6	Attenuator	LLNL		0	10.2 wks	\$0.00	\$12,000.00	\$17,704.00	\$29,704.00	\$19,617.92	\$12,330.48	\$61,652.40
4444	1.3.1.3.6.6	Hardware	LLNL	M&S	2	0 wks	\$0.00	\$12,000.00	\$0.00	\$12,000.00	\$2,268.00	\$3,567.00	\$17,835.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>12,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4445	1.3.1.3.6.6	Hardware	LLNL	ED&I	2	0.2 wks	\$0.00	\$0.00	\$504.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4446	1.3.1.3.6.6	Characterization	LLNL	ED&I	2	8 wks	\$0.00	\$0.00	\$12,160.00	\$12,160.00	\$11,916.80	\$6,019.20	\$30,096.00
		<i>LLNL Physicist - Post Doc</i>		<i>ED&I</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4447	1.3.1.3.6.6	Characterization	LLNL	ED&I	2	2 wks	\$0.00	\$0.00	\$5,040.00	\$5,040.00	\$4,939.20	\$2,494.80	\$12,474.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,040.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4448	1.3.1.3.6.7	Controls & Elect	LLNL		0	3.2 wks	\$0.00	\$12,000.00	\$6,864.00	\$18,864.00	\$8,994.72	\$6,964.68	\$34,823.40
4449	1.3.1.3.6.7	Hardware	LLNL	M&S	2	0 wks	\$0.00	\$12,000.00	\$0.00	\$12,000.00	\$2,268.00	\$3,567.00	\$17,835.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>12,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4450	1.3.1.3.6.7	Hardware	LLNL	ED&I	2	0.2 wks	\$0.00	\$0.00	\$504.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4451	1.3.1.3.6.7	Assly & Test	LLNL	B&H	2	3 wks	\$0.00	\$0.00	\$6,360.00	\$6,360.00	\$6,232.80	\$3,148.20	\$15,741.00
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,360.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4452	1.3.1.3.6.8	Integ & Test	LLNL		0	8 wks	\$0.00	\$0.00	\$15,840.00	\$15,840.00	\$15,523.20	\$7,840.80	\$39,204.00
4453	1.3.1.3.6.8	Bench Assembly	LLNL	B&H	2	1 wk	\$0.00	\$0.00	\$2,080.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4454	1.3.1.3.6.8	Perform Test	LLNL	B&H	2	1 wk	\$0.00	\$0.00	\$2,080.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4455	1.3.1.3.6.8	Beamline install	LLNL	B&H	2	1 wk	\$0.00	\$0.00	\$2,080.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4456	1.3.1.3.6.8	Beamline test	LLNL	ED&I	2	3 wks	\$0.00	\$0.00	\$4,560.00	\$4,560.00	\$4,468.80	\$2,257.20	\$11,286.00
		<i>LLNL Physicist - Post Doc</i>		<i>ED&I</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,560.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4457	1.3.1.3.6.8	Beamline test	LLNL	ED&I	2	2 wks	\$0.00	\$0.00	\$5,040.00	\$5,040.00	\$4,939.20	\$2,494.80	\$12,474.00
		<i>LLNL AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,040.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
4458	1.3.1.3.6.9	Attenuator	LLNL		0	10.2 wks	\$0.00	\$12,000.00	\$17,704.00	\$29,704.00	\$19,617.92	\$12,330.48	\$61,652.40
4459	1.3.1.3.6.9	Hardware	LLNL	M&S	2	0 wks	\$0.00	\$12,000.00	\$0.00	\$12,000.00	\$2,268.00	\$3,567.00	\$17,835.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>12,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4460	1.3.1.3.6.9	Hardware	LLNL	ED&I	2	0.2 wks	\$0.00	\$0.00	\$504.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4461	1.3.1.3.6.9	Characterization	LLNL	ED&I	2	8 wks	\$0.00	\$0.00	\$12,160.00	\$12,160.00	\$11,916.80	\$6,019.20	\$30,096.00
		<i>LLNL Physicist - Post Doc</i>		<i>ED&I</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4462	1.3.1.3.6.9	Characterization	LLNL	ED&I	2	2 wks	\$0.00	\$0.00	\$5,040.00	\$5,040.00	\$4,939.20	\$2,494.80	\$12,474.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,040.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4463	1.3.1.3.6.10	Integ & Test	LLNL		0	2.6 wks	\$0.00	\$0.00	\$5,360.00	\$5,360.00	\$5,252.80	\$2,653.20	\$13,266.00
4464	1.3.1.3.6.10	Bench Assembly	LLNL	B&H	2	1 wk	\$0.00	\$0.00	\$2,080.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4465	1.3.1.3.6.10	Perform Test	LLNL	B&H	2	0.4 wks	\$0.00	\$0.00	\$832.00	\$832.00	\$815.36	\$411.84	\$2,059.20
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$832.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4466	1.3.1.3.6.10	Beamline install	LLNL	B&H	2	0.4 wks	\$0.00	\$0.00	\$832.00	\$832.00	\$815.36	\$411.84	\$2,059.20
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$832.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4467	1.3.1.3.6.10	Beamline test	LLNL	ED&I	2	0.4 wks	\$0.00	\$0.00	\$608.00	\$608.00	\$595.84	\$300.96	\$1,504.80
		<i>LLNL Physicist - Post Doc</i>		<i>ED&I</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$608.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4468	1.3.1.3.6.10	Beamline test	LLNL	ED&I	2	0.4 wks	\$0.00	\$0.00	\$1,008.00	\$1,008.00	\$987.84	\$498.96	\$2,494.80
		<i>LLNL AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,008.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4469	1.3.1.3.7	Low Energy Mirror System			0	58.7 wks	\$0.00	\$441,000.00	\$155,244.00	\$596,244.00	\$235,488.12	\$186,055.43	\$1,017,787.55
4470	1.3.1.3.7.1	Precision Motion	LLNL		0	6.5 wks	\$0.00	\$32,000.00	\$21,900.00	\$53,900.00	\$27,510.00	\$16,547.70	\$97,957.70
4471	1.3.1.3.7.1	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$32,000.00	\$0.00	\$32,000.00	\$6,048.00	\$5,707.20	\$43,755.20
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>32,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$32,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4472	1.3.1.3.7.1	Hardware	LLNL	ED&I	2	0.5 wks	\$0.00	\$0.00	\$1,260.00	\$1,260.00	\$1,234.80	\$623.70	\$3,118.50
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,260.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4473	1.3.1.3.7.1	Assly & Test	LLNL	B&H	2	6 wks	\$0.00	\$0.00	\$20,640.00	\$20,640.00	\$20,227.20	\$10,216.80	\$51,084.00
		<i>LLNL Precision Crafts (mach/tech)</i>		<i>B&H</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$20,640.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4474	1.3.1.3.7.2	Optic	LLNL		0	18 wks	\$0.00	\$195,000.00	\$46,560.00	\$241,560.00	\$82,483.80	\$81,010.95	\$405,054.75
4475	1.3.1.3.7.2	Hardware	LLNL	M&S	2	0 wks	\$0.00	\$195,000.00	\$0.00	\$195,000.00	\$36,855.00	\$57,963.75	\$289,818.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>195,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$195,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4476	1.3.1.3.7.2	Hardware	LLNL	ED&I	2	2 wks	\$0.00	\$0.00	\$6,880.00	\$6,880.00	\$6,742.40	\$3,405.60	\$17,028.00
		<i>LLNL Precision Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,880.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4477	1.3.1.3.7.2	Characterization	LLNL	ED&I	2	8 wks	\$0.00	\$0.00	\$12,160.00	\$12,160.00	\$11,916.80	\$6,019.20	\$30,096.00
		<i>LLNL Physicist - Post Doc</i>		<i>ED&I</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
4478	1.3.1.3.7.2	Characterization	LLNL	ED&I	2	8 wks	\$0.00	\$0.00	\$27,520.00	\$27,520.00	\$26,969.60	\$13,622.40	\$68,112.00
		<i>LLNL Precision Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$27,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4479	1.3.1.3.7.3	Controls & Elect	LLNL		0	3.2 wks	\$0.00	\$42,000.00	\$6,864.00	\$48,864.00	\$14,664.72	\$15,882.18	\$79,410.90
4480	1.3.1.3.7.3	Hardware	LLNL	M&S	2	0 wks	\$0.00	\$42,000.00	\$0.00	\$42,000.00	\$7,938.00	\$12,484.50	\$62,422.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>42,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$42,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4481	1.3.1.3.7.3	Hardware	LLNL	ED&I	2	0.2 wks	\$0.00	\$0.00	\$504.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4482	1.3.1.3.7.3	Assly & Test	LLNL	B&H	2	3 wks	\$0.00	\$0.00	\$6,360.00	\$6,360.00	\$6,232.80	\$3,148.20	\$15,741.00
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,360.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4483	1.3.1.3.7.4	Integ & Test	LLNL		0	17 wks	\$0.00	\$0.00	\$50,800.00	\$50,800.00	\$49,784.00	\$25,146.00	\$125,730.00
4484	1.3.1.3.7.4	Bench Assembly	LLNL	B&H	2	3 wks	\$0.00	\$0.00	\$10,320.00	\$10,320.00	\$10,113.60	\$5,108.40	\$25,542.00
		<i>LLNL Precision Crafts (mach/tech)</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4485	1.3.1.3.7.4	Perform Test	LLNL	B&H	2	3 wks	\$0.00	\$0.00	\$10,320.00	\$10,320.00	\$10,113.60	\$5,108.40	\$25,542.00
		<i>LLNL Precision Crafts (mach/tech)</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4486	1.3.1.3.7.4	Beamline install	LLNL	B&H	2	3 wks	\$0.00	\$0.00	\$10,320.00	\$10,320.00	\$10,113.60	\$5,108.40	\$25,542.00
		<i>LLNL Precision Crafts (mach/tech)</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4487	1.3.1.3.7.4	Beamline test	LLNL	ED&I	2	4 wks	\$0.00	\$0.00	\$6,080.00	\$6,080.00	\$5,958.40	\$3,009.60	\$15,048.00
		<i>LLNL Physicist - Post Doc</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4488	1.3.1.3.7.4	Beamline test	LLNL	ED&I	2	4 wks	\$0.00	\$0.00	\$13,760.00	\$13,760.00	\$13,484.80	\$6,811.20	\$34,056.00
		<i>LLNL Precision Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,760.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4489	1.3.1.3.7.5	Tank	LLNL		0	4 wks	\$0.00	\$40,000.00	\$8,320.00	\$48,320.00	\$15,713.60	\$12,441.40	\$76,475.00
4490	1.3.1.3.7.5	Fabrication	LLNL	M&S	1	0 wks	\$0.00	\$30,000.00	\$0.00	\$30,000.00	\$5,670.00	\$5,350.50	\$41,020.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>30,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$30,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4491	1.3.1.3.7.5	Accept. Test	LLNL	M&S	2	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$1,890.00	\$2,972.50	\$14,862.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4492	1.3.1.3.7.5	Installation	LLNL	B&H	2	4 wks	\$0.00	\$0.00	\$8,320.00	\$8,320.00	\$8,153.60	\$4,118.40	\$20,592.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4493	1.3.1.3.7.6	Vacuum	LLNL		0	9 wks	\$0.00	\$122,000.00	\$18,720.00	\$140,720.00	\$41,403.60	\$31,025.10	\$213,148.70
4494	1.3.1.3.7.6	Pumps	LLNL	M&S	1	0 wks	\$0.00	\$108,000.00	\$0.00	\$108,000.00	\$20,412.00	\$19,261.80	\$147,673.80
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>108,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$108,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4495	1.3.1.3.7.6	Gauges	LLNL	M&S	1	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$1,134.00	\$1,070.10	\$8,204.10
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4496	1.3.1.3.7.6	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$1,512.00	\$1,426.80	\$10,938.80
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4497	1.3.1.3.7.6	Installation	LLNL	B&H	2	6 wks	\$0.00	\$0.00	\$12,480.00	\$12,480.00	\$12,230.40	\$6,177.60	\$30,888.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,480.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4498	1.3.1.3.7.6	Leak check	LLNL	B&H	2	3 wks	\$0.00	\$0.00	\$6,240.00	\$6,240.00	\$6,115.20	\$3,088.80	\$15,444.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,240.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4499	1.3.1.3.7.7	Stand	LLNL		0	1 wk	\$0.00	\$10,000.00	\$2,080.00	\$12,080.00	\$3,928.40	\$4,002.10	\$20,010.50
4500	1.3.1.3.7.7	Fabrication	LLNL	M&S	2	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$1,890.00	\$2,972.50	\$14,862.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4501	1.3.1.3.7.7	Installation	LLNL	B&H	2	1 wk	\$0.00	\$0.00	\$2,080.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4502	1.3.1.4	End Station Optical Systems			0	92.6 wks	\$0.00	\$718,000.00	\$243,824.00	\$961,824.00	\$374,649.52	\$295,802.04	\$1,632,275.56
4503	1.3.1.4.1	K-B Mirror System A			0	21.7 wks	\$0.00	\$284,000.00	\$66,084.00	\$350,084.00	\$118,438.32	\$117,130.58	\$585,652.90
4504	1.3.1.4.1.1	Precision Motion	LLNL		0	6.5 wks	\$0.00	\$47,000.00	\$21,900.00	\$68,900.00	\$30,345.00	\$24,811.25	\$124,056.25
4505	1.3.1.4.1.1	Hardware	LLNL	M&S	2	0 wks	\$0.00	\$47,000.00	\$0.00	\$47,000.00	\$8,883.00	\$13,970.75	\$69,853.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>47,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$47,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4506	1.3.1.4.1.1	Hardware	LLNL	ED&I	2	0.5 wks	\$0.00	\$0.00	\$1,260.00	\$1,260.00	\$1,234.80	\$623.70	\$3,118.50
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,260.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4507	1.3.1.4.1.1	Assly & Test	LLNL	B&H	2	6 wks	\$0.00	\$0.00	\$20,640.00	\$20,640.00	\$20,227.20	\$10,216.80	\$51,084.00
		<i>LLNL Precision Crafts (mach/tech)</i>		<i>B&H</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$20,640.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4508	1.3.1.4.1.2	Optic	LLNL		0	0 wks	\$0.00	\$195,000.00	\$0.00	\$195,000.00	\$36,855.00	\$57,963.75	\$289,818.75
4509	1.3.1.4.1.2	Hardware	LLNL	M&S	2	0 wks	\$0.00	\$195,000.00	\$0.00	\$195,000.00	\$36,855.00	\$57,963.75	\$289,818.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>195,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$195,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4510	1.3.1.4.1.3	Controls & Elect	LLNL		0	6.2 wks	\$0.00	\$42,000.00	\$13,224.00	\$55,224.00	\$20,897.52	\$19,030.38	\$95,151.90
4511	1.3.1.4.1.3	Hardware (includes LVDT's)	LLNL	M&S	2	0 wks	\$0.00	\$42,000.00	\$0.00	\$42,000.00	\$7,938.00	\$12,484.50	\$62,422.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>42,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$42,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4512	1.3.1.4.1.3	Hardware (includes LVDT's)	LLNL	ED&I	2	0.2 wks	\$0.00	\$0.00	\$504.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4513	1.3.1.4.1.3	Assly & Test	LLNL	B&H	2	6 wks	\$0.00	\$0.00	\$12,720.00	\$12,720.00	\$12,465.60	\$6,296.40	\$31,482.00
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,720.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4514	1.3.1.4.1.4	Integ & Test	LLNL		0	9 wks	\$0.00	\$0.00	\$30,960.00	\$30,960.00	\$30,340.80	\$15,325.20	\$76,626.00
4515	1.3.1.4.1.4	Bench Assembly	LLNL	B&H	2	3 wks	\$0.00	\$0.00	\$10,320.00	\$10,320.00	\$10,113.60	\$5,108.40	\$25,542.00
		<i>LLNL Precision Crafts (mach/tech)</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4516	1.3.1.4.1.4	Perform Test	LLNL	B&H	2	3 wks	\$0.00	\$0.00	\$10,320.00	\$10,320.00	\$10,113.60	\$5,108.40	\$25,542.00
		<i>LLNL Precision Crafts (mach/tech)</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4517	1.3.1.4.1.4	Beamline install	LLNL	B&H	2	3 wks	\$0.00	\$0.00	\$10,320.00	\$10,320.00	\$10,113.60	\$5,108.40	\$25,542.00
		<i>LLNL Precision Crafts (mach/tech)</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4518	1.3.1.4.2	Optics Tank A2 1			0	21.9 wks	\$0.00	\$228,000.00	\$61,220.00	\$289,220.00	\$103,087.60	\$80,588.42	\$472,896.02

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
4519	1.3.1.4.2.1	Motion & Mech	LLNL		0	3.5 wks	\$0.00	\$84,000.00	\$11,580.00	\$95,580.00	\$27,224.40	\$28,442.00	\$151,246.40
4520	1.3.1.4.2.1	Hardware	LLNL	M&S	2	0 wks	\$0.00	\$56,000.00	\$0.00	\$56,000.00	\$10,584.00	\$16,646.00	\$83,230.00
		<i>LLNL M&S Total</i>		M&S	0	56,000	\$0.00	\$0.00	\$0.00	\$56,000.00	\$0.00	\$0.00	\$0.00
4521	1.3.1.4.2.1	Hardware	LLNL	ED&I	2	0.5 wks	\$0.00	\$0.00	\$1,260.00	\$1,260.00	\$1,234.80	\$623.70	\$3,118.50
		<i>LLNL PCD:Coordinator Associate</i>		ED&I	0	0.5 wks	\$0.00	\$0.00	\$0.00	\$1,260.00	\$0.00	\$0.00	\$0.00
4522	1.3.1.4.2.1	Sample holder	LLNL	M&S	2	0 wks	\$0.00	\$9,000.00	\$0.00	\$9,000.00	\$1,701.00	\$2,675.25	\$13,376.25
		<i>LLNL M&S Total</i>		M&S	0	9,000	\$0.00	\$0.00	\$0.00	\$9,000.00	\$0.00	\$0.00	\$0.00
4523	1.3.1.4.2.1	Optical Table	LLNL	M&S	1	0 wks	\$0.00	\$19,000.00	\$0.00	\$19,000.00	\$3,591.00	\$3,388.65	\$25,979.65
		<i>LLNL M&S Total</i>		M&S	0	19,000	\$0.00	\$0.00	\$0.00	\$19,000.00	\$0.00	\$0.00	\$0.00
4524	1.3.1.4.2.1	Assly & Test	LLNL	B&H	2	3 wks	\$0.00	\$0.00	\$10,320.00	\$10,320.00	\$10,113.60	\$5,108.40	\$25,542.00
		<i>LLNL Precision Crafts (mach/tech)</i>		B&H	0	3 wks	\$0.00	\$0.00	\$0.00	\$10,320.00	\$0.00	\$0.00	\$0.00
4525	1.3.1.4.2.2	Controls & Elect	LLNL		0	3.2 wks	\$0.00	\$23,000.00	\$6,864.00	\$29,864.00	\$11,073.72	\$10,234.43	\$51,172.15
4526	1.3.1.4.2.2	Hardware	LLNL	M&S	2	0 wks	\$0.00	\$23,000.00	\$0.00	\$23,000.00	\$4,347.00	\$6,836.75	\$34,183.75
		<i>LLNL M&S Total</i>		M&S	0	23,000	\$0.00	\$0.00	\$0.00	\$23,000.00	\$0.00	\$0.00	\$0.00
4527	1.3.1.4.2.2	Hardware	LLNL	ED&I	2	0.2 wks	\$0.00	\$0.00	\$504.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL PCD:Coordinator Associate</i>		ED&I	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$504.00	\$0.00	\$0.00	\$0.00
4528	1.3.1.4.2.2	Assly & Test	LLNL	B&H	2	3 wks	\$0.00	\$0.00	\$6,360.00	\$6,360.00	\$6,232.80	\$3,148.20	\$15,741.00
		<i>LLNL Controls: Technician</i>		B&H	0	3 wks	\$0.00	\$0.00	\$0.00	\$6,360.00	\$0.00	\$0.00	\$0.00
4529	1.3.1.4.2.3	Integ & Test	LLNL		0	7 wks	\$0.00	\$0.00	\$24,080.00	\$24,080.00	\$23,598.40	\$11,919.60	\$59,598.00
4530	1.3.1.4.2.3	Bench Assembly	LLNL	B&H	2	3 wks	\$0.00	\$0.00	\$10,320.00	\$10,320.00	\$10,113.60	\$5,108.40	\$25,542.00
		<i>LLNL Precision Crafts (mach/tech)</i>		B&H	0	3 wks	\$0.00	\$0.00	\$0.00	\$10,320.00	\$0.00	\$0.00	\$0.00
4531	1.3.1.4.2.3	Perform Test	LLNL	B&H	2	2 wks	\$0.00	\$0.00	\$6,880.00	\$6,880.00	\$6,742.40	\$3,405.60	\$17,028.00
		<i>LLNL Precision Crafts (mach/tech)</i>		B&H	0	2 wks	\$0.00	\$0.00	\$0.00	\$6,880.00	\$0.00	\$0.00	\$0.00
4532	1.3.1.4.2.3	Beamline install	LLNL	B&H	2	2 wks	\$0.00	\$0.00	\$6,880.00	\$6,880.00	\$6,742.40	\$3,405.60	\$17,028.00
		<i>LLNL Precision Crafts (mach/tech)</i>		B&H	0	2 wks	\$0.00	\$0.00	\$0.00	\$6,880.00	\$0.00	\$0.00	\$0.00
4533	1.3.1.4.2.4	Tank	LLNL		0	4 wks	\$0.00	\$40,000.00	\$9,120.00	\$49,120.00	\$16,497.60	\$12,837.40	\$78,455.00
4534	1.3.1.4.2.4	Fabrication	LLNL	M&S	1	0 wks	\$0.00	\$30,000.00	\$0.00	\$30,000.00	\$5,670.00	\$5,350.50	\$41,020.50
		<i>LLNL M&S Total</i>		M&S	0	30,000	\$0.00	\$0.00	\$0.00	\$30,000.00	\$0.00	\$0.00	\$0.00
4535	1.3.1.4.2.4	Accept. Test	LLNL	M&S	2	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$1,890.00	\$2,972.50	\$14,862.50
		<i>LLNL M&S Total</i>		M&S	0	10,000	\$0.00	\$0.00	\$0.00	\$10,000.00	\$0.00	\$0.00	\$0.00
4536	1.3.1.4.2.4	Installation	LLNL	B&H	2	4 wks	\$0.00	\$0.00	\$9,120.00	\$9,120.00	\$8,937.60	\$4,514.40	\$22,572.00
		<i>LLNL Mech. Fab: Plating & Cleaning</i>		B&H	0	4 wks	\$0.00	\$0.00	\$0.00	\$9,120.00	\$0.00	\$0.00	\$0.00
4537	1.3.1.4.2.5	Vacuum	LLNL		0	4 wks	\$0.00	\$71,000.00	\$9,120.00	\$80,120.00	\$22,356.60	\$15,371.49	\$117,848.09
4538	1.3.1.4.2.5	Pumps	LLNL	M&S	1	0 wks	\$0.00	\$57,000.00	\$0.00	\$57,000.00	\$10,773.00	\$10,165.95	\$77,938.95
		<i>LLNL M&S Total</i>		M&S	0	57,000	\$0.00	\$0.00	\$0.00	\$57,000.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
4539	1.3.1.4.2.5	Gauges	LLNL	M&S	1	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$1,134.00	\$1,070.10	\$8,204.10
		<i>LLNL M&S Total</i>		M&S	0	6,000	\$0.00	\$0.00	\$0.00	\$6,000.00	\$0.00	\$0.00	\$0.00
4540	1.3.1.4.2.5	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$1,512.00	\$1,426.80	\$10,938.80
		<i>LLNL M&S Total</i>		M&S	0	8,000	\$0.00	\$0.00	\$0.00	\$8,000.00	\$0.00	\$0.00	\$0.00
4541	1.3.1.4.2.5	Installation	LLNL	B&H	1	1 wk	\$0.00	\$0.00	\$2,280.00	\$2,280.00	\$2,234.40	\$677.16	\$5,191.56
		<i>LLNL Mech. Fab: Plating & Cleaning</i>		B&H	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,280.00	\$0.00	\$0.00	\$0.00
4542	1.3.1.4.2.5	Leak check	LLNL	B&H	1	3 wks	\$0.00	\$0.00	\$6,840.00	\$6,840.00	\$6,703.20	\$2,031.48	\$15,574.68
		<i>LLNL Mech. Fab: Plating & Cleaning</i>		B&H	0	3 wks	\$0.00	\$0.00	\$0.00	\$6,840.00	\$0.00	\$0.00	\$0.00
4543	1.3.1.4.2.6	Stand	LLNL		0	0.2 wks	\$0.00	\$10,000.00	\$456.00	\$10,456.00	\$2,336.88	\$1,783.50	\$14,576.38
4544	1.3.1.4.2.6	Fabrication	LLNL	M&S	1	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$1,890.00	\$1,783.50	\$13,673.50
		<i>LLNL M&S Total</i>		M&S	0	10,000	\$0.00	\$0.00	\$0.00	\$10,000.00	\$0.00	\$0.00	\$0.00
4545	1.3.1.4.2.6	Installation	LLNL	B&H	0	0.2 wks	\$0.00	\$0.00	\$456.00	\$456.00	\$446.88	\$0.00	\$902.88
		<i>LLNL Mech. Fab: Plating & Cleaning</i>		B&H	1	0.2 wks	\$0.00	\$0.00	\$0.00	\$456.00	\$0.00	\$0.00	\$0.00
4546	1.3.1.4.3	Optics Tank B2 1			0	9 wks	\$0.00	\$121,000.00	\$20,520.00	\$141,520.00	\$42,978.60	\$27,674.79	\$212,173.39
4547	1.3.1.4.3.1	Tank	LLNL		0	4 wks	\$0.00	\$40,000.00	\$9,120.00	\$49,120.00	\$16,497.60	\$9,842.64	\$75,460.24
4548	1.3.1.4.3.1	Fabrication	LLNL	M&S	1	0 wks	\$0.00	\$30,000.00	\$0.00	\$30,000.00	\$5,670.00	\$5,350.50	\$41,020.50
		<i>LLNL M&S Total</i>		M&S	0	30,000	\$0.00	\$0.00	\$0.00	\$30,000.00	\$0.00	\$0.00	\$0.00
4549	1.3.1.4.3.1	Accept. Test	LLNL	M&S	1	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$1,890.00	\$1,783.50	\$13,673.50
		<i>LLNL M&S Total</i>		M&S	0	10,000	\$0.00	\$0.00	\$0.00	\$10,000.00	\$0.00	\$0.00	\$0.00
4550	1.3.1.4.3.1	Installation	LLNL	B&H	1	4 wks	\$0.00	\$0.00	\$9,120.00	\$9,120.00	\$8,937.60	\$2,708.64	\$20,766.24
		<i>LLNL Mech. Fab: Plating & Cleaning</i>		B&H	0	4 wks	\$0.00	\$0.00	\$0.00	\$9,120.00	\$0.00	\$0.00	\$0.00
4551	1.3.1.4.3.2	Vacuum	LLNL		0	4 wks	\$0.00	\$71,000.00	\$9,120.00	\$80,120.00	\$22,356.60	\$15,371.49	\$117,848.09
4552	1.3.1.4.3.2	Pumps	LLNL	M&S	1	0 wks	\$0.00	\$57,000.00	\$0.00	\$57,000.00	\$10,773.00	\$10,165.95	\$77,938.95
		<i>LLNL M&S Total</i>		M&S	0	57,000	\$0.00	\$0.00	\$0.00	\$57,000.00	\$0.00	\$0.00	\$0.00
4553	1.3.1.4.3.2	Gauges	LLNL	M&S	1	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$1,134.00	\$1,070.10	\$8,204.10
		<i>LLNL M&S Total</i>		M&S	0	6,000	\$0.00	\$0.00	\$0.00	\$6,000.00	\$0.00	\$0.00	\$0.00
4554	1.3.1.4.3.2	Hardware	LLNL	M&S	1	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$1,512.00	\$1,426.80	\$10,938.80
		<i>LLNL M&S Total</i>		M&S	0	8,000	\$0.00	\$0.00	\$0.00	\$8,000.00	\$0.00	\$0.00	\$0.00
4555	1.3.1.4.3.2	Installation	LLNL	B&H	1	1 wk	\$0.00	\$0.00	\$2,280.00	\$2,280.00	\$2,234.40	\$677.16	\$5,191.56
		<i>LLNL Mech. Fab: Plating & Cleaning</i>		B&H	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,280.00	\$0.00	\$0.00	\$0.00
4556	1.3.1.4.3.2	Leak check	LLNL	B&H	1	3 wks	\$0.00	\$0.00	\$6,840.00	\$6,840.00	\$6,703.20	\$2,031.48	\$15,574.68
		<i>LLNL Mech. Fab: Plating & Cleaning</i>		B&H	0	3 wks	\$0.00	\$0.00	\$0.00	\$6,840.00	\$0.00	\$0.00	\$0.00
4557	1.3.1.4.3.3	Stand	LLNL		0	1 wk	\$0.00	\$10,000.00	\$2,280.00	\$12,280.00	\$4,124.40	\$2,460.66	\$18,865.06
4558	1.3.1.4.3.3	Fabrication	LLNL	M&S	1	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$1,890.00	\$1,783.50	\$13,673.50
		<i>LLNL M&S Total</i>		M&S	0	10,000	\$0.00	\$0.00	\$0.00	\$10,000.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
4559	1.3.1.4.3.3	Installation	LLNL	B&H	1	1 wk	\$0.00	\$0.00	\$2,280.00	\$2,280.00	\$2,234.40	\$677.16	\$5,191.56
		<i>LLNL Mech. Fab: Plating & Cleaning</i>		B&H	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,280.00	\$0.00	\$0.00	\$0.00
4560	1.3.1.4.4	Refractive Lenses			0	40 wks	\$0.00	\$85,000.00	\$96,000.00	\$181,000.00	\$110,145.00	\$70,408.25	\$361,553.25
4561	1.3.1.4.4.1	Diamond Turned Form	LLNL		0	12 wks	\$0.00	\$24,000.00	\$36,440.00	\$60,440.00	\$40,247.20	\$22,793.80	\$123,481.00
4562	1.3.1.4.4.1	Tool	LLNL	M&S	1	0 wks	\$0.00	\$18,000.00	\$0.00	\$18,000.00	\$3,402.00	\$3,210.30	\$24,612.30
		<i>LLNL M&S Total</i>		M&S	0	18,000	\$0.00	\$0.00	\$0.00	\$18,000.00	\$0.00	\$0.00	\$0.00
4563	1.3.1.4.4.1	Blanks	LLNL	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$378.00	\$356.70	\$2,734.70
		<i>LLNL M&S Total</i>		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
4564	1.3.1.4.4.1	Blank Preparation	LLNL	B&H	2	2 wks	\$0.00	\$0.00	\$4,560.00	\$4,560.00	\$4,468.80	\$2,257.20	\$11,286.00
		<i>LLNL Mech. Fab: Machine Shop</i>		B&H	0	2 wks	\$0.00	\$0.00	\$0.00	\$4,560.00	\$0.00	\$0.00	\$0.00
4565	1.3.1.4.4.1	Diamond turning fixture parts	LLNL	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$378.00	\$594.50	\$2,972.50
		<i>LLNL M&S Total</i>		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
4566	1.3.1.4.4.1	Diamond turning fixture fabrication	LLNL	B&H	2	2 wks	\$0.00	\$0.00	\$6,880.00	\$6,880.00	\$6,742.40	\$3,405.60	\$17,028.00
		<i>LLNL Precision Crafts (mach/tech)</i>		B&H	0	2 wks	\$0.00	\$0.00	\$0.00	\$6,880.00	\$0.00	\$0.00	\$0.00
4567	1.3.1.4.4.1	Diamond Turning	LLNL	B&H	2	6 wks	\$0.00	\$0.00	\$20,640.00	\$20,640.00	\$20,227.20	\$10,216.80	\$51,084.00
		<i>LLNL Precision Crafts (mach/tech)</i>		B&H	0	6 wks	\$0.00	\$0.00	\$0.00	\$20,640.00	\$0.00	\$0.00	\$0.00
4568	1.3.1.4.4.1	Form mount materials	LLNL	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$378.00	\$594.50	\$2,972.50
		<i>LLNL M&S Total</i>		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
4569	1.3.1.4.4.1	Form mount labor	LLNL	B&H	2	1 wk	\$0.00	\$0.00	\$2,280.00	\$2,280.00	\$2,234.40	\$1,128.60	\$5,643.00
		<i>LLNL Mech. Fab: Machine Shop</i>		B&H	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,280.00	\$0.00	\$0.00	\$0.00
4570	1.3.1.4.4.1	Assemble form to mount	LLNL	B&H	2	1 wk	\$0.00	\$0.00	\$2,080.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		B&H	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,080.00	\$0.00	\$0.00	\$0.00
4571	1.3.1.4.4.2	Press	LLNL		0	4 wks	\$0.00	\$14,000.00	\$8,920.00	\$22,920.00	\$11,387.60	\$8,576.90	\$42,884.50
4572	1.3.1.4.4.2	Refurbish Gloce Box Parts	LLNL	M&S	2	0 wks	\$0.00	\$12,000.00	\$0.00	\$12,000.00	\$2,268.00	\$3,567.00	\$17,835.00
		<i>LLNL M&S Total</i>		M&S	0	12,000	\$0.00	\$0.00	\$0.00	\$12,000.00	\$0.00	\$0.00	\$0.00
4573	1.3.1.4.4.2	Refurbish Gloce Box Labor	LLNL	B&H	2	2 wks	\$0.00	\$0.00	\$4,560.00	\$4,560.00	\$4,468.80	\$2,257.20	\$11,286.00
		<i>LLNL Mech. Fab: Plating & Cleaning</i>		B&H	0	2 wks	\$0.00	\$0.00	\$0.00	\$4,560.00	\$0.00	\$0.00	\$0.00
4574	1.3.1.4.4.2	Press Parts	LLNL	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$378.00	\$594.50	\$2,972.50
		<i>LLNL M&S Total</i>		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
4575	1.3.1.4.4.2	Press Machining	LLNL	B&H	2	1 wk	\$0.00	\$0.00	\$2,280.00	\$2,280.00	\$2,234.40	\$1,128.60	\$5,643.00
		<i>LLNL Mech. Fab: Machine Shop</i>		B&H	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,280.00	\$0.00	\$0.00	\$0.00
4576	1.3.1.4.4.2	Press Assembly	LLNL	B&H	2	1 wk	\$0.00	\$0.00	\$2,080.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		B&H	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,080.00	\$0.00	\$0.00	\$0.00
4577	1.3.1.4.4.3	Lens Mount	LLNL		0	4 wks	\$0.00	\$5,000.00	\$8,320.00	\$13,320.00	\$9,098.60	\$5,604.65	\$28,023.25
4578	1.3.1.4.4.3	Material	LLNL	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$945.00	\$1,486.25	\$7,431.25

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4579	1.3.1.4.4.3	Machining	LLNL	B&H	2	2 wks	\$0.00	\$0.00	\$4,160.00	\$4,160.00	\$4,076.80	\$2,059.20	\$10,296.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4580	1.3.1.4.4.3	Assembly	LLNL	B&H	2	2 wks	\$0.00	\$0.00	\$4,160.00	\$4,160.00	\$4,076.80	\$2,059.20	\$10,296.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4581	1.3.1.4.4.4	Lens Fabrication	LLNL		0	12 wks	\$0.00	\$22,000.00	\$25,360.00	\$47,360.00	\$29,010.80	\$19,092.70	\$95,463.50
4582	1.3.1.4.4.4	Material	LLNL	M&S	2	0 wks	\$0.00	\$22,000.00	\$0.00	\$22,000.00	\$4,158.00	\$6,539.50	\$32,697.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>22,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$22,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4583	1.3.1.4.4.4	Pressing	LLNL	B&H	2	6 wks	\$0.00	\$0.00	\$12,480.00	\$12,480.00	\$12,230.40	\$6,177.60	\$30,888.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,480.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4584	1.3.1.4.4.4	Inspection	LLNL	B&H	2	2 wks	\$0.00	\$0.00	\$4,560.00	\$4,560.00	\$4,468.80	\$2,257.20	\$11,286.00
		<i>LLNL Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,560.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4585	1.3.1.4.4.4	Assembly	LLNL	B&H	2	4 wks	\$0.00	\$0.00	\$8,320.00	\$8,320.00	\$8,153.60	\$4,118.40	\$20,592.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4586	1.3.1.4.4.5	Lens Testing	LLNL		0	8 wks	\$0.00	\$20,000.00	\$16,960.00	\$36,960.00	\$20,400.80	\$14,340.20	\$71,701.00
4587	1.3.1.4.4.5	Materials	LLNL	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$1,134.00	\$1,783.50	\$8,917.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4588	1.3.1.4.4.5	Test Assembly	LLNL	B&H	2	4 wks	\$0.00	\$0.00	\$8,320.00	\$8,320.00	\$8,153.60	\$4,118.40	\$20,592.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4589	1.3.1.4.4.5	Testing	LLNL	ED&I	2	4 wks	\$0.00	\$0.00	\$8,640.00	\$8,640.00	\$8,467.20	\$4,276.80	\$21,384.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,640.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4590	1.3.1.4.4.5	Travel	LLNL	M&S	2	0 wks	\$0.00	\$14,000.00	\$0.00	\$14,000.00	\$2,646.00	\$4,161.50	\$20,807.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>14,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$14,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4591	1.3.1.5	Crystals and Gratings			0	2,231.3 wks	\$0.00	\$153,700.00	\$69,772.64	\$223,472.64	\$25,154.61	\$64,385.42	\$313,012.66
4592	1.3.1.5.1	Crystal Monochromator			0	17.35 wks	\$0.00	\$45,000.00	\$33,123.48	\$78,123.48	\$11,302.78	\$28,386.58	\$117,812.83
4593	1.3.1.5.1.1	Vacuum engineering parts	SLAC	M&S	3	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$742.00	\$2,862.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4594	1.3.1.5.1.1	Cyrstal & Mount	SLAC	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$318.00	\$2,438.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4595	1.3.1.5.1.1	Picomotor & driver parts	SLAC	M&S	1	0 wks	\$0.00	\$1,500.00	\$0.00	\$1,500.00	\$90.00	\$238.50	\$1,828.50
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,500</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,500.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4596	1.3.1.5.1.1	4 wy Cross Vessel Fab	SLAC	M&S	1	0 wks	\$0.00	\$2,900.00	\$0.00	\$2,900.00	\$174.00	\$461.10	\$3,535.10
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,900</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,900.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4597	1.3.1.5.1.1	Adapter Flanges	SLAC	M&S	3	0 wks	\$0.00	\$500.00	\$0.00	\$500.00	\$30.00	\$185.50	\$715.50
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>500</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$500.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
4598	1.3.1.5.1.1	Spindle Assembly parts	SLAC	M&S	3	0 wks	\$0.00	\$1,200.00	\$0.00	\$1,200.00	\$72.00	\$445.20	\$1,717.20
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,200</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4599	1.3.1.5.1.1	Spindle Assembly labor	SLAC	B&H	3	0.6 wks	\$0.00	\$0.00	\$1,199.28	\$1,199.28	\$239.86	\$503.70	\$1,942.83
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,199.28</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4600	1.3.1.5.1.1	Bearings	SLAC	M&S	3	0 wks	\$0.00	\$600.00	\$0.00	\$600.00	\$36.00	\$222.60	\$858.60
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>600</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4601	1.3.1.5.1.1	Fab & Machining parts	SLAC	M&S	3	0 wks	\$0.00	\$100.00	\$0.00	\$100.00	\$6.00	\$37.10	\$143.10
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>100</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$100.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4602	1.3.1.5.1.1	Fab & Machining labor	SLAC	B&H	3	0.2 wks	\$0.00	\$0.00	\$456.00	\$456.00	\$446.88	\$316.01	\$1,218.89
		<i>LLNL Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$456.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4603	1.3.1.5.1.1	Fab & Machining welding	SLAC		3	3.2 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4604	1.3.1.5.1.1	Sine Arm Drive Mechanical Assembly	SLAC	B&H	3	2 wks	\$0.00	\$0.00	\$3,997.60	\$3,997.60	\$799.52	\$1,678.99	\$6,476.11
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,997.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4605	1.3.1.5.1.1	Sine Arm Drive Electrical Assembly	SLAC	B&H	3	0.5 wks	\$0.00	\$0.00	\$1,000.00	\$1,000.00	\$200.00	\$420.00	\$1,620.00
		<i>SLACL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>0.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4606	1.3.1.5.1.1	Encoder-Heidenhain	SLAC	M&S	3	0 wks	\$0.00	\$7,300.00	\$0.00	\$7,300.00	\$438.00	\$2,708.30	\$10,446.30
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>7,300</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,300.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4607	1.3.1.5.1.1	Micrometer Mitutoyo	SLAC	M&S	3	0 wks	\$0.00	\$600.00	\$0.00	\$600.00	\$36.00	\$222.60	\$858.60
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>600</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4608	1.3.1.5.1.1	Gear Reducer/Adapter	SLAC	M&S	3	0 wks	\$0.00	\$5,100.00	\$0.00	\$5,100.00	\$306.00	\$1,892.10	\$7,298.10
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,100</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,100.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4609	1.3.1.5.1.1	Stepper Motor Drive Syst.	SLAC	M&S	3	0 wks	\$0.00	\$1,500.00	\$0.00	\$1,500.00	\$90.00	\$556.50	\$2,146.50
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,500</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,500.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4610	1.3.1.5.1.1	Bearing and Couplings	SLAC	M&S	3	0 wks	\$0.00	\$200.00	\$0.00	\$200.00	\$12.00	\$74.20	\$286.20
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>200</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4611	1.3.1.5.1.1	White Beam Stop Mechanical Assy	SLAC	B&H	3	1 wk	\$0.00	\$0.00	\$2,080.00	\$2,080.00	\$2,038.40	\$1,441.44	\$5,559.84
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4612	1.3.1.5.1.1	White Beam Stop Electrical Assy	SLAC	B&H	3	0.25 wks	\$0.00	\$0.00	\$500.00	\$500.00	\$100.00	\$210.00	\$810.00
		<i>SLACL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>0.25 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$500.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4613	1.3.1.5.1.1	Tee Vessel	SLAC	M&S	3	0 wks	\$0.00	\$600.00	\$0.00	\$600.00	\$36.00	\$222.60	\$858.60
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>600</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4614	1.3.1.5.1.1	Feedthru & Hardware	SLAC	M&S	3	0 wks	\$0.00	\$700.00	\$0.00	\$700.00	\$42.00	\$259.70	\$1,001.70
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>700</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$700.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4615	1.3.1.5.1.1	Support Stand Mechanical Assy	SLAC	B&H	3	0.1 wks	\$0.00	\$0.00	\$199.88	\$199.88	\$39.98	\$83.95	\$323.81
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.1 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$199.88</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
4616	1.3.1.5.1.1	Support Stand Electrical Assy	SLAC	B&H	3	0.25 wks	\$0.00	\$0.00	\$500.00	\$500.00	\$100.00	\$210.00	\$810.00
		<i>SLACL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>0.25 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$500.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4617	1.3.1.5.1.1	Fab, Welding & Maching	SLAC	M&S	3	0 wks	\$0.00	\$2,600.00	\$0.00	\$2,600.00	\$156.00	\$964.60	\$3,720.60
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,600</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4618	1.3.1.5.1.1	Ion Pump & Controller	SLAC	M&S	3	0 wks	\$0.00	\$5,400.00	\$0.00	\$5,400.00	\$324.00	\$2,003.40	\$7,727.40
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,400</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4619	1.3.1.5.1.1	Scoll Roughing Pump	SLAC	M&S	3	0 wks	\$0.00	\$9,000.00	\$0.00	\$9,000.00	\$540.00	\$3,339.00	\$12,879.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>9,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4620	1.3.1.5.1.1	Misc Hardware	SLAC	M&S	3	0 wks	\$0.00	\$700.00	\$0.00	\$700.00	\$42.00	\$259.70	\$1,001.70
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>700</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$700.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4621	1.3.1.5.1.1	plating	SLAC	B&H	2	1 wk	\$0.00	\$0.00	\$5,000.00	\$5,000.00	\$1,000.00	\$1,500.00	\$7,500.00
		<i>SLAC Mech. Fab: Plating & Cleaning</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4622	1.3.1.5.1.1	cleaning	SLAC	B&H	2	0.75 wks	\$0.00	\$0.00	\$2,400.00	\$2,400.00	\$480.00	\$720.00	\$3,600.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>0.75 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4623	1.3.1.5.1.1	braze/weld	SLAC	B&H	3	1.8 wks	\$0.00	\$0.00	\$4,104.00	\$4,104.00	\$820.80	\$1,723.68	\$6,648.48
		<i>SLACL T&M Crafts - Welder</i>		<i>B&H</i>	<i>0</i>	<i>1.8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,104.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4624	1.3.1.5.1.1	Support Parts	SLAC	M&S	3	0 wks	\$0.00	\$500.00	\$0.00	\$500.00	\$30.00	\$185.50	\$715.50
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>500</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$500.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4625	1.3.1.5.1.1	Support Fab & Machining	SLAC	B&H	3	1 wk	\$0.00	\$0.00	\$1,998.80	\$1,998.80	\$399.76	\$839.50	\$3,238.06
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,998.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4626	1.3.1.5.1.1	vacuum mechanical assembly	SLAC	B&H	1	1.2 wks	\$0.00	\$0.00	\$2,398.56	\$2,398.56	\$479.71	\$431.74	\$3,310.01
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,398.56</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4627	1.3.1.5.1.1	vacuum electrical assembly	SLAC	ED&I	1	0.2 wks	\$0.00	\$0.00	\$384.00	\$384.00	\$76.80	\$69.12	\$529.92
		<i>SLAC PCD:Coordinator Associate</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$384.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4628	1.3.1.5.1.1	alignment	SLAC	B&H	3	1 wk	\$0.00	\$0.00	\$2,280.00	\$2,280.00	\$456.00	\$957.60	\$3,693.60
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,280.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4629	1.3.1.5.1.1	installation mechanical assembly	SLAC	B&H	3	2.2 wks	\$0.00	\$0.00	\$4,397.36	\$4,397.36	\$879.47	\$1,846.89	\$7,123.72
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>2.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,397.36</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4630	1.3.1.5.1.1	installation welding	SLAC	B&H	3	0.1 wks	\$0.00	\$0.00	\$228.00	\$228.00	\$45.60	\$95.76	\$369.36
		<i>SLACL T&M Crafts - Welder</i>		<i>B&H</i>	<i>0</i>	<i>0.1 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$228.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4631	1.3.1.5.2	Pulse Split and delay			0	2,213.95 wks	\$0.00	\$108,700.00	\$36,649.16	\$145,349.16	\$13,851.83	\$35,998.84	\$195,199.83
4632	1.3.1.5.2.1	Vacuum engr M&S	SLAC	M&S	3	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$742.00	\$2,862.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4633	1.3.1.5.2.1	Vacuum Chamber Fab	SLAC	M&S	1	0 wks	\$0.00	\$22,500.00	\$0.00	\$22,500.00	\$1,350.00	\$3,577.50	\$27,427.50
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>22,500</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$22,500.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
4634	1.3.1.5.2.1	technician	SLAC	B&H	3	0.2 wks	\$0.00	\$0.00	\$399.76	\$399.76	\$79.95	\$167.90	\$647.61
		SLAC Mech. Fab: Assembly Tech		B&H	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$399.76	\$0.00	\$0.00	\$0.00
4635	1.3.1.5.2.1	Adapter Flanges	SLAC	M&S	3	0 wks	\$0.00	\$500.00	\$0.00	\$500.00	\$30.00	\$185.50	\$715.50
		SLAC M&S Total		M&S	0	500	\$0.00	\$0.00	\$0.00	\$500.00	\$0.00	\$0.00	\$0.00
4636	1.3.1.5.2.1	Support Stand Assy	SLAC	B&H	3	0.2 wks	\$0.00	\$0.00	\$399.76	\$399.76	\$79.95	\$167.90	\$647.61
		SLAC Mech. Fab: Assembly Tech		B&H	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$399.76	\$0.00	\$0.00	\$0.00
4637	1.3.1.5.2.1	Fab, Welding & Maching Material	SLAC	M&S	3	0 wks	\$0.00	\$2,400.00	\$0.00	\$2,400.00	\$144.00	\$890.40	\$3,434.40
		SLAC M&S Total		M&S	0	2,400	\$0.00	\$0.00	\$0.00	\$2,400.00	\$0.00	\$0.00	\$0.00
4638	1.3.1.5.2.1	Fab, Welding & Maching Labor	SLAC		3	0.3 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		SLAC T&M Crafts - Welder			0	0.3 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4639	1.3.1.5.2.1	Assy Base Plate	SLAC	M&S	3	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$371.00	\$1,431.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
4640	1.3.1.5.2.1	Crystal Goniometers M-035 Material	SLAC	M&S	1	0 wks	\$0.00	\$3,800.00	\$0.00	\$3,800.00	\$228.00	\$604.20	\$4,632.20
		SLAC M&S Total		M&S	0	3,800	\$0.00	\$0.00	\$0.00	\$3,800.00	\$0.00	\$0.00	\$0.00
4641	1.3.1.5.2.1	Crystal Goniometers M-035 Labor	SLAC	B&H	1	0.4 wks	\$0.00	\$0.00	\$799.52	\$799.52	\$159.90	\$143.91	\$1,103.34
		SLAC Mech. Fab: Assembly Tech		B&H	0	0.4 wks	\$0.00	\$0.00	\$0.00	\$799.52	\$0.00	\$0.00	\$0.00
4642	1.3.1.5.2.1	Goniom. Control 4Ch.	SLAC	M&S	1	0 wks	\$0.00	\$4,600.00	\$0.00	\$4,600.00	\$276.00	\$731.40	\$5,607.40
		SLAC M&S Total		M&S	0	4,600	\$0.00	\$0.00	\$0.00	\$4,600.00	\$0.00	\$0.00	\$0.00
4643	1.3.1.5.2.1	Amp/Pos Servo Controller	SLAC	M&S	1	0 wks	\$0.00	\$3,700.00	\$0.00	\$3,700.00	\$222.00	\$588.30	\$4,510.30
		SLAC M&S Total		M&S	0	3,700	\$0.00	\$0.00	\$0.00	\$3,700.00	\$0.00	\$0.00	\$0.00
4644	1.3.1.5.2.1	Amp Module 3 Ch.	SLAC	M&S	1	0 wks	\$0.00	\$2,200.00	\$0.00	\$2,200.00	\$132.00	\$349.80	\$2,681.80
		SLAC M&S Total		M&S	0	2,200	\$0.00	\$0.00	\$0.00	\$2,200.00	\$0.00	\$0.00	\$0.00
4645	1.3.1.5.2.1	Controller Chassis	SLAC	M&S	1	0 wks	\$0.00	\$2,600.00	\$0.00	\$2,600.00	\$156.00	\$413.40	\$3,169.40
		SLAC M&S Total		M&S	0	2,600	\$0.00	\$0.00	\$0.00	\$2,600.00	\$0.00	\$0.00	\$0.00
4646	1.3.1.5.2.1	Amp Module 3 Ch.	SLAC	M&S	1	0 wks	\$0.00	\$4,600.00	\$0.00	\$4,600.00	\$276.00	\$731.40	\$5,607.40
		SLAC M&S Total		M&S	0	4,600	\$0.00	\$0.00	\$0.00	\$4,600.00	\$0.00	\$0.00	\$0.00
4647	1.3.1.5.2.1	Precision Lin. Stage UMP-160	SLAC	M&S	1	0 wks	\$0.00	\$22,900.00	\$0.00	\$22,900.00	\$1,374.00	\$3,641.10	\$27,915.10
		SLAC M&S Total		M&S	0	22,900	\$0.00	\$0.00	\$0.00	\$22,900.00	\$0.00	\$0.00	\$0.00
4648	1.3.1.5.2.1	Precision Lin. Stage UMP-160 Labor	SLAC	B&H	1	2 wks	\$0.00	\$0.00	\$6,400.00	\$6,400.00	\$1,280.00	\$1,152.00	\$8,832.00
		SLAC Mech. Fab: Machine Shop		B&H	0	2 wks	\$0.00	\$0.00	\$0.00	\$6,400.00	\$0.00	\$0.00	\$0.00
4649	1.3.1.5.2.1	Stepper Controller +Rack	SLAC	M&S	1	0 wks	\$0.00	\$5,600.00	\$0.00	\$5,600.00	\$336.00	\$890.40	\$6,826.40
		SLAC M&S Total		M&S	0	5,600	\$0.00	\$0.00	\$0.00	\$5,600.00	\$0.00	\$0.00	\$0.00
4650	1.3.1.5.2.1	Misc Cables & hrdwr.	SLAC	M&S	1	0 wks	\$0.00	\$500.00	\$0.00	\$500.00	\$30.00	\$79.50	\$609.50
		SLAC M&S Total		M&S	0	500	\$0.00	\$0.00	\$0.00	\$500.00	\$0.00	\$0.00	\$0.00
4651	1.3.1.5.2.1	Detector Actuator Assys Parts	SLAC	M&S	3	0 wks	\$0.00	\$1,200.00	\$0.00	\$1,200.00	\$72.00	\$445.20	\$1,717.20

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,200</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4652	1.3.1.5.2.1	Detector Actuator Assys Labor	SLAC	B&H	3	2 wks	\$0.00	\$0.00	\$3,997.60	\$3,997.60	\$799.52	\$1,678.99	\$6,476.11
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,997.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4653	1.3.1.5.2.1	Detector mount fixtures	SLAC	M&S	3	0 wks	\$0.00	\$1,200.00	\$0.00	\$1,200.00	\$72.00	\$445.20	\$1,717.20
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,200</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4654	1.3.1.5.2.1	Diode Detectors	SLAC	M&S	3	0 wks	\$0.00	\$400.00	\$0.00	\$400.00	\$24.00	\$148.40	\$572.40
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>400</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4655	1.3.1.5.2.1	Detector Amplifier	SLAC	M&S	3	0 wks	\$0.00	\$2,700.00	\$0.00	\$2,700.00	\$162.00	\$1,001.70	\$3,863.70
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,700</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,700.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4656	1.3.1.5.2.1	Detector P.Supply	SLAC	M&S	3	0 wks	\$0.00	\$1,500.00	\$0.00	\$1,500.00	\$90.00	\$556.50	\$2,146.50
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,500</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,500.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4657	1.3.1.5.2.1	V to F Counter	SLAC	M&S	3	0 wks	\$0.00	\$1,500.00	\$0.00	\$1,500.00	\$90.00	\$556.50	\$2,146.50
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,500</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,500.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4658	1.3.1.5.2.1	Thick Silicon Crystals	SLAC	M&S	3	0 wks	\$0.00	\$500.00	\$0.00	\$500.00	\$30.00	\$185.50	\$715.50
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>500</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$500.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4659	1.3.1.5.2.1	Cut Silicon Crystals	SLAC	M&S	3	0 wks	\$0.00	\$500.00	\$0.00	\$500.00	\$30.00	\$185.50	\$715.50
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>500</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$500.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4660	1.3.1.5.2.1	Polish Silicon Crystals	SLAC	M&S	3	0 wks	\$0.00	\$500.00	\$0.00	\$500.00	\$30.00	\$185.50	\$715.50
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>500</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$500.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4661	1.3.1.5.2.1	Thin Silicon Crystal	SLAC	M&S	3	0 wks	\$0.00	\$300.00	\$0.00	\$300.00	\$18.00	\$111.30	\$429.30
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>300</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$300.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4662	1.3.1.5.2.1	Goniometer Hds (Huber1002)	SLAC	M&S	3	0 wks	\$0.00	\$1,200.00	\$0.00	\$1,200.00	\$72.00	\$445.20	\$1,717.20
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,200</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4663	1.3.1.5.2.1	Goniometer Hds (Huber1002) Labor	SLAC	B&H	3	0.2 wks	\$0.00	\$0.00	\$399.76	\$399.76	\$79.95	\$167.90	\$647.61
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$399.76</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4664	1.3.1.5.2.1	ACA Mounts	SLAC	M&S	3	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$371.00	\$1,431.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4665	1.3.1.5.2.1	Crystal Mounting Fixtures Parts	SLAC	M&S	3	0 wks	\$0.00	\$200.00	\$0.00	\$200.00	\$12.00	\$74.20	\$286.20
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>200</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4666	1.3.1.5.2.1	Crystal Mounting Fixtures Labor	SLAC	B&H	3	0.1 wks	\$0.00	\$0.00	\$199.88	\$199.88	\$39.98	\$83.95	\$323.81
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.1 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$199.88</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4667	1.3.1.5.2.1	Feedthru & Hardware Parts	SLAC		3	2,200 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4668	1.3.1.5.2.1	Feedthru & Hardware Labor	SLAC	B&H	3	0.2 wks	\$0.00	\$0.00	\$399.76	\$399.76	\$79.95	\$167.90	\$647.61
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$399.76</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4669	1.3.1.5.2.1	Ion Pump & Controller	SLAC	M&S	3	0 wks	\$0.00	\$5,400.00	\$0.00	\$5,400.00	\$324.00	\$2,003.40	\$7,727.40

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,400</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4670	1.3.1.5.2.1	Misc Hardware	SLAC	M&S	3	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$600.00	\$3,710.00	\$14,310.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4671	1.3.1.5.2.1	Misc plating/cleaning parts	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4672	1.3.1.5.2.1	Misc plating/cleaning plating labor	SLAC	B&H	2	1 wk	\$0.00	\$0.00	\$5,000.00	\$5,000.00	\$1,000.00	\$1,500.00	\$7,500.00
		<i>SLAC Mech. Fab: Plating & Cleaning</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4673	1.3.1.5.2.1	Misc plating/cleaning labor	SLAC	B&H	2	0.75 wks	\$0.00	\$0.00	\$2,400.00	\$2,400.00	\$480.00	\$720.00	\$3,600.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>0.75 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4674	1.3.1.5.2.1	Misc brazing/welding parts	SLAC	M&S	3	0 wks	\$0.00	\$500.00	\$0.00	\$500.00	\$30.00	\$185.50	\$715.50
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>500</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$500.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4675	1.3.1.5.2.1	Misc brazing/welding assembly	SLAC	B&H	3	1 wk	\$0.00	\$0.00	\$5,000.00	\$5,000.00	\$1,000.00	\$2,100.00	\$8,100.00
		<i>SLAC Mech. Fab: Plating & Cleaning</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4676	1.3.1.5.2.1	Misc brazing/welding welding	SLAC	B&H	3	0.2 wks	\$0.00	\$0.00	\$456.00	\$456.00	\$91.20	\$191.52	\$738.72
		<i>SLACL T&M Crafts - Welder</i>		<i>B&H</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$456.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4677	1.3.1.5.2.1	vacuum assembly hardware	SLAC	M&S	1	0 wks	\$0.00	\$200.00	\$0.00	\$200.00	\$12.00	\$31.80	\$243.80
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>200</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4678	1.3.1.5.2.1	vacuum assembly	SLAC	B&H	1	3 wks	\$0.00	\$0.00	\$5,996.40	\$5,996.40	\$1,199.28	\$1,079.35	\$8,275.03
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,996.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4679	1.3.1.5.2.1	vacuum tech	SLAC	B&H	1	0.1 wks	\$0.00	\$0.00	\$175.36	\$175.36	\$35.07	\$31.56	\$242.00
		<i>SLAC PCD:Technician</i>		<i>B&H</i>	<i>0</i>	<i>0.1 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$175.36</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4680	1.3.1.5.2.1	installation assembly	SLAC	B&H	3	2.2 wks	\$0.00	\$0.00	\$4,397.36	\$4,397.36	\$879.47	\$1,846.89	\$7,123.72
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>2.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,397.36</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4681	1.3.1.5.2.1	installation welding	SLAC	B&H	3	0.1 wks	\$0.00	\$0.00	\$228.00	\$228.00	\$45.60	\$95.76	\$369.36
		<i>SLACL T&M Crafts - Welder</i>		<i>B&H</i>	<i>0</i>	<i>0.1 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$228.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4682	1.3.1.6	Diagnostics			0	435.69 wks	\$0.00	\$3,846,001.00	\$973,311.60	\$4,819,312.60	\$1,680,739.56	\$1,492,498.86	\$7,992,551.02
4683	1.3.1.6.1	Modeling and Simulation			0	2 wks	\$0.00	\$14,000.00	\$4,240.00	\$18,240.00	\$6,801.20	\$6,260.30	\$31,301.50
4684	1.3.1.6.1.1	Computer System	LLNL		0	2 wks	\$0.00	\$14,000.00	\$4,240.00	\$18,240.00	\$6,801.20	\$6,260.30	\$31,301.50
4685	1.3.1.6.1.1	Computer Documentation & drafting	LLNL	ED&I	2	1 wk	\$0.00	\$0.00	\$2,160.00	\$2,160.00	\$2,116.80	\$1,069.20	\$5,346.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4686	1.3.1.6.1.1	Computer labor	LLNL	B&H	2	1 wk	\$0.00	\$0.00	\$2,080.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL PCD:Technician</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4687	1.3.1.6.1.1	Computer	LLNL	M&S	2	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$1,890.00	\$2,972.50	\$14,862.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4688	1.3.1.6.1.1	Monitor	LLNL	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$756.00	\$1,189.00	\$5,945.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4689	1.3.1.6.2	Direct Scintillator Imager			0	27.13 wks	\$0.00	\$440,000.00	\$59,535.60	\$499,535.60	\$141,504.89	\$142,781.82	\$783,822.31
4690	1.3.1.6.2.1	Reserved	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4691	1.3.1.6.2.2	Reserved	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4692	1.3.1.6.2.3	Data Acquisition	LLNL		0	1 wk	\$0.00	\$39,000.00	\$2,080.00	\$41,080.00	\$9,409.40	\$12,622.35	\$63,111.75
4693	1.3.1.6.2.3	Computer labor	LLNL	B&H	2	1 wk	\$0.00	\$0.00	\$2,080.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL PCD:Technician</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4694	1.3.1.6.2.3	Computer	LLNL	M&S	2	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$1,890.00	\$2,972.50	\$14,862.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4695	1.3.1.6.2.3	Monitor	LLNL	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$756.00	\$1,189.00	\$5,945.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4696	1.3.1.6.2.3	Stage controller Channel-Card	LLNL	M&S	2	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$1,323.00	\$2,080.75	\$10,403.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>7,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4697	1.3.1.6.2.3	GPis Card	LLNL	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$297.25	\$1,486.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4698	1.3.1.6.2.3	Diagnostic Hardware & Controller	LLNL	M&S	2	0 wks	\$0.00	\$17,000.00	\$0.00	\$17,000.00	\$3,213.00	\$5,053.25	\$25,266.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>17,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$17,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4699	1.3.1.6.2.4	Prototype	LLNL		0	8.13 wks	\$0.00	\$70,000.00	\$18,135.60	\$88,135.60	\$31,002.89	\$26,455.42	\$145,593.91
4700	1.3.1.6.2.4	Scintillating Crystal	LLNL	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$378.00	\$594.50	\$2,972.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4701	1.3.1.6.2.4	Prism	LLNL	M&S	1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4702	1.3.1.6.2.4	Prism mount	LLNL	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$297.25	\$1,486.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4703	1.3.1.6.2.4	Prism to objective motorized stage	LLNL	M&S	1	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$1,512.00	\$1,426.80	\$10,938.80
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4704	1.3.1.6.2.4	Microscope objective	LLNL	M&S	1	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$567.00	\$535.05	\$4,102.05
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4705	1.3.1.6.2.4	Objective to CCD manual stage	LLNL	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$178.35	\$1,367.35
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4706	1.3.1.6.2.4	Microchannel plate	LLNL	M&S	1	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$567.00	\$535.05	\$4,102.05
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4707	1.3.1.6.2.4	120 Hz CCD	LLNL	M&S	2	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$1,512.00	\$2,378.00	\$11,890.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4708	1.3.1.6.2.4	TE Cooler	LLNL	M&S	1	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$1,512.00	\$1,426.80	\$10,938.80

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4709	1.3.1.6.2.4	CCD Analog board	LLNL	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$1,134.00	\$1,783.50	\$8,917.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4710	1.3.1.6.2.4	Camera Digital board	LLNL	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$1,134.00	\$1,783.50	\$8,917.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4711	1.3.1.6.2.4	Microchannel plate HV board	LLNL	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$756.00	\$1,189.00	\$5,945.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4712	1.3.1.6.2.4	Camera Interface board	LLNL	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$1,134.00	\$1,783.50	\$8,917.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4713	1.3.1.6.2.4	Computer Interface board	LLNL	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$378.00	\$356.70	\$2,734.70
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4714	1.3.1.6.2.4	Camera vaccum housing	LLNL	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$567.00	\$891.75	\$4,458.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4715	1.3.1.6.2.4	Cold finger	LLNL	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$297.25	\$1,486.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4716	1.3.1.6.2.4	Chiller	LLNL	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$378.00	\$356.70	\$2,734.70
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4717	1.3.1.6.2.4	Chiller Hardware	LLNL	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$297.25	\$1,486.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4718	1.3.1.6.2.4	Electrical Hardware	LLNL	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$567.00	\$891.75	\$4,458.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4719	1.3.1.6.2.4	Feed throughs	LLNL	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$178.35	\$1,367.35
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4720	1.3.1.6.2.4	Mechanical Hardware	LLNL	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$297.25	\$1,486.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4721	1.3.1.6.2.4	Camera Base Plate	LLNL	B&H	2	0.6 wks	\$0.00	\$0.00	\$1,368.00	\$1,368.00	\$1,340.64	\$677.16	\$3,385.80
		<i>LLNL Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,368.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4722	1.3.1.6.2.4	Prism to objective I/F	LLNL	B&H	2	0.6 wks	\$0.00	\$0.00	\$1,368.00	\$1,368.00	\$1,340.64	\$677.16	\$3,385.80
		<i>LLNL Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,368.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4723	1.3.1.6.2.4	Objective to CCD I/F	LLNL	B&H	2	0.6 wks	\$0.00	\$0.00	\$1,368.00	\$1,368.00	\$1,340.64	\$677.16	\$3,385.80
		<i>LLNL Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,368.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4724	1.3.1.6.2.4	Camera housing and Cold finger	LLNL	B&H	2	0.6 wks	\$0.00	\$0.00	\$1,368.00	\$1,368.00	\$1,340.64	\$677.16	\$3,385.80
		<i>LLNL Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,368.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4725	1.3.1.6.2.4	Camera Electrical assembly	LLNL	B&H	2	0.6 wks	\$0.00	\$0.00	\$1,248.00	\$1,248.00	\$1,223.04	\$617.76	\$3,088.80
		<i>LLNL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,248.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
4726	1.3.1.6.2.4	Camera Mechanical assembly	LLNL	B&H	2	0.9 wks	\$0.00	\$0.00	\$1,872.00	\$1,872.00	\$1,834.56	\$926.64	\$4,633.20
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.9 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,872.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4727	1.3.1.6.2.4	Camera Software installation	LLNL	ED&I	2	0.6 wks	\$0.00	\$0.00	\$1,392.00	\$1,392.00	\$1,364.16	\$689.04	\$3,445.20
		<i>LLNL Controls: Programmer</i>		<i>ED&I</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,392.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4728	1.3.1.6.2.4	Camera Electrical acceptance test	LLNL	ED&I	2	0.6 wks	\$0.00	\$0.00	\$1,488.00	\$1,488.00	\$1,458.24	\$736.56	\$3,682.80
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,488.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4729	1.3.1.6.2.4	Camera Mechanical acceptance test	LLNL	ED&I	2	0.33 wks	\$0.00	\$0.00	\$831.60	\$831.60	\$814.97	\$411.64	\$2,058.21
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.33 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$831.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4730	1.3.1.6.2.4	Camera Alignment and focus	LLNL	ED&I	2	0.9 wks	\$0.00	\$0.00	\$1,944.00	\$1,944.00	\$1,905.12	\$962.28	\$4,811.40
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>0.9 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,944.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4731	1.3.1.6.2.4	Camera Calibration	LLNL	ED&I	2	0.9 wks	\$0.00	\$0.00	\$1,944.00	\$1,944.00	\$1,905.12	\$962.28	\$4,811.40
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>0.9 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,944.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4732	1.3.1.6.2.4	Camera System acceptance test	LLNL	ED&I	2	0.9 wks	\$0.00	\$0.00	\$1,944.00	\$1,944.00	\$1,905.12	\$962.28	\$4,811.40
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>0.9 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,944.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4733	1.3.1.6.2.5	Production units	LLNL		0	18 wks	\$0.00	\$331,000.00	\$39,320.00	\$370,320.00	\$101,092.60	\$103,704.05	\$575,116.65
4734	1.3.1.6.2.5	Scintillating Crystal	LLNL	M&S	2	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$1,890.00	\$2,972.50	\$14,862.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4735	1.3.1.6.2.5	Prism	LLNL	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$378.00	\$594.50	\$2,972.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4736	1.3.1.6.2.5	Prism mount	LLNL	M&S	1	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$945.00	\$891.75	\$6,836.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4737	1.3.1.6.2.5	Prism to objective motorized stage	LLNL	M&S	2	0 wks	\$0.00	\$40,000.00	\$0.00	\$40,000.00	\$7,560.00	\$11,890.00	\$59,450.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>40,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$40,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4738	1.3.1.6.2.5	Microscope objective	LLNL	M&S	1	0 wks	\$0.00	\$13,000.00	\$0.00	\$13,000.00	\$2,457.00	\$2,318.55	\$17,775.55
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>13,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4739	1.3.1.6.2.5	Objective to CCD manual stage	LLNL	M&S	1	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$1,323.00	\$1,248.45	\$9,571.45
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>7,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4740	1.3.1.6.2.5	Microchannel plate	LLNL	M&S	1	0 wks	\$0.00	\$14,000.00	\$0.00	\$14,000.00	\$2,646.00	\$2,496.90	\$19,142.90
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>14,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$14,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4741	1.3.1.6.2.5	120 Hz CCD	LLNL	M&S	1	0 wks	\$0.00	\$40,000.00	\$0.00	\$40,000.00	\$7,560.00	\$7,134.00	\$54,694.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>40,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$40,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4742	1.3.1.6.2.5	TE Cooler	LLNL	M&S	2	0 wks	\$0.00	\$20,000.00	\$0.00	\$20,000.00	\$3,780.00	\$5,945.00	\$29,725.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>20,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$20,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4743	1.3.1.6.2.5	CCD Analog board	LLNL	M&S	1	0 wks	\$0.00	\$30,000.00	\$0.00	\$30,000.00	\$5,670.00	\$5,350.50	\$41,020.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>30,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$30,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
4744	1.3.1.6.2.5	Camera Digital board	LLNL	M&S	2	0 wks	\$0.00	\$30,000.00	\$0.00	\$30,000.00	\$5,670.00	\$8,917.50	\$44,587.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>30,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$30,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4745	1.3.1.6.2.5	Microchannel plate HV board	LLNL	M&S	2	0 wks	\$0.00	\$20,000.00	\$0.00	\$20,000.00	\$3,780.00	\$5,945.00	\$29,725.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>20,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$20,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4746	1.3.1.6.2.5	Camera Interface board	LLNL	M&S	2	0 wks	\$0.00	\$30,000.00	\$0.00	\$30,000.00	\$5,670.00	\$8,917.50	\$44,587.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>30,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$30,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4747	1.3.1.6.2.5	Computer Interface board	LLNL	M&S	2	0 wks	\$0.00	\$9,000.00	\$0.00	\$9,000.00	\$1,701.00	\$2,675.25	\$13,376.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>9,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4748	1.3.1.6.2.5	Camera vaccum housing	LLNL	M&S	2	0 wks	\$0.00	\$15,000.00	\$0.00	\$15,000.00	\$2,835.00	\$4,458.75	\$22,293.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>15,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$15,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4749	1.3.1.6.2.5	Cold finger	LLNL	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$945.00	\$1,486.25	\$7,431.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4750	1.3.1.6.2.5	Chiller	LLNL	M&S	2	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$1,890.00	\$2,972.50	\$14,862.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4751	1.3.1.6.2.5	Chiller Hardware	LLNL	M&S	1	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$945.00	\$891.75	\$6,836.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4752	1.3.1.6.2.5	Electrical Hardware	LLNL	M&S	2	0 wks	\$0.00	\$15,000.00	\$0.00	\$15,000.00	\$2,835.00	\$4,458.75	\$22,293.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>15,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$15,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4753	1.3.1.6.2.5	Feed throughs	LLNL	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$1,134.00	\$1,783.50	\$8,917.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4754	1.3.1.6.2.5	Mechanical Hardware	LLNL	M&S	1	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$945.00	\$891.75	\$6,836.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4755	1.3.1.6.2.5	Camera Base Plate	LLNL	B&H	2	0.5 wks	\$0.00	\$0.00	\$1,140.00	\$1,140.00	\$1,117.20	\$564.30	\$2,821.50
		<i>LLNL Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>0.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,140.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4756	1.3.1.6.2.5	Prism to objective I/F	LLNL	B&H	2	0.5 wks	\$0.00	\$0.00	\$1,140.00	\$1,140.00	\$1,117.20	\$564.30	\$2,821.50
		<i>LLNL Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>0.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,140.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4757	1.3.1.6.2.5	Objective to CCD I/F	LLNL	B&H	2	0.5 wks	\$0.00	\$0.00	\$1,140.00	\$1,140.00	\$1,117.20	\$564.30	\$2,821.50
		<i>LLNL Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>0.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,140.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4758	1.3.1.6.2.5	Camera housing and Cold finger	LLNL	B&H	2	0.5 wks	\$0.00	\$0.00	\$1,140.00	\$1,140.00	\$1,117.20	\$564.30	\$2,821.50
		<i>LLNL Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>0.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,140.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4759	1.3.1.6.2.5	Camera Electrical assembly	LLNL	B&H	2	2 wks	\$0.00	\$0.00	\$4,160.00	\$4,160.00	\$4,076.80	\$2,059.20	\$10,296.00
		<i>LLNL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4760	1.3.1.6.2.5	Camera Mechanical assembly	LLNL	B&H	2	3 wks	\$0.00	\$0.00	\$6,240.00	\$6,240.00	\$6,115.20	\$3,088.80	\$15,444.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,240.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4761	1.3.1.6.2.5	Camera Software installation	LLNL	ED&I	2	0.5 wks	\$0.00	\$0.00	\$1,160.00	\$1,160.00	\$1,136.80	\$574.20	\$2,871.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL Controls: Programmer</i>		<i>ED&I</i>	<i>0</i>	<i>0.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4762	1.3.1.6.2.5	Camera Electrical acceptance test	LLNL	ED&I	2	0.5 wks	\$0.00	\$0.00	\$1,240.00	\$1,240.00	\$1,215.20	\$613.80	\$3,069.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,240.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4763	1.3.1.6.2.5	Camera Mechanical acceptance test	LLNL	ED&I	2	1 wk	\$0.00	\$0.00	\$2,520.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4764	1.3.1.6.2.5	Camera Alignment and focus	LLNL	ED&I	2	3 wks	\$0.00	\$0.00	\$6,480.00	\$6,480.00	\$6,350.40	\$3,207.60	\$16,038.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,480.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4765	1.3.1.6.2.5	Camera Calibration	LLNL	ED&I	2	3 wks	\$0.00	\$0.00	\$6,480.00	\$6,480.00	\$6,350.40	\$3,207.60	\$16,038.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,480.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4766	1.3.1.6.2.5	Camera System acceptance test	LLNL	ED&I	2	3 wks	\$0.00	\$0.00	\$6,480.00	\$6,480.00	\$6,350.40	\$3,207.60	\$16,038.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,480.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4767	1.3.1.6.3	Scattering Foil Imager			0	33.66 wks	\$0.00	\$498,001.00	\$74,304.00	\$572,305.00	\$166,940.11	\$161,744.68	\$900,989.79
4768	1.3.1.6.3.1	Reserved	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4769	1.3.1.6.3.2	Reserved	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4770	1.3.1.6.3.3	Data Acquisition	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4771	1.3.1.6.3.3	Computer labor	LLNL	B&H	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>LLNL PCD:Technician</i>		<i>B&H</i>	<i>0</i>	<i>0 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4772	1.3.1.6.3.4	Prototype	LLNL		0	13.86 wks	\$0.00	\$156,001.00	\$30,984.00	\$186,985.00	\$59,848.51	\$54,693.28	\$301,526.79
4773	1.3.1.6.3.4	Be foil	LLNL	M&S	2	0 wks	\$0.00	\$50,000.00	\$0.00	\$50,000.00	\$9,450.00	\$14,862.50	\$74,312.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>50,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$50,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4774	1.3.1.6.3.4	Be foil mount	LLNL	M&S	2	0 wks	\$0.00	\$1.00	\$0.00	\$1.00	\$0.19	\$0.30	\$1.49
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4775	1.3.1.6.3.4	Mirror mount	LLNL	M&S	1	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$567.00	\$535.05	\$4,102.05
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4776	1.3.1.6.3.4	Mirror motorized rotation stage	LLNL	M&S	1	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$1,512.00	\$1,426.80	\$10,938.80
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4777	1.3.1.6.3.4	Base plate	LLNL	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$378.00	\$594.50	\$2,972.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4778	1.3.1.6.3.4	Camera Base Plate	LLNL	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$378.00	\$594.50	\$2,972.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4779	1.3.1.6.3.4	Camera motorized horizontal stage	LLNL	M&S	1	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$945.00	\$891.75	\$6,836.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4780	1.3.1.6.3.4	Camera motorized verticle stage	LLNL	M&S	1	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$1,512.00	\$1,426.80	\$10,938.80
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4781	1.3.1.6.3.4	Motor Controller	LLNL	M&S	1	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$1,512.00	\$1,426.80	\$10,938.80

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4782	1.3.1.6.3.4	Motor Computer I/F	LLNL	M&S	1	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$756.00	\$713.40	\$5,469.40
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4783	1.3.1.6.3.4	Scintillating Crystal	LLNL	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$378.00	\$594.50	\$2,972.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4784	1.3.1.6.3.4	Prism	LLNL	M&S	1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4785	1.3.1.6.3.4	Prism mount	LLNL	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$297.25	\$1,486.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4786	1.3.1.6.3.4	Prism to objective motorized stage	LLNL	M&S	1	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$1,512.00	\$1,426.80	\$10,938.80
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4787	1.3.1.6.3.4	Microscope objective	LLNL	M&S	1	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$567.00	\$535.05	\$4,102.05
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4788	1.3.1.6.3.4	Objective to CCD manual stage	LLNL	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$178.35	\$1,367.35
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4789	1.3.1.6.3.4	Microchannel plate	LLNL	M&S	1	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$567.00	\$535.05	\$4,102.05
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4790	1.3.1.6.3.4	120 Hz CCD	LLNL	M&S	2	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$1,512.00	\$2,378.00	\$11,890.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4791	1.3.1.6.3.4	TE Cooler	LLNL	M&S	1	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$756.00	\$713.40	\$5,469.40
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4792	1.3.1.6.3.4	CCD Analog board	LLNL	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$1,134.00	\$1,783.50	\$8,917.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4793	1.3.1.6.3.4	Camera Digital board	LLNL	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$1,134.00	\$1,783.50	\$8,917.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4794	1.3.1.6.3.4	Microchannel plate HV board	LLNL	M&S	1	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$756.00	\$713.40	\$5,469.40
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4795	1.3.1.6.3.4	Camera Interface board	LLNL	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$1,134.00	\$1,783.50	\$8,917.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4796	1.3.1.6.3.4	Computer Interface board	LLNL	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$378.00	\$594.50	\$2,972.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4797	1.3.1.6.3.4	Camera vaccum housing	LLNL	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$567.00	\$891.75	\$4,458.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4798	1.3.1.6.3.4	Cold finger	LLNL	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$297.25	\$1,486.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
4799	1.3.1.6.3.4	Chiller	LLNL	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$378.00	\$594.50	\$2,972.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4800	1.3.1.6.3.4	Chiller Hardware	LLNL	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$297.25	\$1,486.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4801	1.3.1.6.3.4	Electrical Hardware	LLNL	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$567.00	\$891.75	\$4,458.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4802	1.3.1.6.3.4	Feed throughs	LLNL	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$297.25	\$1,486.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4803	1.3.1.6.3.4	Mechanical Hardware	LLNL	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$297.25	\$1,486.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4804	1.3.1.6.3.4	Scatter plane Base Plate	LLNL	B&H	2	0.6 wks	\$0.00	\$0.00	\$1,368.00	\$1,368.00	\$1,340.64	\$677.16	\$3,385.80
		<i>LLNL Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,368.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4805	1.3.1.6.3.4	Be foil mount	LLNL	B&H	2	0.6 wks	\$0.00	\$0.00	\$1,368.00	\$1,368.00	\$1,340.64	\$677.16	\$3,385.80
		<i>LLNL Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,368.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4806	1.3.1.6.3.4	Camera Base Plate	LLNL	B&H	2	0.6 wks	\$0.00	\$0.00	\$1,368.00	\$1,368.00	\$1,340.64	\$677.16	\$3,385.80
		<i>LLNL Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,368.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4807	1.3.1.6.3.4	Prism to objective I/F	LLNL	B&H	2	0.6 wks	\$0.00	\$0.00	\$1,368.00	\$1,368.00	\$1,340.64	\$677.16	\$3,385.80
		<i>LLNL Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,368.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4808	1.3.1.6.3.4	Objective to CCD I/F	LLNL	B&H	2	0.6 wks	\$0.00	\$0.00	\$1,368.00	\$1,368.00	\$1,340.64	\$677.16	\$3,385.80
		<i>LLNL Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,368.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4809	1.3.1.6.3.4	Camera housing and Cold finger	LLNL	B&H	2	0.6 wks	\$0.00	\$0.00	\$1,368.00	\$1,368.00	\$1,340.64	\$677.16	\$3,385.80
		<i>LLNL Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,368.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4810	1.3.1.6.3.4	Mechanical assembly	LLNL	B&H	2	1.8 wks	\$0.00	\$0.00	\$3,744.00	\$3,744.00	\$3,669.12	\$1,853.28	\$9,266.40
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1.8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,744.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4811	1.3.1.6.3.4	Camera Electrical assembly	LLNL	B&H	2	0.6 wks	\$0.00	\$0.00	\$1,248.00	\$1,248.00	\$1,223.04	\$617.76	\$3,088.80
		<i>LLNL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,248.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4812	1.3.1.6.3.4	Software installation	LLNL	ED&I	2	0.33 wks	\$0.00	\$0.00	\$765.60	\$765.60	\$750.29	\$378.97	\$1,894.86
		<i>LLNL Controls: Programmer</i>		<i>ED&I</i>	<i>0</i>	<i>0.33 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$765.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4813	1.3.1.6.3.4	Electrical acceptance test	LLNL	ED&I	2	0.33 wks	\$0.00	\$0.00	\$818.40	\$818.40	\$802.03	\$405.11	\$2,025.54
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.33 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$818.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4814	1.3.1.6.3.4	Mechanical acceptance test	LLNL	ED&I	2	1.8 wks	\$0.00	\$0.00	\$4,536.00	\$4,536.00	\$4,445.28	\$2,245.32	\$11,226.60
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1.8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,536.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4815	1.3.1.6.3.4	Alignment and focus	LLNL	ED&I	2	1.8 wks	\$0.00	\$0.00	\$3,888.00	\$3,888.00	\$3,810.24	\$1,924.56	\$9,622.80
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>1.8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,888.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4816	1.3.1.6.3.4	Calibration	LLNL	ED&I	2	1.8 wks	\$0.00	\$0.00	\$3,888.00	\$3,888.00	\$3,810.24	\$1,924.56	\$9,622.80

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>1.8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,888.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4817	1.3.1.6.3.4	System acceptance test	LLNL	ED&I	2	1.8 wks	\$0.00	\$0.00	\$3,888.00	\$3,888.00	\$3,810.24	\$1,924.56	\$9,622.80
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>1.8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,888.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4818	1.3.1.6.3.5	Production units	LLNL		0	19.8 wks	\$0.00	\$342,000.00	\$43,320.00	\$385,320.00	\$107,091.60	\$107,051.40	\$599,463.00
4819	1.3.1.6.3.5	Be foil	LLNL	M&S	2	0 wks	\$0.00	\$15,000.00	\$0.00	\$15,000.00	\$2,835.00	\$4,458.75	\$22,293.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>15,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$15,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4820	1.3.1.6.3.5	Be foil mount	LLNL	M&S	2	0 wks	\$0.00	\$9,000.00	\$0.00	\$9,000.00	\$1,701.00	\$2,675.25	\$13,376.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>9,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4821	1.3.1.6.3.5	Mirror mount	LLNL	M&S	1	0 wks	\$0.00	\$9,000.00	\$0.00	\$9,000.00	\$1,701.00	\$1,605.15	\$12,306.15
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>9,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4822	1.3.1.6.3.5	Mirror motorized rotation stage	LLNL	M&S	1	0 wks	\$0.00	\$24,000.00	\$0.00	\$24,000.00	\$4,536.00	\$4,280.40	\$32,816.40
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>24,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$24,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4823	1.3.1.6.3.5	Base plate	LLNL	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$1,134.00	\$1,783.50	\$8,917.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4824	1.3.1.6.3.5	Camera Base Plate	LLNL	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$1,134.00	\$1,783.50	\$8,917.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4825	1.3.1.6.3.5	Camera motorized horizontal stage	LLNL	M&S	1	0 wks	\$0.00	\$15,000.00	\$0.00	\$15,000.00	\$2,835.00	\$2,675.25	\$20,510.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>15,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$15,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4826	1.3.1.6.3.5	Camera motorized verticle stage	LLNL	M&S	1	0 wks	\$0.00	\$24,000.00	\$0.00	\$24,000.00	\$4,536.00	\$4,280.40	\$32,816.40
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>24,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$24,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4827	1.3.1.6.3.5	Motor Controller	LLNL	M&S	1	0 wks	\$0.00	\$24,000.00	\$0.00	\$24,000.00	\$4,536.00	\$4,280.40	\$32,816.40
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>24,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$24,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4828	1.3.1.6.3.5	Motor Computer I/F	LLNL	M&S	1	0 wks	\$0.00	\$12,000.00	\$0.00	\$12,000.00	\$2,268.00	\$2,140.20	\$16,408.20
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>12,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4829	1.3.1.6.3.5	Scintillating Crystal	LLNL	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$1,134.00	\$1,783.50	\$8,917.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4830	1.3.1.6.3.5	Prism	LLNL	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$178.35	\$1,367.35
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4831	1.3.1.6.3.5	Prism mount	LLNL	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$567.00	\$891.75	\$4,458.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4832	1.3.1.6.3.5	Prism to objective motorized stage	LLNL	M&S	1	0 wks	\$0.00	\$24,000.00	\$0.00	\$24,000.00	\$4,536.00	\$4,280.40	\$32,816.40
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>24,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$24,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4833	1.3.1.6.3.5	Microscope objective	LLNL	M&S	1	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$1,512.00	\$1,426.80	\$10,938.80
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4834	1.3.1.6.3.5	Objective to CCD manual stage	LLNL	M&S	1	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$756.00	\$713.40	\$5,469.40

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL M&S Total</i>		M&S	0	4,000	\$0.00	\$0.00	\$0.00	\$4,000.00	\$0.00	\$0.00	\$0.00
4835	1.3.1.6.3.5	Microchannel plate	LLNL	M&S	1	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$1,512.00	\$1,426.80	\$10,938.80
		<i>LLNL M&S Total</i>		M&S	0	8,000	\$0.00	\$0.00	\$0.00	\$8,000.00	\$0.00	\$0.00	\$0.00
4836	1.3.1.6.3.5	120 Hz CCD	LLNL	M&S	2	0 wks	\$0.00	\$24,000.00	\$0.00	\$24,000.00	\$4,536.00	\$7,134.00	\$35,670.00
		<i>LLNL M&S Total</i>		M&S	0	24,000	\$0.00	\$0.00	\$0.00	\$24,000.00	\$0.00	\$0.00	\$0.00
4837	1.3.1.6.3.5	TE Cooler	LLNL	M&S	1	0 wks	\$0.00	\$12,000.00	\$0.00	\$12,000.00	\$2,268.00	\$2,140.20	\$16,408.20
		<i>LLNL M&S Total</i>		M&S	0	12,000	\$0.00	\$0.00	\$0.00	\$12,000.00	\$0.00	\$0.00	\$0.00
4838	1.3.1.6.3.5	CCD Analog board	LLNL	M&S	2	0 wks	\$0.00	\$18,000.00	\$0.00	\$18,000.00	\$3,402.00	\$5,350.50	\$26,752.50
		<i>LLNL M&S Total</i>		M&S	0	18,000	\$0.00	\$0.00	\$0.00	\$18,000.00	\$0.00	\$0.00	\$0.00
4839	1.3.1.6.3.5	Camera Digital board	LLNL	M&S	2	0 wks	\$0.00	\$18,000.00	\$0.00	\$18,000.00	\$3,402.00	\$5,350.50	\$26,752.50
		<i>LLNL M&S Total</i>		M&S	0	18,000	\$0.00	\$0.00	\$0.00	\$18,000.00	\$0.00	\$0.00	\$0.00
4840	1.3.1.6.3.5	Microchannel plate HV board	LLNL	M&S	4	0 wks	\$0.00	\$12,000.00	\$0.00	\$12,000.00	\$2,268.00	\$7,134.00	\$21,402.00
		<i>LLNL M&S Total</i>		M&S	0	12,000	\$0.00	\$0.00	\$0.00	\$12,000.00	\$0.00	\$0.00	\$0.00
4841	1.3.1.6.3.5	Camera Interface board	LLNL	M&S	2	0 wks	\$0.00	\$18,000.00	\$0.00	\$18,000.00	\$3,402.00	\$5,350.50	\$26,752.50
		<i>LLNL M&S Total</i>		M&S	0	18,000	\$0.00	\$0.00	\$0.00	\$18,000.00	\$0.00	\$0.00	\$0.00
4842	1.3.1.6.3.5	Computer Interface board	LLNL	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$945.00	\$1,486.25	\$7,431.25
		<i>LLNL M&S Total</i>		M&S	0	5,000	\$0.00	\$0.00	\$0.00	\$5,000.00	\$0.00	\$0.00	\$0.00
4843	1.3.1.6.3.5	Camera vacuum housing	LLNL	M&S	2	0 wks	\$0.00	\$9,000.00	\$0.00	\$9,000.00	\$1,701.00	\$2,675.25	\$13,376.25
		<i>LLNL M&S Total</i>		M&S	0	9,000	\$0.00	\$0.00	\$0.00	\$9,000.00	\$0.00	\$0.00	\$0.00
4844	1.3.1.6.3.5	Cold finger	LLNL	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$567.00	\$891.75	\$4,458.75
		<i>LLNL M&S Total</i>		M&S	0	3,000	\$0.00	\$0.00	\$0.00	\$3,000.00	\$0.00	\$0.00	\$0.00
4845	1.3.1.6.3.5	Chiller	LLNL	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$1,134.00	\$1,783.50	\$8,917.50
		<i>LLNL M&S Total</i>		M&S	0	6,000	\$0.00	\$0.00	\$0.00	\$6,000.00	\$0.00	\$0.00	\$0.00
4846	1.3.1.6.3.5	Chiller Hardware	LLNL	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$567.00	\$891.75	\$4,458.75
		<i>LLNL M&S Total</i>		M&S	0	3,000	\$0.00	\$0.00	\$0.00	\$3,000.00	\$0.00	\$0.00	\$0.00
4847	1.3.1.6.3.5	Electrical Hardware	LLNL	M&S	2	0 wks	\$0.00	\$9,000.00	\$0.00	\$9,000.00	\$1,701.00	\$2,675.25	\$13,376.25
		<i>LLNL M&S Total</i>		M&S	0	9,000	\$0.00	\$0.00	\$0.00	\$9,000.00	\$0.00	\$0.00	\$0.00
4848	1.3.1.6.3.5	Feed throughs	LLNL	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$756.00	\$1,189.00	\$5,945.00
		<i>LLNL M&S Total</i>		M&S	0	4,000	\$0.00	\$0.00	\$0.00	\$4,000.00	\$0.00	\$0.00	\$0.00
4849	1.3.1.6.3.5	Mechanical Hardware	LLNL	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$567.00	\$891.75	\$4,458.75
		<i>LLNL M&S Total</i>		M&S	0	3,000	\$0.00	\$0.00	\$0.00	\$3,000.00	\$0.00	\$0.00	\$0.00
4850	1.3.1.6.3.5	Scatter plane Base Plate	LLNL	B&H	2	0.3 wks	\$0.00	\$0.00	\$684.00	\$684.00	\$670.32	\$338.58	\$1,692.90
		<i>LLNL Mech. Fab: Machine Shop</i>		B&H	0	0.3 wks	\$0.00	\$0.00	\$0.00	\$684.00	\$0.00	\$0.00	\$0.00
4851	1.3.1.6.3.5	Be foil mount	LLNL	B&H	2	0.3 wks	\$0.00	\$0.00	\$684.00	\$684.00	\$670.32	\$338.58	\$1,692.90
		<i>LLNL Mech. Fab: Machine Shop</i>		B&H	0	0.3 wks	\$0.00	\$0.00	\$0.00	\$684.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
4852	1.3.1.6.3.5	Camera Base Plate	LLNL	B&H	2	0.3 wks	\$0.00	\$0.00	\$684.00	\$684.00	\$670.32	\$338.58	\$1,692.90
		<i>LLNL Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>0.3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$684.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4853	1.3.1.6.3.5	Prism to objective I/F	LLNL	B&H	2	0.3 wks	\$0.00	\$0.00	\$684.00	\$684.00	\$670.32	\$338.58	\$1,692.90
		<i>LLNL Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>0.3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$684.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4854	1.3.1.6.3.5	Objective to CCD I/F	LLNL	B&H	2	0.3 wks	\$0.00	\$0.00	\$684.00	\$684.00	\$670.32	\$338.58	\$1,692.90
		<i>LLNL Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>0.3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$684.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4855	1.3.1.6.3.5	Camera housing and Cold finger	LLNL	B&H	2	0.3 wks	\$0.00	\$0.00	\$684.00	\$684.00	\$670.32	\$338.58	\$1,692.90
		<i>LLNL Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>0.3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$684.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4856	1.3.1.6.3.5	Mechanical assembly	LLNL	B&H	2	3.6 wks	\$0.00	\$0.00	\$7,488.00	\$7,488.00	\$7,338.24	\$3,706.56	\$18,532.80
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>3.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,488.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4857	1.3.1.6.3.5	Camera Electrical assembly	LLNL	B&H	2	1.2 wks	\$0.00	\$0.00	\$2,496.00	\$2,496.00	\$2,446.08	\$1,235.52	\$6,177.60
		<i>LLNL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>1.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,496.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4858	1.3.1.6.3.5	Software installation	LLNL	ED&I	2	0.6 wks	\$0.00	\$0.00	\$1,392.00	\$1,392.00	\$1,364.16	\$689.04	\$3,445.20
		<i>LLNL Controls: Programmer</i>		<i>ED&I</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,392.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4859	1.3.1.6.3.5	Electrical acceptance test	LLNL	ED&I	2	0.6 wks	\$0.00	\$0.00	\$1,488.00	\$1,488.00	\$1,458.24	\$736.56	\$3,682.80
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,488.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4860	1.3.1.6.3.5	Mechanical acceptance test	LLNL	ED&I	2	1.2 wks	\$0.00	\$0.00	\$3,024.00	\$3,024.00	\$2,963.52	\$1,496.88	\$7,484.40
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,024.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4861	1.3.1.6.3.5	Alignment and focus	LLNL	ED&I	2	3.6 wks	\$0.00	\$0.00	\$7,776.00	\$7,776.00	\$7,620.48	\$3,849.12	\$19,245.60
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>3.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,776.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4862	1.3.1.6.3.5	Calibration	LLNL	ED&I	2	3.6 wks	\$0.00	\$0.00	\$7,776.00	\$7,776.00	\$7,620.48	\$3,849.12	\$19,245.60
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>3.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,776.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4863	1.3.1.6.3.5	System acceptance test	LLNL	ED&I	2	3.6 wks	\$0.00	\$0.00	\$7,776.00	\$7,776.00	\$7,620.48	\$3,849.12	\$19,245.60
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>3.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,776.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4864	1.3.1.6.4	Micro Strip Ion Chamber			0	69.9 wks	\$0.00	\$930,000.00	\$149,884.00	\$1,079,884.00	\$322,656.32	\$288,093.68	\$1,690,634.00
4865	1.3.1.6.4.1	Reserved	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4866	1.3.1.6.4.2	Reserved	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4867	1.3.1.6.4.3	Data Acquisition	LLNL		0	1 wk	\$0.00	\$36,000.00	\$2,080.00	\$38,080.00	\$8,842.40	\$12,087.30	\$59,009.70
4868	1.3.1.6.4.3	Computer labor	LLNL	B&H	2	1 wk	\$0.00	\$0.00	\$2,080.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL PCD:Technician</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4869	1.3.1.6.4.3	Computer	LLNL	M&S	2	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$1,512.00	\$2,378.00	\$11,890.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4870	1.3.1.6.4.3	Monitor	LLNL	M&S	3	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$567.00	\$1,248.45	\$4,815.45
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4871	1.3.1.6.4.3	Stage controller Channel-Card	LLNL	M&S	2	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$1,323.00	\$2,080.75	\$10,403.75

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>7,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4872	1.3.1.6.4.3	GPIs Card	LLNL	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$297.25	\$1,486.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4873	1.3.1.6.4.3	Diagnostic Hardware & Controller	LLNL	M&S	2	0 wks	\$0.00	\$17,000.00	\$0.00	\$17,000.00	\$3,213.00	\$5,053.25	\$25,266.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>17,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$17,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4874	1.3.1.6.4.4	Prototype	LLNL		0	17.1 wks	\$0.00	\$168,000.00	\$37,548.00	\$205,548.00	\$68,549.04	\$59,131.16	\$333,228.20
4875	1.3.1.6.4.4	Chamber	LLNL	M&S	2	0 wks	\$0.00	\$40,000.00	\$0.00	\$40,000.00	\$7,560.00	\$11,890.00	\$59,450.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>40,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$40,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4876	1.3.1.6.4.4	Chamber Stand	LLNL	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$945.00	\$1,486.25	\$7,431.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4877	1.3.1.6.4.4	System Controller Multiloop controller	LLNL	M&S	1	0 wks	\$0.00	\$15,000.00	\$0.00	\$15,000.00	\$2,835.00	\$2,675.25	\$20,510.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>15,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$15,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4878	1.3.1.6.4.4	Pressure, hardware Monitor "Sensors"	LLNL	M&S	1	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$1,134.00	\$1,070.10	\$8,204.10
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4879	1.3.1.6.4.4	Pressure Baratron MKS Head	LLNL	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$378.00	\$356.70	\$2,734.70
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4880	1.3.1.6.4.4	Pressure Controller Baratron MKS	LLNL	M&S	1	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$945.00	\$891.75	\$6,836.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4881	1.3.1.6.4.4	Flow Controller 500 sccm HA MKS	LLNL	M&S	1	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$567.00	\$535.05	\$4,102.05
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4882	1.3.1.6.4.4	Flow Controller Driver	LLNL	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$378.00	\$356.70	\$2,734.70
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4883	1.3.1.6.4.4	Flow Controler Manifold	LLNL	M&S	1	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$1,134.00	\$1,070.10	\$8,204.10
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4884	1.3.1.6.4.4	Plate Holder	LLNL	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$756.00	\$1,189.00	\$5,945.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4885	1.3.1.6.4.4	Interface-Mount to Chamber	LLNL	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$945.00	\$1,486.25	\$7,431.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4886	1.3.1.6.4.4	Chamber feed through	LLNL	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$378.00	\$594.50	\$2,972.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4887	1.3.1.6.4.4	Ion gage and read out	LLNL	M&S	1	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$756.00	\$713.40	\$5,469.40
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4888	1.3.1.6.4.4	Turbo Pump 521	LLNL	M&S	1	0 wks	\$0.00	\$32,000.00	\$0.00	\$32,000.00	\$6,048.00	\$5,707.20	\$43,755.20
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>32,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$32,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4889	1.3.1.6.4.4	Gate Valves 4 inch	LLNL	M&S	1	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$756.00	\$713.40	\$5,469.40

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4890	1.3.1.6.4.4	Cathode	LLNL	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4891	1.3.1.6.4.4	Anode	LLNL	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$1,134.00	\$1,783.50	\$8,917.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4892	1.3.1.6.4.4	Amp / Disc	LLNL	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$297.25	\$1,486.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4893	1.3.1.6.4.4	ADC	LLNL	M&S	2	0 wks	\$0.00	\$12,000.00	\$0.00	\$12,000.00	\$2,268.00	\$3,567.00	\$17,835.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>12,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4894	1.3.1.6.4.4	Computer I/F	LLNL	M&S	2	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$1,323.00	\$2,080.75	\$10,403.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>7,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4895	1.3.1.6.4.4	HV Supply	LLNL	M&S	2	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$1,323.00	\$2,080.75	\$10,403.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>7,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4896	1.3.1.6.4.4	Chamber	LLNL	B&H	2	0.3 wks	\$0.00	\$0.00	\$684.00	\$684.00	\$670.32	\$338.58	\$1,692.90
		<i>LLNL Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>0.3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$684.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4897	1.3.1.6.4.4	Chamber Stand	LLNL	B&H	2	0.3 wks	\$0.00	\$0.00	\$684.00	\$684.00	\$670.32	\$338.58	\$1,692.90
		<i>LLNL Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>0.3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$684.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4898	1.3.1.6.4.4	Fixtures	LLNL	B&H	2	0.9 wks	\$0.00	\$0.00	\$2,052.00	\$2,052.00	\$2,010.96	\$1,015.74	\$5,078.70
		<i>LLNL Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>0.9 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,052.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4899	1.3.1.6.4.4	Turbopumps Labor and Assembly	LLNL	B&H	2	4.5 wks	\$0.00	\$0.00	\$9,360.00	\$9,360.00	\$9,172.80	\$4,633.20	\$23,166.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>4.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,360.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4900	1.3.1.6.4.4	Chamber Labor and Assembly	LLNL	B&H	2	6 wks	\$0.00	\$0.00	\$12,480.00	\$12,480.00	\$12,230.40	\$6,177.60	\$30,888.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,480.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4901	1.3.1.6.4.4	Focal Plane Labor and Assembly	LLNL	ED&I	2	3 wks	\$0.00	\$0.00	\$7,560.00	\$7,560.00	\$7,408.80	\$3,742.20	\$18,711.00
		<i>LLNL PCD:Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,560.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4902	1.3.1.6.4.4	Electrical cceptancs test	LLNL	ED&I	2	0.6 wks	\$0.00	\$0.00	\$1,488.00	\$1,488.00	\$1,458.24	\$736.56	\$3,682.80
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,488.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4903	1.3.1.6.4.4	Calibration	LLNL	ED&I	2	1.5 wks	\$0.00	\$0.00	\$3,240.00	\$3,240.00	\$3,175.20	\$1,603.80	\$8,019.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>1.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,240.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4904	1.3.1.6.4.5	Production Units	LLNL		0	51.8 wks	\$0.00	\$726,000.00	\$110,256.00	\$836,256.00	\$245,264.88	\$216,875.22	\$1,298,396.10
4905	1.3.1.6.4.5	Chamber Venture Baffle	LLNL	M&S	2	0 wks	\$0.00	\$44,000.00	\$0.00	\$44,000.00	\$8,316.00	\$13,079.00	\$65,395.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>44,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$44,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4906	1.3.1.6.4.5	Chamber	LLNL	M&S	2	0 wks	\$0.00	\$80,000.00	\$0.00	\$80,000.00	\$15,120.00	\$23,780.00	\$118,900.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>80,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$80,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4907	1.3.1.6.4.5	Chamber Stand	LLNL	M&S	2	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$1,890.00	\$2,972.50	\$14,862.50

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4908	1.3.1.6.4.5	System Controller Multiloop controller	LLNL	M&S	1	0 wks	\$0.00	\$30,000.00	\$0.00	\$30,000.00	\$5,670.00	\$5,350.50	\$41,020.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>30,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$30,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4909	1.3.1.6.4.5	Pressure, hardware Monitor "Sensors"	LLNL	M&S	1	0 wks	\$0.00	\$12,000.00	\$0.00	\$12,000.00	\$2,268.00	\$2,140.20	\$16,408.20
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>12,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4910	1.3.1.6.4.5	Pressure Baratron MKS Head	LLNL	M&S	1	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$756.00	\$713.40	\$5,469.40
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4911	1.3.1.6.4.5	Pressure Controller Baratron MKS	LLNL	M&S	1	0 wks	\$0.00	\$9,000.00	\$0.00	\$9,000.00	\$1,701.00	\$1,605.15	\$12,306.15
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>9,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4912	1.3.1.6.4.5	Flow Controller 500 sccm HA MKS	LLNL	M&S	1	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$1,134.00	\$1,070.10	\$8,204.10
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4913	1.3.1.6.4.5	Flow Controller Driver	LLNL	M&S	1	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$756.00	\$713.40	\$5,469.40
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4914	1.3.1.6.4.5	Flow Controler Manifold	LLNL	M&S	1	0 wks	\$0.00	\$11,000.00	\$0.00	\$11,000.00	\$2,079.00	\$1,961.85	\$15,040.85
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>11,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4915	1.3.1.6.4.5	Plate Holder	LLNL	M&S	2	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$1,512.00	\$2,378.00	\$11,890.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4916	1.3.1.6.4.5	Interface-Mount to Chamber	LLNL	M&S	2	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$1,890.00	\$2,972.50	\$14,862.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4917	1.3.1.6.4.5	Chamber feed through	LLNL	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$756.00	\$1,189.00	\$5,945.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4918	1.3.1.6.4.5	Ion gage and read out	LLNL	M&S	1	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$1,512.00	\$1,426.80	\$10,938.80
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4919	1.3.1.6.4.5	Turbo Pump 521	LLNL	M&S	1	0 wks	\$0.00	\$64,000.00	\$0.00	\$64,000.00	\$12,096.00	\$11,414.40	\$87,510.40
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>64,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$64,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4920	1.3.1.6.4.5	Turbo Pump 2101	LLNL	M&S	1	0 wks	\$0.00	\$136,000.00	\$0.00	\$136,000.00	\$25,704.00	\$24,255.60	\$185,959.60
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>136,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$136,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4921	1.3.1.6.4.5	Display Panel-2101	LLNL	M&S	1	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$1,890.00	\$1,783.50	\$13,673.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4922	1.3.1.6.4.5	Display Panel-521	LLNL	M&S	1	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$1,323.00	\$1,248.45	\$9,571.45
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>7,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4923	1.3.1.6.4.5	Cables & Hardware	LLNL	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$1,134.00	\$1,783.50	\$8,917.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4924	1.3.1.6.4.5	Gate Valve Controller	LLNL	M&S	1	0 wks	\$0.00	\$12,000.00	\$0.00	\$12,000.00	\$2,268.00	\$2,140.20	\$16,408.20
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>12,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
4925	1.3.1.6.4.5	Gate vales 8"	LLNL	M&S	1	0 wks	\$0.00	\$13,000.00	\$0.00	\$13,000.00	\$2,457.00	\$2,318.55	\$17,775.55
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>13,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4926	1.3.1.6.4.5	Gate vales 4"	LLNL	M&S	1	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$1,323.00	\$1,248.45	\$9,571.45
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>7,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4927	1.3.1.6.4.5	Dry pumps 35 cfm	LLNL	M&S	1	0 wks	\$0.00	\$107,000.00	\$0.00	\$107,000.00	\$20,223.00	\$19,083.45	\$146,306.45
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>107,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$107,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4928	1.3.1.6.4.5	Plate holder	LLNL	M&S	2	0 wks	\$0.00	\$12,000.00	\$0.00	\$12,000.00	\$2,268.00	\$3,567.00	\$17,835.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>12,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4929	1.3.1.6.4.5	Hardware Support Blower	LLNL	M&S	1	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$1,890.00	\$1,783.50	\$13,673.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4930	1.3.1.6.4.5	Mechanical Hardware	LLNL	M&S	2	0 wks	\$0.00	\$36,000.00	\$0.00	\$36,000.00	\$6,804.00	\$10,701.00	\$53,505.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>36,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$36,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4931	1.3.1.6.4.5	Cathode	LLNL	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4932	1.3.1.6.4.5	Anode	LLNL	M&S	2	0 wks	\$0.00	\$12,000.00	\$0.00	\$12,000.00	\$2,268.00	\$3,567.00	\$17,835.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>12,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4933	1.3.1.6.4.5	Amp / Disc	LLNL	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$378.00	\$594.50	\$2,972.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4934	1.3.1.6.4.5	ADC	LLNL	M&S	2	0 wks	\$0.00	\$24,000.00	\$0.00	\$24,000.00	\$4,536.00	\$7,134.00	\$35,670.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>24,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$24,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4935	1.3.1.6.4.5	Computer I/F	LLNL	M&S	2	0 wks	\$0.00	\$14,000.00	\$0.00	\$14,000.00	\$2,646.00	\$4,161.50	\$20,807.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>14,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$14,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4936	1.3.1.6.4.5	HV Supply	LLNL	M&S	2	0 wks	\$0.00	\$14,000.00	\$0.00	\$14,000.00	\$2,646.00	\$4,161.50	\$20,807.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>14,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$14,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4937	1.3.1.6.4.5	Chamber	LLNL	B&H	2	0.4 wks	\$0.00	\$0.00	\$912.00	\$912.00	\$893.76	\$451.44	\$2,257.20
		<i>LLNL Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$912.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4938	1.3.1.6.4.5	Chamber Stand	LLNL	B&H	2	4 wks	\$0.00	\$0.00	\$9,120.00	\$9,120.00	\$8,937.60	\$4,514.40	\$22,572.00
		<i>LLNL Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,120.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4939	1.3.1.6.4.5	Fixtures	LLNL	B&H	2	1.2 wks	\$0.00	\$0.00	\$2,736.00	\$2,736.00	\$2,681.28	\$1,354.32	\$6,771.60
		<i>LLNL Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>1.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,736.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4940	1.3.1.6.4.5	Maniford Labor and Assembly	LLNL	B&H	2	4 wks	\$0.00	\$0.00	\$8,320.00	\$8,320.00	\$8,153.60	\$4,118.40	\$20,592.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4941	1.3.1.6.4.5	Turbo Pumps Labor and Assembly	LLNL	B&H	2	6 wks	\$0.00	\$0.00	\$12,480.00	\$12,480.00	\$12,230.40	\$6,177.60	\$30,888.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,480.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4942	1.3.1.6.4.5	Dry Pumps Labor and Assembly	LLNL	B&H	2	3 wks	\$0.00	\$0.00	\$6,240.00	\$6,240.00	\$6,115.20	\$3,088.80	\$15,444.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,240.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4943	1.3.1.6.4.5	Chamber Labor and Assembly	LLNL	B&H	2	8 wks	\$0.00	\$0.00	\$16,640.00	\$16,640.00	\$16,307.20	\$8,236.80	\$41,184.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$16,640.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4944	1.3.1.6.4.5	Venture and Orifice Labor and Assembly	LLNL	B&H	2	4 wks	\$0.00	\$0.00	\$8,320.00	\$8,320.00	\$8,153.60	\$4,118.40	\$20,592.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4945	1.3.1.6.4.5	Hardware Blower Labor and Assembly	LLNL	B&H	2	4 wks	\$0.00	\$0.00	\$8,320.00	\$8,320.00	\$8,153.60	\$4,118.40	\$20,592.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4946	1.3.1.6.4.5	Mechanical Hardware Labor and Assembly	LLNL	B&H	2	8 wks	\$0.00	\$0.00	\$16,640.00	\$16,640.00	\$16,307.20	\$8,236.80	\$41,184.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$16,640.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4947	1.3.1.6.4.5	Focal plane electrical assembly	LLNL	B&H	2	4 wks	\$0.00	\$0.00	\$8,320.00	\$8,320.00	\$8,153.60	\$4,118.40	\$20,592.00
		<i>LLNL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4948	1.3.1.6.4.5	Software Load	LLNL	ED&I	2	0.4 wks	\$0.00	\$0.00	\$864.00	\$864.00	\$846.72	\$427.68	\$2,138.40
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$864.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4949	1.3.1.6.4.5	Mechanical Acceptance Test	LLNL	ED&I	2	2 wks	\$0.00	\$0.00	\$5,040.00	\$5,040.00	\$4,939.20	\$2,494.80	\$12,474.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,040.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4950	1.3.1.6.4.5	Electrical Acceptance Test	LLNL	ED&I	2	0.8 wks	\$0.00	\$0.00	\$1,984.00	\$1,984.00	\$1,944.32	\$982.08	\$4,910.40
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,984.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4951	1.3.1.6.4.5	Calibration	LLNL	ED&I	2	2 wks	\$0.00	\$0.00	\$4,320.00	\$4,320.00	\$4,233.60	\$2,138.40	\$10,692.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4952	1.3.1.6.5	Gas Mixing System			0	30.2 wks	\$0.00	\$150,000.00	\$66,016.00	\$216,016.00	\$93,045.68	\$77,265.42	\$386,327.10
4953	1.3.1.6.5.1	Safety Note	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4954	1.3.1.6.5.2	FDR	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4955	1.3.1.6.5.3	Procurement	LLNL		0	0 wks	\$0.00	\$150,000.00	\$0.00	\$150,000.00	\$28,350.00	\$44,587.50	\$222,937.50
4956	1.3.1.6.5.3	System Controller	LLNL	M&S	2	0 wks	\$0.00	\$9,000.00	\$0.00	\$9,000.00	\$1,701.00	\$2,675.25	\$13,376.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>9,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4957	1.3.1.6.5.3	System Controller Panel	LLNL	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$945.00	\$1,486.25	\$7,431.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4958	1.3.1.6.5.3	Pressure Baratron MKS Head 750B	LLNL	M&S	2	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$1,512.00	\$2,378.00	\$11,890.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4959	1.3.1.6.5.3	Pressure Controller Baratron MKS 146	LLNL	M&S	2	0 wks	\$0.00	\$9,000.00	\$0.00	\$9,000.00	\$1,701.00	\$2,675.25	\$13,376.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>9,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4960	1.3.1.6.5.3	Flow Controller 5000 sccm 2179	LLNL	M&S	2	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$1,512.00	\$2,378.00	\$11,890.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4961	1.3.1.6.5.3	Flow Meter 5000 sccm 179	LLNL	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$945.00	\$1,486.25	\$7,431.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
4962	1.3.1.6.5.3	Flow Controller Driver 246	LLNL	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$945.00	\$1,486.25	\$7,431.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4963	1.3.1.6.5.3	Flow and Pressure Read Out Driver 660	LLNL	M&S	2	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$1,512.00	\$2,378.00	\$11,890.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4964	1.3.1.6.5.3	Driver Card Bay Pneumatic	LLNL	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$378.00	\$594.50	\$2,972.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4965	1.3.1.6.5.3	Cables	LLNL	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$567.00	\$891.75	\$4,458.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4966	1.3.1.6.5.3	Racks and Chases	LLNL	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$945.00	\$1,486.25	\$7,431.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4967	1.3.1.6.5.3	Regulator Manifold and Bottle Bank	LLNL	M&S	2	0 wks	\$0.00	\$17,000.00	\$0.00	\$17,000.00	\$3,213.00	\$5,053.25	\$25,266.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>17,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$17,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4968	1.3.1.6.5.3	Platform for bottle rack	LLNL	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$756.00	\$1,189.00	\$5,945.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4969	1.3.1.6.5.3	Bottle Heater and Scale	LLNL	M&S	2	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$1,512.00	\$2,378.00	\$11,890.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4970	1.3.1.6.5.3	Transfer and Regulator and Flow Control Manifold	LLNL	M&S	2	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$1,890.00	\$2,972.50	\$14,862.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4971	1.3.1.6.5.3	Manchester Tanks	LLNL	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$297.25	\$1,486.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4972	1.3.1.6.5.3	Platform for mixer	LLNL	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$567.00	\$891.75	\$4,458.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4973	1.3.1.6.5.3	Hardware	LLNL	M&S	2	0 wks	\$0.00	\$18,000.00	\$0.00	\$18,000.00	\$3,402.00	\$5,350.50	\$26,752.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>18,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$18,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4974	1.3.1.6.5.3	Hardware Support Blower	LLNL	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$945.00	\$1,486.25	\$7,431.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4975	1.3.1.6.5.3	EPICS IF	LLNL	M&S	2	0 wks	\$0.00	\$17,000.00	\$0.00	\$17,000.00	\$3,213.00	\$5,053.25	\$25,266.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>17,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$17,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4976	1.3.1.6.5.4	Assembly and Test	LLNL		0	28 wks	\$0.00	\$0.00	\$60,480.00	\$60,480.00	\$59,270.40	\$29,937.60	\$149,688.00
4977	1.3.1.6.5.4	System Controller Computer Labor	LLNL	B&H	2	2 wks	\$0.00	\$0.00	\$4,240.00	\$4,240.00	\$4,155.20	\$2,098.80	\$10,494.00
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,240.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4978	1.3.1.6.5.4	System Controller Computer Programming and interface	LLNL	ED&I	2	4 wks	\$0.00	\$0.00	\$8,640.00	\$8,640.00	\$8,467.20	\$4,276.80	\$21,384.00
		<i>LLNL Physicist - Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,640.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4979	1.3.1.6.5.4	System Controller Assembly	LLNL	B&H	2	2 wks	\$0.00	\$0.00	\$4,240.00	\$4,240.00	\$4,155.20	\$2,098.80	\$10,494.00
		<i>LLNL Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,240.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
4980	1.3.1.6.5.4	System Controller Panel Assembly	LLNL	B&H	2	2 wks	\$0.00	\$0.00	\$4,160.00	\$4,160.00	\$4,076.80	\$2,059.20	\$10,296.00
		<i>LLNL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4981	1.3.1.6.5.4	EE Wiring	LLNL	B&H	2	2 wks	\$0.00	\$0.00	\$4,160.00	\$4,160.00	\$4,076.80	\$2,059.20	\$10,296.00
		<i>LLNL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4982	1.3.1.6.5.4	Labor and Assembly Bottle Manifold	LLNL	B&H	2	4 wks	\$0.00	\$0.00	\$8,320.00	\$8,320.00	\$8,153.60	\$4,118.40	\$20,592.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4983	1.3.1.6.5.4	Labor and Assembly Transfer Manifold	LLNL	B&H	2	4 wks	\$0.00	\$0.00	\$8,320.00	\$8,320.00	\$8,153.60	\$4,118.40	\$20,592.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4984	1.3.1.6.5.4	Labor and Assembly Hardware	LLNL	B&H	2	3 wks	\$0.00	\$0.00	\$6,240.00	\$6,240.00	\$6,115.20	\$3,088.80	\$15,444.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,240.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4985	1.3.1.6.5.4	Labor and Assembly Hardware Blower	LLNL	B&H	2	1 wk	\$0.00	\$0.00	\$2,080.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4986	1.3.1.6.5.4	System Pressure Qualifying	LLNL	ED&I	2	4 wks	\$0.00	\$0.00	\$10,080.00	\$10,080.00	\$9,878.40	\$4,989.60	\$24,948.00
		<i>LLNL AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4987	1.3.1.6.5.5	Install and Test	LLNL		0	2.2 wks	\$0.00	\$0.00	\$5,536.00	\$5,536.00	\$5,425.28	\$2,740.32	\$13,701.60
4988	1.3.1.6.5.5	Shipping	LLNL	B&H	2	0.2 wks	\$0.00	\$0.00	\$496.00	\$496.00	\$486.08	\$245.52	\$1,227.60
		<i>LLNL T&M Crafts - Union Equip. Op.</i>		<i>B&H</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$496.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4989	1.3.1.6.5.5	Install	LLNL	B&H	2	1 wk	\$0.00	\$0.00	\$2,520.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL T&M Crafts - Union Pipefitter</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4990	1.3.1.6.5.5	Final Acceptance Test	LLNL	ED&I	2	1 wk	\$0.00	\$0.00	\$2,520.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4991	1.3.1.6.6	Tank FEE 1			0	15.4 wks	\$0.00	\$264,000.00	\$33,672.00	\$297,672.00	\$82,894.56	\$95,141.64	\$475,708.20
4992	1.3.1.6.6.1	PDR	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4993	1.3.1.6.6.2	FDR	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4994	1.3.1.6.6.3	Procurement	LLNL		0	0 wks	\$0.00	\$264,000.00	\$0.00	\$264,000.00	\$49,896.00	\$78,474.00	\$392,370.00
4995	1.3.1.6.6.3	Tank with 3 doors and lid	LLNL	M&S	2	0 wks	\$0.00	\$50,000.00	\$0.00	\$50,000.00	\$9,450.00	\$14,862.50	\$74,312.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>50,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$50,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4996	1.3.1.6.6.3	Turbo System -2101	LLNL	M&S	2	0 wks	\$0.00	\$35,000.00	\$0.00	\$35,000.00	\$6,615.00	\$10,403.75	\$52,018.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>35,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4997	1.3.1.6.6.3	Scroll Dry Pump	LLNL	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$567.00	\$891.75	\$4,458.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4998	1.3.1.6.6.3		LLNL	M&S	2	0 wks	\$0.00	\$13,000.00	\$0.00	\$13,000.00	\$2,457.00	\$3,864.25	\$19,321.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>13,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
4999	1.3.1.6.6.3	Pressure Baratron MKS Head 750B	LLNL	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$297.25	\$1,486.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
5000	1.3.1.6.6.3	Pressure Controller Baratron MKS	LLNL	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$945.00	\$1,486.25	\$7,431.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5001	1.3.1.6.6.3	Gate Valve MDC 8"	LLNL	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$567.00	\$891.75	\$4,458.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5002	1.3.1.6.6.3	Ion Guage (2)	LLNL	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$567.00	\$891.75	\$4,458.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5003	1.3.1.6.6.3	Key vacuum map ADP-3500	LLNL	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$756.00	\$1,189.00	\$5,945.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5004	1.3.1.6.6.3	Optical rails (6m@0.5)	LLNL	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$567.00	\$891.75	\$4,458.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5005	1.3.1.6.6.3	DI Imager insertion stage	LLNL	M&S	2	0 wks	\$0.00	\$20,000.00	\$0.00	\$20,000.00	\$3,780.00	\$5,945.00	\$29,725.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>20,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$20,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5006	1.3.1.6.6.3	SF Imager insertion stage	LLNL	M&S	2	0 wks	\$0.00	\$20,000.00	\$0.00	\$20,000.00	\$3,780.00	\$5,945.00	\$29,725.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>20,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$20,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5007	1.3.1.6.6.3	Spare insertion stage	LLNL	M&S	2	0 wks	\$0.00	\$20,000.00	\$0.00	\$20,000.00	\$3,780.00	\$5,945.00	\$29,725.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>20,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$20,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5008	1.3.1.6.6.3	Plates	LLNL	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$297.25	\$1,486.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5009	1.3.1.6.6.3	Feedthroughs 21*0.3	LLNL	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$1,134.00	\$1,783.50	\$8,917.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5010	1.3.1.6.6.3	Cables	LLNL	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$945.00	\$1,486.25	\$7,431.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5011	1.3.1.6.6.3	Racks and Chases	LLNL	M&S	2	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$1,512.00	\$2,378.00	\$11,890.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5012	1.3.1.6.6.3	Stand	LLNL	M&S	2	0 wks	\$0.00	\$17,000.00	\$0.00	\$17,000.00	\$3,213.00	\$5,053.25	\$25,266.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>17,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$17,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5013	1.3.1.6.6.3	Motor Driver	LLNL	M&S	2	0 wks	\$0.00	\$15,000.00	\$0.00	\$15,000.00	\$2,835.00	\$4,458.75	\$22,293.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>15,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$15,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5014	1.3.1.6.6.3	Motor PCI card	LLNL	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$297.25	\$1,486.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5015	1.3.1.6.6.3	Computer	LLNL	M&S	2	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$1,890.00	\$2,972.50	\$14,862.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5016	1.3.1.6.6.3	Monitor	LLNL	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$756.00	\$1,189.00	\$5,945.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5017	1.3.1.6.6.3	EPICS IF	LLNL	M&S	2	0 wks	\$0.00	\$17,000.00	\$0.00	\$17,000.00	\$3,213.00	\$5,053.25	\$25,266.25

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>17,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$17,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5018	1.3.1.6.6.4	Assembly and Test	LLNL		0	13 wks	\$0.00	\$0.00	\$27,640.00	\$27,640.00	\$27,087.20	\$13,681.80	\$68,409.00
5019	1.3.1.6.6.4	Assemble vaccum system	LLNL	B&H	2	6 wks	\$0.00	\$0.00	\$12,480.00	\$12,480.00	\$12,230.40	\$6,177.60	\$30,888.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,480.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5020	1.3.1.6.6.4	Computer Programming and interface	LLNL	ED&I	2	2 wks	\$0.00	\$0.00	\$4,320.00	\$4,320.00	\$4,233.60	\$2,138.40	\$10,692.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5021	1.3.1.6.6.4	Assemble Stand	LLNL	B&H	2	2 wks	\$0.00	\$0.00	\$4,160.00	\$4,160.00	\$4,076.80	\$2,059.20	\$10,296.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5022	1.3.1.6.6.4	EE Wiring	LLNL	B&H	2	2 wks	\$0.00	\$0.00	\$4,160.00	\$4,160.00	\$4,076.80	\$2,059.20	\$10,296.00
		<i>LLNL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5023	1.3.1.6.6.4	System Vacuum test	LLNL	ED&I	2	1 wk	\$0.00	\$0.00	\$2,520.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5024	1.3.1.6.6.5	Install and Test	LLNL		0	2.4 wks	\$0.00	\$0.00	\$6,032.00	\$6,032.00	\$5,911.36	\$2,985.84	\$14,929.20
5025	1.3.1.6.6.5	Shipping	LLNL	B&H	2	0.4 wks	\$0.00	\$0.00	\$992.00	\$992.00	\$972.16	\$491.04	\$2,455.20
		<i>LLNL T&M Crafts - Union Equip. Op.</i>		<i>B&H</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$992.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5026	1.3.1.6.6.5	Install	LLNL	B&H	2	1 wk	\$0.00	\$0.00	\$2,520.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL T&M Crafts - Union Pipefitter</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5027	1.3.1.6.6.5	Final Acceptance Test	LLNL	ED&I	2	1 wk	\$0.00	\$0.00	\$2,520.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5028	1.3.1.6.7	Ion Pumped Diagnostic Tanks			0	29.8 wks	\$0.00	\$314,000.00	\$65,464.00	\$379,464.00	\$123,500.72	\$119,769.50	\$622,734.22
5029	1.3.1.6.7.1	PDR	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5030	1.3.1.6.7.2	FDR	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5031	1.3.1.6.7.3	Procurement	LLNL		0	0 wks	\$0.00	\$314,000.00	\$0.00	\$314,000.00	\$59,346.00	\$93,336.50	\$466,682.50
5032	1.3.1.6.7.3	Tank with lid	LLNL	M&S	2	0 wks	\$0.00	\$60,000.00	\$0.00	\$60,000.00	\$11,340.00	\$17,835.00	\$89,175.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>60,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$60,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5033	1.3.1.6.7.3	Ion Pump	LLNL	M&S	2	0 wks	\$0.00	\$22,000.00	\$0.00	\$22,000.00	\$4,158.00	\$6,539.50	\$32,697.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>22,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$22,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5034	1.3.1.6.7.3	Ion pump power supply	LLNL	M&S	2	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$1,890.00	\$2,972.50	\$14,862.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5035	1.3.1.6.7.3	Ion Guage (2)	LLNL	M&S	2	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$1,323.00	\$2,080.75	\$10,403.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>7,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5036	1.3.1.6.7.3	Convectron guage	LLNL	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$378.00	\$594.50	\$2,972.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5037	1.3.1.6.7.3	Optical rails (2m@0.5)	LLNL	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$378.00	\$594.50	\$2,972.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
5038	1.3.1.6.7.3	DI Imager insertion stage	LLNL	M&S	2	0 wks	\$0.00	\$40,000.00	\$0.00	\$40,000.00	\$7,560.00	\$11,890.00	\$59,450.00
		<i>LLNL M&S Total</i>		M&S	0	40,000	\$0.00	\$0.00	\$0.00	\$40,000.00	\$0.00	\$0.00	\$0.00
5039	1.3.1.6.7.3	DI Base plate	LLNL	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>LLNL M&S Total</i>		M&S	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5040	1.3.1.6.7.3	Scatter Imager insertion stage	LLNL	M&S	2	0 wks	\$0.00	\$40,000.00	\$0.00	\$40,000.00	\$7,560.00	\$11,890.00	\$59,450.00
		<i>LLNL M&S Total</i>		M&S	0	40,000	\$0.00	\$0.00	\$0.00	\$40,000.00	\$0.00	\$0.00	\$0.00
5041	1.3.1.6.7.3	Scatter Imager Base plate	LLNL	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>LLNL M&S Total</i>		M&S	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5042	1.3.1.6.7.3	Stage Feedthroughs 8*0.3	LLNL	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$945.00	\$1,486.25	\$7,431.25
		<i>LLNL M&S Total</i>		M&S	0	5,000	\$0.00	\$0.00	\$0.00	\$5,000.00	\$0.00	\$0.00	\$0.00
5043	1.3.1.6.7.3	Camera Feedthroughs 2*0.3	LLNL	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$297.25	\$1,486.25
		<i>LLNL M&S Total</i>		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
5044	1.3.1.6.7.3	Racks and Chases	LLNL	M&S	2	0 wks	\$0.00	\$15,000.00	\$0.00	\$15,000.00	\$2,835.00	\$4,458.75	\$22,293.75
		<i>LLNL M&S Total</i>		M&S	0	15,000	\$0.00	\$0.00	\$0.00	\$15,000.00	\$0.00	\$0.00	\$0.00
5045	1.3.1.6.7.3	Stand	LLNL	M&S	2	0 wks	\$0.00	\$20,000.00	\$0.00	\$20,000.00	\$3,780.00	\$5,945.00	\$29,725.00
		<i>LLNL M&S Total</i>		M&S	0	20,000	\$0.00	\$0.00	\$0.00	\$20,000.00	\$0.00	\$0.00	\$0.00
5046	1.3.1.6.7.3	Motor Driver	LLNL	M&S	2	0 wks	\$0.00	\$26,000.00	\$0.00	\$26,000.00	\$4,914.00	\$7,728.50	\$38,642.50
		<i>LLNL M&S Total</i>		M&S	0	26,000	\$0.00	\$0.00	\$0.00	\$26,000.00	\$0.00	\$0.00	\$0.00
5047	1.3.1.6.7.3	Motor PCI card	LLNL	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$378.00	\$594.50	\$2,972.50
		<i>LLNL M&S Total</i>		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
5048	1.3.1.6.7.3	Computer	LLNL	M&S	2	0 wks	\$0.00	\$20,000.00	\$0.00	\$20,000.00	\$3,780.00	\$5,945.00	\$29,725.00
		<i>LLNL M&S Total</i>		M&S	0	20,000	\$0.00	\$0.00	\$0.00	\$20,000.00	\$0.00	\$0.00	\$0.00
5049	1.3.1.6.7.3	Monitor	LLNL	M&S	2	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$1,512.00	\$2,378.00	\$11,890.00
		<i>LLNL M&S Total</i>		M&S	0	8,000	\$0.00	\$0.00	\$0.00	\$8,000.00	\$0.00	\$0.00	\$0.00
5050	1.3.1.6.7.3	EPICS IF	LLNL	M&S	2	0 wks	\$0.00	\$34,000.00	\$0.00	\$34,000.00	\$6,426.00	\$10,106.50	\$50,532.50
		<i>LLNL M&S Total</i>		M&S	0	34,000	\$0.00	\$0.00	\$0.00	\$34,000.00	\$0.00	\$0.00	\$0.00
5051	1.3.1.6.7.4	Machined parts	LLNL		0	1 wk	\$0.00	\$0.00	\$2,280.00	\$2,280.00	\$2,234.40	\$1,128.60	\$5,643.00
5052	1.3.1.6.7.4	Base Plate	LLNL	B&H	2	0.2 wks	\$0.00	\$0.00	\$456.00	\$456.00	\$446.88	\$225.72	\$1,128.60
		<i>LLNL Mech. Fab: Machine Shop</i>		B&H	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$456.00	\$0.00	\$0.00	\$0.00
5053	1.3.1.6.7.4	DI Base Plate	LLNL	B&H	2	0.4 wks	\$0.00	\$0.00	\$912.00	\$912.00	\$893.76	\$451.44	\$2,257.20
		<i>LLNL Mech. Fab: Machine Shop</i>		B&H	0	0.4 wks	\$0.00	\$0.00	\$0.00	\$912.00	\$0.00	\$0.00	\$0.00
5054	1.3.1.6.7.4	SF Base Plate	LLNL	B&H	2	0.4 wks	\$0.00	\$0.00	\$912.00	\$912.00	\$893.76	\$451.44	\$2,257.20
		<i>LLNL Mech. Fab: Machine Shop</i>		B&H	0	0.4 wks	\$0.00	\$0.00	\$0.00	\$912.00	\$0.00	\$0.00	\$0.00
5055	1.3.1.6.7.5	Assembly and Test	LLNL		0	24 wks	\$0.00	\$0.00	\$51,120.00	\$51,120.00	\$50,097.60	\$25,304.40	\$126,522.00
5056	1.3.1.6.7.5	Assemble vaccum system	LLNL	B&H	2	10 wks	\$0.00	\$0.00	\$20,800.00	\$20,800.00	\$20,384.00	\$10,296.00	\$51,480.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>10 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$20,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5057	1.3.1.6.7.5	Computer Programming and interface	LLNL	ED&I	2	4 wks	\$0.00	\$0.00	\$8,640.00	\$8,640.00	\$8,467.20	\$4,276.80	\$21,384.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,640.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5058	1.3.1.6.7.5	Assemble Stand	LLNL	B&H	2	4 wks	\$0.00	\$0.00	\$8,320.00	\$8,320.00	\$8,153.60	\$4,118.40	\$20,592.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5059	1.3.1.6.7.5	EE Wireing	LLNL	B&H	2	4 wks	\$0.00	\$0.00	\$8,320.00	\$8,320.00	\$8,153.60	\$4,118.40	\$20,592.00
		<i>LLNL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5060	1.3.1.6.7.5	System Vacuum test	LLNL	ED&I	2	2 wks	\$0.00	\$0.00	\$5,040.00	\$5,040.00	\$4,939.20	\$2,494.80	\$12,474.00
		<i>LLNL AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,040.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5061	1.3.1.6.7.6	Install and Test	LLNL		0	4.8 wks	\$0.00	\$0.00	\$12,064.00	\$12,064.00	\$11,822.72	\$0.00	\$23,886.72
5062	1.3.1.6.7.6	Shipping	LLNL	B&H	0	0.8 wks	\$0.00	\$0.00	\$1,984.00	\$1,984.00	\$1,944.32	\$0.00	\$3,928.32
		<i>LLNL T&M Crafts - Union Equip. Op.</i>		<i>B&H</i>	<i>2</i>	<i>0.8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,984.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5063	1.3.1.6.7.6	Install	LLNL	B&H	0	2 wks	\$0.00	\$0.00	\$5,040.00	\$5,040.00	\$4,939.20	\$0.00	\$9,979.20
		<i>LLNL T&M Crafts - Union Pipefitter</i>		<i>B&H</i>	<i>2</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,040.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5064	1.3.1.6.7.6	Final Acceptance Test	LLNL	ED&I	0	2 wks	\$0.00	\$0.00	\$5,040.00	\$5,040.00	\$4,939.20	\$0.00	\$9,979.20
		<i>LLNL AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	<i>2</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,040.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5065	1.3.1.6.8	Diagnostic Tank A4 1			0	16.1 wks	\$0.00	\$347,000.00	\$35,268.00	\$382,268.00	\$100,145.64	\$120,603.41	\$603,017.05
5066	1.3.1.6.8.1	PDR	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5067	1.3.1.6.8.2	FDR	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5068	1.3.1.6.8.3	Procurement	LLNL		0	0 wks	\$0.00	\$347,000.00	\$0.00	\$347,000.00	\$65,583.00	\$103,145.75	\$515,728.75
5069	1.3.1.6.8.3	Tank with 3 doors and lid	LLNL	M&S	2	0 wks	\$0.00	\$50,000.00	\$0.00	\$50,000.00	\$9,450.00	\$14,862.50	\$74,312.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>50,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$50,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5070	1.3.1.6.8.3	Observation ports 3@(.65+.2)	LLNL	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$567.00	\$891.75	\$4,458.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5071	1.3.1.6.8.3	Turbo System -2101	LLNL	M&S	2	0 wks	\$0.00	\$35,000.00	\$0.00	\$35,000.00	\$6,615.00	\$10,403.75	\$52,018.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>35,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5072	1.3.1.6.8.3	Display Panel-2101	LLNL	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$567.00	\$891.75	\$4,458.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5073	1.3.1.6.8.3	Scroll Dry Pump	LLNL	M&S	2	0 wks	\$0.00	\$13,000.00	\$0.00	\$13,000.00	\$2,457.00	\$3,864.25	\$19,321.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>13,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5074	1.3.1.6.8.3	Pressure Baratron MKS Head 750B	LLNL	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$297.25	\$1,486.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5075	1.3.1.6.8.3	Pressure Controller Baratron MKS	LLNL	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$945.00	\$1,486.25	\$7,431.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5076	1.3.1.6.8.3	Gate Valve MDC 8"	LLNL	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$567.00	\$891.75	\$4,458.75

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5077	1.3.1.6.8.3	Ion Guage (2)	LLNL	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$567.00	\$891.75	\$4,458.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5078	1.3.1.6.8.3	Key vacuum map ADP-3500	LLNL	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$756.00	\$1,189.00	\$5,945.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5079	1.3.1.6.8.3	Optical rails (2m@0.5)	LLNL	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$297.25	\$1,486.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5080	1.3.1.6.8.3	2 axis Rail adjustment	LLNL	M&S	2	0 wks	\$0.00	\$14,000.00	\$0.00	\$14,000.00	\$2,646.00	\$4,161.50	\$20,807.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>14,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$14,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5081	1.3.1.6.8.3	1 axis Rail adjustment and pivot	LLNL	M&S	2	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$1,512.00	\$2,378.00	\$11,890.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5082	1.3.1.6.8.3	DI Imager insertion stage	LLNL	M&S	2	0 wks	\$0.00	\$20,000.00	\$0.00	\$20,000.00	\$3,780.00	\$5,945.00	\$29,725.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>20,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$20,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5083	1.3.1.6.8.3	Attenuation Stage and carrier	LLNL	M&S	2	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$1,512.00	\$2,378.00	\$11,890.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5084	1.3.1.6.8.3	DI Base plate	LLNL	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5085	1.3.1.6.8.3	4 axis Optics Stage + Carrer	LLNL	M&S	2	0 wks	\$0.00	\$29,000.00	\$0.00	\$29,000.00	\$5,481.00	\$8,620.25	\$43,101.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>29,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$29,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5086	1.3.1.6.8.3	6 axis Aperture Stage + Carrer	LLNL	M&S	2	0 wks	\$0.00	\$43,000.00	\$0.00	\$43,000.00	\$8,127.00	\$12,781.75	\$63,908.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>43,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$43,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5087	1.3.1.6.8.3	Base Plates	LLNL	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$567.00	\$891.75	\$4,458.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5088	1.3.1.6.8.3	Stage Feedthroughs 21*0.3	LLNL	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$1,134.00	\$1,783.50	\$8,917.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5089	1.3.1.6.8.3	Camera Feedthroughs 5*0.3	LLNL	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$378.00	\$594.50	\$2,972.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5090	1.3.1.6.8.3	Laser Feedthroughs 4*0.3	LLNL	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$297.25	\$1,486.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5091	1.3.1.6.8.3	Racks and Chases	LLNL	M&S	2	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$1,512.00	\$2,378.00	\$11,890.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5092	1.3.1.6.8.3	Stand	LLNL	M&S	2	0 wks	\$0.00	\$17,000.00	\$0.00	\$17,000.00	\$3,213.00	\$5,053.25	\$25,266.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>17,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$17,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5093	1.3.1.6.8.3	Motor Driver	LLNL	M&S	2	0 wks	\$0.00	\$35,000.00	\$0.00	\$35,000.00	\$6,615.00	\$10,403.75	\$52,018.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>35,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
5094	1.3.1.6.8.3	Motor PCI card	LLNL	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$297.25	\$1,486.25
		<i>LLNL M&S Total</i>		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
5095	1.3.1.6.8.3	Computer	LLNL	M&S	2	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$1,890.00	\$2,972.50	\$14,862.50
		<i>LLNL M&S Total</i>		M&S	0	10,000	\$0.00	\$0.00	\$0.00	\$10,000.00	\$0.00	\$0.00	\$0.00
5096	1.3.1.6.8.3	Monitor	LLNL	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$756.00	\$1,189.00	\$5,945.00
		<i>LLNL M&S Total</i>		M&S	0	4,000	\$0.00	\$0.00	\$0.00	\$4,000.00	\$0.00	\$0.00	\$0.00
5097	1.3.1.6.8.3	EPICS IF	LLNL	M&S	2	0 wks	\$0.00	\$17,000.00	\$0.00	\$17,000.00	\$3,213.00	\$5,053.25	\$25,266.25
		<i>LLNL M&S Total</i>		M&S	0	17,000	\$0.00	\$0.00	\$0.00	\$17,000.00	\$0.00	\$0.00	\$0.00
5098	1.3.1.6.8.4	Machined parts	LLNL		0	0.7 wks	\$0.00	\$0.00	\$1,596.00	\$1,596.00	\$1,564.08	\$790.02	\$3,950.10
5099	1.3.1.6.8.4	Base Plate	LLNL	B&H	2	0.1 wks	\$0.00	\$0.00	\$228.00	\$228.00	\$223.44	\$112.86	\$564.30
		<i>LLNL Mech. Fab: Machine Shop</i>		B&H	2	0.1 wks	\$0.00	\$0.00	\$0.00	\$228.00	\$0.00	\$0.00	\$0.00
5100	1.3.1.6.8.4	Pivot	LLNL	B&H	2	0.1 wks	\$0.00	\$0.00	\$228.00	\$228.00	\$223.44	\$112.86	\$564.30
		<i>LLNL Mech. Fab: Machine Shop</i>		B&H	2	0.1 wks	\$0.00	\$0.00	\$0.00	\$228.00	\$0.00	\$0.00	\$0.00
5101	1.3.1.6.8.4	Rail Alignment	LLNL	B&H	2	0.1 wks	\$0.00	\$0.00	\$228.00	\$228.00	\$223.44	\$112.86	\$564.30
		<i>LLNL Mech. Fab: Machine Shop</i>		B&H	2	0.1 wks	\$0.00	\$0.00	\$0.00	\$228.00	\$0.00	\$0.00	\$0.00
5102	1.3.1.6.8.4	Aperture Stage	LLNL	B&H	2	0.1 wks	\$0.00	\$0.00	\$228.00	\$228.00	\$223.44	\$112.86	\$564.30
		<i>LLNL Mech. Fab: Machine Shop</i>		B&H	2	0.1 wks	\$0.00	\$0.00	\$0.00	\$228.00	\$0.00	\$0.00	\$0.00
5103	1.3.1.6.8.4	Optics Stage	LLNL	B&H	2	0.1 wks	\$0.00	\$0.00	\$228.00	\$228.00	\$223.44	\$112.86	\$564.30
		<i>LLNL Mech. Fab: Machine Shop</i>		B&H	2	0.1 wks	\$0.00	\$0.00	\$0.00	\$228.00	\$0.00	\$0.00	\$0.00
5104	1.3.1.6.8.4	DI Base Plate	LLNL	B&H	2	0.2 wks	\$0.00	\$0.00	\$456.00	\$456.00	\$446.88	\$225.72	\$1,128.60
		<i>LLNL Mech. Fab: Machine Shop</i>		B&H	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$456.00	\$0.00	\$0.00	\$0.00
5105	1.3.1.6.8.5	Assembly and Test	LLNL		0	13 wks	\$0.00	\$0.00	\$27,640.00	\$27,640.00	\$27,087.20	\$13,681.80	\$68,409.00
5106	1.3.1.6.8.5	Assemble vaccum system	LLNL	B&H	2	6 wks	\$0.00	\$0.00	\$12,480.00	\$12,480.00	\$12,230.40	\$6,177.60	\$30,888.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		B&H	0	6 wks	\$0.00	\$0.00	\$0.00	\$12,480.00	\$0.00	\$0.00	\$0.00
5107	1.3.1.6.8.5	Computer Programming and interface	LLNL	ED&I	2	2 wks	\$0.00	\$0.00	\$4,320.00	\$4,320.00	\$4,233.60	\$2,138.40	\$10,692.00
		<i>LLNL Physicist -Scientist</i>		ED&I	0	2 wks	\$0.00	\$0.00	\$0.00	\$4,320.00	\$0.00	\$0.00	\$0.00
5108	1.3.1.6.8.5	Assemble Stand	LLNL	B&H	2	2 wks	\$0.00	\$0.00	\$4,160.00	\$4,160.00	\$4,076.80	\$2,059.20	\$10,296.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		B&H	0	2 wks	\$0.00	\$0.00	\$0.00	\$4,160.00	\$0.00	\$0.00	\$0.00
5109	1.3.1.6.8.5	EE Wiring	LLNL	B&H	2	2 wks	\$0.00	\$0.00	\$4,160.00	\$4,160.00	\$4,076.80	\$2,059.20	\$10,296.00
		<i>LLNL PCD:Inst-Cabling-Elec Fab</i>		B&H	0	2 wks	\$0.00	\$0.00	\$0.00	\$4,160.00	\$0.00	\$0.00	\$0.00
5110	1.3.1.6.8.5	System Vacuum test	LLNL	ED&I	2	1 wk	\$0.00	\$0.00	\$2,520.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL AD: Mech/Vacuum Engineer</i>		ED&I	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,520.00	\$0.00	\$0.00	\$0.00
5111	1.3.1.6.8.6	Install and Test	LLNL		0	2.4 wks	\$0.00	\$0.00	\$6,032.00	\$6,032.00	\$5,911.36	\$2,985.84	\$14,929.20
5112	1.3.1.6.8.6	Shipping	LLNL	B&H	2	0.4 wks	\$0.00	\$0.00	\$992.00	\$992.00	\$972.16	\$491.04	\$2,455.20
		<i>LLNL T&M Crafts - Union Equip. Op.</i>		B&H	0	0.4 wks	\$0.00	\$0.00	\$0.00	\$992.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
5113	1.3.1.6.8.6	Install	LLNL	B&H	2	1 wk	\$0.00	\$0.00	\$2,520.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL T&M Crafts - Union Pipelitter</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5114	1.3.1.6.8.6	Final Acceptance Test	LLNL	ED&I	2	1 wk	\$0.00	\$0.00	\$2,520.00	\$2,520.00	\$2,469.60	\$1,247.40	\$6,237.00
		<i>LLNL AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,520.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5115	1.3.1.6.9	Total Energy			0	38.5 wks	\$0.00	\$137,000.00	\$87,208.00	\$224,208.00	\$111,356.84	\$74,741.61	\$410,306.45
5116	1.3.1.6.9.1	PDR	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5117	1.3.1.6.9.2	FDR	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5118	1.3.1.6.9.3	Data Acquisition	LLNL		0	1 wk	\$0.00	\$39,000.00	\$2,080.00	\$41,080.00	\$9,409.40	\$12,622.35	\$63,111.75
5119	1.3.1.6.9.3	Computer labor	LLNL	B&H	2	1 wk	\$0.00	\$0.00	\$2,080.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL PCD:Technician</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5120	1.3.1.6.9.3	Computer	LLNL	M&S	2	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$1,890.00	\$2,972.50	\$14,862.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5121	1.3.1.6.9.3	Monitor	LLNL	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$756.00	\$1,189.00	\$5,945.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5122	1.3.1.6.9.3	Stage controller Channel-Card	LLNL	M&S	2	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$1,323.00	\$2,080.75	\$10,403.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>7,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5123	1.3.1.6.9.3	GPIOs Card	LLNL	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$297.25	\$1,486.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5124	1.3.1.6.9.3	Diagnostic Hardware & Controller	LLNL	M&S	2	0 wks	\$0.00	\$17,000.00	\$0.00	\$17,000.00	\$3,213.00	\$5,053.25	\$25,266.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>17,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$17,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5125	1.3.1.6.9.4	Production unit	LLNL		0	37.5 wks	\$0.00	\$98,000.00	\$85,128.00	\$183,128.00	\$101,947.44	\$62,119.26	\$347,194.70
5126	1.3.1.6.9.4	Thermal Semiconductor purchase	LLNL	M&S	0	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$1,512.00	\$0.00	\$9,512.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5127	1.3.1.6.9.4	Machining for transfer measurements	LLNL	ED&I	2	2 wks	\$0.00	\$0.00	\$5,600.00	\$5,600.00	\$5,488.00	\$2,772.00	\$13,860.00
		<i>LLNL Project Management</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5128	1.3.1.6.9.4	Transfer measurements	LLNL	ED&I	2	2 wks	\$0.00	\$0.00	\$4,320.00	\$4,320.00	\$4,233.60	\$2,138.40	\$10,692.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5129	1.3.1.6.9.4	Sensor head fabrication	LLNL	ED&I	2	2 wks	\$0.00	\$0.00	\$4,960.00	\$4,960.00	\$4,860.80	\$2,455.20	\$12,276.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,960.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5130	1.3.1.6.9.4	Sensor head machining	LLNL	ED&I	2	1 wk	\$0.00	\$0.00	\$2,800.00	\$2,800.00	\$2,744.00	\$1,386.00	\$6,930.00
		<i>LLNL Project Management</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5131	1.3.1.6.9.4	Cold Head fabrication	LLNL	B&H	2	3 wks	\$0.00	\$0.00	\$6,840.00	\$6,840.00	\$6,703.20	\$3,385.80	\$16,929.00
		<i>LLNL Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,840.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5132	1.3.1.6.9.4	Cold Head material	LLNL	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$945.00	\$1,486.25	\$7,431.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
5133	1.3.1.6.9.4	Cold Head mount fabrication	LLNL	B&H	0	3 wks	\$0.00	\$0.00	\$6,840.00	\$6,840.00	\$6,703.20	\$0.00	\$13,543.20
		<i>LLNL Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>2</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,840.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5134	1.3.1.6.9.4	Cold Head mount material	LLNL	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$297.25	\$1,486.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5135	1.3.1.6.9.4	Black body materials	LLNL	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$567.00	\$891.75	\$4,458.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5136	1.3.1.6.9.4	Black body fabrication	LLNL	B&H	0	3 wks	\$0.00	\$0.00	\$6,840.00	\$6,840.00	\$6,703.20	\$0.00	\$13,543.20
		<i>LLNL Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,840.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5137	1.3.1.6.9.4	Water Absorber Purchase	LLNL	M&S	2	0 wks	\$0.00	\$35,000.00	\$0.00	\$35,000.00	\$6,615.00	\$10,403.75	\$52,018.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>35,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5138	1.3.1.6.9.4	Water Absorber Fabrication	LLNL	B&H	2	2 wks	\$0.00	\$0.00	\$4,560.00	\$4,560.00	\$4,468.80	\$2,257.20	\$11,286.00
		<i>LLNL Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,560.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5139	1.3.1.6.9.4	Front End Electronics Purchase	LLNL	M&S	2	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$1,890.00	\$2,972.50	\$14,862.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5140	1.3.1.6.9.4	Front End Electronics fab	LLNL	B&H	2	2 wks	\$0.00	\$0.00	\$4,160.00	\$4,160.00	\$4,076.80	\$2,059.20	\$10,296.00
		<i>LLNL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5141	1.3.1.6.9.4	Signal Processing Electronics Purchase	LLNL	M&S	2	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$1,890.00	\$2,972.50	\$14,862.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5142	1.3.1.6.9.4	Signal Processing Electronics fab	LLNL	B&H	2	2 wks	\$0.00	\$0.00	\$4,160.00	\$4,160.00	\$4,076.80	\$2,059.20	\$10,296.00
		<i>LLNL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5143	1.3.1.6.9.4	Computer Interface Electronics Purchase	LLNL	M&S	2	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$1,890.00	\$2,972.50	\$14,862.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5144	1.3.1.6.9.4	Computer Interface Electronics fab	LLNL	B&H	2	2 wks	\$0.00	\$0.00	\$4,160.00	\$4,160.00	\$4,076.80	\$2,059.20	\$10,296.00
		<i>LLNL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5145	1.3.1.6.9.4	Temperature Standard	LLNL	M&S	2	0 wks	\$0.00	\$12,000.00	\$0.00	\$12,000.00	\$2,268.00	\$3,567.00	\$17,835.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>12,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5146	1.3.1.6.9.4	Temperature Standard Electronics	LLNL	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$756.00	\$1,189.00	\$5,945.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5147	1.3.1.6.9.4	Electrical assembly	LLNL	B&H	2	4 wks	\$0.00	\$0.00	\$8,320.00	\$8,320.00	\$8,153.60	\$4,118.40	\$20,592.00
		<i>LLNL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5148	1.3.1.6.9.4	Mechanical assembly	LLNL	B&H	2	4 wks	\$0.00	\$0.00	\$8,320.00	\$8,320.00	\$8,153.60	\$4,118.40	\$20,592.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5149	1.3.1.6.9.4	Software installation	LLNL	ED&I	2	0.1 wks	\$0.00	\$0.00	\$232.00	\$232.00	\$227.36	\$114.84	\$574.20
		<i>LLNL Controls: Programmer</i>		<i>ED&I</i>	<i>0</i>	<i>0.1 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$232.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5150	1.3.1.6.9.4	Electrical acceptance test	LLNL	ED&I	2	4 wks	\$0.00	\$0.00	\$9,920.00	\$9,920.00	\$9,721.60	\$4,910.40	\$24,552.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,920.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5151	1.3.1.6.9.4	Mechanical acceptance test	LLNL	ED&I	2	0.2 wks	\$0.00	\$0.00	\$504.00	\$504.00	\$493.92	\$249.48	\$1,247.40
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$504.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5152	1.3.1.6.9.4	Calibration	LLNL	ED&I	2	0.6 wks	\$0.00	\$0.00	\$1,296.00	\$1,296.00	\$1,270.08	\$641.52	\$3,207.60
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,296.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5153	1.3.1.6.9.4	System acceptance test	LLNL	ED&I	2	0.6 wks	\$0.00	\$0.00	\$1,296.00	\$1,296.00	\$1,270.08	\$641.52	\$3,207.60
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>0.6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,296.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5154	1.3.1.6.10	Pulse Length			0	90 wks	\$0.00	\$469,000.00	\$201,960.00	\$670,960.00	\$286,561.80	\$235,813.45	\$1,193,335.25
5155	1.3.1.6.10.1	PDR	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5156	1.3.1.6.10.2	FDR	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5157	1.3.1.6.10.3	Detector Fab	LLNL		0	20 wks	\$0.00	\$11,000.00	\$44,640.00	\$55,640.00	\$45,826.20	\$25,366.55	\$126,832.75
5158	1.3.1.6.10.3	Crystal Groth	LLNL	B&H	2	4 wks	\$0.00	\$0.00	\$9,120.00	\$9,120.00	\$8,937.60	\$4,514.40	\$22,572.00
		<i>LLNL Mech. Fab: Plating & Cleaning</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,120.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5159	1.3.1.6.10.3	Crystal Groth	LLNL	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$567.00	\$891.75	\$4,458.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5160	1.3.1.6.10.3	Crystal Groth Supplies	LLNL	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$567.00	\$891.75	\$4,458.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5161	1.3.1.6.10.3	Lithography, processing	LLNL	B&H	2	4 wks	\$0.00	\$0.00	\$9,120.00	\$9,120.00	\$8,937.60	\$4,514.40	\$22,572.00
		<i>LLNL Mech. Fab: Plating & Cleaning</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,120.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5162	1.3.1.6.10.3	Dicing, packaging, pigtailling	LLNL	B&H	2	4 wks	\$0.00	\$0.00	\$9,120.00	\$9,120.00	\$8,937.60	\$4,514.40	\$22,572.00
		<i>LLNL Mech. Fab: Plating & Cleaning</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,120.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5163	1.3.1.6.10.3	Testing	LLNL	ED&I	2	8 wks	\$0.00	\$0.00	\$17,280.00	\$17,280.00	\$16,934.40	\$8,553.60	\$42,768.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$17,280.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5164	1.3.1.6.10.3	Testing hardware	LLNL	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$945.00	\$1,486.25	\$7,431.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5165	1.3.1.6.10.4	Input Dispersion System	LLNL		0	6 wks	\$0.00	\$18,000.00	\$13,320.00	\$31,320.00	\$16,455.60	\$11,943.90	\$59,719.50
5166	1.3.1.6.10.4	Dispersive Module (-170 ps/nm)	LLNL	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$378.00	\$594.50	\$2,972.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5167	1.3.1.6.10.4	Fiber Bragg Grating Dispersion Module	LLNL	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$567.00	\$891.75	\$4,458.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5168	1.3.1.6.10.4	Optical Circulator	LLNL	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$567.00	\$891.75	\$4,458.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5169	1.3.1.6.10.4	Fiber polarisation controller (automatic)	LLNL	M&S	2	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$1,890.00	\$2,972.50	\$14,862.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5170	1.3.1.6.10.4	Assembly	LLNL	ED&I	2	1 wk	\$0.00	\$0.00	\$2,160.00	\$2,160.00	\$2,116.80	\$1,069.20	\$5,346.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5171	1.3.1.6.10.4	Assembly Labor	LLNL	B&H	2	2 wks	\$0.00	\$0.00	\$4,560.00	\$4,560.00	\$4,468.80	\$2,257.20	\$11,286.00
		<i>LLNL Mech. Fab: Plating & Cleaning</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,560.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5172	1.3.1.6.10.4	Test	LLNL	ED&I	2	2 wks	\$0.00	\$0.00	\$4,320.00	\$4,320.00	\$4,233.60	\$2,138.40	\$10,692.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5173	1.3.1.6.10.4	Test Labor	LLNL	B&H	2	1 wk	\$0.00	\$0.00	\$2,280.00	\$2,280.00	\$2,234.40	\$1,128.60	\$5,643.00
		<i>LLNL Mech. Fab: Plating & Cleaning</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,280.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5174	1.3.1.6.10.5	Time Lens Pump Source	LLNL		0	10 wks	\$0.00	\$179,000.00	\$22,200.00	\$201,200.00	\$55,587.00	\$64,196.75	\$320,983.75
5175	1.3.1.6.10.5	Ultrafast fiber laser	LLNL	M&S	2	0 wks	\$0.00	\$85,000.00	\$0.00	\$85,000.00	\$16,065.00	\$25,266.25	\$126,331.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>85,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$85,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5176	1.3.1.6.10.5	Amplifier & Pulse Compressor Unit	LLNL	M&S	2	0 wks	\$0.00	\$25,000.00	\$0.00	\$25,000.00	\$4,725.00	\$7,431.25	\$37,156.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>25,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$25,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5177	1.3.1.6.10.5	Amplitude Modulator	LLNL	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$756.00	\$1,189.00	\$5,945.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5178	1.3.1.6.10.5	Modulator Driver	LLNL	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$567.00	\$891.75	\$4,458.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5179	1.3.1.6.10.5	RF frequency synthesizer	LLNL	M&S	2	0 wks	\$0.00	\$45,000.00	\$0.00	\$45,000.00	\$8,505.00	\$13,376.25	\$66,881.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>45,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$45,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5180	1.3.1.6.10.5	RF Phase Shifter or optical delay line	LLNL	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$567.00	\$891.75	\$4,458.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5181	1.3.1.6.10.5	10 km Single mode fiber at 1550 nm (ie SMF28)	LLNL	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$756.00	\$1,189.00	\$5,945.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5182	1.3.1.6.10.5	Fiber polariation controller (automatic)	LLNL	M&S	2	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$1,890.00	\$2,972.50	\$14,862.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5183	1.3.1.6.10.5	Assembly	LLNL	ED&I	2	2 wks	\$0.00	\$0.00	\$4,320.00	\$4,320.00	\$4,233.60	\$2,138.40	\$10,692.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5184	1.3.1.6.10.5	Assembly Labor	LLNL	B&H	2	3 wks	\$0.00	\$0.00	\$6,840.00	\$6,840.00	\$6,703.20	\$3,385.80	\$16,929.00
		<i>LLNL Mech. Fab: Plating & Cleaning</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,840.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5185	1.3.1.6.10.5	Test	LLNL	ED&I	2	3 wks	\$0.00	\$0.00	\$6,480.00	\$6,480.00	\$6,350.40	\$3,207.60	\$16,038.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,480.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5186	1.3.1.6.10.5	Test Labor	LLNL	B&H	2	2 wks	\$0.00	\$0.00	\$4,560.00	\$4,560.00	\$4,468.80	\$2,257.20	\$11,286.00
		<i>LLNL Mech. Fab: Plating & Cleaning</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,560.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5187	1.3.1.6.10.6	Time Lens Mixer	LLNL		0	12 wks	\$0.00	\$54,000.00	\$26,640.00	\$80,640.00	\$36,313.20	\$29,238.30	\$146,191.50
5188	1.3.1.6.10.6	Power EDFA (\$46K short pulse certified, 33k not)	LLNL	M&S	2	0 wks	\$0.00	\$46,000.00	\$0.00	\$46,000.00	\$8,694.00	\$13,673.50	\$68,367.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>46,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$46,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
5189	1.3.1.6.10.6	PPLN crystal(s)	LLNL	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$567.00	\$891.75	\$4,458.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5190	1.3.1.6.10.6	oven and temp controller	LLNL	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$567.00	\$891.75	\$4,458.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5191	1.3.1.6.10.6	collimating/fiber coupling lens	LLNL	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5192	1.3.1.6.10.6	small positioning stages	LLNL	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$297.25	\$1,486.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5193	1.3.1.6.10.6	FC bulkhead connectors	LLNL	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5194	1.3.1.6.10.6	package	LLNL	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$297.25	\$1,486.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5195	1.3.1.6.10.6	Assembly	LLNL	ED&I	2	2 wks	\$0.00	\$0.00	\$4,320.00	\$4,320.00	\$4,233.60	\$2,138.40	\$10,692.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5196	1.3.1.6.10.6	Assembly Labor	LLNL	B&H	2	4 wks	\$0.00	\$0.00	\$9,120.00	\$9,120.00	\$8,937.60	\$4,514.40	\$22,572.00
		<i>LLNL Mech. Fab: Plating & Cleaning</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,120.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5197	1.3.1.6.10.6	Test	LLNL	ED&I	2	4 wks	\$0.00	\$0.00	\$8,640.00	\$8,640.00	\$8,467.20	\$4,276.80	\$21,384.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,640.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5198	1.3.1.6.10.6	Test Labor	LLNL	B&H	2	2 wks	\$0.00	\$0.00	\$4,560.00	\$4,560.00	\$4,468.80	\$2,257.20	\$11,286.00
		<i>LLNL Mech. Fab: Plating & Cleaning</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,560.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5199	1.3.1.6.10.7	Output Dispersion System	LLNL		0	6 wks	\$0.00	\$16,000.00	\$13,320.00	\$29,320.00	\$16,077.60	\$11,349.40	\$56,747.00
5200	1.3.1.6.10.7	Fiber Bragg Grating Dispersive Module	LLNL	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$567.00	\$891.75	\$4,458.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5201	1.3.1.6.10.7	Optical Circulator	LLNL	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$567.00	\$891.75	\$4,458.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5202	1.3.1.6.10.7	Single mode fiber at 775 nm	LLNL	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$1,134.00	\$1,783.50	\$8,917.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5203	1.3.1.6.10.7	fast 2x2 switch	LLNL	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$756.00	\$1,189.00	\$5,945.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5204	1.3.1.6.10.7	Assembly	LLNL	ED&I	2	1 wk	\$0.00	\$0.00	\$2,160.00	\$2,160.00	\$2,116.80	\$1,069.20	\$5,346.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5205	1.3.1.6.10.7	Assembly Labor	LLNL	B&H	2	2 wks	\$0.00	\$0.00	\$4,560.00	\$4,560.00	\$4,468.80	\$2,257.20	\$11,286.00
		<i>LLNL Mech. Fab: Plating & Cleaning</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,560.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5206	1.3.1.6.10.7	Test	LLNL	ED&I	2	2 wks	\$0.00	\$0.00	\$4,320.00	\$4,320.00	\$4,233.60	\$2,138.40	\$10,692.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
5207	1.3.1.6.10.7	Test Labor	LLNL	B&H	2	1 wk	\$0.00	\$0.00	\$2,280.00	\$2,280.00	\$2,234.40	\$1,128.60	\$5,643.00
		<i>LLNL Mech. Fab: Plating & Cleaning</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,280.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5208	1.3.1.6.10.8	Data Recording	LLNL		0	8 wks	\$0.00	\$152,000.00	\$17,520.00	\$169,520.00	\$45,897.60	\$50,287.40	\$265,705.00
5209	1.3.1.6.10.8	Visible Streak Camera	LLNL	M&S	2	0 wks	\$0.00	\$65,000.00	\$0.00	\$65,000.00	\$12,285.00	\$19,321.25	\$96,606.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>65,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$65,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5210	1.3.1.6.10.8	Xray Streak Camera	LLNL	M&S	2	0 wks	\$0.00	\$65,000.00	\$0.00	\$65,000.00	\$12,285.00	\$19,321.25	\$96,606.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>65,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$65,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5211	1.3.1.6.10.8	Data Acquisition Software	LLNL	ED&I	2	6 wks	\$0.00	\$0.00	\$12,960.00	\$12,960.00	\$12,700.80	\$6,415.20	\$32,076.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,960.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5212	1.3.1.6.10.8	Computer	LLNL	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$1,134.00	\$1,783.50	\$8,917.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5213	1.3.1.6.10.8	Monitor	LLNL	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$756.00	\$1,189.00	\$5,945.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5214	1.3.1.6.10.8	Subsystem Integraton	LLNL	B&H	2	2 wks	\$0.00	\$0.00	\$4,560.00	\$4,560.00	\$4,468.80	\$2,257.20	\$11,286.00
		<i>LLNL Mech. Fab: Plating & Cleaning</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,560.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5215	1.3.1.6.10.8	Subsystem Integraton Hardware	LLNL	M&S	0	0 wks	\$0.00	\$12,000.00	\$0.00	\$12,000.00	\$2,268.00	\$0.00	\$14,268.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>12,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5216	1.3.1.6.10.9	Rad Sensor Laser and Assembly	LLNL		0	28 wks	\$0.00	\$39,000.00	\$64,320.00	\$103,320.00	\$70,404.60	\$43,431.15	\$217,155.75
5217	1.3.1.6.10.9	CW laser source procurement	LLNL	M&S	2	0 wks	\$0.00	\$20,000.00	\$0.00	\$20,000.00	\$3,780.00	\$5,945.00	\$29,725.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>20,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$20,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5218	1.3.1.6.10.9	Subsystem Integraton	LLNL	B&H	2	2 wks	\$0.00	\$0.00	\$4,560.00	\$4,560.00	\$4,468.80	\$2,257.20	\$11,286.00
		<i>LLNL Mech. Fab: Plating & Cleaning</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,560.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5219	1.3.1.6.10.9	Subsystem Integraton Hardware	LLNL	M&S	2	0 wks	\$0.00	\$12,000.00	\$0.00	\$12,000.00	\$2,268.00	\$3,567.00	\$17,835.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>12,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5220	1.3.1.6.10.9	Basic functional verification assembly	LLNL	ED&I	2	5 wks	\$0.00	\$0.00	\$12,600.00	\$12,600.00	\$12,348.00	\$6,237.00	\$31,185.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5221	1.3.1.6.10.9	Basic functional verification tests	LLNL	ED&I	2	8 wks	\$0.00	\$0.00	\$17,280.00	\$17,280.00	\$16,934.40	\$8,553.60	\$42,768.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$17,280.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5222	1.3.1.6.10.9	Xray calibration assembly	LLNL	ED&I	2	5 wks	\$0.00	\$0.00	\$12,600.00	\$12,600.00	\$12,348.00	\$6,237.00	\$31,185.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5223	1.3.1.6.10.9	Xray calibration	LLNL	ED&I	2	8 wks	\$0.00	\$0.00	\$17,280.00	\$17,280.00	\$16,934.40	\$8,553.60	\$42,768.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$17,280.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5224	1.3.1.6.10.9	Xray calibration travel	LLNL	M&S	2	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$1,323.00	\$2,080.75	\$10,403.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>7,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5225	1.3.1.6.11	Spectrometer			0	21 wks	\$0.00	\$233,000.00	\$46,120.00	\$279,120.00	\$89,234.60	\$81,349.05	\$449,703.65

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
5226	1.3.1.6.11.1	PDR	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5227	1.3.1.6.11.2	FDR	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5228	1.3.1.6.11.3	Data Acquisition	LLNL		0	1 wk	\$0.00	\$39,000.00	\$2,080.00	\$41,080.00	\$9,409.40	\$12,622.35	\$63,111.75
5229	1.3.1.6.11.3	Computer labor	LLNL	B&H	2	1 wk	\$0.00	\$0.00	\$2,080.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL PCD:Technician</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5230	1.3.1.6.11.3	Computer	LLNL	M&S	2	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$1,890.00	\$2,972.50	\$14,862.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5231	1.3.1.6.11.3	Monitor	LLNL	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$756.00	\$1,189.00	\$5,945.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5232	1.3.1.6.11.3	Stage controller Channel-Card	LLNL	M&S	2	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$1,323.00	\$2,080.75	\$10,403.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>7,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5233	1.3.1.6.11.3	GPis Card	LLNL	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$297.25	\$1,486.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5234	1.3.1.6.11.3	Diagnostic Hardware & Controller	LLNL	M&S	2	0 wks	\$0.00	\$17,000.00	\$0.00	\$17,000.00	\$3,213.00	\$5,053.25	\$25,266.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>17,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$17,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5235	1.3.1.6.11.4	Grating / Crystal	LLNL		0	3 wks	\$0.00	\$68,000.00	\$6,840.00	\$74,840.00	\$19,555.20	\$14,681.30	\$109,076.50
5236	1.3.1.6.11.4	Purchase Crystal	LLNL	M&S	0	0 wks	\$0.00	\$30,000.00	\$0.00	\$30,000.00	\$5,670.00	\$0.00	\$35,670.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>30,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$30,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5237	1.3.1.6.11.4	Crystal mount fab	LLNL	B&H	2	1 wk	\$0.00	\$0.00	\$2,280.00	\$2,280.00	\$2,234.40	\$1,128.60	\$5,643.00
		<i>LLNL Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,280.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5238	1.3.1.6.11.4	Crystal mount purchase	LLNL	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$297.25	\$1,486.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5239	1.3.1.6.11.4	Purchase Grating	LLNL	M&S	2	0 wks	\$0.00	\$30,000.00	\$0.00	\$30,000.00	\$5,670.00	\$8,917.50	\$44,587.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>30,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$30,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5240	1.3.1.6.11.4	Grating Mount Fab	LLNL	B&H	2	1 wk	\$0.00	\$0.00	\$2,280.00	\$2,280.00	\$2,234.40	\$1,128.60	\$5,643.00
		<i>LLNL Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,280.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5241	1.3.1.6.11.4	Grating Mount Purchase	LLNL	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$297.25	\$1,486.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5242	1.3.1.6.11.4	Alignment mirror Purchase	LLNL	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$945.00	\$1,486.25	\$7,431.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5243	1.3.1.6.11.4	Alignment mirror mount fab	LLNL	B&H	2	1 wk	\$0.00	\$0.00	\$2,280.00	\$2,280.00	\$2,234.40	\$1,128.60	\$5,643.00
		<i>LLNL Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,280.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5244	1.3.1.6.11.4	Alignment mirror mount Purchase	LLNL	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$297.25	\$1,486.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5245	1.3.1.6.11.5	Low Energy Linear camera	LLNL		0	8 wks	\$0.00	\$52,000.00	\$17,360.00	\$69,360.00	\$26,840.80	\$24,050.20	\$120,251.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
5246	1.3.1.6.11.5	Purchase Linear Array	LLNL	M&S	2	0 wks	\$0.00	\$20,000.00	\$0.00	\$20,000.00	\$3,780.00	\$5,945.00	\$29,725.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>20,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$20,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5247	1.3.1.6.11.5	Purchase Sensor board	LLNL	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$1,134.00	\$1,783.50	\$8,917.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5248	1.3.1.6.11.5	Purchase Analog board	LLNL	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$1,134.00	\$1,783.50	\$8,917.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5249	1.3.1.6.11.5	Purchase Digital board	LLNL	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$1,134.00	\$1,783.50	\$8,917.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5250	1.3.1.6.11.5	Purchase TE Cooler	LLNL	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$756.00	\$1,189.00	\$5,945.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5251	1.3.1.6.11.5	Purchase Cold Finger	LLNL	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$297.25	\$1,486.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5252	1.3.1.6.11.5	Fabricate Cold Finger	LLNL	B&H	2	1 wk	\$0.00	\$0.00	\$2,280.00	\$2,280.00	\$2,234.40	\$1,128.60	\$5,643.00
		<i>LLNL Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,280.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5253	1.3.1.6.11.5	Purchase Chiller	LLNL	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$945.00	\$1,486.25	\$7,431.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5254	1.3.1.6.11.5	Purchase Housing	LLNL	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$756.00	\$1,189.00	\$5,945.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5255	1.3.1.6.11.5	Fabricate Housing	LLNL	B&H	2	1 wk	\$0.00	\$0.00	\$2,280.00	\$2,280.00	\$2,234.40	\$1,128.60	\$5,643.00
		<i>LLNL Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,280.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5256	1.3.1.6.11.5	Electronic Assembly	LLNL	B&H	2	1 wk	\$0.00	\$0.00	\$2,080.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL PCD:Inst-Cabling-Elec Fab</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5257	1.3.1.6.11.5	Mechanical Assembly	LLNL	B&H	2	1 wk	\$0.00	\$0.00	\$2,080.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5258	1.3.1.6.11.5	Calibration	LLNL	ED&I	2	2 wks	\$0.00	\$0.00	\$4,320.00	\$4,320.00	\$4,233.60	\$2,138.40	\$10,692.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5259	1.3.1.6.11.5	Acceptance Test	LLNL	ED&I	2	2 wks	\$0.00	\$0.00	\$4,320.00	\$4,320.00	\$4,233.60	\$2,138.40	\$10,692.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5260	1.3.1.6.11.6	Rails and Stages	LLNL		0	0 wks	\$0.00	\$25,000.00	\$0.00	\$25,000.00	\$4,725.00	\$7,431.25	\$37,156.25
5261	1.3.1.6.11.6	Rail	LLNL	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$297.25	\$1,486.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5262	1.3.1.6.11.6	Linear Array Stage 3 axis	LLNL	M&S	2	0 wks	\$0.00	\$23,000.00	\$0.00	\$23,000.00	\$4,347.00	\$6,836.75	\$34,183.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>23,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$23,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5263	1.3.1.6.11.6	Cabels	LLNL	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$297.25	\$1,486.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
5264	1.3.1.6.11.7	High Energy Linear camera	LLNL		0	9 wks	\$0.00	\$49,000.00	\$19,840.00	\$68,840.00	\$28,704.20	\$22,563.95	\$120,108.15
5265	1.3.1.6.11.7	Purchase Scintillator Crystal	LLNL	M&S	0	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$378.00	\$0.00	\$2,378.00
		<i>LLNL M&S Total</i>		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
5266	1.3.1.6.11.7	Mount Crystal Scintillator	LLNL	ED&I	0	1 wk	\$0.00	\$0.00	\$2,480.00	\$2,480.00	\$2,430.40	\$0.00	\$4,910.40
		<i>LLNL Electrical Engineer</i>		ED&I	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,480.00	\$0.00	\$0.00	\$0.00
5267	1.3.1.6.11.7	Purchase Linear Array	LLNL	M&S	2	0 wks	\$0.00	\$20,000.00	\$0.00	\$20,000.00	\$3,780.00	\$5,945.00	\$29,725.00
		<i>LLNL M&S Total</i>		M&S	0	20,000	\$0.00	\$0.00	\$0.00	\$20,000.00	\$0.00	\$0.00	\$0.00
5268	1.3.1.6.11.7	Purchase Sensor board	LLNL	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$1,134.00	\$1,783.50	\$8,917.50
		<i>LLNL M&S Total</i>		M&S	0	6,000	\$0.00	\$0.00	\$0.00	\$6,000.00	\$0.00	\$0.00	\$0.00
5269	1.3.1.6.11.7	Purchase Analog board	LLNL	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$1,134.00	\$1,783.50	\$8,917.50
		<i>LLNL M&S Total</i>		M&S	0	6,000	\$0.00	\$0.00	\$0.00	\$6,000.00	\$0.00	\$0.00	\$0.00
5270	1.3.1.6.11.7	Purchase Digital board	LLNL	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$1,134.00	\$1,783.50	\$8,917.50
		<i>LLNL M&S Total</i>		M&S	0	6,000	\$0.00	\$0.00	\$0.00	\$6,000.00	\$0.00	\$0.00	\$0.00
5271	1.3.1.6.11.7	Purchase TE Cooler	LLNL	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$756.00	\$1,189.00	\$5,945.00
		<i>LLNL M&S Total</i>		M&S	0	4,000	\$0.00	\$0.00	\$0.00	\$4,000.00	\$0.00	\$0.00	\$0.00
5272	1.3.1.6.11.7	Purchase Cold Finger	LLNL	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$297.25	\$1,486.25
		<i>LLNL M&S Total</i>		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
5273	1.3.1.6.11.7	Fabricate Cold Finger	LLNL	B&H	2	1 wk	\$0.00	\$0.00	\$2,280.00	\$2,280.00	\$2,234.40	\$1,128.60	\$5,643.00
		<i>LLNL Mech. Fab: Machine Shop</i>		B&H	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,280.00	\$0.00	\$0.00	\$0.00
5274	1.3.1.6.11.7	Purchase Housing	LLNL	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$756.00	\$1,189.00	\$5,945.00
		<i>LLNL M&S Total</i>		M&S	0	4,000	\$0.00	\$0.00	\$0.00	\$4,000.00	\$0.00	\$0.00	\$0.00
5275	1.3.1.6.11.7	Fabricate Housing	LLNL	B&H	2	1 wk	\$0.00	\$0.00	\$2,280.00	\$2,280.00	\$2,234.40	\$1,128.60	\$5,643.00
		<i>LLNL Mech. Fab: Machine Shop</i>		B&H	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,280.00	\$0.00	\$0.00	\$0.00
5276	1.3.1.6.11.7	Electronic Assembly	LLNL	B&H	2	1 wk	\$0.00	\$0.00	\$2,080.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL PCD:Inst-Cabling-Elec Fab</i>		B&H	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,080.00	\$0.00	\$0.00	\$0.00
5277	1.3.1.6.11.7	Mechanical Assembly	LLNL	B&H	2	1 wk	\$0.00	\$0.00	\$2,080.00	\$2,080.00	\$2,038.40	\$1,029.60	\$5,148.00
		<i>LLNL Mech. Fab: Assembly Tech</i>		B&H	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,080.00	\$0.00	\$0.00	\$0.00
5278	1.3.1.6.11.7	Calibration	LLNL	ED&I	2	2 wks	\$0.00	\$0.00	\$4,320.00	\$4,320.00	\$4,233.60	\$2,138.40	\$10,692.00
		<i>LLNL Physicist -Scientist</i>		ED&I	0	2 wks	\$0.00	\$0.00	\$0.00	\$4,320.00	\$0.00	\$0.00	\$0.00
5279	1.3.1.6.11.7	Acceptance Test	LLNL	ED&I	2	2 wks	\$0.00	\$0.00	\$4,320.00	\$4,320.00	\$4,233.60	\$2,138.40	\$10,692.00
		<i>LLNL Physicist -Scientist</i>		ED&I	0	2 wks	\$0.00	\$0.00	\$0.00	\$4,320.00	\$0.00	\$0.00	\$0.00
5280	1.3.1.6.12	Spatial Coherence	LLNL		0	52 wks	\$0.00	\$50,000.00	\$128,040.00	\$178,040.00	\$134,929.20	\$78,242.30	\$391,211.50
5281	1.3.1.6.12.1	PDR	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5282	1.3.1.6.12.2	FDR	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5283	1.3.1.6.12.3	Low Energy Slits	LLNL		0	33 wks	\$0.00	\$35,000.00	\$81,840.00	\$116,840.00	\$86,818.20	\$50,914.55	\$254,572.75

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
5284	1.3.1.6.12.3	Fabrate Masks	LLNL	M&S	2	0 wks	\$0.00	\$12,000.00	\$0.00	\$12,000.00	\$2,268.00	\$3,567.00	\$17,835.00
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>12,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5285	1.3.1.6.12.3	Etch	LLNL	ED&I	2	12 wks	\$0.00	\$0.00	\$29,760.00	\$29,760.00	\$29,164.80	\$14,731.20	\$73,656.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>12 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$29,760.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5286	1.3.1.6.12.3	Dice	LLNL	ED&I	2	12 wks	\$0.00	\$0.00	\$29,760.00	\$29,760.00	\$29,164.80	\$14,731.20	\$73,656.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>12 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$29,760.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5287	1.3.1.6.12.3	Mount	LLNL	ED&I	2	9 wks	\$0.00	\$0.00	\$22,320.00	\$22,320.00	\$21,873.60	\$11,048.40	\$55,242.00
		<i>LLNL Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>9 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$22,320.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5288	1.3.1.6.12.3	Materials	LLNL	M&S	2	0 wks	\$0.00	\$23,000.00	\$0.00	\$23,000.00	\$4,347.00	\$6,836.75	\$34,183.75
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>23,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$23,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5289	1.3.1.6.12.4	High Energy Slit System	LLNL		0	19 wks	\$0.00	\$15,000.00	\$46,200.00	\$61,200.00	\$48,111.00	\$27,327.75	\$136,638.75
5290	1.3.1.6.12.4	Materials	LLNL	M&S	2	0 wks	\$0.00	\$14,000.00	\$0.00	\$14,000.00	\$2,646.00	\$4,161.50	\$20,807.50
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>14,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$14,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5291	1.3.1.6.12.4	Sputter	LLNL	ED&I	2	6 wks	\$0.00	\$0.00	\$15,120.00	\$15,120.00	\$14,817.60	\$7,484.40	\$37,422.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$15,120.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5292	1.3.1.6.12.4	Vaccum Braze	LLNL	ED&I	2	6 wks	\$0.00	\$0.00	\$15,120.00	\$15,120.00	\$14,817.60	\$7,484.40	\$37,422.00
		<i>LLNL Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$15,120.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5293	1.3.1.6.12.4	Slice	LLNL	B&H	2	4 wks	\$0.00	\$0.00	\$9,120.00	\$9,120.00	\$8,937.60	\$4,514.40	\$22,572.00
		<i>LLNL Mech. Fab: Plating & Cleaning</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,120.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5294	1.3.1.6.12.4	Mount	LLNL	B&H	2	3 wks	\$0.00	\$0.00	\$6,840.00	\$6,840.00	\$6,703.20	\$3,385.80	\$16,929.00
		<i>LLNL Mech. Fab: Plating & Cleaning</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,840.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5295	1.3.1.6.12.4	Mount hardware	LLNL	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$189.00	\$297.25	\$1,486.25
		<i>LLNL M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5296	1.3.1.6.13	Spatial Shape and Centroid			0	6 wks	\$0.00	\$0.00	\$12,960.00	\$12,960.00	\$12,700.80	\$6,415.20	\$32,076.00
5297	1.3.1.6.13.1	PDR	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5298	1.3.1.6.13.2	FDR	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5299	1.3.1.6.13.3	Analysis Software	LLNL		0	6 wks	\$0.00	\$0.00	\$12,960.00	\$12,960.00	\$12,700.80	\$6,415.20	\$32,076.00
5300	1.3.1.6.13.3	Spatial Shape extraction	LLNL	ED&I	2	6 wks	\$0.00	\$0.00	\$12,960.00	\$12,960.00	\$12,700.80	\$6,415.20	\$32,076.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,960.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5301	1.3.1.6.14	Divergence	LLNL		0	4 wks	\$0.00	\$0.00	\$8,640.00	\$8,640.00	\$8,467.20	\$4,276.80	\$21,384.00
5302	1.3.1.6.14.1	PDR	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5303	1.3.1.6.14.2	FDR	LLNL		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5304	1.3.1.6.14.3	Analysis Software	LLNL		0	4 wks	\$0.00	\$0.00	\$8,640.00	\$8,640.00	\$8,467.20	\$4,276.80	\$21,384.00
5305	1.3.1.6.14.3	Divergence extraction	LLNL	ED&I	2	4 wks	\$0.00	\$0.00	\$8,640.00	\$8,640.00	\$8,467.20	\$4,276.80	\$21,384.00
		<i>LLNL Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,640.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
5306	1.3.2	X-ray end station systems			0	2,161.35 wks	\$4,075,095.56	\$6,049,801.00	\$1,660,391.76	\$11,785,288.32	\$1,510,085.52	\$4,316,236.95	\$17,611,610.79
5307	1.3.2.1	PED			0	1,609.2 wks	\$4,075,095.56	\$0.00	\$0.00	\$4,075,095.56	\$815,019.11	\$1,657,633.28	\$6,547,747.96
5308	1.3.2.1.1	PPS System			0	1,609.2 wks	\$4,075,095.56	\$0.00	\$0.00	\$4,075,095.56	\$815,019.11	\$1,657,633.28	\$6,547,747.96
5309	1.3.2.1.1.1	Control Racks	SLAC		2	5 wks	\$13,600.00	\$0.00	\$0.00	\$13,600.00	\$2,720.00	\$4,080.00	\$20,400.00
5310	1.3.2.1.1.1	engineering	SLAC	ED&I	2	3 wks	\$9,000.00	\$0.00	\$0.00	\$9,000.00	\$1,800.00	\$2,700.00	\$13,500.00
		<i>S LAC Electrical Engineer</i>		ED&I	0	3 wks	\$0.00	\$0.00	\$0.00	\$9,000.00	\$0.00	\$0.00	\$0.00
5311	1.3.2.1.1.1	design	SLAC	ED&I	2	2 wks	\$4,600.00	\$0.00	\$0.00	\$4,600.00	\$920.00	\$1,380.00	\$6,900.00
		<i>SLAC Mech Drafting/Design</i>		ED&I	0	2 wks	\$0.00	\$0.00	\$0.00	\$4,600.00	\$0.00	\$0.00	\$0.00
5312	1.3.2.1.1.2	HPS Control	SLAC		2	7 wks	\$18,900.00	\$0.00	\$0.00	\$18,900.00	\$3,780.00	\$5,670.00	\$28,350.00
5313	1.3.2.1.1.2	engineering	SLAC	ED&I	2	4 wks	\$12,000.00	\$0.00	\$0.00	\$12,000.00	\$2,400.00	\$3,600.00	\$18,000.00
		<i>S LAC Electrical Engineer</i>		ED&I	0	4 wks	\$0.00	\$0.00	\$0.00	\$12,000.00	\$0.00	\$0.00	\$0.00
5314	1.3.2.1.1.2	design	SLAC	ED&I	2	3 wks	\$6,900.00	\$0.00	\$0.00	\$6,900.00	\$1,380.00	\$2,070.00	\$10,350.00
		<i>SLAC Mech Drafting/Design</i>		ED&I	0	3 wks	\$0.00	\$0.00	\$0.00	\$6,900.00	\$0.00	\$0.00	\$0.00
5315	1.3.2.1.1.3	HPS Fan-in	SLAC		2	3 wks	\$8,300.00	\$0.00	\$0.00	\$8,300.00	\$1,660.00	\$3,486.00	\$13,446.00
5316	1.3.2.1.1.3	engineering	SLAC	ED&I	3	2 wks	\$6,000.00	\$0.00	\$0.00	\$6,000.00	\$1,200.00	\$2,520.00	\$9,720.00
		<i>S LAC Electrical Engineer</i>		ED&I	0	2 wks	\$0.00	\$0.00	\$0.00	\$6,000.00	\$0.00	\$0.00	\$0.00
5317	1.3.2.1.1.3	design	SLAC	ED&I	3	1 wk	\$2,300.00	\$0.00	\$0.00	\$2,300.00	\$460.00	\$966.00	\$3,726.00
		<i>SLAC Mech Drafting/Design</i>		ED&I	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,300.00	\$0.00	\$0.00	\$0.00
5318	1.3.2.1.1.4	PPS Junction Box	SLAC		2	3 wks	\$8,300.00	\$0.00	\$0.00	\$8,300.00	\$1,660.00	\$2,490.00	\$12,450.00
5319	1.3.2.1.1.4	engineering	SLAC	ED&I	2	2 wks	\$6,000.00	\$0.00	\$0.00	\$6,000.00	\$1,200.00	\$1,800.00	\$9,000.00
		<i>S LAC Electrical Engineer</i>		ED&I	0	2 wks	\$0.00	\$0.00	\$0.00	\$6,000.00	\$0.00	\$0.00	\$0.00
5320	1.3.2.1.1.4	design	SLAC	ED&I	2	1 wk	\$2,300.00	\$0.00	\$0.00	\$2,300.00	\$460.00	\$690.00	\$3,450.00
		<i>SLAC Mech Drafting/Design</i>		ED&I	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,300.00	\$0.00	\$0.00	\$0.00
5321	1.3.2.1.1.5	Search Reset System	SLAC		2	4 wks	\$10,600.00	\$0.00	\$0.00	\$10,600.00	\$2,120.00	\$3,180.00	\$15,900.00
5322	1.3.2.1.1.5	engineering	SLAC	ED&I	2	2 wks	\$6,000.00	\$0.00	\$0.00	\$6,000.00	\$1,200.00	\$1,800.00	\$9,000.00
		<i>S LAC Electrical Engineer</i>		ED&I	0	2 wks	\$0.00	\$0.00	\$0.00	\$6,000.00	\$0.00	\$0.00	\$0.00
5323	1.3.2.1.1.5	design	SLAC	ED&I	2	2 wks	\$4,600.00	\$0.00	\$0.00	\$4,600.00	\$920.00	\$1,380.00	\$6,900.00
		<i>SLAC Mech Drafting/Design</i>		ED&I	0	2 wks	\$0.00	\$0.00	\$0.00	\$4,600.00	\$0.00	\$0.00	\$0.00
5324	1.3.2.1.1.6	Burn Thru Monitor	SLAC		2	5 wks	\$13,600.00	\$0.00	\$0.00	\$13,600.00	\$2,720.00	\$4,080.00	\$20,400.00
5325	1.3.2.1.1.6	engineering	SLAC	ED&I	2	3 wks	\$9,000.00	\$0.00	\$0.00	\$9,000.00	\$1,800.00	\$2,700.00	\$13,500.00
		<i>S LAC Electrical Engineer</i>		ED&I	0	3 wks	\$0.00	\$0.00	\$0.00	\$9,000.00	\$0.00	\$0.00	\$0.00
5326	1.3.2.1.1.6	design	SLAC	ED&I	2	2 wks	\$4,600.00	\$0.00	\$0.00	\$4,600.00	\$920.00	\$1,380.00	\$6,900.00
		<i>SLAC Mech Drafting/Design</i>		ED&I	0	2 wks	\$0.00	\$0.00	\$0.00	\$4,600.00	\$0.00	\$0.00	\$0.00
5327	1.3.2.1.1.7	Hutch Summary	SLAC		2	2 wks	\$5,300.00	\$0.00	\$0.00	\$5,300.00	\$1,060.00	\$1,590.00	\$7,950.00
5328	1.3.2.1.1.7	engineering	SLAC	ED&I	2	1 wk	\$3,000.00	\$0.00	\$0.00	\$3,000.00	\$600.00	\$900.00	\$4,500.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>S LAC Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5329	1.3.2.1.1.7	design	SLAC	ED&I	2	1 wk	\$2,300.00	\$0.00	\$0.00	\$2,300.00	\$460.00	\$690.00	\$3,450.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,300.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5330	1.3.2.1.1.8	Pneumatic Controls	SLAC		2	2 wks	\$5,300.00	\$0.00	\$0.00	\$5,300.00	\$1,060.00	\$1,590.00	\$7,950.00
5331	1.3.2.1.1.8	engineering	SLAC	ED&I	2	1 wk	\$3,000.00	\$0.00	\$0.00	\$3,000.00	\$600.00	\$900.00	\$4,500.00
		<i>S LAC Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5332	1.3.2.1.1.8	design	SLAC	ED&I	2	1 wk	\$2,300.00	\$0.00	\$0.00	\$2,300.00	\$460.00	\$690.00	\$3,450.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,300.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5333	1.3.2.1.1.9	MPS System	SLAC		0	8 wks	\$22,600.00	\$0.00	\$0.00	\$22,600.00	\$4,520.00	\$6,780.00	\$33,900.00
5334	1.3.2.1.1.9	Control racks	SLAC		0	8 wks	\$22,600.00	\$0.00	\$0.00	\$22,600.00	\$4,520.00	\$6,780.00	\$33,900.00
5335	1.3.2.1.1.9	engineering	SLAC	ED&I	2	6 wks	\$18,000.00	\$0.00	\$0.00	\$18,000.00	\$3,600.00	\$5,400.00	\$27,000.00
		<i>S LAC Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$18,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5336	1.3.2.1.1.9	design	SLAC	ED&I	2	2 wks	\$4,600.00	\$0.00	\$0.00	\$4,600.00	\$920.00	\$1,380.00	\$6,900.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5337	1.3.2.1.1.10	PLC CONTROLS	SLAC		0	8 wks	\$22,600.00	\$0.00	\$0.00	\$22,600.00	\$4,520.00	\$6,780.00	\$33,900.00
5338	1.3.2.1.1.10	engineering	SLAC	ED&I	2	6 wks	\$18,000.00	\$0.00	\$0.00	\$18,000.00	\$3,600.00	\$5,400.00	\$27,000.00
		<i>S LAC Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$18,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5339	1.3.2.1.1.10	design	SLAC	ED&I	2	2 wks	\$4,600.00	\$0.00	\$0.00	\$4,600.00	\$920.00	\$1,380.00	\$6,900.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5340	1.3.2.1.1.11	VACUUM MONITORING	SLAC		0	7 wks	\$18,900.00	\$0.00	\$0.00	\$18,900.00	\$3,780.00	\$5,670.00	\$28,350.00
5341	1.3.2.1.1.11	engineering	SLAC	ED&I	2	4 wks	\$12,000.00	\$0.00	\$0.00	\$12,000.00	\$2,400.00	\$3,600.00	\$18,000.00
		<i>S LAC Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5342	1.3.2.1.1.11	design	SLAC	ED&I	2	3 wks	\$6,900.00	\$0.00	\$0.00	\$6,900.00	\$1,380.00	\$2,070.00	\$10,350.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,900.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5343	1.3.2.1.1.12	PNEUMATICS	SLAC		0	3 wks	\$8,300.00	\$0.00	\$0.00	\$8,300.00	\$1,660.00	\$2,490.00	\$12,450.00
5344	1.3.2.1.1.12	engineering	SLAC	ED&I	2	2 wks	\$6,000.00	\$0.00	\$0.00	\$6,000.00	\$1,200.00	\$1,800.00	\$9,000.00
		<i>S LAC Electrical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5345	1.3.2.1.1.12	design	SLAC	ED&I	2	1 wk	\$2,300.00	\$0.00	\$0.00	\$2,300.00	\$460.00	\$690.00	\$3,450.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,300.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5346	1.3.2.1.1.13	Experimental chambers			0	40.4 wks	\$135,640.00	\$0.00	\$0.00	\$135,640.00	\$27,128.00	\$56,996.40	\$219,764.40
5347	1.3.2.1.1.13	Chamber: A3	SLAC		3	20.2 wks	\$67,820.00	\$0.00	\$0.00	\$67,820.00	\$13,564.00	\$28,567.20	\$109,951.20
5348	1.3.2.1.1.13	specification	SLAC	ED&I	3	4 wks	\$13,600.00	\$0.00	\$0.00	\$13,600.00	\$2,720.00	\$5,712.00	\$22,032.00
		<i>SLAC Physicist - Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5349	1.3.2.1.1.13	design	SLAC	ED&I	3	16 wks	\$53,760.00	\$0.00	\$0.00	\$53,760.00	\$10,752.00	\$22,579.20	\$87,091.20
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>16 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$53,760.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
5350	1.3.2.1.1.13	design	SLAC	ED&I	4	0.2 wks	\$460.00	\$0.00	\$0.00	\$460.00	\$92.00	\$276.00	\$828.00
		SLAC Mech Drafting/Design		ED&I	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$460.00	\$0.00	\$0.00	\$0.00
5351	1.3.2.1.1.13	Chamber: B5	SLAC		3	20.2 wks	\$67,820.00	\$0.00	\$0.00	\$67,820.00	\$13,564.00	\$28,429.20	\$109,813.20
5352	1.3.2.1.1.13	specification	SLAC	ED&I	3	4 wks	\$13,600.00	\$0.00	\$0.00	\$13,600.00	\$2,720.00	\$5,712.00	\$22,032.00
		SLAC Physicist -Scientist		ED&I	0	4 wks	\$0.00	\$0.00	\$0.00	\$13,600.00	\$0.00	\$0.00	\$0.00
5353	1.3.2.1.1.13	design	SLAC	ED&I	3	16 wks	\$53,760.00	\$0.00	\$0.00	\$53,760.00	\$10,752.00	\$22,579.20	\$87,091.20
		SLAC Mechanical Engineer		ED&I	0	16 wks	\$0.00	\$0.00	\$0.00	\$53,760.00	\$0.00	\$0.00	\$0.00
5354	1.3.2.1.1.13	design	SLAC	ED&I	2	0.2 wks	\$460.00	\$0.00	\$0.00	\$460.00	\$92.00	\$138.00	\$690.00
		SLAC Mech Drafting/Design		ED&I	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$460.00	\$0.00	\$0.00	\$0.00
5355	1.3.2.1.1.14	Movable Mask Absorber			0	57 wks	\$148,420.80	\$0.00	\$0.00	\$148,420.80	\$29,684.16	\$50,229.70	\$228,334.66
5356	1.3.2.1.1.14	first item	SLAC	ED&I	3	1 wk	\$3,360.00	\$0.00	\$0.00	\$3,360.00	\$672.00	\$1,411.20	\$5,443.20
	1.3.2.1.1.14	SLAC AD: Mech/Vacuum Engineer		ED&I	0	1 wk	\$0.00	\$0.00	\$0.00	\$3,360.00	\$0.00	\$0.00	\$0.00
5357	1.3.2.1.1.14	Engineering	SLAC	ED&I	2	6 wks	\$20,160.00	\$0.00	\$0.00	\$20,160.00	\$4,032.00	\$6,048.00	\$30,240.00
	1.3.2.1.1.14	SLAC Mechanical Engineer		ED&I	0	6 wks	\$0.00	\$0.00	\$0.00	\$20,160.00	\$0.00	\$0.00	\$0.00
5358	1.3.2.1.1.14	Design	SLAC	ED&I	3	10 wks	\$23,000.00	\$0.00	\$0.00	\$23,000.00	\$4,600.00	\$9,660.00	\$37,260.00
	1.3.2.1.1.14	SLAC Mech Drafting/Design		ED&I	0	10 wks	\$0.00	\$0.00	\$0.00	\$23,000.00	\$0.00	\$0.00	\$0.00
5359	1.3.2.1.1.14	Beryllium/Cu Fabrication	SLAC	B&H	1	3 wks	\$9,600.00	\$0.00	\$0.00	\$9,600.00	\$1,920.00	\$1,728.00	\$13,248.00
	1.3.2.1.1.14	SLAC Mech. Fab: Machine Shop		B&H	0	3 wks	\$0.00	\$0.00	\$0.00	\$9,600.00	\$0.00	\$0.00	\$0.00
5360	1.3.2.1.1.14	Bellows Spool Assy.	SLAC	B&H	3	1 wk	\$1,998.80	\$0.00	\$0.00	\$1,998.80	\$399.76	\$839.50	\$3,238.06
	1.3.2.1.1.14	SLAC Mech. Fab: Assembly Tech		B&H	0	1 wk	\$0.00	\$0.00	\$0.00	\$1,998.80	\$0.00	\$0.00	\$0.00
5361	1.3.2.1.1.14	Actuator assy	SLAC	B&H	3	1 wk	\$1,998.80	\$0.00	\$0.00	\$1,998.80	\$399.76	\$839.50	\$3,238.06
	1.3.2.1.1.14	SLAC Mech. Fab: Assembly Tech		B&H	0	1 wk	\$0.00	\$0.00	\$0.00	\$1,998.80	\$0.00	\$0.00	\$0.00
5362	1.3.2.1.1.14	Plate/clean	SLAC	B&H	2	6 wks	\$30,000.00	\$0.00	\$0.00	\$30,000.00	\$6,000.00	\$9,000.00	\$45,000.00
	1.3.2.1.1.14	SLAC Mech. Fab: Plating & Cleaning		B&H	0	6 wks	\$0.00	\$0.00	\$0.00	\$30,000.00	\$0.00	\$0.00	\$0.00
5363	1.3.2.1.1.14	Braze/weld	SLAC	B&H	3	6 wks	\$11,992.80	\$0.00	\$0.00	\$11,992.80	\$2,398.56	\$5,036.98	\$19,428.34
	1.3.2.1.1.14	SLAC Mech. Fab: Assembly Tech		B&H	0	6 wks	\$0.00	\$0.00	\$0.00	\$11,992.80	\$0.00	\$0.00	\$0.00
5364	1.3.2.1.1.14	Vacuum assembly	SLAC	B&H	1	7 wks	\$13,991.60	\$0.00	\$0.00	\$13,991.60	\$2,798.32	\$2,518.49	\$19,308.41
	1.3.2.1.1.14	SLAC Mech. Fab: Assembly Tech		B&H	0	7 wks	\$0.00	\$0.00	\$0.00	\$13,991.60	\$0.00	\$0.00	\$0.00
5365	1.3.2.1.1.14	Inspection	SLAC	B&H	1	1 wk	\$1,774.40	\$0.00	\$0.00	\$1,774.40	\$354.88	\$319.39	\$2,448.67
	1.3.2.1.1.14	SLAC Klystron: Technician		B&H	0	1 wk	\$0.00	\$0.00	\$0.00	\$1,774.40	\$0.00	\$0.00	\$0.00
5366	1.3.2.1.1.14	Alignment	SLAC	B&H	3	2 wks	\$4,560.00	\$0.00	\$0.00	\$4,560.00	\$912.00	\$1,915.20	\$7,387.20
	1.3.2.1.1.14	SLAC Metrology:Eng. & Surveyors		B&H	0	2 wks	\$0.00	\$0.00	\$0.00	\$4,560.00	\$0.00	\$0.00	\$0.00
5367	1.3.2.1.1.14	Installation	SLAC	B&H	3	13 wks	\$25,984.40	\$0.00	\$0.00	\$25,984.40	\$5,196.88	\$10,913.45	\$42,094.73
		SLAC Mech. Fab: Assembly Tech		B&H	0	13 wks	\$0.00	\$0.00	\$0.00	\$25,984.40	\$0.00	\$0.00	\$0.00
5368	1.3.2.1.1.15	PPS Shutter Stoppers	SLAC		0	80.5 wks	\$211,603.20	\$0.00	\$0.00	\$211,603.20	\$42,320.64	\$69,649.82	\$323,573.66

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
5369	1.3.2.1.1.15	first item	SLAC	ED&I	3	1 wk	\$3,360.00	\$0.00	\$0.00	\$3,360.00	\$672.00	\$1,411.20	\$5,443.20
		SLAC AD: Mech/Vacuum Engineer		ED&I	0	1 wk	\$0.00	\$0.00	\$0.00	\$3,360.00	\$0.00	\$0.00	\$0.00
5370	1.3.2.1.1.15	Engineering	SLAC	ED&I	2	6 wks	\$20,160.00	\$0.00	\$0.00	\$20,160.00	\$4,032.00	\$6,048.00	\$30,240.00
		SLAC Mechanical Engineer		ED&I	0	6 wks	\$0.00	\$0.00	\$0.00	\$20,160.00	\$0.00	\$0.00	\$0.00
5371	1.3.2.1.1.15	Design	SLAC	ED&I	3	12 wks	\$27,600.00	\$0.00	\$0.00	\$27,600.00	\$5,520.00	\$11,592.00	\$44,712.00
		SLAC Mech Drafting/Design		ED&I	0	12 wks	\$0.00	\$0.00	\$0.00	\$27,600.00	\$0.00	\$0.00	\$0.00
5372	1.3.2.1.1.15	Brick Bucket Stem Assy	SLAC	B&H	3	1.5 wks	\$2,998.20	\$0.00	\$0.00	\$2,998.20	\$599.64	\$1,259.24	\$4,857.08
		SLAC Mech. Fab: Assembly Tech		B&H	0	1.5 wks	\$0.00	\$0.00	\$0.00	\$2,998.20	\$0.00	\$0.00	\$0.00
5373	1.3.2.1.1.15	Plate/clean	SLAC	B&H	2	13 wks	\$65,000.00	\$0.00	\$0.00	\$65,000.00	\$13,000.00	\$19,500.00	\$97,500.00
		SLAC Mech. Fab: Plating & Cleaning		B&H	0	13 wks	\$0.00	\$0.00	\$0.00	\$65,000.00	\$0.00	\$0.00	\$0.00
5374	1.3.2.1.1.15	Braze/weld	SLAC	B&H	3	13 wks	\$25,984.40	\$0.00	\$0.00	\$25,984.40	\$5,196.88	\$10,913.45	\$42,094.73
		SLAC Mech. Fab: Assembly Tech		B&H	0	13 wks	\$0.00	\$0.00	\$0.00	\$25,984.40	\$0.00	\$0.00	\$0.00
5375	1.3.2.1.1.15	Support Fab & Machining	SLAC	B&H	3	13 wks	\$25,984.40	\$0.00	\$0.00	\$25,984.40	\$5,196.88	\$10,913.45	\$42,094.73
		SLAC Mech. Fab: Assembly Tech		B&H	0	13 wks	\$0.00	\$0.00	\$0.00	\$25,984.40	\$0.00	\$0.00	\$0.00
5376	1.3.2.1.1.15	Air Actuator assy	SLAC	B&H	3	1.5 wks	\$2,998.20	\$0.00	\$0.00	\$2,998.20	\$599.64	\$1,259.24	\$4,857.08
		SLAC Mech. Fab: Assembly Tech		B&H	0	1.5 wks	\$0.00	\$0.00	\$0.00	\$2,998.20	\$0.00	\$0.00	\$0.00
5377	1.3.2.1.1.15	Vacuum assembly	SLAC	B&H	1	13 wks	\$25,984.40	\$0.00	\$0.00	\$25,984.40	\$5,196.88	\$4,677.19	\$35,858.47
		SLAC Mech. Fab: Assembly Tech		B&H	0	13 wks	\$0.00	\$0.00	\$0.00	\$25,984.40	\$0.00	\$0.00	\$0.00
5378	1.3.2.1.1.15	Inspection	SLAC	B&H	1	6.5 wks	\$11,533.60	\$0.00	\$0.00	\$11,533.60	\$2,306.72	\$2,076.05	\$15,916.37
		SLAC Klystron: Technician		B&H	0	6.5 wks	\$0.00	\$0.00	\$0.00	\$11,533.60	\$0.00	\$0.00	\$0.00
5379	1.3.2.1.1.16	PPS Final Beam Stop	SLAC		0	2.3 wks	\$5,934.76	\$0.00	\$0.00	\$5,934.76	\$1,186.95	\$2,352.71	\$9,474.42
5380	1.3.2.1.1.16	first item	SLAC	ED&I	3	0.4 wks	\$1,344.00	\$0.00	\$0.00	\$1,344.00	\$268.80	\$564.48	\$2,177.28
		SLAC AD: Mech/Vacuum Engineer		ED&I	0	0.4 wks	\$0.00	\$0.00	\$0.00	\$1,344.00	\$0.00	\$0.00	\$0.00
5381	1.3.2.1.1.16	Engineering	SLAC	B&H	2	0.2 wks	\$456.00	\$0.00	\$0.00	\$456.00	\$91.20	\$136.80	\$684.00
		SLAC Metrology:Eng. & Surveyors		B&H	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$456.00	\$0.00	\$0.00	\$0.00
5382	1.3.2.1.1.16	Design	SLAC	ED&I	3	1 wk	\$2,300.00	\$0.00	\$0.00	\$2,300.00	\$460.00	\$966.00	\$3,726.00
		SLAC Mech Drafting/Design		ED&I	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,300.00	\$0.00	\$0.00	\$0.00
5383	1.3.2.1.1.16	Cooled Cu Plug	SLAC	B&H	3	0.4 wks	\$1,280.00	\$0.00	\$0.00	\$1,280.00	\$256.00	\$537.60	\$2,073.60
		SLAC Mech. Fab: Machine Shop		B&H	0	0.4 wks	\$0.00	\$0.00	\$0.00	\$1,280.00	\$0.00	\$0.00	\$0.00
5384	1.3.2.1.1.16	Inspection	SLAC	B&H	1	0.2 wks	\$354.88	\$0.00	\$0.00	\$354.88	\$70.98	\$63.88	\$489.73
		SLAC Klystron: Technician		B&H	0	0.2 wks	\$0.00	\$0.00	\$0.00	\$354.88	\$0.00	\$0.00	\$0.00
5385	1.3.2.1.1.16	Installation	SLAC	B&H	3	0.1 wks	\$199.88	\$0.00	\$0.00	\$199.88	\$39.98	\$83.95	\$323.81
		SLAC Mech. Fab: Assembly Tech		B&H	0	0.1 wks	\$0.00	\$0.00	\$0.00	\$199.88	\$0.00	\$0.00	\$0.00
5386	1.3.2.1.1.17	Spectrometers	SLAC		0	18 wks	\$47,920.00	\$0.00	\$0.00	\$47,920.00	\$9,584.00	\$20,126.40	\$77,630.40
5387	1.3.2.1.1.17	Specification	SLAC	ED&I	3	4 wks	\$13,600.00	\$0.00	\$0.00	\$13,600.00	\$2,720.00	\$5,712.00	\$22,032.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC Physicist -Scientist</i>		<i>ED&I</i>	0	4 wks	\$0.00	\$0.00	\$0.00	\$13,600.00	\$0.00	\$0.00	\$0.00
5388	1.3.2.1.1.17	Design	SLAC	ED&I	3	2 wks	\$6,720.00	\$0.00	\$0.00	\$6,720.00	\$1,344.00	\$2,822.40	\$10,886.40
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	0	2 wks	\$0.00	\$0.00	\$0.00	\$6,720.00	\$0.00	\$0.00	\$0.00
5389	1.3.2.1.1.17	Design	SLAC	ED&I	3	12 wks	\$27,600.00	\$0.00	\$0.00	\$27,600.00	\$5,520.00	\$11,592.00	\$44,712.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	0	12 wks	\$0.00	\$0.00	\$0.00	\$27,600.00	\$0.00	\$0.00	\$0.00
5390	1.3.2.1.1.18	Chamber support tables			0	14 wks	\$38,720.00	\$0.00	\$0.00	\$38,720.00	\$7,744.00	\$16,262.40	\$62,726.40
5391	1.3.2.1.1.18	Specification	SLAC	ED&I	3	4 wks	\$13,600.00	\$0.00	\$0.00	\$13,600.00	\$2,720.00	\$5,712.00	\$22,032.00
		<i>SLAC Physicist -Scientist</i>		<i>ED&I</i>	0	4 wks	\$0.00	\$0.00	\$0.00	\$13,600.00	\$0.00	\$0.00	\$0.00
5392	1.3.2.1.1.18	Design	SLAC	ED&I	3	2 wks	\$6,720.00	\$0.00	\$0.00	\$6,720.00	\$1,344.00	\$2,822.40	\$10,886.40
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	0	2 wks	\$0.00	\$0.00	\$0.00	\$6,720.00	\$0.00	\$0.00	\$0.00
5393	1.3.2.1.1.18	Design	SLAC	ED&I	3	8 wks	\$18,400.00	\$0.00	\$0.00	\$18,400.00	\$3,680.00	\$7,728.00	\$29,808.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	0	8 wks	\$0.00	\$0.00	\$0.00	\$18,400.00	\$0.00	\$0.00	\$0.00
5394	1.3.2.1.1.19	Vacuum Components			0	12 wks	\$33,960.00	\$0.00	\$0.00	\$33,960.00	\$6,792.00	\$14,263.20	\$55,015.20
5395	1.3.2.1.1.19	Valves			0	6 wks	\$18,040.00	\$0.00	\$0.00	\$18,040.00	\$3,608.00	\$7,576.80	\$29,224.80
5396	1.3.2.1.1.19	Specification	SLAC	ED&I	3	4 wks	\$13,440.00	\$0.00	\$0.00	\$13,440.00	\$2,688.00	\$5,644.80	\$21,772.80
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	0	4 wks	\$0.00	\$0.00	\$0.00	\$13,440.00	\$0.00	\$0.00	\$0.00
5397	1.3.2.1.1.19	Specification	SLAC	ED&I	3	2 wks	\$4,600.00	\$0.00	\$0.00	\$4,600.00	\$920.00	\$1,932.00	\$7,452.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	0	2 wks	\$0.00	\$0.00	\$0.00	\$4,600.00	\$0.00	\$0.00	\$0.00
5398	1.3.2.1.1.19	Hardware			3	1.5 wks	\$3,980.00	\$0.00	\$0.00	\$3,980.00	\$796.00	\$1,671.60	\$6,447.60
5399	1.3.2.1.1.19	Specification	SLAC	ED&I	3	0.5 wks	\$1,680.00	\$0.00	\$0.00	\$1,680.00	\$336.00	\$705.60	\$2,721.60
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	0	0.5 wks	\$0.00	\$0.00	\$0.00	\$1,680.00	\$0.00	\$0.00	\$0.00
5400	1.3.2.1.1.19	Specification	SLAC	ED&I	3	1 wk	\$2,300.00	\$0.00	\$0.00	\$2,300.00	\$460.00	\$966.00	\$3,726.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,300.00	\$0.00	\$0.00	\$0.00
5401	1.3.2.1.1.19	Ion Pump System			3	1.5 wks	\$3,980.00	\$0.00	\$0.00	\$3,980.00	\$796.00	\$1,671.60	\$6,447.60
5402	1.3.2.1.1.19	Specification	SLAC	ED&I	3	0.5 wks	\$1,680.00	\$0.00	\$0.00	\$1,680.00	\$336.00	\$705.60	\$2,721.60
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	0	0.5 wks	\$0.00	\$0.00	\$0.00	\$1,680.00	\$0.00	\$0.00	\$0.00
5403	1.3.2.1.1.19	Specification	SLAC	ED&I	3	1 wk	\$2,300.00	\$0.00	\$0.00	\$2,300.00	\$460.00	\$966.00	\$3,726.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,300.00	\$0.00	\$0.00	\$0.00
5404	1.3.2.1.1.19	Turbo Pump System			3	1.5 wks	\$3,980.00	\$0.00	\$0.00	\$3,980.00	\$796.00	\$1,671.60	\$6,447.60
5405	1.3.2.1.1.19	Specification	SLAC	ED&I	3	0.5 wks	\$1,680.00	\$0.00	\$0.00	\$1,680.00	\$336.00	\$705.60	\$2,721.60
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	0	0.5 wks	\$0.00	\$0.00	\$0.00	\$1,680.00	\$0.00	\$0.00	\$0.00
5406	1.3.2.1.1.19	Specification	SLAC	ED&I	3	1 wk	\$2,300.00	\$0.00	\$0.00	\$2,300.00	\$460.00	\$966.00	\$3,726.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,300.00	\$0.00	\$0.00	\$0.00
5407	1.3.2.1.1.19	Guage System			3	1.5 wks	\$3,980.00	\$0.00	\$0.00	\$3,980.00	\$796.00	\$1,671.60	\$6,447.60
5408	1.3.2.1.1.19	Specification	SLAC	ED&I	3	0.5 wks	\$1,680.00	\$0.00	\$0.00	\$1,680.00	\$336.00	\$705.60	\$2,721.60

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC AD: Mech/Vacuum Engineer</i>		<i>ED&I</i>	0	0.5 wks	\$0.00	\$0.00	\$0.00	\$1,680.00	\$0.00	\$0.00	\$0.00
5409	1.3.2.1.1.19	Specification	SLAC	ED&I	3	1 wk	\$2,300.00	\$0.00	\$0.00	\$2,300.00	\$460.00	\$966.00	\$3,726.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,300.00	\$0.00	\$0.00	\$0.00
5410	1.3.2.1.1.20	Experimental chamber			0	48 wks	\$127,680.00	\$0.00	\$0.00	\$127,680.00	\$25,536.00	\$53,625.60	\$206,841.60
5411	1.3.2.1.1.20	Chamber: A2			0	24 wks	\$63,840.00	\$0.00	\$0.00	\$63,840.00	\$12,768.00	\$26,812.80	\$103,420.80
5412	1.3.2.1.1.20	Specification	SLAC	ED&I	3	4 wks	\$13,600.00	\$0.00	\$0.00	\$13,600.00	\$2,720.00	\$5,712.00	\$22,032.00
		<i>SLAC Physicist -Scientist</i>		<i>ED&I</i>	0	4 wks	\$0.00	\$0.00	\$0.00	\$13,600.00	\$0.00	\$0.00	\$0.00
5413	1.3.2.1.1.20	Design	SLAC	ED&I	3	4 wks	\$13,440.00	\$0.00	\$0.00	\$13,440.00	\$2,688.00	\$5,644.80	\$21,772.80
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	0	4 wks	\$0.00	\$0.00	\$0.00	\$13,440.00	\$0.00	\$0.00	\$0.00
5414	1.3.2.1.1.20	Design	SLAC	ED&I	3	16 wks	\$36,800.00	\$0.00	\$0.00	\$36,800.00	\$7,360.00	\$15,456.00	\$59,616.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	0	16 wks	\$0.00	\$0.00	\$0.00	\$36,800.00	\$0.00	\$0.00	\$0.00
5415	1.3.2.1.1.20	Chamber: B4			0	24 wks	\$63,840.00	\$0.00	\$0.00	\$63,840.00	\$12,768.00	\$26,812.80	\$103,420.80
5416	1.3.2.1.1.20	Specification	SLAC	ED&I	3	4 wks	\$13,600.00	\$0.00	\$0.00	\$13,600.00	\$2,720.00	\$5,712.00	\$22,032.00
		<i>SLAC Physicist -Scientist</i>		<i>ED&I</i>	0	4 wks	\$0.00	\$0.00	\$0.00	\$13,600.00	\$0.00	\$0.00	\$0.00
5417	1.3.2.1.1.20	Design	SLAC	ED&I	3	4 wks	\$13,440.00	\$0.00	\$0.00	\$13,440.00	\$2,688.00	\$5,644.80	\$21,772.80
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	0	4 wks	\$0.00	\$0.00	\$0.00	\$13,440.00	\$0.00	\$0.00	\$0.00
5418	1.3.2.1.1.20	Design	SLAC	ED&I	3	16 wks	\$36,800.00	\$0.00	\$0.00	\$36,800.00	\$7,360.00	\$15,456.00	\$59,616.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	0	16 wks	\$0.00	\$0.00	\$0.00	\$36,800.00	\$0.00	\$0.00	\$0.00
5419	1.3.2.1.1.21	Controls			0	599 wks	\$1,610,436.80	\$0.00	\$0.00	\$1,610,436.80	\$322,087.36	\$676,383.46	\$2,608,907.62
5420	1.3.2.1.1.21	Network			0	338 wks	\$747,884.80	\$0.00	\$0.00	\$747,884.80	\$149,576.96	\$314,111.62	\$1,211,573.38
5421	1.3.2.1.1.21	Engineering	SLAC	ED&I	3	130 wks	\$383,136.00	\$0.00	\$0.00	\$383,136.00	\$76,627.20	\$160,917.12	\$620,680.32
		<i>SLAC Controls: Engineer</i>		<i>ED&I</i>	0	130 wks	\$0.00	\$0.00	\$0.00	\$383,136.00	\$0.00	\$0.00	\$0.00
5422	1.3.2.1.1.21	Technical support	SLAC	B&H	3	208 wks	\$364,748.80	\$0.00	\$0.00	\$364,748.80	\$72,949.76	\$153,194.50	\$590,893.06
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	0	208 wks	\$0.00	\$0.00	\$0.00	\$364,748.80	\$0.00	\$0.00	\$0.00
5423	1.3.2.1.1.21	Reserved			0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5424	1.3.2.1.1.21	PC Administrator	SLAC	ED&I	3	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC Controls: Engineer</i>		<i>ED&I</i>	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5425	1.3.2.1.1.21	Technical support	SLAC	B&H	3	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5426	1.3.2.1.1.21	Beamline controls			0	261 wks	\$862,552.00	\$0.00	\$0.00	\$862,552.00	\$172,510.40	\$362,271.84	\$1,397,334.24
5427	1.3.2.1.1.21	Scientific Integration	SLAC	ED&I	3	34 wks	\$163,200.00	\$0.00	\$0.00	\$163,200.00	\$32,640.00	\$68,544.00	\$264,384.00
		<i>SLAC Project Management</i>		<i>ED&I</i>	0	34 wks	\$0.00	\$0.00	\$0.00	\$163,200.00	\$0.00	\$0.00	\$0.00
5428	1.3.2.1.1.21	Scientific support	SLAC	ED&I	3	67 wks	\$227,800.00	\$0.00	\$0.00	\$227,800.00	\$45,560.00	\$95,676.00	\$369,036.00
		<i>SLAC Physicist -Scientist</i>		<i>ED&I</i>	0	67 wks	\$0.00	\$0.00	\$0.00	\$227,800.00	\$0.00	\$0.00	\$0.00
5429	1.3.2.1.1.21	Software Development	SLAC	ED&I	3	160 wks	\$471,552.00	\$0.00	\$0.00	\$471,552.00	\$94,310.40	\$198,051.84	\$763,914.24

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC Controls: Engineer</i>		<i>ED&I</i>	0	160 wks	\$0.00	\$0.00	\$0.00	\$471,552.00	\$0.00	\$0.00	\$0.00
5430	1.3.2.1.1.22	Detectors			0	681 wks	\$1,558,480.00	\$0.00	\$0.00	\$1,558,480.00	\$311,696.00	\$649,857.60	\$2,520,033.60
5431	1.3.2.1.1.22	Beam Imaging	SLAC		0	16 wks	\$43,320.00	\$0.00	\$0.00	\$43,320.00	\$8,664.00	\$16,562.40	\$68,546.40
5432	1.3.2.1.1.22	Scientist	SLAC	ED&I	2	4 wks	\$13,600.00	\$0.00	\$0.00	\$13,600.00	\$2,720.00	\$4,080.00	\$20,400.00
		<i>SLAC Physicist -Scientist</i>		<i>ED&I</i>	0	4 wks	\$0.00	\$0.00	\$0.00	\$13,600.00	\$0.00	\$0.00	\$0.00
5433	1.3.2.1.1.22	Engineering	SLAC	ED&I	3	2 wks	\$6,720.00	\$0.00	\$0.00	\$6,720.00	\$1,344.00	\$2,822.40	\$10,886.40
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	0	2 wks	\$0.00	\$0.00	\$0.00	\$6,720.00	\$0.00	\$0.00	\$0.00
5434	1.3.2.1.1.22	Design	SLAC	ED&I	3	10 wks	\$23,000.00	\$0.00	\$0.00	\$23,000.00	\$4,600.00	\$9,660.00	\$37,260.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	0	10 wks	\$0.00	\$0.00	\$0.00	\$23,000.00	\$0.00	\$0.00	\$0.00
5435	1.3.2.1.1.22	Intensity	SLAC		0	8 wks	\$25,600.00	\$0.00	\$0.00	\$25,600.00	\$5,120.00	\$7,680.00	\$38,400.00
5436	1.3.2.1.1.22	Scientist	SLAC	ED&I	2	4 wks	\$13,600.00	\$0.00	\$0.00	\$13,600.00	\$2,720.00	\$4,080.00	\$20,400.00
		<i>SLAC Physicist -Scientist</i>		<i>ED&I</i>	0	4 wks	\$0.00	\$0.00	\$0.00	\$13,600.00	\$0.00	\$0.00	\$0.00
5437	1.3.2.1.1.22	Engineering	SLAC	ED&I	2	4 wks	\$12,000.00	\$0.00	\$0.00	\$12,000.00	\$2,400.00	\$3,600.00	\$18,000.00
		<i>S LAC Electrical Engineer</i>		<i>ED&I</i>	0	4 wks	\$0.00	\$0.00	\$0.00	\$12,000.00	\$0.00	\$0.00	\$0.00
5438	1.3.2.1.1.22	Streak Camera	SLAC		0	33 wks	\$100,120.00	\$0.00	\$0.00	\$100,120.00	\$20,024.00	\$42,050.40	\$162,194.40
5439	1.3.2.1.1.22	Scientist	SLAC	ED&I	3	16 wks	\$54,400.00	\$0.00	\$0.00	\$54,400.00	\$10,880.00	\$22,848.00	\$88,128.00
		<i>SLAC Physicist -Scientist</i>		<i>ED&I</i>	0	16 wks	\$0.00	\$0.00	\$0.00	\$54,400.00	\$0.00	\$0.00	\$0.00
5440	1.3.2.1.1.22	Engineering	SLAC	ED&I	3	2 wks	\$6,720.00	\$0.00	\$0.00	\$6,720.00	\$1,344.00	\$2,822.40	\$10,886.40
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	0	2 wks	\$0.00	\$0.00	\$0.00	\$6,720.00	\$0.00	\$0.00	\$0.00
5441	1.3.2.1.1.22	Design	SLAC	ED&I	3	10 wks	\$23,000.00	\$0.00	\$0.00	\$23,000.00	\$4,600.00	\$9,660.00	\$37,260.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	0	10 wks	\$0.00	\$0.00	\$0.00	\$23,000.00	\$0.00	\$0.00	\$0.00
5442	1.3.2.1.1.22	Machine shop	SLAC	B&H	3	5 wks	\$16,000.00	\$0.00	\$0.00	\$16,000.00	\$3,200.00	\$6,720.00	\$25,920.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	0	5 wks	\$0.00	\$0.00	\$0.00	\$16,000.00	\$0.00	\$0.00	\$0.00
5443	1.3.2.1.1.22	2-D X-Ray Detector	SLAC		0	624 wks	\$1,389,440.00	\$0.00	\$0.00	\$1,389,440.00	\$277,888.00	\$583,564.80	\$2,250,892.80
5444	1.3.2.1.1.22	Scientist	SLAC	ED&I	3	208 wks	\$707,200.00	\$0.00	\$0.00	\$707,200.00	\$141,440.00	\$297,024.00	\$1,145,664.00
		<i>SLAC Physicist -Scientist</i>		<i>ED&I</i>	0	208 wks	\$0.00	\$0.00	\$0.00	\$707,200.00	\$0.00	\$0.00	\$0.00
5445	1.3.2.1.1.22	Postdocs	SLAC	ED&I	3	416 wks	\$682,240.00	\$0.00	\$0.00	\$682,240.00	\$136,448.00	\$286,540.80	\$1,105,228.80
		<i>SLAC Physicist - Post Doc</i>		<i>ED&I</i>	0	416 wks	\$0.00	\$0.00	\$0.00	\$682,240.00	\$0.00	\$0.00	\$0.00
5446	1.3.2.2	Mechanical			0	150.4 wks	\$0.00	\$373,400.00	\$451,557.76	\$824,957.76	\$112,715.55	\$264,343.92	\$1,202,017.23
5447	1.3.2.2.1	PPS Mechanical			0	95.4 wks	\$0.00	\$183,400.00	\$209,967.36	\$393,367.36	\$52,997.47	\$115,281.95	\$561,646.78
5448	1.3.2.2.1.1	Movable Mask Absorber			0	21.5 wks	\$0.00	\$48,000.00	\$47,807.60	\$95,807.60	\$12,441.52	\$28,350.33	\$136,599.45
5449	1.3.2.2.1.1	Beryllium	SLAC	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$318.00	\$2,438.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
5450	1.3.2.2.1.1	Beryllium/Cu Fabrication	SLAC	M&S	1	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$480.00	\$1,272.00	\$9,752.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	0	8,000	\$0.00	\$0.00	\$0.00	\$8,000.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
5451	1.3.2.2.1.1	Tank Fab and Machining	SLAC	M&S	1	0 wks	\$0.00	\$33,000.00	\$0.00	\$33,000.00	\$1,980.00	\$5,247.00	\$40,227.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>33,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$33,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5452	1.3.2.2.1.1	Flanges & transitions	SLAC	M&S	3	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$371.00	\$1,431.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5453	1.3.2.2.1.1	Bellows Spool parts	SLAC	M&S	3	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$742.00	\$2,862.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5454	1.3.2.2.1.1	Bellows Spool Assy	SLAC	B&H	3	1.5 wks	\$0.00	\$0.00	\$3,420.00	\$3,420.00	\$684.00	\$1,436.40	\$5,540.40
		<i>SLACL T&M Crafts - Welder</i>		<i>B&H</i>	<i>0</i>	<i>1.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,420.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5455	1.3.2.2.1.1	Actuators parts	SLAC	M&S	3	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$371.00	\$1,431.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5456	1.3.2.2.1.1	Actuator assy	SLAC		0	1.5 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC PCD:Inst-Cabling-Elec Fab</i>			<i>0</i>	<i>1.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5457	1.3.2.2.1.1	Misc Hardware	SLAC	M&S	3	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$371.00	\$1,431.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5458	1.3.2.2.1.1	Plate/clean	SLAC	B&H	3	4.5 wks	\$0.00	\$0.00	\$14,400.00	\$14,400.00	\$2,880.00	\$6,048.00	\$23,328.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>4.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$14,400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5459	1.3.2.2.1.1	Braze/weld	SLAC	B&H	3	5 wks	\$0.00	\$0.00	\$9,994.00	\$9,994.00	\$1,998.80	\$4,197.48	\$16,190.28
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$9,994.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5460	1.3.2.2.1.1	Support Fab & Machining	SLAC	B&H	3	1 wk	\$0.00	\$0.00	\$2,280.00	\$2,280.00	\$456.00	\$957.60	\$3,693.60
		<i>SLACL T&M Crafts - Welder</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,280.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5461	1.3.2.2.1.1	Vacuum assembly	SLAC	B&H	1	1 wk	\$0.00	\$0.00	\$1,753.60	\$1,753.60	\$350.72	\$315.65	\$2,419.97
		<i>SLAC PCD:Technician</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,753.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5462	1.3.2.2.1.1	Alignment	SLAC	B&H	3	6 wks	\$0.00	\$0.00	\$13,680.00	\$13,680.00	\$2,736.00	\$5,745.60	\$22,161.60
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,680.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5463	1.3.2.2.1.1	Installation	SLAC	B&H	3	1 wk	\$0.00	\$0.00	\$2,280.00	\$2,280.00	\$456.00	\$957.60	\$3,693.60
		<i>SLACL T&M Crafts - Welder</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,280.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5464	1.3.2.2.1.2	PPS Shutter Stoppers	SLAC		0	71 wks	\$0.00	\$133,000.00	\$158,076.00	\$291,076.00	\$39,595.20	\$84,952.76	\$415,623.96
5465	1.3.2.2.1.2	Hvy Met 6500cc3 Brick sets	SLAC	M&S	1	0 wks	\$0.00	\$12,000.00	\$0.00	\$12,000.00	\$720.00	\$1,908.00	\$14,628.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>12,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5466	1.3.2.2.1.2	Tank Fab and Machining	SLAC	M&S	1	0 wks	\$0.00	\$106,500.00	\$0.00	\$106,500.00	\$6,390.00	\$16,933.50	\$129,823.50
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>106,500</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$106,500.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5467	1.3.2.2.1.2	Brick Basket Stem Assy	SLAC		3	1 wk	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC PCD:Inst-Cabling-Elec Fab</i>			<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5468	1.3.2.2.1.2	Flanges & transitions	SLAC	M&S	3	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$1,484.00	\$5,724.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
5469	1.3.2.2.1.2	Misc Hardware	SLAC	M&S	3	0 wks	\$0.00	\$5,500.00	\$0.00	\$5,500.00	\$330.00	\$2,040.50	\$7,870.50
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,500</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,500.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5470	1.3.2.2.1.2	Plate/clean	SLAC	B&H	2	12 wks	\$0.00	\$0.00	\$38,400.00	\$38,400.00	\$7,680.00	\$11,520.00	\$57,600.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>12 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$38,400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5471	1.3.2.2.1.2	Braze/weld	SLAC	B&H	3	10 wks	\$0.00	\$0.00	\$19,988.00	\$19,988.00	\$3,997.60	\$8,394.96	\$32,380.56
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>10 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$19,988.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5472	1.3.2.2.1.2	Support Fab & Machining	SLAC	B&H	3	2.5 wks	\$0.00	\$0.00	\$5,700.00	\$5,700.00	\$1,140.00	\$2,394.00	\$9,234.00
		<i>SLACL T&M Crafts - Welder</i>		<i>B&H</i>	<i>0</i>	<i>2.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,700.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5473	1.3.2.2.1.2	Support Fab & Machining	SLAC	M&S	3	0 wks	\$0.00	\$2,500.00	\$0.00	\$2,500.00	\$150.00	\$927.50	\$3,577.50
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,500</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,500.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5474	1.3.2.2.1.2	Air Cylinder parts	SLAC	M&S	3	0 wks	\$0.00	\$2,500.00	\$0.00	\$2,500.00	\$150.00	\$927.50	\$3,577.50
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,500</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,500.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5475	1.3.2.2.1.2	Air Actuator assy	SLAC	B&H	3	4 wks	\$0.00	\$0.00	\$7,995.20	\$7,995.20	\$1,599.04	\$3,357.98	\$12,952.22
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,995.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5476	1.3.2.2.1.2	Vacuum assembly	SLAC	B&H	1	2.5 wks	\$0.00	\$0.00	\$4,384.00	\$4,384.00	\$876.80	\$789.12	\$6,049.92
		<i>SLAC PCD:Technician</i>		<i>B&H</i>	<i>0</i>	<i>2.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,384.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5477	1.3.2.2.1.2	Alignment	SLAC	B&H	3	13 wks	\$0.00	\$0.00	\$29,640.00	\$29,640.00	\$5,928.00	\$12,448.80	\$48,016.80
		<i>SLAC Metrology:Eng. & Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>13 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$29,640.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5478	1.3.2.2.1.2	Installation	SLAC	B&H	3	26 wks	\$0.00	\$0.00	\$51,968.80	\$51,968.80	\$10,393.76	\$21,826.90	\$84,189.46
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>26 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$51,968.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5479	1.3.2.2.1.3	PPS Final Beam Stop	SLAC		0	2.9 wks	\$0.00	\$2,400.00	\$4,083.76	\$6,483.76	\$960.75	\$1,978.86	\$9,423.37
5480	1.3.2.2.1.3	first item	SLAC	M&S	3	0 wks	\$0.00	\$200.00	\$0.00	\$200.00	\$12.00	\$74.20	\$286.20
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>200</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5481	1.3.2.2.1.3	Design	SLAC	B&H	2	2.2 wks	\$0.00	\$0.00	\$2,816.00	\$2,816.00	\$563.20	\$844.80	\$4,224.00
		<i>SLAC Site Engineering: Labor</i>		<i>B&H</i>	<i>0</i>	<i>2.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,816.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5482	1.3.2.2.1.3	Lead External Bricks	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5483	1.3.2.2.1.3	Cooled Cu Plug	SLAC		3	0.2 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC PCD:Inst-Cabling-Elec Fab</i>			<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5484	1.3.2.2.1.3	Flanges & transitions	SLAC	M&S	3	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$371.00	\$1,431.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5485	1.3.2.2.1.3	Misc Hardware	SLAC	M&S	3	0 wks	\$0.00	\$200.00	\$0.00	\$200.00	\$12.00	\$74.20	\$286.20
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>200</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5486	1.3.2.2.1.3	Plate/clean	SLAC	B&H	2	0.2 wks	\$0.00	\$0.00	\$640.00	\$640.00	\$128.00	\$192.00	\$960.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$640.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
5487	1.3.2.2.1.3	Braze/weld	SLAC	B&H	3	0.2 wks	\$0.00	\$0.00	\$399.76	\$399.76	\$79.95	\$167.90	\$647.61
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>0.2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$399.76</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5488	1.3.2.2.1.3	Support Fab & Machining	SLAC	B&H	3	0.1 wks	\$0.00	\$0.00	\$228.00	\$228.00	\$45.60	\$95.76	\$369.36
		<i>SLACL T&M Crafts - Welder</i>		<i>B&H</i>	<i>0</i>	<i>0.1 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$228.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5489	1.3.2.2.2	Endstation mechanical			0	55 wks	\$0.00	\$190,000.00	\$241,590.40	\$431,590.40	\$59,718.08	\$149,061.97	\$640,370.45
5490	1.3.2.2.2.1	Spectrometers	SLAC		0	5 wks	\$0.00	\$164,000.00	\$9,994.00	\$173,994.00	\$11,838.80	\$47,657.48	\$233,490.28
5491	1.3.2.2.2.1	2-axis spectrometer	SLAC	M&S	2	0 wks	\$0.00	\$164,000.00	\$0.00	\$164,000.00	\$9,840.00	\$43,460.00	\$217,300.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>164,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$164,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5492	1.3.2.2.2.1	Inspection	SLAC	B&H	3	2 wks	\$0.00	\$0.00	\$3,997.60	\$3,997.60	\$799.52	\$1,678.99	\$6,476.11
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,997.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5493	1.3.2.2.2.1	Assembly	SLAC	B&H	3	3 wks	\$0.00	\$0.00	\$5,996.40	\$5,996.40	\$1,199.28	\$2,518.49	\$9,714.17
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,996.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5494	1.3.2.2.2.2	Chamber support tables			0	15 wks	\$0.00	\$26,000.00	\$63,596.40	\$89,596.40	\$14,279.28	\$30,844.49	\$134,720.17
5495	1.3.2.2.2.2	Optical table 4x8x12"	SLAC	M&S	1	0 wks	\$0.00	\$12,000.00	\$0.00	\$12,000.00	\$720.00	\$1,908.00	\$14,628.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>12,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5496	1.3.2.2.2.2	Isolator legs	SLAC	M&S	1	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$420.00	\$1,113.00	\$8,533.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>7,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5497	1.3.2.2.2.2	Tie bars	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5498	1.3.2.2.2.2	Earthquake restraints	SLAC	M&S	1	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$954.00	\$7,314.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5499	1.3.2.2.2.2	Inspection	SLAC	B&H	3	1 wk	\$0.00	\$0.00	\$1,998.80	\$1,998.80	\$399.76	\$839.50	\$3,238.06
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,998.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5500	1.3.2.2.2.2	Assembly/Installation	SLAC	B&H	3	2 wks	\$0.00	\$0.00	\$3,997.60	\$3,997.60	\$799.52	\$1,678.99	\$6,476.11
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,997.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5501	1.3.2.2.2.2	Assembly/Installation	SLAC	ED&I	3	12 wks	\$0.00	\$0.00	\$57,600.00	\$57,600.00	\$11,520.00	\$24,192.00	\$93,312.00
		<i>SLAC Project Management</i>		<i>ED&I</i>	<i>0</i>	<i>12 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$57,600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5502	1.3.2.2.2.3	System Integration	SLAC	ED&I	3	35 wks	\$0.00	\$0.00	\$168,000.00	\$168,000.00	\$33,600.00	\$70,560.00	\$272,160.00
		<i>SLAC Project Management</i>		<i>ED&I</i>	<i>0</i>	<i>35 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$168,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5503	1.3.2.3	Vacuum			0	74 wks	\$0.00	\$266,001.00	\$230,270.80	\$496,271.80	\$62,014.22	\$119,766.25	\$678,052.27
5504	1.3.2.3.1	Vacuum Components			0	25 wks	\$0.00	\$192,001.00	\$83,584.40	\$275,585.40	\$28,236.94	\$68,149.75	\$371,972.09
5505	1.3.2.3.1.1	Valves			0	2 wks	\$0.00	\$20,000.00	\$3,997.60	\$23,997.60	\$1,999.52	\$4,858.99	\$30,856.11
5506	1.3.2.3.1.1	Gate valves	SLAC	M&S	1	0 wks	\$0.00	\$13,000.00	\$0.00	\$13,000.00	\$780.00	\$2,067.00	\$15,847.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>13,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5507	1.3.2.3.1.1	Roughing	SLAC	M&S	1	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$420.00	\$1,113.00	\$8,533.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>7,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5508	1.3.2.3.1.1	Inspection	SLAC	B&H	3	2 wks	\$0.00	\$0.00	\$3,997.60	\$3,997.60	\$799.52	\$1,678.99	\$6,476.11
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,997.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5509	1.3.2.3.1.2	Hardware			0	1 wk	\$0.00	\$13,000.00	\$1,998.80	\$14,998.80	\$1,179.76	\$5,662.50	\$21,841.06
5510	1.3.2.3.1.2	Flanges	SLAC	M&S	3	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$1,113.00	\$4,293.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5511	1.3.2.3.1.2	Bellows	SLAC	M&S	3	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$600.00	\$3,710.00	\$14,310.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5512	1.3.2.3.1.2	Inspection	SLAC	B&H	3	1 wk	\$0.00	\$0.00	\$1,998.80	\$1,998.80	\$399.76	\$839.50	\$3,238.06
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,998.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5513	1.3.2.3.1.3	Ion Pump System			0	4 wks	\$0.00	\$82,000.00	\$7,995.20	\$89,995.20	\$6,519.04	\$16,395.98	\$112,910.22
5514	1.3.2.3.1.3	Pumps	SLAC	M&S	1	0 wks	\$0.00	\$46,000.00	\$0.00	\$46,000.00	\$2,760.00	\$7,314.00	\$56,074.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>46,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$46,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5515	1.3.2.3.1.3	Controller	SLAC	M&S	1	0 wks	\$0.00	\$29,000.00	\$0.00	\$29,000.00	\$1,740.00	\$4,611.00	\$35,351.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>29,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$29,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5516	1.3.2.3.1.3	4-way cross	SLAC	M&S	1	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$954.00	\$7,314.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5517	1.3.2.3.1.3	Tee	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5518	1.3.2.3.1.3	Assembly	SLAC	B&H	3	3 wks	\$0.00	\$0.00	\$5,996.40	\$5,996.40	\$1,199.28	\$2,518.49	\$9,714.17
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,996.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5519	1.3.2.3.1.3	Inspection	SLAC	B&H	3	1 wk	\$0.00	\$0.00	\$1,998.80	\$1,998.80	\$399.76	\$839.50	\$3,238.06
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,998.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5520	1.3.2.3.1.4	Turbo Pump System			0	2 wks	\$0.00	\$24,001.00	\$3,997.60	\$27,998.60	\$2,239.58	\$5,495.15	\$35,733.33
5521	1.3.2.3.1.4	Pump	SLAC	M&S	1	0 wks	\$0.00	\$15,000.00	\$0.00	\$15,000.00	\$900.00	\$2,385.00	\$18,285.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>15,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$15,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5522	1.3.2.3.1.4	Controller	SLAC	M&S	1	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$477.00	\$3,657.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5523	1.3.2.3.1.4	Backing Pump	SLAC	M&S	1	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$795.00	\$6,095.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5524	1.3.2.3.1.4	Water Cooling	SLAC	M&S	1	0 wks	\$0.00	\$1.00	\$0.00	\$1.00	\$0.06	\$0.16	\$1.22
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5525	1.3.2.3.1.4	Vent System	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5526	1.3.2.3.1.4	Inspection	SLAC	B&H	3	2 wks	\$0.00	\$0.00	\$3,997.60	\$3,997.60	\$799.52	\$1,678.99	\$6,476.11

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,997.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5527	1.3.2.3.1.5	Gauge System			0	16 wks	\$0.00	\$53,000.00	\$65,595.20	\$118,595.20	\$16,299.04	\$35,737.13	\$170,631.37
5528	1.3.2.3.1.5	Gauges	SLAC	M&S	1	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$954.00	\$7,314.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5529	1.3.2.3.1.5	Gauge controllers	SLAC	M&S	1	0 wks	\$0.00	\$46,000.00	\$0.00	\$46,000.00	\$2,760.00	\$7,314.00	\$56,074.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>46,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$46,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5530	1.3.2.3.1.5	Cables	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5531	1.3.2.3.1.5	Assembly	SLAC	B&H	3	3 wks	\$0.00	\$0.00	\$5,996.40	\$5,996.40	\$1,199.28	\$2,518.49	\$9,714.17
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,996.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5532	1.3.2.3.1.5	Inspection	SLAC	B&H	2	1 wk	\$0.00	\$0.00	\$1,998.80	\$1,998.80	\$399.76	\$599.64	\$2,998.20
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,998.80</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5533	1.3.2.3.1.6	System Integration	SLAC		0	12 wks	\$0.00	\$0.00	\$57,600.00	\$57,600.00	\$11,520.00	\$24,192.00	\$93,312.00
5534	1.3.2.3.1.6	System Integration	SLAC	ED&I	3	12 wks	\$0.00	\$0.00	\$57,600.00	\$57,600.00	\$11,520.00	\$24,192.00	\$93,312.00
		<i>SLAC Project Management</i>		<i>ED&I</i>	<i>0</i>	<i>12 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$57,600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5535	1.3.2.3.2	Experimental chambers			0	49 wks	\$0.00	\$74,000.00	\$146,686.40	\$220,686.40	\$33,777.28	\$51,616.50	\$306,080.18
5536	1.3.2.3.2.1	Chamber: A2			0	8 wks	\$0.00	\$20,000.00	\$16,271.60	\$36,271.60	\$4,454.32	\$14,797.48	\$55,523.40
5537	1.3.2.3.2.1	Chamber	SLAC	M&S	4	0 wks	\$0.00	\$20,000.00	\$0.00	\$20,000.00	\$1,200.00	\$10,600.00	\$31,800.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>20,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$20,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5538	1.3.2.3.2.1	Inspection	SLAC	B&H	3	2 wks	\$0.00	\$0.00	\$3,997.60	\$3,997.60	\$799.52	\$1,678.99	\$6,476.11
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,997.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5539	1.3.2.3.2.1	Assembly	SLAC	B&H	3	3 wks	\$0.00	\$0.00	\$5,996.40	\$5,996.40	\$1,199.28	\$2,518.49	\$9,714.17
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,996.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5540	1.3.2.3.2.1	Installation	SLAC	B&H	0	2 wks	\$0.00	\$0.00	\$3,997.60	\$3,997.60	\$799.52	\$0.00	\$4,797.12
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,997.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5541	1.3.2.3.2.1	Alignment	SLAC	B&H	0	1 wk	\$0.00	\$0.00	\$2,280.00	\$2,280.00	\$456.00	\$0.00	\$2,736.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,280.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5542	1.3.2.3.2.2	Chamber: B4			0	8 wks	\$0.00	\$17,000.00	\$16,271.60	\$33,271.60	\$4,274.32	\$11,339.07	\$48,884.99
5543	1.3.2.3.2.2	Chamber	SLAC	M&S	2	0 wks	\$0.00	\$17,000.00	\$0.00	\$17,000.00	\$1,020.00	\$4,505.00	\$22,525.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>17,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$17,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5544	1.3.2.3.2.2	Inspection	SLAC	B&H	3	2 wks	\$0.00	\$0.00	\$3,997.60	\$3,997.60	\$799.52	\$1,678.99	\$6,476.11
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,997.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5545	1.3.2.3.2.2	Assembly	SLAC	B&H	3	3 wks	\$0.00	\$0.00	\$5,996.40	\$5,996.40	\$1,199.28	\$2,518.49	\$9,714.17
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,996.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5546	1.3.2.3.2.2	Installation	SLAC	B&H	3	2 wks	\$0.00	\$0.00	\$3,997.60	\$3,997.60	\$799.52	\$1,678.99	\$6,476.11

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,997.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5547	1.3.2.3.2.2	Alignment	SLAC	B&H	3	1 wk	\$0.00	\$0.00	\$2,280.00	\$2,280.00	\$456.00	\$957.60	\$3,693.60
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,280.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5548	1.3.2.3.2.3	System Integration	SLAC		0	17 wks	\$0.00	\$0.00	\$81,600.00	\$81,600.00	\$16,320.00	\$0.00	\$97,920.00
5549	1.3.2.3.2.3	System Integration	SLAC	ED&I	0	17 wks	\$0.00	\$0.00	\$81,600.00	\$81,600.00	\$16,320.00	\$0.00	\$97,920.00
		<i>SLAC Project Management</i>		<i>ED&I</i>	<i>0</i>	<i>17 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$81,600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5550	1.3.2.3.2.4	Chamber: A3	SLAC		3	8 wks	\$0.00	\$20,000.00	\$16,271.60	\$36,271.60	\$4,454.32	\$13,296.47	\$54,022.39
5551	1.3.2.3.2.4	chamber	SLAC	M&S	3	0 wks	\$0.00	\$20,000.00	\$0.00	\$20,000.00	\$1,200.00	\$7,420.00	\$28,620.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>20,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$20,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5552	1.3.2.3.2.4	inspection	SLAC	B&H	3	2 wks	\$0.00	\$0.00	\$3,997.60	\$3,997.60	\$799.52	\$1,678.99	\$6,476.11
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,997.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5553	1.3.2.3.2.4	assembly	SLAC	B&H	3	3 wks	\$0.00	\$0.00	\$5,996.40	\$5,996.40	\$1,199.28	\$2,518.49	\$9,714.17
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,996.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5554	1.3.2.3.2.4	installation	SLAC	B&H	3	2 wks	\$0.00	\$0.00	\$3,997.60	\$3,997.60	\$799.52	\$1,678.99	\$6,476.11
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,997.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5555	1.3.2.3.2.4	alignment	SLAC	B&H	0	1 wk	\$0.00	\$0.00	\$2,280.00	\$2,280.00	\$456.00	\$0.00	\$2,736.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,280.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5556	1.3.2.3.2.5	Chamber: B5	SLAC		3	8 wks	\$0.00	\$17,000.00	\$16,271.60	\$33,271.60	\$4,274.32	\$12,183.47	\$49,729.39
5557	1.3.2.3.2.5	chamber	SLAC	M&S	3	0 wks	\$0.00	\$17,000.00	\$0.00	\$17,000.00	\$1,020.00	\$6,307.00	\$24,327.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>17,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$17,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5558	1.3.2.3.2.5	inspection	SLAC	B&H	3	2 wks	\$0.00	\$0.00	\$3,997.60	\$3,997.60	\$799.52	\$1,678.99	\$6,476.11
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,997.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5559	1.3.2.3.2.5	assembly	SLAC	B&H	3	3 wks	\$0.00	\$0.00	\$5,996.40	\$5,996.40	\$1,199.28	\$2,518.49	\$9,714.17
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,996.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5560	1.3.2.3.2.5	installation	SLAC	B&H	3	2 wks	\$0.00	\$0.00	\$3,997.60	\$3,997.60	\$799.52	\$1,678.99	\$6,476.11
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,997.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5561	1.3.2.3.2.5	alignment	SLAC	B&H	0	1 wk	\$0.00	\$0.00	\$2,280.00	\$2,280.00	\$456.00	\$0.00	\$2,736.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,280.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5562	1.3.2.4	Controls			0	75 wks	\$0.00	\$3,704,000.00	\$291,291.20	\$3,995,291.20	\$280,498.24	\$1,769,698.30	\$6,045,487.74
5563	1.3.2.4.1	Controls			0	13 wks	\$0.00	\$1,166,000.00	\$35,360.00	\$1,201,360.00	\$77,032.00	\$447,437.20	\$1,725,829.20
5564	1.3.2.4.1.1	Infrastructure			0	0 wks	\$0.00	\$86,000.00	\$0.00	\$86,000.00	\$5,160.00	\$31,906.00	\$123,066.00
5565	1.3.2.4.1.1	Cable trays:outside contract	SLAC	M&S	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5566	1.3.2.4.1.1	FFTB extension	SLAC	M&S	3	0 wks	\$0.00	\$14,000.00	\$0.00	\$14,000.00	\$840.00	\$5,194.00	\$20,034.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>14,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$14,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
5567	1.3.2.4.1.1	Hall A	SLAC	M&S	3	0 wks	\$0.00	\$12,000.00	\$0.00	\$12,000.00	\$720.00	\$4,452.00	\$17,172.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>12,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5568	1.3.2.4.1.1	Tunnel	SLAC	M&S	3	0 wks	\$0.00	\$48,000.00	\$0.00	\$48,000.00	\$2,880.00	\$17,808.00	\$68,688.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>48,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$48,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5569	1.3.2.4.1.1	Hall B	SLAC	M&S	3	0 wks	\$0.00	\$12,000.00	\$0.00	\$12,000.00	\$720.00	\$4,452.00	\$17,172.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>12,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5570	1.3.2.4.1.2	Network			0	13 wks	\$0.00	\$530,000.00	\$35,360.00	\$565,360.00	\$38,872.00	\$211,481.20	\$815,713.20
5571	1.3.2.4.1.2	Installation (trunk cable)	SLAC	B&H	3	13 wks	\$0.00	\$0.00	\$35,360.00	\$35,360.00	\$7,072.00	\$14,851.20	\$57,283.20
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>13 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$35,360.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5572	1.3.2.4.1.2	Cisco 6509 router	SLAC	M&S	3	0 wks	\$0.00	\$150,000.00	\$0.00	\$150,000.00	\$9,000.00	\$55,650.00	\$214,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>150,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$150,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5573	1.3.2.4.1.2	Catalyst switches	SLAC	M&S	3	0 wks	\$0.00	\$100,000.00	\$0.00	\$100,000.00	\$6,000.00	\$37,100.00	\$143,100.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>100,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$100,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5574	1.3.2.4.1.2	Cisco Wireless hubs	SLAC	M&S	3	0 wks	\$0.00	\$30,000.00	\$0.00	\$30,000.00	\$1,800.00	\$11,130.00	\$42,930.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>30,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$30,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5575	1.3.2.4.1.2	Fiber optics, CAT-5 cable	SLAC	M&S	3	0 wks	\$0.00	\$50,000.00	\$0.00	\$50,000.00	\$3,000.00	\$18,550.00	\$71,550.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>50,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$50,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5576	1.3.2.4.1.2	Connectors/components	SLAC	M&S	3	0 wks	\$0.00	\$30,000.00	\$0.00	\$30,000.00	\$1,800.00	\$11,130.00	\$42,930.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>30,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$30,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5577	1.3.2.4.1.2	Satellite room components	SLAC	M&S	3	0 wks	\$0.00	\$50,000.00	\$0.00	\$50,000.00	\$3,000.00	\$18,550.00	\$71,550.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>50,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$50,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5578	1.3.2.4.1.2	Network test/terminate tools	SLAC	M&S	3	0 wks	\$0.00	\$60,000.00	\$0.00	\$60,000.00	\$3,600.00	\$22,260.00	\$85,860.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>60,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$60,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5579	1.3.2.4.1.2	Maintenance contract	SLAC	M&S	3	0 wks	\$0.00	\$60,000.00	\$0.00	\$60,000.00	\$3,600.00	\$22,260.00	\$85,860.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>60,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$60,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5580	1.3.2.4.1.3	Reserved			0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5581	1.3.2.4.1.3	Domain servers	SLAC	M&S	3	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5582	1.3.2.4.1.3	Tape library	SLAC	M&S	3	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5583	1.3.2.4.1.3	File server	SLAC	M&S	3	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5584	1.3.2.4.1.3	Printers	SLAC	M&S	3	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5585	1.3.2.4.1.3	PC's	SLAC	M&S	3	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5586	1.3.2.4.1.3	Software (specialized apps +OS)	SLAC	M&S	3	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5587	1.3.2.4.1.4	Beamline controls			0	0 wks	\$0.00	\$550,000.00	\$0.00	\$550,000.00	\$33,000.00	\$204,050.00	\$787,050.00
5588	1.3.2.4.1.4	Motion control/electronics	SLAC	M&S	3	0 wks	\$0.00	\$240,000.00	\$0.00	\$240,000.00	\$14,400.00	\$89,040.00	\$343,440.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>240,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$240,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5589	1.3.2.4.1.4	Single task computers	SLAC	M&S	3	0 wks	\$0.00	\$20,000.00	\$0.00	\$20,000.00	\$1,200.00	\$7,420.00	\$28,620.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>20,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$20,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5590	1.3.2.4.1.4	Control computer	SLAC	M&S	3	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$600.00	\$3,710.00	\$14,310.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5591	1.3.2.4.1.4	Graphics computer	SLAC	M&S	3	0 wks	\$0.00	\$100,000.00	\$0.00	\$100,000.00	\$6,000.00	\$37,100.00	\$143,100.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>100,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$100,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5592	1.3.2.4.1.4	Info services	SLAC	M&S	3	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5593	1.3.2.4.1.4	Web-server	SLAC	M&S	3	0 wks	\$0.00	\$50,000.00	\$0.00	\$50,000.00	\$3,000.00	\$18,550.00	\$71,550.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>50,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$50,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5594	1.3.2.4.1.4	Database server	SLAC	M&S	3	0 wks	\$0.00	\$80,000.00	\$0.00	\$80,000.00	\$4,800.00	\$29,680.00	\$114,480.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>80,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$80,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5595	1.3.2.4.1.4	Office apps	SLAC	M&S	3	0 wks	\$0.00	\$50,000.00	\$0.00	\$50,000.00	\$3,000.00	\$18,550.00	\$71,550.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>50,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$50,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5596	1.3.2.4.1.4	High performance computing	SLAC	M&S	3	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5597	1.3.2.4.1.4	High performance/capacity data storage	SLAC	M&S	3	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5598	1.3.2.4.2	Detectors			0	62 wks	\$0.00	\$2,538,000.00	\$255,931.20	\$2,793,931.20	\$203,466.24	\$1,322,261.10	\$4,319,658.54
5599	1.3.2.4.2.1	Beam Imaging	SLAC		0	6 wks	\$0.00	\$20,000.00	\$11,502.40	\$31,502.40	\$3,500.48	\$12,251.01	\$47,253.89
5600	1.3.2.4.2.1	Hardware	SLAC	M&S	3	0 wks	\$0.00	\$20,000.00	\$0.00	\$20,000.00	\$1,200.00	\$7,420.00	\$28,620.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>20,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$20,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5601	1.3.2.4.2.1	Assembly	SLAC	B&H	3	4 wks	\$0.00	\$0.00	\$7,995.20	\$7,995.20	\$1,599.04	\$3,357.98	\$12,952.22
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,995.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5602	1.3.2.4.2.1	Assembly/install	SLAC	B&H	3	2 wks	\$0.00	\$0.00	\$3,507.20	\$3,507.20	\$701.44	\$1,473.02	\$5,681.66
		<i>SLAC PCD:Technician</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,507.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5603	1.3.2.4.2.2	Intensity	SLAC		0	2 wks	\$0.00	\$21,000.00	\$3,507.20	\$24,507.20	\$1,961.44	\$9,264.02	\$35,732.66
5604	1.3.2.4.2.2	Detectors	SLAC	M&S	3	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$1,113.00	\$4,293.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
5605	1.3.2.4.2.2	Electronics	SLAC	M&S	3	0 wks	\$0.00	\$18,000.00	\$0.00	\$18,000.00	\$1,080.00	\$6,678.00	\$25,758.00
		SLAC M&S Total		M&S	0	18,000	\$0.00	\$0.00	\$0.00	\$18,000.00	\$0.00	\$0.00	\$0.00
5606	1.3.2.4.2.2	Assembly/install	SLAC	B&H	3	2 wks	\$0.00	\$0.00	\$3,507.20	\$3,507.20	\$701.44	\$1,473.02	\$5,681.66
		SLAC PCD:Technician		B&H	0	2 wks	\$0.00	\$0.00	\$0.00	\$3,507.20	\$0.00	\$0.00	\$0.00
5607	1.3.2.4.2.3	Streak Camera	SLAC		0	2 wks	\$0.00	\$97,000.00	\$3,507.20	\$100,507.20	\$6,521.44	\$25,800.02	\$132,828.66
5608	1.3.2.4.2.3	Vacuum pumps	SLAC	M&S	2	0 wks	\$0.00	\$15,000.00	\$0.00	\$15,000.00	\$900.00	\$3,975.00	\$19,875.00
		SLAC M&S Total		M&S	0	15,000	\$0.00	\$0.00	\$0.00	\$15,000.00	\$0.00	\$0.00	\$0.00
5609	1.3.2.4.2.3	Gauges	SLAC	M&S	1	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$477.00	\$3,657.00
		SLAC M&S Total		M&S	0	3,000	\$0.00	\$0.00	\$0.00	\$3,000.00	\$0.00	\$0.00	\$0.00
5610	1.3.2.4.2.3	Cathode PSU	SLAC	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$1,060.00	\$5,300.00
		SLAC M&S Total		M&S	0	4,000	\$0.00	\$0.00	\$0.00	\$4,000.00	\$0.00	\$0.00	\$0.00
5611	1.3.2.4.2.3	Cathode Pulser	SLAC	M&S	2	0 wks	\$0.00	\$17,000.00	\$0.00	\$17,000.00	\$1,020.00	\$4,505.00	\$22,525.00
		SLAC M&S Total		M&S	0	17,000	\$0.00	\$0.00	\$0.00	\$17,000.00	\$0.00	\$0.00	\$0.00
5612	1.3.2.4.2.3	Bias/sweep PSUs	SLAC	M&S	2	0 wks	\$0.00	\$35,000.00	\$0.00	\$35,000.00	\$2,100.00	\$9,275.00	\$46,375.00
		SLAC M&S Total		M&S	0	35,000	\$0.00	\$0.00	\$0.00	\$35,000.00	\$0.00	\$0.00	\$0.00
5613	1.3.2.4.2.3	Electron ccd system	SLAC	M&S	1	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$636.00	\$4,876.00
		SLAC M&S Total		M&S	0	4,000	\$0.00	\$0.00	\$0.00	\$4,000.00	\$0.00	\$0.00	\$0.00
5614	1.3.2.4.2.3	Vacuum hardware	SLAC	M&S	3	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$371.00	\$1,431.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
5615	1.3.2.4.2.3	Slits	SLAC	M&S	1	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$636.00	\$4,876.00
		SLAC M&S Total		M&S	0	4,000	\$0.00	\$0.00	\$0.00	\$4,000.00	\$0.00	\$0.00	\$0.00
5616	1.3.2.4.2.3	Cathode substrates (20)	SLAC	M&S	1	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$636.00	\$4,876.00
		SLAC M&S Total		M&S	0	4,000	\$0.00	\$0.00	\$0.00	\$4,000.00	\$0.00	\$0.00	\$0.00
5617	1.3.2.4.2.3	Cathode coatings (3)	SLAC	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$318.00	\$2,438.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
5618	1.3.2.4.2.3	Slides / picomotors	SLAC	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$1,325.00	\$6,625.00
		SLAC M&S Total		M&S	0	5,000	\$0.00	\$0.00	\$0.00	\$5,000.00	\$0.00	\$0.00	\$0.00
5619	1.3.2.4.2.3	BN insulator and Ti bolts	SLAC	M&S	3	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$371.00	\$1,431.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
5620	1.3.2.4.2.3	Sweep plates materials and fab	SLAC	M&S	3	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$742.00	\$2,862.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
5621	1.3.2.4.2.3	Assembly/install	SLAC	B&H	3	2 wks	\$0.00	\$0.00	\$3,507.20	\$3,507.20	\$701.44	\$1,473.02	\$5,681.66
		SLAC PCD:Technician		B&H	0	2 wks	\$0.00	\$0.00	\$0.00	\$3,507.20	\$0.00	\$0.00	\$0.00
5622	1.3.2.4.2.4	2-D X-Ray Detector	SLAC		0	4 wks	\$0.00	\$2,400,000.00	\$7,014.40	\$2,407,014.40	\$145,402.88	\$1,274,946.05	\$3,827,363.33
5623	1.3.2.4.2.4	Fab runs	SLAC	M&S	4	0 wks	\$0.00	\$2,000,000.00	\$0.00	\$2,000,000.00	\$120,000.00	\$1,060,000.00	\$3,180,000.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5624	1.3.2.4.2.4	Misc materials	SLAC	M&S	4	0 wks	\$0.00	\$400,000.00	\$0.00	\$400,000.00	\$24,000.00	\$212,000.00	\$636,000.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>400,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$400,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5625	1.3.2.4.2.4	Assembly/install	SLAC	B&H	3	4 wks	\$0.00	\$0.00	\$7,014.40	\$7,014.40	\$1,402.88	\$2,946.05	\$11,363.33
		<i>SLAC PCD:Technician</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,014.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5626	1.3.2.4.2.5	System Integration	SLAC		3	48 wks	\$0.00	\$0.00	\$230,400.00	\$230,400.00	\$46,080.00	\$0.00	\$276,480.00
5627	1.3.2.4.2.5	Project Manager	SLAC	ED&I	0	48 wks	\$0.00	\$0.00	\$230,400.00	\$230,400.00	\$46,080.00	\$0.00	\$276,480.00
		<i>SLAC Project Management</i>		<i>ED&I</i>	<i>0</i>	<i>48 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$230,400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5628	1.3.2.5	Laser systems			0	120.75 wks	\$0.00	\$1,412,400.00	\$405,297.60	\$1,817,697.60	\$165,803.52	\$398,138.08	\$2,381,639.20
5629	1.3.2.5.1	Oscillator Laser & Pump			0	5 wks	\$0.00	\$247,000.00	\$17,000.00	\$264,000.00	\$18,220.00	\$44,373.00	\$326,593.00
5630	1.3.2.5.1.1	Oscillator Laser & Pump	SLAC	ED&I	2	2.5 wks	\$0.00	\$0.00	\$8,500.00	\$8,500.00	\$1,700.00	\$2,550.00	\$12,750.00
		<i>SLAC Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>2.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,500.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5631	1.3.2.5.1.1	Oscillator Laser & Pump	SLAC	ED&I	2	2.5 wks	\$0.00	\$0.00	\$8,500.00	\$8,500.00	\$1,700.00	\$2,550.00	\$12,750.00
		<i>SLAC Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>2.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,500.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5632	1.3.2.5.1.1	CW diode-pumped doubled Nd:YVO4 (eg. Model Millennia Xs-P)	SLAC	M&S	1	0 wks	\$0.00	\$104,400.00	\$0.00	\$104,400.00	\$6,264.00	\$16,599.60	\$127,263.60
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>104,400</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$104,400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5633	1.3.2.5.1.2	Nd:YVO4 Service Contract	SLAC	M&S	1	0 wks	\$0.00	\$13,200.00	\$0.00	\$13,200.00	\$792.00	\$2,098.80	\$16,090.80
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>13,200</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5634	1.3.2.5.1.3	CW mode locked Ti:S Oscillator,1.4W (eg. Model 3960-X1M)	SLAC	M&S	1	0 wks	\$0.00	\$98,400.00	\$0.00	\$98,400.00	\$5,904.00	\$15,645.60	\$119,949.60
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>98,400</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$98,400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5635	1.3.2.5.1.4	Ti:S Oscillator Service Contract	SLAC	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$318.00	\$2,438.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5636	1.3.2.5.1.5	Oscillator synchronization option (eg. C-Option)	SLAC	M&S	1	0 wks	\$0.00	\$29,000.00	\$0.00	\$29,000.00	\$1,740.00	\$4,611.00	\$35,351.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>29,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$29,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5637	1.3.2.5.2	Oscillator Diagnostics			0	5 wks	\$0.00	\$228,500.00	\$17,000.00	\$245,500.00	\$17,110.00	\$42,703.50	\$305,313.50
5638	1.3.2.5.2.1	Oscillator Diagnostics	SLAC	ED&I	2	2.5 wks	\$0.00	\$0.00	\$8,500.00	\$8,500.00	\$1,700.00	\$2,550.00	\$12,750.00
		<i>SLAC Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>2.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,500.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5639	1.3.2.5.2.1	Oscillator Diagnostics	SLAC	ED&I	2	2.5 wks	\$0.00	\$0.00	\$8,500.00	\$8,500.00	\$1,700.00	\$2,550.00	\$12,750.00
		<i>SLAC Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>2.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,500.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5640	1.3.2.5.2.1	Autocorrelators (scanning)	SLAC	M&S	1	0 wks	\$0.00	\$18,500.00	\$0.00	\$18,500.00	\$1,110.00	\$2,941.50	\$22,551.50
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>18,500</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$18,500.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5641	1.3.2.5.2.2	IR wavelength monitors (spectrometers)	SLAC	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$1,325.00	\$6,625.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5642	1.3.2.5.2.3	CCD camera	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
5643	1.3.2.5.2.4	Power/energy meter (2 channel)	SLAC	M&S	1	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$480.00	\$1,272.00	\$9,752.00
		SLAC M&S Total		M&S	0	8,000	\$0.00	\$0.00	\$0.00	\$8,000.00	\$0.00	\$0.00	\$0.00
5644	1.3.2.5.2.5	Power /energy sensor , 10W	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
5645	1.3.2.5.2.6	Power /energy sensor , 2W	SLAC	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$318.00	\$2,438.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
5646	1.3.2.5.2.7	>12 GHz photodiodes	SLAC	M&S	1	0 wks	\$0.00	\$14,000.00	\$0.00	\$14,000.00	\$840.00	\$2,226.00	\$17,066.00
		SLAC M&S Total		M&S	0	14,000	\$0.00	\$0.00	\$0.00	\$14,000.00	\$0.00	\$0.00	\$0.00
5647	1.3.2.5.2.8	20-50GHz, 4 channel scope	SLAC	M&S	1	0 wks	\$0.00	\$70,000.00	\$0.00	\$70,000.00	\$4,200.00	\$11,130.00	\$85,330.00
		SLAC M&S Total		M&S	0	70,000	\$0.00	\$0.00	\$0.00	\$70,000.00	\$0.00	\$0.00	\$0.00
5648	1.3.2.5.2.9	1-ns risetime diodes	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
5649	1.3.2.5.2.10	IR FROG	SLAC	M&S	1	0 wks	\$0.00	\$21,000.00	\$0.00	\$21,000.00	\$1,260.00	\$3,339.00	\$25,599.00
		SLAC M&S Total		M&S	0	21,000	\$0.00	\$0.00	\$0.00	\$21,000.00	\$0.00	\$0.00	\$0.00
5650	1.3.2.5.2.11	Fiber-coupled spectrometer (vis-ir)	SLAC	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$795.00	\$3,975.00
		SLAC M&S Total		M&S	0	3,000	\$0.00	\$0.00	\$0.00	\$3,000.00	\$0.00	\$0.00	\$0.00
5651	1.3.2.5.2.12	Planar mirrors/splitters	SLAC	M&S	1	0 wks	\$0.00	\$11,000.00	\$0.00	\$11,000.00	\$660.00	\$1,749.00	\$13,409.00
		SLAC M&S Total		M&S	0	11,000	\$0.00	\$0.00	\$0.00	\$11,000.00	\$0.00	\$0.00	\$0.00
5652	1.3.2.5.2.13	Mirror mounts	SLAC	M&S	1	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$477.00	\$3,657.00
		SLAC M&S Total		M&S	0	3,000	\$0.00	\$0.00	\$0.00	\$3,000.00	\$0.00	\$0.00	\$0.00
5653	1.3.2.5.2.14	Pop-in mounts (rotary)	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
5654	1.3.2.5.2.15	Alignment irises on posts	SLAC	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$318.00	\$2,438.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
5655	1.3.2.5.2.16	Post collars	SLAC	M&S	1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		SLAC M&S Total		M&S	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5656	1.3.2.5.2.17	Beam profiler system (includes ir,vis,uv cameras + PC)	SLAC	M&S	1	0 wks	\$0.00	\$60,000.00	\$0.00	\$60,000.00	\$3,600.00	\$9,540.00	\$73,140.00
		SLAC M&S Total		M&S	0	60,000	\$0.00	\$0.00	\$0.00	\$60,000.00	\$0.00	\$0.00	\$0.00
5657	1.3.2.5.2.18	Posts	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
5658	1.3.2.5.2.19	Posts Holders	SLAC	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$318.00	\$2,438.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
5659	1.3.2.5.2.20	Post Holder Bases	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
5660	1.3.2.5.2.21	Beam dumps	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5661	1.3.2.5.3	Pulse Stretcher			0	3.15 wks	\$0.00	\$19,000.00	\$10,630.00	\$29,630.00	\$3,266.00	\$6,374.40	\$39,270.40
5662	1.3.2.5.3.1	Pulse Stretcher	SLAC	ED&I	2	1.25 wks	\$0.00	\$0.00	\$4,250.00	\$4,250.00	\$850.00	\$1,275.00	\$6,375.00
		<i>SLAC Physicist - Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>1.25 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,250.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5663	1.3.2.5.3.1	Pulse Stretcher	SLAC	ED&I	2	1.5 wks	\$0.00	\$0.00	\$5,100.00	\$5,100.00	\$1,020.00	\$1,530.00	\$7,650.00
		<i>SLAC Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>1.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,100.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5664	1.3.2.5.3.1	Gratings, 1x2 in, 1700 li/mm, 780 nm	SLAC	M&S	1	0 wks	\$0.00	\$12,000.00	\$0.00	\$12,000.00	\$720.00	\$1,908.00	\$14,628.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>12,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5665	1.3.2.5.3.2	Grating mounts, tip,tilt,azim knobs	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5666	1.3.2.5.3.3	Lenses,D=2 in f=0.5m,coated, 780nm	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5667	1.3.2.5.3.4	2 inch lens mounts	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5668	1.3.2.5.3.5	Prisms, 2x2 in, coated, 780nm	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5669	1.3.2.5.3.6	Prism mount with tip,tilt	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5670	1.3.2.5.3.7	Translation stages with micrometer	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5671	1.3.2.5.3.8	Beam covers	SLAC	B&H	1	0.4 wks	\$0.00	\$0.00	\$1,280.00	\$1,280.00	\$256.00	\$230.40	\$1,766.40
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,280.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5672	1.3.2.5.4	Pockels Cells and Drivers (ir)			0	9.5 wks	\$0.00	\$27,000.00	\$32,300.00	\$59,300.00	\$8,080.00	\$14,195.00	\$81,575.00
5673	1.3.2.5.4.1	Pockels Cells and Drivers (ir)	SLAC	ED&I	2	5 wks	\$0.00	\$0.00	\$17,000.00	\$17,000.00	\$3,400.00	\$5,100.00	\$25,500.00
		<i>SLAC Physicist - Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$17,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5674	1.3.2.5.4.1	Pockels Cells and Drivers (ir)	SLAC	ED&I	2	4.5 wks	\$0.00	\$0.00	\$15,300.00	\$15,300.00	\$3,060.00	\$4,590.00	\$22,950.00
		<i>SLAC Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>4.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$15,300.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5675	1.3.2.5.4.1	Pockels cells, 8mm, sol-gel@780nm	SLAC	M&S	1	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$477.00	\$3,657.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5676	1.3.2.5.4.2	Tilt mounts for pockels cells	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5677	1.3.2.5.4.3	V-block clamps for pockels cells	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5678	1.3.2.5.4.4	6.5 kV pulsters, full off-on-off in <12ns	SLAC	M&S	1	0 wks	\$0.00	\$20,000.00	\$0.00	\$20,000.00	\$1,200.00	\$3,180.00	\$24,380.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>20,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$20,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
5679	1.3.2.5.4.5	Polarizers, coated for 780 nm (cubes)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5680	1.3.2.5.4.6	Polarizer mounts	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5681	1.3.2.5.4.7	Post collars	SLAC	M&S	1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5682	1.3.2.5.4.8	Posts	SLAC	M&S	1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5683	1.3.2.5.4.9	Post holders	SLAC	M&S	1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5684	1.3.2.5.4.10	Post holder bases	SLAC	M&S	1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5685	1.3.2.5.4.11	Beam covers	SLAC	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5686	1.3.2.5.5	Pump Laser System			0	16.8 wks	\$0.00	\$357,000.00	\$56,960.00	\$413,960.00	\$32,812.00	\$81,483.00	\$528,255.00
5687	1.3.2.5.5	Pump Laser System	SLAC	ED&I	2	8 wks	\$0.00	\$0.00	\$27,200.00	\$27,200.00	\$5,440.00	\$8,160.00	\$40,800.00
		<i>SLAC Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$27,200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5688	1.3.2.5.5	Pump Laser System	SLAC	ED&I	2	8 wks	\$0.00	\$0.00	\$27,200.00	\$27,200.00	\$5,440.00	\$8,160.00	\$40,800.00
		<i>SLAC Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>8 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$27,200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5689	1.3.2.5.5.1	Q-switched Nd:YAG, 532nm, 60HZ, 200mJ	SLAC	M&S	1	0 wks	\$0.00	\$238,000.00	\$0.00	\$238,000.00	\$14,280.00	\$37,842.00	\$290,122.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>238,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$238,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5690	1.3.2.5.5.2	Nd:YAG Service Contract	SLAC	M&S	1	0 wks	\$0.00	\$16,000.00	\$0.00	\$16,000.00	\$960.00	\$2,544.00	\$19,504.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>16,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$16,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5691	1.3.2.5.5.3	Pockels cells(19mm) sol-gel @532nm	SLAC	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$795.00	\$3,975.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5692	1.3.2.5.5.4	Tilt mounts for pockels cells	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5693	1.3.2.5.5.5	V-block clamps for pockels cells	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5694	1.3.2.5.5.6	6.5 KV pulser	SLAC	M&S	2	0 wks	\$0.00	\$20,000.00	\$0.00	\$20,000.00	\$1,200.00	\$5,300.00	\$26,500.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>20,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$20,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5695	1.3.2.5.5.7	Pockels cell HV feedforward drivers	SLAC	M&S	2	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$600.00	\$2,650.00	\$13,250.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5696	1.3.2.5.5.8	PDU unit (80ns risetime, SCP interface)	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
5697	1.3.2.5.5.9	CAMAC controller	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
5698	1.3.2.5.5.10	Digital delay generators	SLAC	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$1,325.00	\$6,625.00
		SLAC M&S Total		M&S	0	5,000	\$0.00	\$0.00	\$0.00	\$5,000.00	\$0.00	\$0.00	\$0.00
5699	1.3.2.5.5.11	Polarizers, coated for 532 nm (cubes)	SLAC	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$795.00	\$3,975.00
		SLAC M&S Total		M&S	0	3,000	\$0.00	\$0.00	\$0.00	\$3,000.00	\$0.00	\$0.00	\$0.00
5700	1.3.2.5.5.12	Polarizer mounts	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
5701	1.3.2.5.5.13	Waveplates	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
5702	1.3.2.5.5.14	Waveplate mounts	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
5703	1.3.2.5.5.15	Iris	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
5704	1.3.2.5.5.16	Post collars	SLAC	M&S	1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		SLAC M&S Total		M&S	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5705	1.3.2.5.5.17	Post	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
5706	1.3.2.5.5.18	Post holders	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
5707	1.3.2.5.5.19	Post holder bases	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
5708	1.3.2.5.5.20	CCD camera	SLAC	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$795.00	\$3,975.00
		SLAC M&S Total		M&S	0	3,000	\$0.00	\$0.00	\$0.00	\$3,000.00	\$0.00	\$0.00	\$0.00
5709	1.3.2.5.5.21	Planar mirrors/splitters	SLAC	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$1,060.00	\$5,300.00
		SLAC M&S Total		M&S	0	4,000	\$0.00	\$0.00	\$0.00	\$4,000.00	\$0.00	\$0.00	\$0.00
5710	1.3.2.5.5.22	Mirror mounts	SLAC	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$795.00	\$3,975.00
		SLAC M&S Total		M&S	0	3,000	\$0.00	\$0.00	\$0.00	\$3,000.00	\$0.00	\$0.00	\$0.00
5711	1.3.2.5.5.23	Diodes (1 nsec)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
5712	1.3.2.5.5.24	6 GHz photodiodes	SLAC	M&S	1	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$600.00	\$1,590.00	\$12,190.00
		SLAC M&S Total		M&S	0	10,000	\$0.00	\$0.00	\$0.00	\$10,000.00	\$0.00	\$0.00	\$0.00
5713	1.3.2.5.5.25	Power/energy sensors	SLAC	M&S	1	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$795.00	\$6,095.00
		SLAC M&S Total		M&S	0	5,000	\$0.00	\$0.00	\$0.00	\$5,000.00	\$0.00	\$0.00	\$0.00
5714	1.3.2.5.5.26	Power/energy meters	SLAC	M&S	1	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$600.00	\$1,590.00	\$12,190.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5715	1.3.2.5.5.27	Faraday isolator	SLAC	M&S	2	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$420.00	\$1,855.00	\$9,275.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>7,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5716	1.3.2.5.5.28	Isolator mount	SLAC	B&H	2	0.4 wks	\$0.00	\$0.00	\$1,280.00	\$1,280.00	\$256.00	\$384.00	\$1,920.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,280.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5717	1.3.2.5.5.29	Spherical lenses	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5718	1.3.2.5.5.30	Lens mounts	SLAC	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5719	1.3.2.5.5.31	Beam dumps	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5720	1.3.2.5.5.32	Integrate&hold mods (peak detector)	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5721	1.3.2.5.5.33	Beam covers	SLAC	B&H	2	0.4 wks	\$0.00	\$0.00	\$1,280.00	\$1,280.00	\$256.00	\$384.00	\$1,920.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,280.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5722	1.3.2.5.6	Timing Stabilization			0	5 wks	\$0.00	\$195,000.00	\$17,000.00	\$212,000.00	\$15,100.00	\$51,369.00	\$278,469.00
5723	1.3.2.5.6.1	Timing Stabilization	SLAC	ED&I	2	1.25 wks	\$0.00	\$0.00	\$4,250.00	\$4,250.00	\$850.00	\$1,275.00	\$6,375.00
		<i>SLAC Physicist - Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>1.25 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,250.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5724	1.3.2.5.6.1	Timing Stabilization	SLAC	ED&I	2	3.75 wks	\$0.00	\$0.00	\$12,750.00	\$12,750.00	\$2,550.00	\$3,825.00	\$19,125.00
		<i>SLAC Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>3.75 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,750.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5725	1.3.2.5.6.1	Fiber optic link	SLAC	M&S	2	0 wks	\$0.00	\$20,000.00	\$0.00	\$20,000.00	\$1,200.00	\$5,300.00	\$26,500.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>20,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$20,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5726	1.3.2.5.6.2	20 GHz photodiode	SLAC	M&S	1	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$420.00	\$1,113.00	\$8,533.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>7,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5727	1.3.2.5.6.3	Low Pass & Band Pass filters	SLAC	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$1,060.00	\$5,300.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5728	1.3.2.5.6.4	RF amplifier	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5729	1.3.2.5.6.5	Isolator	SLAC	M&S	2	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$600.00	\$2,650.00	\$13,250.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>10,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5730	1.3.2.5.6.6	Phase shifter	SLAC	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$1,060.00	\$5,300.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5731	1.3.2.5.6.7	Double-balanced mixer	SLAC	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$1,060.00	\$5,300.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5732	1.3.2.5.6.8	DC amp, 200V	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5733	1.3.2.5.6.9	DC amp, 10V	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5734	1.3.2.5.6.10	20 GHz sampling scope	SLAC	M&S	1	0 wks	\$0.00	\$44,000.00	\$0.00	\$44,000.00	\$2,640.00	\$6,996.00	\$53,636.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>44,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$44,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5735	1.3.2.5.6.11	DC-3GHz spectrum analyzer	SLAC	M&S	2	0 wks	\$0.00	\$50,000.00	\$0.00	\$50,000.00	\$3,000.00	\$13,250.00	\$66,250.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>50,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$50,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5736	1.3.2.5.6.12	Computer interface	SLAC	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$795.00	\$3,975.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5737	1.3.2.5.6.13	Prism on computer controlled stage	SLAC	M&S	2	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$420.00	\$1,855.00	\$9,275.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>7,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5738	1.3.2.5.6.14	Integrated electro-optic module	SLAC	M&S	2	0 wks	\$0.00	\$7,000.00	\$0.00	\$7,000.00	\$420.00	\$1,855.00	\$9,275.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>7,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5739	1.3.2.5.6.15	Planar mirrors / splitters	SLAC	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$1,590.00	\$7,950.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5740	1.3.2.5.6.16	BPM or res. Cavity	SLAC	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$1,325.00	\$6,625.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5741	1.3.2.5.6.17	S/H meas. Module	SLAC	M&S	2	0 wks	\$0.00	\$20,000.00	\$0.00	\$20,000.00	\$1,200.00	\$5,300.00	\$26,500.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>20,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$20,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5742	1.3.2.5.7	Laser Amplifiers			0	48.15 wks	\$0.00	\$61,000.00	\$161,980.00	\$222,980.00	\$36,056.00	\$62,109.00	\$321,145.00
5743	1.3.2.5.7.1	Laser Amplifiers	SLAC	ED&I	2	28.75 wks	\$0.00	\$0.00	\$97,750.00	\$97,750.00	\$19,550.00	\$29,325.00	\$146,625.00
		<i>SLAC Physicist - Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>28.75 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$97,750.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5744	1.3.2.5.7.1	Laser Amplifiers	SLAC	ED&I	2	17.5 wks	\$0.00	\$0.00	\$59,500.00	\$59,500.00	\$11,900.00	\$17,850.00	\$89,250.00
		<i>SLAC Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>17.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$59,500.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5745	1.3.2.5.7.1	Ti-Sapphire crystals	SLAC	M&S	2	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$480.00	\$2,120.00	\$10,600.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5746	1.3.2.5.7.2	Hor crystal mounts with water cooling	SLAC	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$1,060.00	\$5,300.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5747	1.3.2.5.7.2	Hor crystal mounts with water cooling	SLAC	ED&I	2	1.5 wks	\$0.00	\$0.00	\$3,450.00	\$3,450.00	\$690.00	\$1,035.00	\$5,175.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>1.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,450.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5748	1.3.2.5.7.3	Planar mirrors/splitters	SLAC	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$1,590.00	\$7,950.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5749	1.3.2.5.7.4	Mirror mounts	SLAC	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$1,060.00	\$5,300.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5750	1.3.2.5.7.5	Spherical lenses, f = 1m, coated	SLAC	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$795.00	\$3,975.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5751	1.3.2.5.7.6	Lens mounts	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5752	1.3.2.5.7.7	Pinholes	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5753	1.3.2.5.7.8	Pinhole mounts (with xy translation)	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5754	1.3.2.5.7.9	Alignment irises (on posts)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5755	1.3.2.5.7.10	Post collars	SLAC	M&S	1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5756	1.3.2.5.7.11	Posts	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5757	1.3.2.5.7.12	Post Holders	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5758	1.3.2.5.7.13	Post Holder Bases	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5759	1.3.2.5.7.14	CCD cameras	SLAC	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$1,325.00	\$6,625.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5760	1.3.2.5.7.15	Power/energy sensors	SLAC	M&S	1	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$954.00	\$7,314.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5761	1.3.2.5.7.16	Power/energy meters	SLAC	M&S	1	0 wks	\$0.00	\$13,000.00	\$0.00	\$13,000.00	\$780.00	\$2,067.00	\$15,847.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>13,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$13,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5762	1.3.2.5.7.17	Half waveplates	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5763	1.3.2.5.7.18	Waveplate mounts	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5764	1.3.2.5.7.19	Polarizing cube	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5765	1.3.2.5.7.20	Polarizer cube mount	SLAC	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5766	1.3.2.5.7.21	Beam dumps	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5767	1.3.2.5.7.22	Beam covers	SLAC	B&H	2	0.4 wks	\$0.00	\$0.00	\$1,280.00	\$1,280.00	\$256.00	\$384.00	\$1,920.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,280.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
5768	1.3.2.5.8	Amplifier Diagnostics	SLAC		0	9.5 wks	\$0.00	\$89,200.00	\$32,300.00	\$121,500.00	\$11,812.00	\$29,194.00	\$162,506.00
5769	1.3.2.5.8.1	Amplifier Diagnostics	SLAC	ED&I	2	4.5 wks	\$0.00	\$0.00	\$15,300.00	\$15,300.00	\$3,060.00	\$4,590.00	\$22,950.00
		SLAC Physicist - Scientist		ED&I	0	4.5 wks	\$0.00	\$0.00	\$0.00	\$15,300.00	\$0.00	\$0.00	\$0.00
5770	1.3.2.5.8.1	Amplifier Diagnostics	SLAC	ED&I	2	5 wks	\$0.00	\$0.00	\$17,000.00	\$17,000.00	\$3,400.00	\$5,100.00	\$25,500.00
		SLAC Physicist - Senior Scientist		ED&I	0	5 wks	\$0.00	\$0.00	\$0.00	\$17,000.00	\$0.00	\$0.00	\$0.00
5771	1.3.2.5.8.1	Power/energy meters (2 channel)	SLAC	M&S	1	0 wks	\$0.00	\$13,000.00	\$0.00	\$13,000.00	\$780.00	\$2,067.00	\$15,847.00
		SLAC M&S Total		M&S	0	13,000	\$0.00	\$0.00	\$0.00	\$13,000.00	\$0.00	\$0.00	\$0.00
5772	1.3.2.5.8.2	Power/energy sensors	SLAC	M&S	1	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$954.00	\$7,314.00
		SLAC M&S Total		M&S	0	6,000	\$0.00	\$0.00	\$0.00	\$6,000.00	\$0.00	\$0.00	\$0.00
5773	1.3.2.5.8.3	ND Filter set	SLAC	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$1,590.00	\$7,950.00
		SLAC M&S Total		M&S	0	6,000	\$0.00	\$0.00	\$0.00	\$6,000.00	\$0.00	\$0.00	\$0.00
5774	1.3.2.5.8.4	532 nm filter	SLAC	M&S	2	0 wks	\$0.00	\$100.00	\$0.00	\$100.00	\$6.00	\$26.50	\$132.50
		SLAC M&S Total		M&S	0	100	\$0.00	\$0.00	\$0.00	\$100.00	\$0.00	\$0.00	\$0.00
5775	1.3.2.5.8.5	780 nm filter	SLAC	M&S	2	0 wks	\$0.00	\$100.00	\$0.00	\$100.00	\$6.00	\$26.50	\$132.50
		SLAC M&S Total		M&S	0	100	\$0.00	\$0.00	\$0.00	\$100.00	\$0.00	\$0.00	\$0.00
5776	1.3.2.5.8.6	Filter/attenuator holders	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
5777	1.3.2.5.8.7	Photodiodes (nsec)	SLAC	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$318.00	\$2,438.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
5778	1.3.2.5.8.8	12 GHz photodiode	SLAC	M&S	1	0 wks	\$0.00	\$14,000.00	\$0.00	\$14,000.00	\$840.00	\$2,226.00	\$17,066.00
		SLAC M&S Total		M&S	0	14,000	\$0.00	\$0.00	\$0.00	\$14,000.00	\$0.00	\$0.00	\$0.00
5779	1.3.2.5.8.8	CCD cameras	SLAC	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$1,590.00	\$7,950.00
		SLAC M&S Total		M&S	0	6,000	\$0.00	\$0.00	\$0.00	\$6,000.00	\$0.00	\$0.00	\$0.00
5780	1.3.2.5.8.9	Frame grabber card for PC	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
5781	1.3.2.5.8.10	Labview software	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
5782	1.3.2.5.8.11	Beam analysis software	SLAC	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$795.00	\$3,975.00
		SLAC M&S Total		M&S	0	3,000	\$0.00	\$0.00	\$0.00	\$3,000.00	\$0.00	\$0.00	\$0.00
5783	1.3.2.5.8.12	Planar mirrors/splitters	SLAC	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$1,325.00	\$6,625.00
		SLAC M&S Total		M&S	0	5,000	\$0.00	\$0.00	\$0.00	\$5,000.00	\$0.00	\$0.00	\$0.00
5784	1.3.2.5.8.13	Mirror mounts	SLAC	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$795.00	\$3,975.00
		SLAC M&S Total		M&S	0	3,000	\$0.00	\$0.00	\$0.00	\$3,000.00	\$0.00	\$0.00	\$0.00
5785	1.3.2.5.8.14	FROG (ir)	SLAC	M&S	2	0 wks	\$0.00	\$21,000.00	\$0.00	\$21,000.00	\$1,260.00	\$5,565.00	\$27,825.00
		SLAC M&S Total		M&S	0	21,000	\$0.00	\$0.00	\$0.00	\$21,000.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
5786	1.3.2.5.8.15	PC (FROG analyses)	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5787	1.3.2.5.8.16	Alignment irises	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5788	1.3.2.5.8.17	Post collars	SLAC	M&S	1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5789	1.3.2.5.8.18	Posts	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5790	1.3.2.5.8.19	Post holders	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5791	1.3.2.5.8.20	Post holder bases	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5792	1.3.2.5.9	Vacuum Spatial Filters			0	3.15 wks	\$0.00	\$26,000.00	\$10,630.00	\$36,630.00	\$3,686.00	\$9,559.60	\$49,875.60
5793	1.3.2.5.9.1	Vacuum Spatial Filters	SLAC	ED&I	2	1.5 wks	\$0.00	\$0.00	\$5,100.00	\$5,100.00	\$1,020.00	\$1,530.00	\$7,650.00
		<i>SLAC Physicist -Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>1.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,100.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5794	1.3.2.5.9.1	Vacuum Spatial Filters	SLAC	ED&I	2	1.25 wks	\$0.00	\$0.00	\$4,250.00	\$4,250.00	\$850.00	\$1,275.00	\$6,375.00
		<i>SLAC Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>1.25 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,250.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5795	1.3.2.5.9.1	Lenses, f – 0.5 m, AR coated	SLAC	M&S	1	0 wks	\$0.00	\$600.00	\$0.00	\$600.00	\$36.00	\$95.40	\$731.40
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>600</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5796	1.3.2.5.9.2	Vacuum tubing, 1.5" dia, 16", flanged (includes pinhole viewport)	SLAC	M&S	1	0 wks	\$0.00	\$400.00	\$0.00	\$400.00	\$24.00	\$63.60	\$487.60
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>400</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5797	1.3.2.5.9.3	Vacuum welded bellows	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5798	1.3.2.5.9.4	Diamond pinholes, mounted	SLAC	M&S	2	0 wks	\$0.00	\$300.00	\$0.00	\$300.00	\$18.00	\$79.50	\$397.50
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>300</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$300.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5799	1.3.2.5.9.5	XYZ mounts, 1 in travel	SLAC	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$1,060.00	\$5,300.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>4,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5800	1.3.2.5.9.6	Diode vacuum pumps 8 l/s	SLAC	M&S	2	0 wks	\$0.00	\$1,800.00	\$0.00	\$1,800.00	\$108.00	\$477.00	\$2,385.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,800</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5801	1.3.2.5.9.7	Ion-pump controller and cable	SLAC	M&S	1	0 wks	\$0.00	\$2,800.00	\$0.00	\$2,800.00	\$168.00	\$445.20	\$3,413.20
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,800</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5802	1.3.2.5.9.8	Rack-mount, setpoint display, pumps	SLAC	M&S	1	0 wks	\$0.00	\$1,100.00	\$0.00	\$1,100.00	\$66.00	\$174.90	\$1,340.90
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,100</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,100.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5803	1.3.2.5.9.9	Turbo roughing and support pump	SLAC	M&S	2	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$480.00	\$2,120.00	\$10,600.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
5804	1.3.2.5.9.10	Misc vacuum hardware	SLAC	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$1,325.00	\$6,625.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>5,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5805	1.3.2.5.9.11	Vacuum windows (AR coated for 780 nm)	SLAC	M&S	2	0 wks	\$0.00	\$400.00	\$0.00	\$400.00	\$24.00	\$106.00	\$530.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>400</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5806	1.3.2.5.9.12	Lens mounts	SLAC	M&S	2	0 wks	\$0.00	\$600.00	\$0.00	\$600.00	\$36.00	\$159.00	\$795.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>600</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5807	1.3.2.5.9.13	Beam covers	SLAC	B&H	2	0.4 wks	\$0.00	\$0.00	\$1,280.00	\$1,280.00	\$256.00	\$384.00	\$1,920.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>0.4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,280.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5808	1.3.2.5.9.13	Beam covers	SLAC	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5809	1.3.2.5.10	High Power Pulse Compressor				4 wks	\$0.00	\$7,700.00	\$13,600.00	\$21,300.00	\$3,182.00	\$5,675.30	\$30,157.30
5810	1.3.2.5.10.1	High Power Pulse Compressor	SLAC	ED&I	2	2 wks	\$0.00	\$0.00	\$6,800.00	\$6,800.00	\$1,360.00	\$2,040.00	\$10,200.00
		<i>SLAC Physicist - Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5811	1.3.2.5.10.1	High Power Pulse Compressor	SLAC	ED&I	2	2 wks	\$0.00	\$0.00	\$6,800.00	\$6,800.00	\$1,360.00	\$2,040.00	\$10,200.00
		<i>SLAC Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5812	1.3.2.5.10.1	Gratings, 2x4 in, 1700 l/mm, 780 nm	SLAC	M&S	1	0 wks	\$0.00	\$1,200.00	\$0.00	\$1,200.00	\$72.00	\$190.80	\$1,462.80
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,200</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5813	1.3.2.5.10.2	Grating mounts with tip/tilt/azim knobs	SLAC	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$318.00	\$2,438.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5814	1.3.2.5.10.3	Prisms, 3x3 in, coated 780 nm	SLAC	M&S	2	0 wks	\$0.00	\$1,500.00	\$0.00	\$1,500.00	\$90.00	\$397.50	\$1,987.50
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,500</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,500.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5815	1.3.2.5.10.4	Prism mounts with tip/tilt	SLAC	M&S	2	0 wks	\$0.00	\$500.00	\$0.00	\$500.00	\$30.00	\$132.50	\$662.50
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>500</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$500.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5816	1.3.2.5.10.5	Translation stages with micrometer	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5817	1.3.2.5.10.6	Optical rail (24 inch)	SLAC	M&S	2	0 wks	\$0.00	\$300.00	\$0.00	\$300.00	\$18.00	\$79.50	\$397.50
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>300</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$300.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5818	1.3.2.5.10.7	Planar mirrors/splitters	SLAC	M&S	1	0 wks	\$0.00	\$600.00	\$0.00	\$600.00	\$36.00	\$95.40	\$731.40
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>600</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$600.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5819	1.3.2.5.10.8	Mirror mounts	SLAC	M&S	1	0 wks	\$0.00	\$400.00	\$0.00	\$400.00	\$24.00	\$63.60	\$487.60
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>400</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5820	1.3.2.5.10.9	Alignment irises	SLAC	M&S	2	0 wks	\$0.00	\$200.00	\$0.00	\$200.00	\$12.00	\$53.00	\$265.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>200</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5821	1.3.2.5.10.10	Post collars	SLAC	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
5822	1.3.2.5.10.11	Posts	SLAC	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5823	1.3.2.5.10.12	Post Holders	SLAC	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5824	1.3.2.5.10.13	Post Holder Bases	SLAC	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5825	1.3.2.5.10.14	Beam covers	SLAC	B&H	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>0 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5826	1.3.2.5.11	Optical Transport			0	7.5 wks	\$0.00	\$22,000.00	\$25,500.00	\$47,500.00	\$6,420.00	\$13,056.00	\$66,976.00
5827	1.3.2.5.11.1	Optical Transport	SLAC	ED&I	2	2.5 wks	\$0.00	\$0.00	\$8,500.00	\$8,500.00	\$1,700.00	\$2,550.00	\$12,750.00
		<i>SLAC Physicist - Senior Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>2.5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,500.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5828	1.3.2.5.11.1	Optical Transport	SLAC	ED&I	2	5 wks	\$0.00	\$0.00	\$17,000.00	\$17,000.00	\$3,400.00	\$5,100.00	\$25,500.00
		<i>SLAC Physicist - Scientist</i>		<i>ED&I</i>	<i>0</i>	<i>5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$17,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5829	1.3.2.5.11.1	Spherical Lenses (uv)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5830	1.3.2.5.11.2	Transport tube windows	SLAC	M&S	1	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$318.00	\$2,438.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5831	1.3.2.5.11.3	Diode vacuum pump	SLAC	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$795.00	\$3,975.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5832	1.3.2.5.11.4	Ion pump controller and cable	SLAC	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$795.00	\$3,975.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5833	1.3.2.5.11.5	Misc vacuum hardware	SLAC	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5834	1.3.2.5.11.6	Drilling penetration	SLAC	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5835	1.3.2.5.11.7	Installation of transport tube	SLAC	M&S	1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5836	1.3.2.5.11.8	Spherical lenses - (green)	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5837	1.3.2.5.11.9	Spherical lenses (ir)	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5838	1.3.2.5.11.10	Spherical lens mounts	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5839	1.3.2.5.11.11	Planar mirrors/splitters	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>2,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
5840	1.3.2.5.11.12	Mirror mounts	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
5841	1.3.2.5.11.13	Power/energy sensor	SLAC	M&S	2	0 wks	\$0.00	\$2,000.00	\$0.00	\$2,000.00	\$120.00	\$530.00	\$2,650.00
		SLAC M&S Total		M&S	0	2,000	\$0.00	\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00
5842	1.3.2.5.11.14	Power/energy meter (2 ch)	SLAC	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$1,060.00	\$5,300.00
		SLAC M&S Total		M&S	0	4,000	\$0.00	\$0.00	\$0.00	\$4,000.00	\$0.00	\$0.00	\$0.00
5843	1.3.2.5.11.15	Posts	SLAC	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		SLAC M&S Total		M&S	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5844	1.3.2.5.11.16	Post Holders	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		SLAC M&S Total		M&S	0	1,000	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00
5845	1.3.2.5.11.17	Post Holder Bases	SLAC	M&S	1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		SLAC M&S Total		M&S	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5846	1.3.2.5.11.18	Alignment irises	SLAC	M&S	1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		SLAC M&S Total		M&S	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5847	1.3.2.5.11.19	Post collars	SLAC	M&S	1	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		SLAC M&S Total		M&S	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5848	1.3.2.5.12	Laser Support Systems & Miscellaneous Items			0	4 wks	\$0.00	\$133,000.00	\$10,397.60	\$143,397.60	\$10,059.52	\$38,046.28	\$191,503.40
5849	1.3.2.5.12.1	Optical tables for clean room	SLAC	M&S	2	0 wks	\$0.00	\$42,000.00	\$0.00	\$42,000.00	\$2,520.00	\$11,130.00	\$55,650.00
		SLAC M&S Total		M&S	0	42,000	\$0.00	\$0.00	\$0.00	\$42,000.00	\$0.00	\$0.00	\$0.00
5850	1.3.2.5.12.2	Table enclosures	SLAC	M&S	2	0 wks	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$300.00	\$1,325.00	\$6,625.00
		SLAC M&S Total		M&S	0	5,000	\$0.00	\$0.00	\$0.00	\$5,000.00	\$0.00	\$0.00	\$0.00
5851	1.3.2.5.12.3	Optical table next to the RF gun	SLAC	M&S	2	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$795.00	\$3,975.00
		SLAC M&S Total		M&S	0	3,000	\$0.00	\$0.00	\$0.00	\$3,000.00	\$0.00	\$0.00	\$0.00
5852	1.3.2.5.12.4	Support and enclosure for breadboard	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$6,400.00	\$6,400.00	\$1,280.00	\$1,920.00	\$9,600.00
		SLAC Mech. Fab: Machine Shop		B&H	0	2 wks	\$0.00	\$0.00	\$0.00	\$6,400.00	\$0.00	\$0.00	\$0.00
5853	1.3.2.5.12.5	Racks and other furniture	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$3,997.60	\$3,997.60	\$799.52	\$1,199.28	\$5,996.40
		SLAC Mech. Fab: Assembly Tech		B&H	0	2 wks	\$0.00	\$0.00	\$0.00	\$3,997.60	\$0.00	\$0.00	\$0.00
5854	1.3.2.5.12.7	Elevated instrumentation shelves (on optical tables)	SLAC	M&S	2	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$480.00	\$2,120.00	\$10,600.00
		SLAC M&S Total		M&S	0	8,000	\$0.00	\$0.00	\$0.00	\$8,000.00	\$0.00	\$0.00	\$0.00
5855	1.3.2.5.12.8	Vidmar cabinets (Stanley)	SLAC	M&S	2	0 wks	\$0.00	\$12,000.00	\$0.00	\$12,000.00	\$720.00	\$3,180.00	\$15,900.00
		SLAC M&S Total		M&S	0	12,000	\$0.00	\$0.00	\$0.00	\$12,000.00	\$0.00	\$0.00	\$0.00
5856	1.3.2.5.12.9	Tool set and box	SLAC	M&S	2	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$600.00	\$2,650.00	\$13,250.00
		SLAC M&S Total		M&S	0	10,000	\$0.00	\$0.00	\$0.00	\$10,000.00	\$0.00	\$0.00	\$0.00
5857	1.3.2.5.12.10	IR viewers	SLAC	M&S	2	0 wks	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$240.00	\$1,060.00	\$5,300.00
		SLAC M&S Total		M&S	0	4,000	\$0.00	\$0.00	\$0.00	\$4,000.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
5858	1.3.2.5.12.11	Microscope (stereo)	SLAC	M&S	2	0 wks	\$0.00	\$38,000.00	\$0.00	\$38,000.00	\$2,280.00	\$10,070.00	\$50,350.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>38,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$38,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5859	1.3.2.5.12.12	IR sensor cards	SLAC	M&S	1	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$477.00	\$3,657.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5860	1.3.2.5.12.13	Latex gloves & finger cots	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5861	1.3.2.5.12.14	Microdusters	SLAC	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5862	1.3.2.5.12.15	Solvents	SLAC	M&S	2	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$1,590.00	\$7,950.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>6,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5863	1.3.2.5.12.16	Clean room attire (hats, smocks, booties)	SLAC	M&S	2	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$265.00	\$1,325.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5864	1.3.2.5.12.17	UV diagnostic paper & lens tissue	SLAC	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5865	1.3.2.5.12.18	Burn paper	SLAC	M&S	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>0</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5866	1.3.2.6	PPS/MPS Systems			0	132 wks	\$0.00	\$294,000.00	\$281,974.40	\$575,974.40	\$74,034.88	\$106,657.12	\$756,666.40
5867	1.3.2.6.1	PPS System			0	83 wks	\$0.00	\$144,000.00	\$172,854.40	\$316,854.40	\$43,210.88	\$73,268.32	\$433,333.60
5868	1.3.2.6.1.1	Control Racks	SLAC		0	22 wks	\$0.00	\$8,000.00	\$50,176.00	\$58,176.00	\$10,515.20	\$15,052.80	\$83,744.00
5869	1.3.2.6.1.1	Control Racks	SLAC	M&S	0	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$480.00	\$0.00	\$8,480.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>8,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5870	1.3.2.6.1.1	Fabrication	SLAC	B&H	2	6 wks	\$0.00	\$0.00	\$10,521.60	\$10,521.60	\$2,104.32	\$3,156.48	\$15,782.40
		<i>SLAC PCD:Technician</i>		<i>B&H</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,521.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5871	1.3.2.6.1.1	Installation	SLAC	B&H	2	12 wks	\$0.00	\$0.00	\$32,640.00	\$32,640.00	\$6,528.00	\$9,792.00	\$48,960.00
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>12 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$32,640.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5872	1.3.2.6.1.1	Test	SLAC	B&H	2	4 wks	\$0.00	\$0.00	\$7,014.40	\$7,014.40	\$1,402.88	\$2,104.32	\$10,521.60
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$7,014.40</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5873	1.3.2.6.1.2	HPS Control	SLAC		0	18 wks	\$0.00	\$64,000.00	\$32,777.60	\$96,777.60	\$10,395.52	\$26,793.28	\$133,966.40
5874	1.3.2.6.1.2	HPS Control	SLAC	M&S	2	0 wks	\$0.00	\$64,000.00	\$0.00	\$64,000.00	\$3,840.00	\$16,960.00	\$84,800.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>64,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$64,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5875	1.3.2.6.1.2	Fabrication	SLAC	B&H	2	15 wks	\$0.00	\$0.00	\$26,304.00	\$26,304.00	\$5,260.80	\$7,891.20	\$39,456.00
		<i>SLAC PCD:Technician</i>		<i>B&H</i>	<i>0</i>	<i>15 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$26,304.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5876	1.3.2.6.1.2	Installation	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$4,720.00	\$4,720.00	\$944.00	\$1,416.00	\$7,080.00
		<i>SLAC T&M Crafts - Union Equip. Op.</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$4,720.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5877	1.3.2.6.1.2	Test	SLAC	B&H	2	1 wk	\$0.00	\$0.00	\$1,753.60	\$1,753.60	\$350.72	\$526.08	\$2,630.40

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,753.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5878	1.3.2.6.1.3	HPS Fan-in	SLAC		0	8 wks	\$0.00	\$12,000.00	\$14,995.20	\$26,995.20	\$3,719.04	\$8,950.56	\$39,664.80
5879	1.3.2.6.1.3	HPS Fan-in	SLAC	M&S	3	0 wks	\$0.00	\$12,000.00	\$0.00	\$12,000.00	\$720.00	\$4,452.00	\$17,172.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>12,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5880	1.3.2.6.1.3	Fabrication	SLAC	B&H	2	6 wks	\$0.00	\$0.00	\$10,521.60	\$10,521.60	\$2,104.32	\$3,156.48	\$15,782.40
		<i>SLAC PCD:Technician</i>		<i>B&H</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,521.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5881	1.3.2.6.1.3	Installation	SLAC	B&H	2	1 wk	\$0.00	\$0.00	\$2,720.00	\$2,720.00	\$544.00	\$816.00	\$4,080.00
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,720.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5882	1.3.2.6.1.3	Test	SLAC	B&H	2	1 wk	\$0.00	\$0.00	\$1,753.60	\$1,753.60	\$350.72	\$526.08	\$2,630.40
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,753.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5883	1.3.2.6.1.4	PPS Junction Box	SLAC		0	11 wks	\$0.00	\$12,000.00	\$23,155.20	\$35,155.20	\$5,351.04	\$6,946.56	\$47,452.80
5884	1.3.2.6.1.4	PPS Junction Box	SLAC	M&S	0	0 wks	\$0.00	\$12,000.00	\$0.00	\$12,000.00	\$720.00	\$0.00	\$12,720.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>12,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5885	1.3.2.6.1.4	Fabrication	SLAC	B&H	2	6 wks	\$0.00	\$0.00	\$10,521.60	\$10,521.60	\$2,104.32	\$3,156.48	\$15,782.40
		<i>SLAC PCD:Technician</i>		<i>B&H</i>	<i>0</i>	<i>6 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,521.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5886	1.3.2.6.1.4	Installation	SLAC	B&H	2	4 wks	\$0.00	\$0.00	\$10,880.00	\$10,880.00	\$2,176.00	\$3,264.00	\$16,320.00
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$10,880.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5887	1.3.2.6.1.4	Test	SLAC	B&H	2	1 wk	\$0.00	\$0.00	\$1,753.60	\$1,753.60	\$350.72	\$526.08	\$2,630.40
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,753.60</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5888	1.3.2.6.1.5	Search Reset System	SLAC		0	7 wks	\$0.00	\$20,000.00	\$15,174.40	\$35,174.40	\$4,234.88	\$4,552.32	\$43,961.60
5889	1.3.2.6.1.5	Search Reset System	SLAC	M&S	0	0 wks	\$0.00	\$20,000.00	\$0.00	\$20,000.00	\$1,200.00	\$0.00	\$21,200.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>20,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$20,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5890	1.3.2.6.1.5	Fabrication	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$3,507.20	\$3,507.20	\$701.44	\$1,052.16	\$5,260.80
		<i>SLAC PCD:Technician</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,507.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5891	1.3.2.6.1.5	Installation	SLAC	B&H	2	3 wks	\$0.00	\$0.00	\$8,160.00	\$8,160.00	\$1,632.00	\$2,448.00	\$12,240.00
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>3 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,160.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5892	1.3.2.6.1.5	Test	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$3,507.20	\$3,507.20	\$701.44	\$1,052.16	\$5,260.80
		<i>SLAC Controls: Technician</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,507.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5893	1.3.2.6.1.6	Burn Thru Monitor	SLAC		0	4 wks	\$0.00	\$12,000.00	\$8,947.20	\$20,947.20	\$2,509.44	\$2,684.16	\$26,140.80
5894	1.3.2.6.1.6	Burn Thru Monitor	SLAC	M&S	0	0 wks	\$0.00	\$12,000.00	\$0.00	\$12,000.00	\$720.00	\$0.00	\$12,720.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>12,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$12,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5895	1.3.2.6.1.6	Fabrication	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$3,507.20	\$3,507.20	\$701.44	\$1,052.16	\$5,260.80
		<i>SLAC PCD:Technician</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,507.20</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5896	1.3.2.6.1.6	Installation	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$5,440.00	\$5,440.00	\$1,088.00	\$1,632.00	\$8,160.00
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>2 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,440.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
5897	1.3.2.6.1.6	Test	SLAC	B&H	2	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		SLAC Controls: Technician		B&H	0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5898	1.3.2.6.1.7	Hutch Summary	SLAC		0	6 wks	\$0.00	\$6,000.00	\$11,488.00	\$17,488.00	\$2,657.60	\$3,446.40	\$23,592.00
5899	1.3.2.6.1.7	Hutch Summary	SLAC	M&S	0	0 wks	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$360.00	\$0.00	\$6,360.00
		SLAC M&S Total		M&S	0	6,000	\$0.00	\$0.00	\$0.00	\$6,000.00	\$0.00	\$0.00	\$0.00
5900	1.3.2.6.1.7	Fabrication	SLAC	B&H	2	4 wks	\$0.00	\$0.00	\$7,014.40	\$7,014.40	\$1,402.88	\$2,104.32	\$10,521.60
		SLAC PCD:Technician		B&H	0	4 wks	\$0.00	\$0.00	\$0.00	\$7,014.40	\$0.00	\$0.00	\$0.00
5901	1.3.2.6.1.7	Installation	SLAC	B&H	2	1 wk	\$0.00	\$0.00	\$2,720.00	\$2,720.00	\$544.00	\$816.00	\$4,080.00
		SLAC T&M Crafts - Union Electrician		B&H	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,720.00	\$0.00	\$0.00	\$0.00
5902	1.3.2.6.1.7	Test	SLAC	B&H	2	1 wk	\$0.00	\$0.00	\$1,753.60	\$1,753.60	\$350.72	\$526.08	\$2,630.40
		SLAC Controls: Technician		B&H	0	1 wk	\$0.00	\$0.00	\$0.00	\$1,753.60	\$0.00	\$0.00	\$0.00
5903	1.3.2.6.1.8	Pneumatic Controls	SLAC		0	7 wks	\$0.00	\$10,000.00	\$16,140.80	\$26,140.80	\$3,828.16	\$4,842.24	\$34,811.20
5904	1.3.2.6.1.8	Pneumatic Controls	SLAC	M&S	0	0 wks	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$600.00	\$0.00	\$10,600.00
		SLAC M&S Total		M&S	0	10,000	\$0.00	\$0.00	\$0.00	\$10,000.00	\$0.00	\$0.00	\$0.00
5905	1.3.2.6.1.8	Fabrication	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$3,507.20	\$3,507.20	\$701.44	\$1,052.16	\$5,260.80
		SLAC PCD:Technician		B&H	0	2 wks	\$0.00	\$0.00	\$0.00	\$3,507.20	\$0.00	\$0.00	\$0.00
5906	1.3.2.6.1.8	Installation	SLAC	B&H	2	4 wks	\$0.00	\$0.00	\$10,880.00	\$10,880.00	\$2,176.00	\$3,264.00	\$16,320.00
		SLAC T&M Crafts - Union Electrician		B&H	0	4 wks	\$0.00	\$0.00	\$0.00	\$10,880.00	\$0.00	\$0.00	\$0.00
5907	1.3.2.6.1.8	Test	SLAC	B&H	2	1 wk	\$0.00	\$0.00	\$1,753.60	\$1,753.60	\$350.72	\$526.08	\$2,630.40
		SLAC Controls: Technician		B&H	0	1 wk	\$0.00	\$0.00	\$0.00	\$1,753.60	\$0.00	\$0.00	\$0.00
5908	1.3.2.6.2	MPS System			0	49 wks	\$0.00	\$150,000.00	\$109,120.00	\$259,120.00	\$30,824.00	\$33,388.80	\$323,332.80
5909	1.3.2.6.2.1	Control Racks	SLAC		2	22 wks	\$0.00	\$8,000.00	\$50,176.00	\$58,176.00	\$10,515.20	\$15,052.80	\$83,744.00
5910	1.3.2.6.2.1	Control Racks	SLAC	M&S	0	0 wks	\$0.00	\$8,000.00	\$0.00	\$8,000.00	\$480.00	\$0.00	\$8,480.00
		SLAC M&S Total		M&S	0	8,000	\$0.00	\$0.00	\$0.00	\$8,000.00	\$0.00	\$0.00	\$0.00
5911	1.3.2.6.2.1	Fabrication	SLAC	B&H	2	6 wks	\$0.00	\$0.00	\$10,521.60	\$10,521.60	\$2,104.32	\$3,156.48	\$15,782.40
		SLAC PCD:Technician		B&H	0	6 wks	\$0.00	\$0.00	\$0.00	\$10,521.60	\$0.00	\$0.00	\$0.00
5912	1.3.2.6.2.1	Installation	SLAC	B&H	2	12 wks	\$0.00	\$0.00	\$32,640.00	\$32,640.00	\$6,528.00	\$9,792.00	\$48,960.00
		SLAC T&M Crafts - Union Electrician		B&H	0	12 wks	\$0.00	\$0.00	\$0.00	\$32,640.00	\$0.00	\$0.00	\$0.00
5913	1.3.2.6.2.1	Test	SLAC	B&H	2	4 wks	\$0.00	\$0.00	\$7,014.40	\$7,014.40	\$1,402.88	\$2,104.32	\$10,521.60
		SLAC Controls: Technician		B&H	0	4 wks	\$0.00	\$0.00	\$0.00	\$7,014.40	\$0.00	\$0.00	\$0.00
5914	1.3.2.6.2.2	PLC CONTROLS	SLAC		2	14 wks	\$0.00	\$60,000.00	\$30,348.80	\$90,348.80	\$9,669.76	\$9,104.64	\$109,123.20
5915	1.3.2.6.2.2	PLC Controld	SLAC	M&S	0	0 wks	\$0.00	\$60,000.00	\$0.00	\$60,000.00	\$3,600.00	\$0.00	\$63,600.00
		SLAC M&S Total		M&S	0	60,000	\$0.00	\$0.00	\$0.00	\$60,000.00	\$0.00	\$0.00	\$0.00
5916	1.3.2.6.2.2	Fabrication	SLAC	B&H	2	6 wks	\$0.00	\$0.00	\$10,521.60	\$10,521.60	\$2,104.32	\$3,156.48	\$15,782.40
		SLAC PCD:Technician		B&H	0	6 wks	\$0.00	\$0.00	\$0.00	\$10,521.60	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
5917	1.3.2.6.2.2	Installation	SLAC	B&H	2	6 wks	\$0.00	\$0.00	\$16,320.00	\$16,320.00	\$3,264.00	\$4,896.00	\$24,480.00
		SLAC T&M Crafts - Union Electrician		B&H	0	6 wks	\$0.00	\$0.00	\$0.00	\$16,320.00	\$0.00	\$0.00	\$0.00
5918	1.3.2.6.2.2	Test	SLAC	B&H	2	2 wks	\$0.00	\$0.00	\$3,507.20	\$3,507.20	\$701.44	\$1,052.16	\$5,260.80
		SLAC Controls: Technician		B&H	0	2 wks	\$0.00	\$0.00	\$0.00	\$3,507.20	\$0.00	\$0.00	\$0.00
5919	1.3.2.6.2.3	VACUUM MONITORING	SLAC		2	4 wks	\$0.00	\$70,000.00	\$8,947.20	\$78,947.20	\$5,989.44	\$3,336.96	\$88,273.60
5920	1.3.2.6.2.3	Vacuum Monitoring	SLAC	M&S	0	0 wks	\$0.00	\$70,000.00	\$0.00	\$70,000.00	\$4,200.00	\$0.00	\$74,200.00
		SLAC M&S Total		M&S	0	70,000	\$0.00	\$0.00	\$0.00	\$70,000.00	\$0.00	\$0.00	\$0.00
5921	1.3.2.6.2.3	Fabrication	SLAC	B&H	2	1 wk	\$0.00	\$0.00	\$1,753.60	\$1,753.60	\$350.72	\$526.08	\$2,630.40
		SLAC PCD:Technician		B&H	0	1 wk	\$0.00	\$0.00	\$0.00	\$1,753.60	\$0.00	\$0.00	\$0.00
5922	1.3.2.6.2.3	Installation	SLAC	B&H	3	2 wks	\$0.00	\$0.00	\$5,440.00	\$5,440.00	\$1,088.00	\$2,284.80	\$8,812.80
		SLAC T&M Crafts - Union Electrician		B&H	0	2 wks	\$0.00	\$0.00	\$0.00	\$5,440.00	\$0.00	\$0.00	\$0.00
5923	1.3.2.6.2.3	Test	SLAC	B&H	2	1 wk	\$0.00	\$0.00	\$1,753.60	\$1,753.60	\$350.72	\$526.08	\$2,630.40
		SLAC Controls: Technician		B&H	0	1 wk	\$0.00	\$0.00	\$0.00	\$1,753.60	\$0.00	\$0.00	\$0.00
5924	1.3.2.6.2.4	PNEUMATICS	SLAC		2	9 wks	\$0.00	\$12,000.00	\$19,648.00	\$31,648.00	\$4,649.60	\$5,894.40	\$42,192.00
5925	1.3.2.6.2.4	Pneumatics	SLAC	M&S	0	0 wks	\$0.00	\$12,000.00	\$0.00	\$12,000.00	\$720.00	\$0.00	\$12,720.00
		SLAC M&S Total		M&S	0	12,000	\$0.00	\$0.00	\$0.00	\$12,000.00	\$0.00	\$0.00	\$0.00
5926	1.3.2.6.2.4	Fabrication	SLAC	B&H	2	4 wks	\$0.00	\$0.00	\$7,014.40	\$7,014.40	\$1,402.88	\$2,104.32	\$10,521.60
		SLAC PCD:Technician		B&H	0	4 wks	\$0.00	\$0.00	\$0.00	\$7,014.40	\$0.00	\$0.00	\$0.00
5927	1.3.2.6.2.4	Installation	SLAC	B&H	2	4 wks	\$0.00	\$0.00	\$10,880.00	\$10,880.00	\$2,176.00	\$3,264.00	\$16,320.00
		SLAC T&M Crafts - Union Electrician		B&H	0	4 wks	\$0.00	\$0.00	\$0.00	\$10,880.00	\$0.00	\$0.00	\$0.00
5928	1.3.2.6.2.4	Test	SLAC	B&H	2	1 wk	\$0.00	\$0.00	\$1,753.60	\$1,753.60	\$350.72	\$526.08	\$2,630.40
		SLAC Controls: Technician		B&H	0	1 wk	\$0.00	\$0.00	\$0.00	\$1,753.60	\$0.00	\$0.00	\$0.00
5929	1.3.3	Installation & Alignment			0	84 wks	\$0.00	\$0.00	\$182,153.80	\$182,153.80	\$36,430.76	\$76,504.60	\$295,089.16
5930	1.3.3.1	Overall survey			0	26 wks	\$0.00	\$0.00	\$59,280.00	\$59,280.00	\$11,856.00	\$24,897.60	\$96,033.60
5931	1.3.3.1.1	locate monuments	SLAC	B&H	3	26 wks	\$0.00	\$0.00	\$59,280.00	\$59,280.00	\$11,856.00	\$24,897.60	\$96,033.60
		SLAC Metrology:Eng.& Surveyors		B&H	0	26 wks	\$0.00	\$0.00	\$0.00	\$59,280.00	\$0.00	\$0.00	\$0.00
5932	1.3.3.2	Componenet stand			0	25.5 wks	\$0.00	\$0.00	\$50,969.40	\$50,969.40	\$10,193.88	\$21,407.15	\$82,570.43
5933	1.3.3.2.1	layout hole pattern	SLAC	B&H	3	3 wks	\$0.00	\$0.00	\$5,996.40	\$5,996.40	\$1,199.28	\$2,518.49	\$9,714.17
		SLAC Mech. Fab: Assembly Tech		B&H	0	3 wks	\$0.00	\$0.00	\$0.00	\$5,996.40	\$0.00	\$0.00	\$0.00
5934	1.3.3.2.2	check hole pattern	SLAC	B&H	3	2.5 wks	\$0.00	\$0.00	\$4,997.00	\$4,997.00	\$999.40	\$2,098.74	\$8,095.14
		SLAC Mech. Fab: Assembly Tech		B&H	0	2.5 wks	\$0.00	\$0.00	\$0.00	\$4,997.00	\$0.00	\$0.00	\$0.00
5935	1.3.3.2.3	drill holes-insert anchors	SLAC	B&H	3	13 wks	\$0.00	\$0.00	\$25,984.40	\$25,984.40	\$5,196.88	\$10,913.45	\$42,094.73
		SLAC Mech. Fab: Assembly Tech		B&H	0	13 wks	\$0.00	\$0.00	\$0.00	\$25,984.40	\$0.00	\$0.00	\$0.00
5936	1.3.3.2.4	move in, level bolt	SLAC	B&H	3	7 wks	\$0.00	\$0.00	\$13,991.60	\$13,991.60	\$2,798.32	\$5,876.47	\$22,666.39
		SLAC Mech. Fab: Assembly Tech		B&H	0	7 wks	\$0.00	\$0.00	\$0.00	\$13,991.60	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
5937	1.3.3.3	Vacuum tank			0	23 wks	\$0.00	\$0.00	\$48,739.60	\$48,739.60	\$9,747.92	\$20,470.63	\$78,958.15
5938	1.3.3.3.1	alignment	SLAC	ED&I	3	1 wk	\$0.00	\$0.00	\$3,360.00	\$3,360.00	\$672.00	\$1,411.20	\$5,443.20
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$3,360.00	\$0.00	\$0.00	\$0.00
5939	1.3.3.3.2	alignment	SLAC	B&H	3	5 wks	\$0.00	\$0.00	\$11,400.00	\$11,400.00	\$2,280.00	\$4,788.00	\$18,468.00
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	0	5 wks	\$0.00	\$0.00	\$0.00	\$11,400.00	\$0.00	\$0.00	\$0.00
5940	1.3.3.3.3	connect/purge	SLAC	B&H	3	8.5 wks	\$0.00	\$0.00	\$16,989.80	\$16,989.80	\$3,397.96	\$7,135.72	\$27,523.48
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	8.5 wks	\$0.00	\$0.00	\$0.00	\$16,989.80	\$0.00	\$0.00	\$0.00
5941	1.3.3.3.4	pump start/leak check	SLAC	B&H	3	8.5 wks	\$0.00	\$0.00	\$16,989.80	\$16,989.80	\$3,397.96	\$7,135.72	\$27,523.48
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	8.5 wks	\$0.00	\$0.00	\$0.00	\$16,989.80	\$0.00	\$0.00	\$0.00
5942	1.3.3.4	Optical element align			0	6 wks	\$0.00	\$0.00	\$14,644.80	\$14,644.80	\$2,928.96	\$6,150.82	\$23,724.58
5943	1.3.3.4.1	alignment	SLAC	ED&I	3	0.5 wks	\$0.00	\$0.00	\$1,446.60	\$1,446.60	\$289.32	\$607.57	\$2,343.49
		<i>SLAC Klystron: Engineer</i>		<i>ED&I</i>	0	0.5 wks	\$0.00	\$0.00	\$0.00	\$1,446.60	\$0.00	\$0.00	\$0.00
5944	1.3.3.4.2	alignment	SLAC	B&H	3	2 wks	\$0.00	\$0.00	\$4,560.00	\$4,560.00	\$912.00	\$1,915.20	\$7,387.20
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	0	2 wks	\$0.00	\$0.00	\$0.00	\$4,560.00	\$0.00	\$0.00	\$0.00
5945	1.3.3.4.3	alignment	SLAC	B&H	3	1 wk	\$0.00	\$0.00	\$1,998.80	\$1,998.80	\$399.76	\$839.50	\$3,238.06
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$1,998.80	\$0.00	\$0.00	\$0.00
5946	1.3.3.4.4	calibrate/limits	SLAC	ED&I	3	1 wk	\$0.00	\$0.00	\$3,360.00	\$3,360.00	\$672.00	\$1,411.20	\$5,443.20
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$3,360.00	\$0.00	\$0.00	\$0.00
5947	1.3.3.4.5	calibrate/limits	SLAC	B&H	3	1 wk	\$0.00	\$0.00	\$2,280.00	\$2,280.00	\$456.00	\$957.60	\$3,693.60
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	0	1 wk	\$0.00	\$0.00	\$0.00	\$2,280.00	\$0.00	\$0.00	\$0.00
5948	1.3.3.4.6	calibrate/limits	SLAC	B&H	3	0.5 wks	\$0.00	\$0.00	\$999.40	\$999.40	\$199.88	\$419.75	\$1,619.03
		<i>SLAC Mech. Fab: Assembly Tech</i>		<i>B&H</i>	0	0.5 wks	\$0.00	\$0.00	\$0.00	\$999.40	\$0.00	\$0.00	\$0.00
5949	1.3.3.5	Precision alignment			0	3.5 wks	\$0.00	\$0.00	\$8,520.00	\$8,520.00	\$1,704.00	\$3,578.40	\$13,802.40
5950	1.3.3.5.1	alignment	SLAC	ED&I	3	0.5 wks	\$0.00	\$0.00	\$1,680.00	\$1,680.00	\$336.00	\$705.60	\$2,721.60
		<i>SLAC Mechanical Engineer</i>		<i>ED&I</i>	0	0.5 wks	\$0.00	\$0.00	\$0.00	\$1,680.00	\$0.00	\$0.00	\$0.00
5951	1.3.3.5.2	alignment	SLAC	B&H	3	3 wks	\$0.00	\$0.00	\$6,840.00	\$6,840.00	\$1,368.00	\$2,872.80	\$11,080.80
		<i>SLAC Metrology:Eng.& Surveyors</i>		<i>B&H</i>	0	3 wks	\$0.00	\$0.00	\$0.00	\$6,840.00	\$0.00	\$0.00	\$0.00
5952	1.4	Conventional Facilities			0	587 wks	\$2,826,672.00	\$26,634,000.00	\$339,600.00	\$29,800,272.00	\$1,977,894.40	\$6,132,276.89	\$37,910,443.29
5953	1.4.1	Injector facilities			0	154 wks	\$165,960.00	\$506,000.00	\$211,600.00	\$883,560.00	\$105,872.00	\$145,567.97	\$1,134,999.97
5954	1.4.1.1	PED			0	70 wks	\$165,960.00	\$0.00	\$0.00	\$165,960.00	\$33,192.00	\$29,872.80	\$229,024.80
5955	1.4.1.1.1	SEM Engineering	SLAC	ED&I	1	40 wks	\$96,960.00	\$0.00	\$0.00	\$96,960.00	\$19,392.00	\$17,452.80	\$133,804.80
		<i>SLAC Site Engineering: Engineer</i>		<i>ED&I</i>	0	40 wks	\$0.00	\$0.00	\$0.00	\$96,960.00	\$0.00	\$0.00	\$0.00
5956	1.4.1.1.2	Mechanical Design	SLAC	ED&I	1	30 wks	\$69,000.00	\$0.00	\$0.00	\$69,000.00	\$13,800.00	\$12,420.00	\$95,220.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	0	30 wks	\$0.00	\$0.00	\$0.00	\$69,000.00	\$0.00	\$0.00	\$0.00
5957	1.4.1.2	Buildings			0	84 wks	\$0.00	\$506,000.00	\$211,600.00	\$717,600.00	\$72,680.00	\$115,695.17	\$905,975.17

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
5958	1.4.1.2.1	Remove Shielding	SLAC	B&H	1	4 wks	\$0.00	\$0.00	\$5,120.00	\$5,120.00	\$1,024.00	\$921.60	\$7,065.60
		<i>SLAC Site Engineering: Labor</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$5,120.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5959	1.4.1.2.2	Sort/Transport Blks	SLAC	B&H	1	5 wks	\$0.00	\$0.00	\$11,800.00	\$11,800.00	\$2,360.00	\$2,124.00	\$16,284.00
		<i>SLAC T&M Crafts - Union Equip. Op.</i>		<i>B&H</i>	<i>0</i>	<i>5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$11,800.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5960	1.4.1.2.3	Stack/pack Blks	SLAC	B&H	1	5 wks	\$0.00	\$0.00	\$6,400.00	\$6,400.00	\$1,280.00	\$1,152.00	\$8,832.00
		<i>SLAC Site Engineering: Labor</i>		<i>B&H</i>	<i>0</i>	<i>5 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$6,400.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5961	1.4.1.2.3	Stack/pack Blks	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5962	1.4.1.2.3	Layout/drill holes	SLAC	B&H	1	1 wk	\$0.00	\$0.00	\$2,360.00	\$2,360.00	\$472.00	\$424.80	\$3,256.80
		<i>SLAC T&M Crafts - Union Equip. Op.</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$2,360.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5963	1.4.1.2.3	Layout/drill holes	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5964	1.4.1.2.5	Seismic Bracing	SLAC	B&H	1	4 wks	\$0.00	\$0.00	\$8,640.00	\$8,640.00	\$1,728.00	\$1,555.20	\$11,923.20
		<i>SLAC T&M Crafts - Union Ironwork.</i>		<i>B&H</i>	<i>0</i>	<i>4 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$8,640.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5965	1.4.1.2.5	Seismic Bracing	SLAC	M&S	1	0 wks	\$0.00	\$3,000.00	\$0.00	\$3,000.00	\$180.00	\$477.00	\$3,657.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>3,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5966	1.4.1.2.6	Air Controls	SLAC	B&H	1	1 wk	\$0.00	\$0.00	\$3,200.00	\$3,200.00	\$640.00	\$576.00	\$4,416.00
		<i>SLAC Mech. Fab: Machine Shop</i>		<i>B&H</i>	<i>0</i>	<i>1 wk</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$3,200.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5967	1.4.1.2.6	Air Controls	SLAC	M&S	1	0 wks	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$60.00	\$159.00	\$1,219.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5968	1.4.1.2.7	Modify exist structure	SLAC	M&S	1	0 wks	\$0.00	\$100,000.00	\$0.00	\$100,000.00	\$6,000.00	\$15,900.00	\$121,900.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>100,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$100,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5969	1.4.1.2.8	Laser Room	SLAC	M&S	1	0 wks	\$0.00	\$250,000.00	\$0.00	\$250,000.00	\$15,000.00	\$39,750.00	\$304,750.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>250,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$250,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5970	1.4.1.2.9	Utilities	SLAC	B&H	5	64 wks	\$0.00	\$0.00	\$174,080.00	\$174,080.00	\$34,816.00	\$28,487.57	\$237,383.57
		<i>SLAC T&M Crafts - Union Electrician</i>		<i>B&H</i>	<i>0</i>	<i>64 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$174,080.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5971	1.4.1.2.9	Utilities	SLAC	M&S	1	0 wks	\$0.00	\$150,000.00	\$0.00	\$150,000.00	\$9,000.00	\$23,850.00	\$182,850.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>150,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$150,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5972	1.4.2	Linac Facilities			0	120 wks	\$94,480.00	\$665,000.00	\$128,000.00	\$887,480.00	\$84,396.00	\$145,781.40	\$1,117,657.40
5973	1.4.2.1	PED			0	40 wks	\$94,480.00	\$0.00	\$0.00	\$94,480.00	\$18,896.00	\$17,006.40	\$130,382.40
5974	1.4.2.1.1	SEM Engineering	SLAC	ED&I	1	20 wks	\$48,480.00	\$0.00	\$0.00	\$48,480.00	\$9,696.00	\$8,726.40	\$66,902.40
		<i>SLAC Site Engineering: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>20 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$48,480.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5975	1.4.2.1.2	Mechanical Design	SLAC	ED&I	1	20 wks	\$46,000.00	\$0.00	\$0.00	\$46,000.00	\$9,200.00	\$8,280.00	\$63,480.00
		<i>SLAC Mech Drafting/Design</i>		<i>ED&I</i>	<i>0</i>	<i>20 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$46,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5976	1.4.2.2	Buildings			0	80 wks	\$0.00	\$665,000.00	\$128,000.00	\$793,000.00	\$65,500.00	\$128,775.00	\$987,275.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
5977	1.4.2.2.1	Building Electrical	SLAC	B&H	1	20 wks	\$0.00	\$0.00	\$32,000.00	\$32,000.00	\$6,400.00	\$5,760.00	\$44,160.00
		SLAC Site Engineering: Plant Maint.		B&H	0	20 wks	\$0.00	\$0.00	\$0.00	\$32,000.00	\$0.00	\$0.00	\$0.00
5978	1.4.2.2.1	Building Electrical	SLAC	M&S	1	0 wks	\$0.00	\$350,000.00	\$0.00	\$350,000.00	\$21,000.00	\$55,650.00	\$426,650.00
		SLAC M&S Total		M&S	0	350,000	\$0.00	\$0.00	\$0.00	\$350,000.00	\$0.00	\$0.00	\$0.00
5979	1.4.2.2.2	Building Water	SLAC	B&H	1	20 wks	\$0.00	\$0.00	\$32,000.00	\$32,000.00	\$6,400.00	\$5,760.00	\$44,160.00
		SLAC Site Engineering: Plant Maint.		B&H	0	20 wks	\$0.00	\$0.00	\$0.00	\$32,000.00	\$0.00	\$0.00	\$0.00
5980	1.4.2.2.2	Building Water	SLAC	M&S	1	0 wks	\$0.00	\$140,000.00	\$0.00	\$140,000.00	\$8,400.00	\$22,260.00	\$170,660.00
		SLAC M&S Total		M&S	0	140,000	\$0.00	\$0.00	\$0.00	\$140,000.00	\$0.00	\$0.00	\$0.00
5981	1.4.2.2.3	Building HVAC	SLAC	B&H	1	20 wks	\$0.00	\$0.00	\$32,000.00	\$32,000.00	\$6,400.00	\$5,760.00	\$44,160.00
		SLAC Site Engineering: Plant Maint.		B&H	0	20 wks	\$0.00	\$0.00	\$0.00	\$32,000.00	\$0.00	\$0.00	\$0.00
5982	1.4.2.2.3	Building HVAC	SLAC	M&S	1	0 wks	\$0.00	\$150,000.00	\$0.00	\$150,000.00	\$9,000.00	\$23,850.00	\$182,850.00
		SLAC M&S Total		M&S	0	150,000	\$0.00	\$0.00	\$0.00	\$150,000.00	\$0.00	\$0.00	\$0.00
5983	1.4.2.2.4	Building Special Systems	SLAC	B&H	1	20 wks	\$0.00	\$0.00	\$32,000.00	\$32,000.00	\$6,400.00	\$5,760.00	\$44,160.00
		SLAC Site Engineering: Plant Maint.		B&H	0	20 wks	\$0.00	\$0.00	\$0.00	\$32,000.00	\$0.00	\$0.00	\$0.00
5984	1.4.2.2.4	Building Special Systems	SLAC	M&S	1	0 wks	\$0.00	\$25,000.00	\$0.00	\$25,000.00	\$1,500.00	\$3,975.00	\$30,475.00
		SLAC M&S Total		M&S	0	25,000	\$0.00	\$0.00	\$0.00	\$25,000.00	\$0.00	\$0.00	\$0.00
5985	1.4.3	Undulator Facilities			0	60 wks	\$142,960.00	\$710,000.00	\$0.00	\$852,960.00	\$71,192.00	\$141,848.00	\$1,066,000.00
5986	1.4.3.1	PED			0	60 wks	\$142,960.00	\$0.00	\$0.00	\$142,960.00	\$28,592.00	\$25,732.80	\$197,284.80
5987	1.4.3.1.1	SEM Engineering	SLAC	ED&I	1	40 wks	\$96,960.00	\$0.00	\$0.00	\$96,960.00	\$19,392.00	\$17,452.80	\$133,804.80
		SLAC Site Engineering: Engineer		ED&I	0	40 wks	\$0.00	\$0.00	\$0.00	\$96,960.00	\$0.00	\$0.00	\$0.00
5988	1.4.3.1.2	Mechanical Design	SLAC	ED&I	1	20 wks	\$46,000.00	\$0.00	\$0.00	\$46,000.00	\$9,200.00	\$8,280.00	\$63,480.00
		SLAC Mech Drafting/Design		ED&I	0	20 wks	\$0.00	\$0.00	\$0.00	\$46,000.00	\$0.00	\$0.00	\$0.00
5989	1.4.3.2	Grounds Preparation			0	0 wks	\$0.00	\$150,000.00	\$0.00	\$150,000.00	\$9,000.00	\$23,850.00	\$182,850.00
5990	1.4.3.2.1	Grounds Preparation	SLAC	M&S	1	0 wks	\$0.00	\$150,000.00	\$0.00	\$150,000.00	\$9,000.00	\$23,850.00	\$182,850.00
		SLAC M&S Total		M&S	0	150,000	\$0.00	\$0.00	\$0.00	\$150,000.00	\$0.00	\$0.00	\$0.00
5991	1.4.3.3	Structures			0	0 wks	\$0.00	\$400,000.00	\$0.00	\$400,000.00	\$24,000.00	\$66,825.20	\$490,825.20
5992	1.4.3.3.1	Structures	SLAC	M&S	5	0 wks	\$0.00	\$400,000.00	\$0.00	\$400,000.00	\$24,000.00	\$66,825.20	\$490,825.20
		SLAC M&S Total		M&S	0	400,000	\$0.00	\$0.00	\$0.00	\$400,000.00	\$0.00	\$0.00	\$0.00
5993	1.4.3.4	Buildings			0	0 wks	\$0.00	\$160,000.00	\$0.00	\$160,000.00	\$9,600.00	\$25,440.00	\$195,040.00
5994	1.4.3.4.1	Building Electrical	SLAC	M&S	1	0 wks	\$0.00	\$20,000.00	\$0.00	\$20,000.00	\$1,200.00	\$3,180.00	\$24,380.00
		SLAC M&S Total		M&S	0	20,000	\$0.00	\$0.00	\$0.00	\$20,000.00	\$0.00	\$0.00	\$0.00
5995	1.4.3.4.2	Building Water	SLAC	M&S	1	0 wks	\$0.00	\$30,000.00	\$0.00	\$30,000.00	\$1,800.00	\$4,770.00	\$36,570.00
		SLAC M&S Total		M&S	0	30,000	\$0.00	\$0.00	\$0.00	\$30,000.00	\$0.00	\$0.00	\$0.00
5996	1.4.3.4.3	Building HVAC	SLAC	M&S	1	0 wks	\$0.00	\$50,000.00	\$0.00	\$50,000.00	\$3,000.00	\$7,950.00	\$60,950.00
		SLAC M&S Total		M&S	0	50,000	\$0.00	\$0.00	\$0.00	\$50,000.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
5997	1.4.3.4.4	Building Special Systems	SLAC	M&S	1	0 wks	\$0.00	\$60,000.00	\$0.00	\$60,000.00	\$3,600.00	\$9,540.00	\$73,140.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>60,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$60,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
5998	1.4.3.4.5	Building Interior	SLAC		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5999	1.4.3.4.6	Building Furnishings	SLAC		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6000	1.4.3.4.7	Building Interior Modifications/Cleanout/Shielding	SLAC		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6001	1.4.4	Near Hall			0	104 wks	\$952,096.00	\$8,821,000.00	\$0.00	\$9,773,096.00	\$621,679.20	\$2,078,955.04	\$12,473,730.24
6002	1.4.4.1	PED			0	104 wks	\$952,096.00	\$0.00	\$0.00	\$952,096.00	\$92,419.20	\$208,903.04	\$1,253,418.24
6003	1.4.4.1.1	SEM Engineering	SLAC	ED&I	5	104 wks	\$252,096.00	\$0.00	\$0.00	\$252,096.00	\$50,419.20	\$60,503.04	\$363,018.24
		<i>SLAC Site Engineering: Engineer</i>		<i>ED&I</i>	<i>0</i>	<i>104 wks</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$252,096.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
6004	1.4.4.1.2	A&E Services	SLAC	M&S	5	0 wks	\$700,000.00	\$0.00	\$0.00	\$700,000.00	\$42,000.00	\$148,400.00	\$890,400.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>700,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$700,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
6005	1.4.4.2	Grounds Preparation			0	0 wks	\$0.00	\$3,216,000.00	\$0.00	\$3,216,000.00	\$192,960.00	\$681,792.00	\$4,090,752.00
6006	1.4.4.2.1	Equip, Drainage, etc	SLAC	M&S	5	0 wks	\$0.00	\$1,399,000.00	\$0.00	\$1,399,000.00	\$83,940.00	\$296,588.00	\$1,779,528.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>1,399,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$1,399,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
6007	1.4.4.2.2	Modify Bldg 102	SLAC	M&S	5	0 wks	\$0.00	\$100,000.00	\$0.00	\$100,000.00	\$6,000.00	\$21,200.00	\$127,200.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>100,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$100,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
6008	1.4.4.2.3	Modify Bldg 104	SLAC	M&S	5	0 wks	\$0.00	\$225,000.00	\$0.00	\$225,000.00	\$13,500.00	\$47,700.00	\$286,200.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>225,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$225,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
6009	1.4.4.2.4	Modify Bldg 211	SLAC	M&S	5	0 wks	\$0.00	\$250,000.00	\$0.00	\$250,000.00	\$15,000.00	\$53,000.00	\$318,000.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>250,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$250,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
6010	1.4.4.2.5	Roadway Access	SLAC	M&S	5	0 wks	\$0.00	\$742,000.00	\$0.00	\$742,000.00	\$44,520.00	\$157,304.00	\$943,824.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>742,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$742,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
6011	1.4.4.2.6	Substation #512 Site characterization & remediation	SLAC		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6012	1.4.4.2.7	Site Characterization waste profiling/disposal	SLAC	M&S	5	0 wks	\$0.00	\$500,000.00	\$0.00	\$500,000.00	\$30,000.00	\$106,000.00	\$636,000.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>500,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$500,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
6013	1.4.4.3	Structures			0	0 wks	\$0.00	\$1,553,000.00	\$0.00	\$1,553,000.00	\$93,180.00	\$329,236.00	\$1,975,416.00
6014	1.4.4.3.1	Concrete	SLAC	M&S	5	0 wks	\$0.00	\$742,000.00	\$0.00	\$742,000.00	\$44,520.00	\$157,304.00	\$943,824.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>742,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$742,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
6015	1.4.4.3.2	Metals	SLAC	M&S	5	0 wks	\$0.00	\$811,000.00	\$0.00	\$811,000.00	\$48,660.00	\$171,932.00	\$1,031,592.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>811,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$811,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
6016	1.4.4.4	Buildings			0	0 wks	\$0.00	\$4,052,000.00	\$0.00	\$4,052,000.00	\$243,120.00	\$859,024.00	\$5,154,144.00
6017	1.4.4.4.1	Building Electrical	SLAC	M&S	5	0 wks	\$0.00	\$953,000.00	\$0.00	\$953,000.00	\$57,180.00	\$202,036.00	\$1,212,216.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>953,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$953,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>
6018	1.4.4.4.2	Building Water	SLAC	M&S	5	0 wks	\$0.00	\$158,000.00	\$0.00	\$158,000.00	\$9,480.00	\$33,496.00	\$200,976.00
		<i>SLAC M&S Total</i>		<i>M&S</i>	<i>0</i>	<i>158,000</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$158,000.00</i>	<i>\$0.00</i>	<i>\$0.00</i>	<i>\$0.00</i>

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
6019	1.4.4.4.3	Building HVAC	SLAC	M&S	5	0 wks	\$0.00	\$500,000.00	\$0.00	\$500,000.00	\$30,000.00	\$106,000.00	\$636,000.00
		SLAC M&S Total		M&S	0	500,000	\$0.00	\$0.00	\$0.00	\$500,000.00	\$0.00	\$0.00	\$0.00
6020	1.4.4.4.4	Building Special Systems	SLAC	M&S	5	0 wks	\$0.00	\$302,000.00	\$0.00	\$302,000.00	\$18,120.00	\$64,024.00	\$384,144.00
		SLAC M&S Total		M&S	0	302,000	\$0.00	\$0.00	\$0.00	\$302,000.00	\$0.00	\$0.00	\$0.00
6021	1.4.4.4.5	Building Interior	SLAC	M&S	5	0 wks	\$0.00	\$1,279,000.00	\$0.00	\$1,279,000.00	\$76,740.00	\$271,148.00	\$1,626,888.00
		SLAC M&S Total		M&S	0	1,279,000	\$0.00	\$0.00	\$0.00	\$1,279,000.00	\$0.00	\$0.00	\$0.00
6022	1.4.4.4.6	Building Furnishings	SLAC	M&S	5	0 wks	\$0.00	\$110,000.00	\$0.00	\$110,000.00	\$6,600.00	\$23,320.00	\$139,920.00
		SLAC M&S Total		M&S	0	110,000	\$0.00	\$0.00	\$0.00	\$110,000.00	\$0.00	\$0.00	\$0.00
6023	1.4.4.4.7	Building X-ray Enclosures	SLAC	M&S	5	0 wks	\$0.00	\$750,000.00	\$0.00	\$750,000.00	\$45,000.00	\$159,000.00	\$954,000.00
		SLAC M&S Total		M&S	0	750,000	\$0.00	\$0.00	\$0.00	\$750,000.00	\$0.00	\$0.00	\$0.00
6024	1.4.5	Tunnel			0	45 wks	\$309,080.00	\$2,102,000.00	\$0.00	\$2,411,080.00	\$159,936.00	\$514,203.20	\$3,085,219.20
6025	1.4.5.1	PED			0	45 wks	\$309,080.00	\$0.00	\$0.00	\$309,080.00	\$33,816.00	\$68,579.20	\$411,475.20
6026	1.4.5.1.1	SEM Engineering	SLAC	ED&I	5	45 wks	\$109,080.00	\$0.00	\$0.00	\$109,080.00	\$21,816.00	\$26,179.20	\$157,075.20
		SLAC Site Engineering: Engineer		ED&I	0	45 wks	\$0.00	\$0.00	\$0.00	\$109,080.00	\$0.00	\$0.00	\$0.00
6027	1.4.5.1.2	Geo Tech Study	SLAC	M&S	5	0 wks	\$50,000.00	\$0.00	\$0.00	\$50,000.00	\$3,000.00	\$10,600.00	\$63,600.00
		SLAC M&S Total		M&S	0	50,000	\$0.00	\$0.00	\$0.00	\$50,000.00	\$0.00	\$0.00	\$0.00
6028	1.4.5.1.3	Tunnel Engineering	SLAC	M&S	5	0 wks	\$150,000.00	\$0.00	\$0.00	\$150,000.00	\$9,000.00	\$31,800.00	\$190,800.00
		SLAC M&S Total		M&S	0	150,000	\$0.00	\$0.00	\$0.00	\$150,000.00	\$0.00	\$0.00	\$0.00
6029	1.4.5.2	Site Preparation			0	0 wks	\$0.00	\$200,000.00	\$0.00	\$200,000.00	\$12,000.00	\$42,400.00	\$254,400.00
6030	1.4.5.2.1	Site Preparation	SLAC	M&S	5	0 wks	\$0.00	\$200,000.00	\$0.00	\$200,000.00	\$12,000.00	\$42,400.00	\$254,400.00
		SLAC M&S Total		M&S	0	200,000	\$0.00	\$0.00	\$0.00	\$200,000.00	\$0.00	\$0.00	\$0.00
6031	1.4.5.3	Structures			0	0 wks	\$0.00	\$1,502,000.00	\$0.00	\$1,502,000.00	\$90,120.00	\$318,424.00	\$1,910,544.00
6032	1.4.5.3.1	Structures	SLAC	M&S	5	0 wks	\$0.00	\$1,502,000.00	\$0.00	\$1,502,000.00	\$90,120.00	\$318,424.00	\$1,910,544.00
		SLAC M&S Total		M&S	0	1,502,000	\$0.00	\$0.00	\$0.00	\$1,502,000.00	\$0.00	\$0.00	\$0.00
6033	1.4.5.4	Buildings			0	0 wks	\$0.00	\$400,000.00	\$0.00	\$400,000.00	\$24,000.00	\$84,800.00	\$508,800.00
6034	1.4.5.4.1	Building Electrical	SLAC	M&S	5	0 wks	\$0.00	\$75,000.00	\$0.00	\$75,000.00	\$4,500.00	\$15,900.00	\$95,400.00
		SLAC M&S Total		M&S	0	75,000	\$0.00	\$0.00	\$0.00	\$75,000.00	\$0.00	\$0.00	\$0.00
6035	1.4.5.4.2	Building Water	SLAC	M&S	5	0 wks	\$0.00	\$25,000.00	\$0.00	\$25,000.00	\$1,500.00	\$5,300.00	\$31,800.00
		SLAC M&S Total		M&S	0	25,000	\$0.00	\$0.00	\$0.00	\$25,000.00	\$0.00	\$0.00	\$0.00
6036	1.4.5.4.3	Building HVAC	SLAC	M&S	5	0 wks	\$0.00	\$200,000.00	\$0.00	\$200,000.00	\$12,000.00	\$42,400.00	\$254,400.00
		SLAC M&S Total		M&S	0	200,000	\$0.00	\$0.00	\$0.00	\$200,000.00	\$0.00	\$0.00	\$0.00
6037	1.4.5.4.4	Building Special Systems	SLAC	M&S	5	0 wks	\$0.00	\$100,000.00	\$0.00	\$100,000.00	\$6,000.00	\$21,200.00	\$127,200.00
		SLAC M&S Total		M&S	0	100,000	\$0.00	\$0.00	\$0.00	\$100,000.00	\$0.00	\$0.00	\$0.00
6038	1.4.5.4.5	Building Interior	SLAC		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6039	1.4.5.4.6	Building Furnishings	SLAC		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

LCLS_CD1_TEC

ID	CWBS	Task Name	OBS	PHASE	Risk	Units	PED (Direct)	M&S (Direct)	Labor (Direct)	Direct Cost	Overhead Cost	Contingency Cost	Total Cost
6040	1.4.5.4.7	Building X-ray Enclosures	SLAC		0	0 wks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6041	1.4.6	Far Hall			0	104 wks	\$1,162,096.00	\$13,830,000.00	\$0.00	\$14,992,096.00	\$934,819.20	\$3,105,921.28	\$19,032,836.48
6042	1.4.6.1	PED			0	104 wks	\$1,162,096.00	\$0.00	\$0.00	\$1,162,096.00	\$105,019.20	\$253,423.04	\$1,520,538.24
6043	1.4.6.1.1	SEM Engineering	SLAC	ED&I	5	104 wks	\$252,096.00	\$0.00	\$0.00	\$252,096.00	\$50,419.20	\$60,503.04	\$363,018.24
		SLAC Site Engineering: Engineer		ED&I	0	104 wks	\$0.00	\$0.00	\$0.00	\$252,096.00	\$0.00	\$0.00	\$0.00
6044	1.4.6.1.4	A & E Serv	SLAC	M&S	5	0 wks	\$910,000.00	\$0.00	\$0.00	\$910,000.00	\$54,600.00	\$192,920.00	\$1,157,520.00
		SLAC M&S Total		M&S	0	910,000	\$0.00	\$0.00	\$0.00	\$910,000.00	\$0.00	\$0.00	\$0.00
6045	1.4.6.2	Site Preparation			0	0 wks	\$0.00	\$2,250,000.00	\$0.00	\$2,250,000.00	\$135,000.00	\$477,000.00	\$2,862,000.00
6046	1.4.6.2.1	Site Preparation	SLAC	M&S	5	0 wks	\$0.00	\$2,250,000.00	\$0.00	\$2,250,000.00	\$135,000.00	\$477,000.00	\$2,862,000.00
		SLAC M&S Total		M&S	0	2,250,000	\$0.00	\$0.00	\$0.00	\$2,250,000.00	\$0.00	\$0.00	\$0.00
6047	1.4.6.3	Structures			0	0 wks	\$0.00	\$4,500,000.00	\$0.00	\$4,500,000.00	\$270,000.00	\$954,000.00	\$5,724,000.00
6048	1.4.6.3.1	Structures	SLAC	M&S	5	0 wks	\$0.00	\$4,500,000.00	\$0.00	\$4,500,000.00	\$270,000.00	\$954,000.00	\$5,724,000.00
		SLAC M&S Total		M&S	0	4,500,000	\$0.00	\$0.00	\$0.00	\$4,500,000.00	\$0.00	\$0.00	\$0.00
6049	1.4.6.4	Buildings			0	0 wks	\$0.00	\$7,080,000.00	\$0.00	\$7,080,000.00	\$424,800.00	\$1,421,498.24	\$8,926,298.24
6050	1.4.6.4.1	Building Electrical	SLAC	M&S	5	0 wks	\$0.00	\$1,648,000.00	\$0.00	\$1,648,000.00	\$98,880.00	\$349,376.00	\$2,096,256.00
		SLAC M&S Total		M&S	0	1,648,000	\$0.00	\$0.00	\$0.00	\$1,648,000.00	\$0.00	\$0.00	\$0.00
6051	1.4.6.4.2	Building Water	SLAC	M&S	5	0 wks	\$0.00	\$300,000.00	\$0.00	\$300,000.00	\$18,000.00	\$63,600.00	\$381,600.00
		SLAC M&S Total		M&S	0	300,000	\$0.00	\$0.00	\$0.00	\$300,000.00	\$0.00	\$0.00	\$0.00
6052	1.4.6.4.3	Building HVAC	SLAC	M&S	5	0 wks	\$0.00	\$1,395,000.00	\$0.00	\$1,395,000.00	\$83,700.00	\$216,278.24	\$1,694,978.24
		SLAC M&S Total		M&S	0	1,395,000	\$0.00	\$0.00	\$0.00	\$1,395,000.00	\$0.00	\$0.00	\$0.00
6053	1.4.6.4.4	Building Special Systems	SLAC	M&S	5	0 wks	\$0.00	\$973,000.00	\$0.00	\$973,000.00	\$58,380.00	\$206,276.00	\$1,237,656.00
		SLAC M&S Total		M&S	0	973,000	\$0.00	\$0.00	\$0.00	\$973,000.00	\$0.00	\$0.00	\$0.00
6054	1.4.6.4.5	Building Interior	SLAC	M&S	5	0 wks	\$0.00	\$1,427,000.00	\$0.00	\$1,427,000.00	\$85,620.00	\$302,524.00	\$1,815,144.00
		SLAC M&S Total		M&S	0	1,427,000	\$0.00	\$0.00	\$0.00	\$1,427,000.00	\$0.00	\$0.00	\$0.00
6055	1.4.6.4.6	Building Furnishings	SLAC	M&S	5	0 wks	\$0.00	\$587,000.00	\$0.00	\$587,000.00	\$35,220.00	\$124,444.00	\$746,664.00
		SLAC M&S Total		M&S	0	587,000	\$0.00	\$0.00	\$0.00	\$587,000.00	\$0.00	\$0.00	\$0.00
6056	1.4.6.4.7	Building X-ray Enclosures	SLAC	M&S	5	0 wks	\$0.00	\$750,000.00	\$0.00	\$750,000.00	\$45,000.00	\$159,000.00	\$954,000.00
		SLAC M&S Total		M&S	0	750,000	\$0.00	\$0.00	\$0.00	\$750,000.00	\$0.00	\$0.00	\$0.00