

LRIS Red -New LBL Chips-Plus Dewar

Fri 4/2/10

ID	Task Name	Duration	Work	Start	Finish	labor	material cost	total cost	total cost plus contingency	2010
1	LRIS R 4K2	225.96 days?	3,937 hrs	Mon 3/15/10	Thu 2/10/11	\$229,461.67	\$65,500.00	\$294,961.67	\$353,954.00	F
2	Reviews/milestones	195.82 days	178 hrs	Thu 4/22/10	Mon 2/7/11	\$15,426.67	\$1,000.00	\$16,426.67	\$19,712.00	
3	prep for DDR	0.42 wks	50 hrs	Thu 4/22/10	Mon 4/26/10	\$4,333.33	\$0.00	\$4,333.33	\$5,200.00	
4	Detailed Design Review	1 day	24 hrs	Mon 4/26/10	Tue 4/27/10	\$2,080.00	\$500.00	\$2,580.00	\$3,096.00	
5	prep for PSR	0.42 wks	50 hrs	Mon 11/22/10	Wed 11/24/10	\$4,333.33	\$0.00	\$4,333.33	\$5,200.00	
6	Pre-ship Review	2.25 days	54 hrs	Wed 11/24/10	Tue 11/30/10	\$4,680.00	\$500.00	\$5,180.00	\$6,216.00	
7	Ship date	0 days	0 hrs	Thu 1/6/11	Thu 1/6/11	\$0.00	\$0.00	\$0.00	\$0.00	
8	Start of installation	0 days	0 hrs	Thu 1/20/11	Thu 1/20/11	\$0.00	\$0.00	\$0.00	\$0.00	
9	First Light	0 days	0 hrs	Mon 2/7/11	Mon 2/7/11	\$0.00	\$0.00	\$0.00	\$0.00	
10	Detectors	126.43 days?	160 hrs	Mon 3/15/10	Mon 9/13/10	\$12,800.00	\$0.00	\$12,800.00	\$15,360.00	
11	Detector testing	3.57 days?	20 hrs	Mon 3/15/10	Thu 3/18/10	\$1,700.00	\$0.00	\$1,700.00	\$2,040.00	
12	Test Science devices for flatness	0 days?	0 hrs	Thu 3/18/10	Thu 3/18/10	\$0.00	\$0.00	\$0.00	\$0.00	
13	Clean dewar and parts	5 days?	40 hrs	Mon 8/16/10	Mon 8/23/10	\$2,600.00	\$0.00	\$2,600.00	\$3,120.00	
14	Assemble dewar and focal plane	7.14 days?	40 hrs	Mon 8/23/10	Wed 9/1/10	\$3,400.00	\$0.00	\$3,400.00	\$4,080.00	
15	Install dead devices on focal plane	3.57 days?	20 hrs	Wed 9/1/10	Tue 9/7/10	\$1,700.00	\$0.00	\$1,700.00	\$2,040.00	
16	Install Engineering devices on focal plane	3.57 days?	20 hrs	Tue 9/7/10	Mon 9/13/10	\$1,700.00	\$0.00	\$1,700.00	\$2,040.00	
17	Install Science Devices	3.57 days?	20 hrs	Thu 6/24/10	Tue 6/29/10	\$1,700.00	\$0.00	\$1,700.00	\$2,040.00	
18	Dewar Mechanical	107.14 days?	1,460 hrs	Mon 3/15/10	Mon 8/16/10	\$101,900.00	\$18,500.00	\$120,400.00	\$144,480.00	
19	CCD Mount	69.64 days?	390 hrs	Mon 3/15/10	Tue 6/22/10	\$30,150.00	\$0.00	\$30,150.00	\$36,180.00	
20	design test dewar	0 days?	0 hrs	Mon 3/15/10	Mon 3/15/10	\$0.00	\$0.00	\$0.00	\$0.00	
21	design science dewar	42.86 days?	240 hrs	Mon 3/15/10	Thu 5/13/10	\$20,400.00	\$0.00	\$20,400.00	\$24,480.00	
22	fab test dewar	0 days?	0 hrs	Mon 3/15/10	Mon 3/15/10	\$0.00	\$0.00	\$0.00	\$0.00	
23	fab science dewar	26.79 days?	150 hrs	Thu 5/13/10	Tue 6/22/10	\$9,750.00	\$0.00	\$9,750.00	\$11,700.00	
24	lid & feedthru	20.71 days?	220 hrs	Mon 3/15/10	Tue 4/13/10	\$14,700.00	\$2,000.00	\$16,700.00	\$20,040.00	
25	design	10.71 days?	60 hrs	Mon 3/15/10	Tue 3/30/10	\$5,100.00	\$0.00	\$5,100.00	\$6,120.00	
26	fab	10 days?	80 hrs	Tue 3/30/10	Tue 4/13/10	\$5,200.00	\$1,000.00	\$6,200.00	\$7,440.00	
27	window-strip and coat	10 days?	80 hrs	Mon 3/15/10	Fri 3/26/10	\$4,400.00	\$1,000.00	\$5,400.00	\$6,480.00	
28	shielding	37.57 days?	120 hrs	Tue 3/30/10	Fri 5/21/10	\$8,600.00	\$5,000.00	\$13,600.00	\$16,320.00	
29	design	7.5 days?	40 hrs	Tue 3/30/10	Fri 4/9/10	\$3,400.00	\$0.00	\$3,400.00	\$4,080.00	
30	fab	14.29 days?	80 hrs	Mon 5/3/10	Fri 5/21/10	\$5,200.00	\$5,000.00	\$10,200.00	\$12,240.00	
31	ln2 can	107.14 days?	600 hrs	Mon 3/15/10	Mon 8/16/10	\$39,000.00	\$10,000.00	\$49,000.00	\$58,800.00	
32	Heat Conduction	16.07 days?	90 hrs	Fri 4/9/10	Mon 5/3/10	\$6,850.00	\$1,000.00	\$7,850.00	\$9,420.00	
33	design	8.93 days?	50 hrs	Fri 4/9/10	Thu 4/22/10	\$4,250.00	\$0.00	\$4,250.00	\$5,100.00	
34	fab	7.14 days?	40 hrs	Thu 4/22/10	Mon 5/3/10	\$2,600.00	\$1,000.00	\$3,600.00	\$4,320.00	

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35	electronic enclosure	7.14 days?	40 hrs	Mon 5/3/10	Fri 5/21/10	\$2,600.00	\$500.00	\$3,100.00	\$3,720.00	
36	Testing aperatus	1 day?	0 hrs	Mon 3/15/10	Mon 3/15/10	\$0.00	\$0.00	\$0.00	\$0.00	
37	design	1 day?	0 hrs	Mon 3/15/10	Mon 3/15/10	\$0.00	\$0.00	\$0.00	\$0.00	
38	fabrication	1 day?	0 hrs	Mon 3/15/10	Mon 3/15/10	\$0.00	\$0.00	\$0.00	\$0.00	
39	Dewar Electrical	78.57 days?	240 hrs	Mon 3/15/10	Tue 7/6/10	\$20,400.00	\$20,000.00	\$40,400.00	\$48,480.00	
40	flex cable	14.29 days?	80 hrs	Tue 6/15/10	Tue 7/6/10	\$6,800.00	\$10,000.00	\$16,800.00	\$20,160.00	
41	dewar electronics board	28.57 days?	160 hrs	Tue 5/4/10	Tue 6/15/10	\$13,600.00	\$5,000.00	\$18,600.00	\$22,320.00	
42	delivery of connectors	10 wks	0 hrs	Mon 3/15/10	Tue 5/25/10	\$0.00	\$5,000.00	\$5,000.00	\$6,000.00	
43	CCD Controller	88.23 days?	320 hrs	Mon 3/15/10	Tue 7/20/10	\$25,200.00	\$6,000.00	\$31,200.00	\$37,440.00	
44	Cables	10 days?	80 hrs	Mon 3/15/10	Fri 3/26/10	\$4,800.00	\$3,000.00	\$7,800.00	\$9,360.00	
45	I ² C interface	35.71 days?	200 hrs	Mon 3/15/10	Tue 5/4/10	\$17,000.00	\$0.00	\$17,000.00	\$20,400.00	
46	power Supply	7.14 days?	40 hrs	Tue 7/6/10	Tue 7/20/10	\$3,400.00	\$3,000.00	\$6,400.00	\$7,680.00	
47	Software	60.71 days?	300 hrs	Thu 3/18/10	Tue 6/15/10	\$18,000.00	\$0.00	\$18,000.00	\$21,600.00	
48	Red 4k2 Upgrade SW	35.71 days?	200 hrs	Thu 3/18/10	Mon 5/10/10	\$18,000.00	\$0.00	\$18,000.00	\$21,600.00	
49	SDSU software	25 days?	100 hrs	Mon 5/10/10	Tue 6/15/10	\$0.00	\$0.00	\$0.00	\$0.00	
50	Intergrated Testing	178.57 days?	820 hrs	Mon 3/15/10	Wed 11/24/10	\$0.00	\$0.00	\$0.00	\$0.00	
51	empty dewar/dead devices	2.5 days?	20 hrs	Tue 9/7/10	Fri 9/10/10	\$0.00	\$0.00	\$0.00	\$0.00	
52	engineering devices in TD	71.43 days?	400 hrs	Mon 3/15/10	Thu 6/24/10	\$0.00	\$0.00	\$0.00	\$0.00	
53	bob	71.43 days?	400 hrs	Mon 3/15/10	Thu 6/24/10	\$0.00	\$0.00	\$0.00	\$0.00	
54	science devices in SD	71.43 days?	400 hrs	Mon 8/16/10	Wed 11/24/10	\$0.00	\$0.00	\$0.00	\$0.00	
55	Shipping/Installation/Commissioniing	25.14 days?	144 hrs	Thu 1/6/11	Thu 2/10/11	\$12,560.00	\$20,000.00	\$32,560.00	\$39,072.00	
56	Ship to Hawaii	10 days	0 hrs	Thu 1/6/11	Thu 1/20/11	\$0.00	\$10,000.00	\$10,000.00	\$12,000.00	
57	Installation(depends on KI schedule)	7.14 days?	80 hrs	Thu 1/20/11	Mon 1/31/11	\$6,800.00	\$10,000.00	\$16,800.00	\$20,160.00	
58	Pre-Sky Testing	1 wk	40 hrs	Mon 1/31/11	Mon 2/7/11	\$3,600.00	\$0.00	\$3,600.00	\$4,320.00	
59	Possible First Light	3 days	24 hrs	Mon 2/7/11	Thu 2/10/11	\$2,160.00	\$0.00	\$2,160.00	\$2,592.00	
60	Project Management	214.29 days?	315 hrs	Mon 3/15/10	Wed 1/26/11	\$23,175.00	\$0.00	\$23,175.00	\$27,810.00	
61	PM	214.29 days?	120 hrs	Mon 3/15/10	Wed 1/26/11	\$13,200.00	\$0.00	\$13,200.00	\$15,840.00	
62	financial	214.29 days?	120 hrs	Mon 3/15/10	Wed 1/26/11	\$6,600.00	\$0.00	\$6,600.00	\$7,920.00	
63	admin	187.5 days?	75 hrs	Mon 3/15/10	Thu 12/9/10	\$3,375.00	\$0.00	\$3,375.00	\$4,050.00	

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