				,	WBS							
ID	WBS	Task Name	Cost	Work	Labor	Lcontingency	Material	Mcontingency	Ltotal	Mtotal	Total	Details
1	1	1 HPS	\$2,202,505.37	31,190.48 hrs	\$1,293,315.49	\$258,663.10	\$909,189.88	\$181,837.98	\$1,551,978.58	\$1,091,027.86	\$2,643,006.44	4 _{Cost}
2	1.1	1.1 Beamline	\$230,726.41	2,807.38 hrs	\$77,706.41	\$15,541.28	\$153,020.00	\$30,604.00	\$93,247.70	\$183,624.00	\$276,871.70	Cost
3	1.1.1	1.1.1 Beamline Conceptual Design	\$2,797.41	315.38 hrs	\$2,797.41	\$559.48	\$0.00	\$0.00	\$3,356.90	\$0.00	\$3,356.90	Cost
		MD J	\$2,797.41	67.38 hrs	\$2,797.41	\$559.48	\$0.00	\$0.00	\$3,356.90	\$0.00	\$3,356.90	
		Phy 1 JB	\$0.00	124 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 \$0.00	\$0.00		Cost
4	1.1.2	Phy 1 SB	\$0.00 \$0.00	124 hrs 0 hrs	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00	\$0.00 \$0.00	\$0.00	Cost Cost
5	1.1.3	1.1.2 Beamline Review	\$6,300.80	144 hrs	\$3,320.80	\$664.16	\$2,980.00	\$596.00	\$3,984.96	\$3,576.00	\$7,560.96	Cost
	1.1.5	1.1.3 Frascati's Refurbishement					\$2,980.00		. ,			
		Frascati's Refurbishment MT J	\$2,980.00 \$3,320.80	1 80 hrs	\$0.00 \$3,320.80	\$0.00 \$664.16	\$2,980.00	\$596.00 \$0.00	\$0.00 \$3,984.96	\$3,576.00 \$0.00	\$3,576.00 \$3,984.96	
		Phy 1 JB	\$0.00	32 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Cost
	111	Phy 1 SB	\$0.00	32 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Cost
6	1.1.4	1.1.4 Frascati beampipe 1	\$7,450.00	128 hrs	\$0.00	\$0.00	\$7,450.00	\$1,490.00	\$0.00	\$8,940.00	\$8,940.00	Cost
	-	Frascati beampipe 1 Phy 1 JB	\$7,450.00 \$0.00	1 64 hrs	\$0.00 \$0.00	\$0.00 \$0.00	\$7,450.00 \$0.00	\$1,490.00 \$0.00	\$0.00 \$0.00	\$8,940.00 \$0.00	\$8,940.00	Cost Cost
	 	Phy 1 SB	\$0.00	64 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Cost
7	1.1.5	1.1.5 Beam Pipe to SVT	\$5,960.00	64 hrs	\$0.00	\$0.00	\$5,960.00	\$1,192.00	\$0.00	\$7,152.00	\$7,152.00	Cost
		Beam Pipe	\$5,960.00	1	\$0.00	\$0.00	\$5,960.00	\$1,192.00	\$0.00	\$7,152.00	\$7,152.00	Cost
		Phy 1 JB	\$0.00	32 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		Cost
8	1.1.6	Phy 1 SB 1.1.6 SVT Vacuum Box	\$0.00 \$27,122.40	32 hrs 248 hrs	\$0.00 \$18,482.40	\$0.00 \$3,696.48	\$0.00 \$8,640.00	<i>\$0.00</i> \$1,728.00	\$0.00 \$22,178.88	\$0.00 \$10,368.00	\$32,546.88	Cost
		Electron Run Flange	\$5,400.00	1	\$0.00	\$0.00	\$5,400.00	\$1,080.00	\$0.00	\$6,480.00	\$6.480.00	
		ME S	\$7,344.00	40 hrs	\$7,344.00	\$1,468.80	\$0.00	\$0.00	\$8,812.80	\$0,480.00	\$8,812.80	
		MD S	\$11,138.40	80 hrs	\$11,138.40	\$2,227.68	\$0.00	\$0.00	\$13,366.08	\$0.00	\$13,366.08	Cost
	-	Vacuum Flange hardware	\$1,080.00 \$2,160.00	1	\$0.00 \$0.00	\$0.00 \$0.00	\$1,080.00 \$2,160.00	\$216.00 \$432.00	\$0.00 \$0.00	\$1,296.00 \$2,592.00	\$1,296.00 \$2,592.00	
		Conflat gaskets Linear Shifts	\$2,760.00	3	\$0.00	\$0.00	\$2,160.00	\$0.00	\$0.00	\$2,592.00		Cost
		Cooling Feedthrough	\$0.00	2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Cost
		Phy 1 JB	\$0.00 \$0.00	64 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		Cost
9	1.1.7	Phy 1 SB	\$17,110.80	64 hrs 112 hrs	\$0.00 \$12,790.80	\$0.00 \$2,558.16	\$0.00 \$4,320.00	\$0.00 \$864.00	\$0.00 \$15,348.96	<i>\$0.00</i> \$5,184.00	\$20,532.96	Cost
		1.1.7 Electron Target ElectronTarget	\$4,320.00	1	\$0.00	\$0.00	\$4,320.00	\$864.00	\$0.00	\$5,184.00	\$5,184.00	
		MT S	\$5,446.80	40 hrs	\$5,446.80	\$1,089.36	\$0.00	\$0.00	\$6,536.16	\$0.00	\$6,536.16	
		Phy 1 JB	\$0.00	16 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		Cost
	-	Phy 1 SB ME S	\$0.00 \$7,344.00	16 hrs 40 hrs	\$0.00 \$7,344.00	\$0.00 \$1,468.80	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$8,812.80	\$0.00 \$0.00	\$0.00 \$8,812.80	Cost
10	1.1.8	1.1.8 Ecal Vacuum Chamber Welding	\$7,344.00	40 hrs	\$7,344.00	\$1,468.80	\$0.00	\$0.00	\$0.00	\$0.00	\$0,012.00	Cost
		Phy 1 JB	\$0.00	40 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Cost
11	1.1.9	1.1.9 Restore controls and diagnostic	\$5,453.60	176 hrs	\$5,453.60	\$1,090.72	\$0.00	\$0.00	\$6,544.32	\$0.00	\$6,544.32	Coot
		ME J	\$2,132.80	32 hrs	\$2,132.80	\$426.56	\$0.00	\$0.00	\$2,559.36	\$0.00	\$2,559.36	
		MT J	\$3,320.80	80 hrs	\$3,320.80	\$664.16	\$0.00	\$0.00	\$3,984.96	\$0.00	\$3,984.96	Cost
		Phy 1 JB Phy 1 SB	\$0.00 \$0.00	32 hrs 32 hrs	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	¢0.00	Cost Cost
12	1.1.10	1.1.10 SVT Collimator Protection	\$20,353.60	176 hrs	\$5,453.60	\$1,090.72	\$14,900.00	\$2,980.00	\$6,544.32	\$17,880.00	\$24,424.32	2
		ME J	\$2,132.80	32 hrs	\$2,132.80	\$426.56	\$0.00	\$0.00	\$2,559.36	\$0.00	\$2,559.36	Cost
		MT J	\$3,320.80	80 hrs	\$3,320.80	\$664.16	\$0.00	\$0.00	\$3,984.96	\$0.00	\$3,984.96	
		SVT Collimator Protection	\$14,900.00	1	\$0.00	\$0.00	\$14,900.00	\$2,980.00	\$0.00	\$17,880.00	\$17,880.00	-
	-	Phy 1 JB Phy 1 SB	\$0.00 \$0.00	32 hrs 32 hrs	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00	Cost Cost
13	1.1.11	1.1.11 Vacuum beam line downstrear	\$14,900.00	32 hrs		\$0.00	\$14,900.00	\$2,980.00	\$0.00	\$17,880.00	\$17,880.00	O Cost
	-	Vacuum beamline downstream chicane	\$14,900.00	1	\$0.00	\$0.00	\$14,900.00	\$2,980.00	\$0.00	\$17,880.00	\$17,880.00	
		Phy 1 JB	\$0.00	16 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Cost
	1 1 10	Phy 1 SB	\$0.00	16 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Cost
14	1.1.12	1.1.12 BOM and link to FS	\$16,102.80	192 hrs	\$8,652.80	\$1,730.56	\$7,450.00	\$1,490.00	\$10,383.36	\$8,940.00	\$19,323.36	
		BOM and lonk to FS	\$7,450.00	1 90 hrs	\$0.00	\$0.00	\$7,450.00	\$1,490.00	\$0.00	\$8,940.00	\$8,940.00	
		ME J	\$5,332.00	80 hrs	\$5,332.00	\$1,066.40	\$0.00	\$0.00	\$6,398.40	\$0.00	\$6,398.40	Post

				W	/BS							
ID	WBS	Task Name	Cost	Work	Labor	Lcontingency	Material	Mcontingency	Ltotal	Mtotal	Total	Details
		MT J	\$3,320.80	80 hrs	\$3,320.80	\$664.16	\$0.00	\$0.00	\$3,984.96	\$0.00	\$3,984.96	
		Phy 1 JB	\$0.00	32 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Cost
15	1.1.13	1.1.13 Complete single piece vacuum	\$19,051.00	180 hrs	\$4,151.00	\$830.20	\$14,900.00	\$2,980.00	\$4,981.20	\$17,880.00	\$22,861.20	Cost
		Single Piece vacuum Chamber	\$14,900.00	1	\$0.00	\$0.00	\$14,900.00	\$2,980.00	\$0.00	\$17,880.00	\$17,880.00	Cost
		MT J Phy 1 JB	\$4,151.00 \$0.00	100 hrs 40 hrs	\$4,151.00 \$0.00	\$830.20 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$4,981.20 \$0.00	\$0.00 \$0.00	\$4,981.20 \$0.00	
		Phy 1 SB	\$0.00	40 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Cost
16	1.1.14	1.1.14 Frascati Beampipe 2	\$14,900.00	24 hrs	\$0.00	\$0.00	\$14,900.00	\$2,980.00	\$0.00	\$17,880.00	\$17,880.00	Cost
		Frascati beampipe 2	\$14,900.00	1	\$0.00	\$0.00	\$14,900.00	\$2,980.00	\$0.00	\$17,880.00	\$17,880.00	
		Phy 1 JB	\$0.00	24 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Cost
17	1.1.15	1.1.15 Beam Offset Monitor	\$0.00	16 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Cost
		Phy 1 JB	\$0.00	16 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00)∥Coet
18	1.1.16	1.1.16 Beam Profile Monitor	\$14,900.00	320 hrs	\$0.00	\$0.00	\$14,900.00	\$2,980.00	\$0.00	\$17,880.00	\$17,880.00	Cost
		Beam Offset Monitor	\$4,470.00	1	\$0.00	\$0.00	\$4,470.00	\$894.00	\$0.00	\$5,364.00	\$5,364.00	Cost
		Insertable YAG viewer	\$10,430.00	160 hrs	\$0.00	\$0.00	\$10,430.00	\$2,086.00	\$0.00	\$12,516.00	\$12,516.00	
		Phy 1 JB Phy 1 SB	\$0.00 \$0.00	160 hrs 160 hrs	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	Cost
19	1.1.17	1.1.17 Cavity BPM	\$0.00	40 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Cost
-		Phy 1 JB	\$0.00	40 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Coet
20	1.1.18	1.1.18 Photon Dump	\$30,822.40	336 hrs	\$9,962.40	\$1,992.48	\$20,860.00	\$4,172.00	\$11,954.88	\$25,032.00	\$36,986.88	30 .
		Photon Dump	\$20,860.00	1	\$0.00	\$0.00	\$20,860.00	\$4,172.00	\$0.00	\$25,032.00	\$25,032.00	Cost
		MD J	\$9,962.40	240 hrs	\$9.962.40	\$1,992.48	\$0.00	\$0.00	\$11,954.88	\$0.00	\$11,954.88	
		Phy 1 JB	\$0.00	96 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Cost
21	1.1.19	1.1.19 Shielding	\$27,501.60	200 hrs	\$6,641.60	\$1,328.32	\$20,860.00	\$4,172.00	\$7,969.92	\$25,032.00	\$33,001.92	Cost
		Shielding	\$20,860.00	1	\$0.00	\$0.00	\$20,860.00	\$4,172.00	\$0.00	\$25,032.00	\$25,032.00	Cost
		MD J Phy 1 JB	\$6,641.60	160 hrs	\$6,641.60	\$1,328.32	\$0.00	\$0.00	\$7,969.92	\$0.00	\$7,969.92	
22	1.1.20		\$0.00 \$0.00	40 hrs 64 hrs	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	Cost
	1.1.20	1.1.20 Beamline Installation Phy 1 JB	\$0.00	32 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Cost
			DU.UU				30.00	\$0.00				
23		Phy 1 SB						\$0.00			\$0.00	Cost
	1.1.21	Phy 1 SB 1 1 21 Reamline Installed	\$0.00 \$0.00	32 hrs 0 hrs	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00	Cost
24	1.1.21 1.2	1.1.21 Beamline Installed	\$0.00	32 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00 \$0.00 \$556,561.1 3	Cost Cost
24 25			\$0.00 \$0.00	32 <i>hr</i> s 0 hrs	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$22,356.73	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00 \$556,561.13 \$0.00	Cost Cost Cost Cost
	1.2	1.1.21 Beamline Installed 1.2 SVT 1.2.1 SVT returns from Jlab	\$0.00 \$0.00 \$463,800.94	32 hrs 0 hrs 6,050.33 hrs	\$0.00 \$0.00 \$352,017.30	\$0.00 \$0.00 \$70,403.46	\$0.00 \$0.00 \$111,783.64	\$0.00 \$22,356.73	\$0.00 \$0.00 \$422,420.76	\$0.00 \$0.00 \$134,140.37	\$0.00 \$0.00 \$556,561.13 \$0.00	Cost Cost Cost Cost Cost Cost
25	1.2 1.2.1	1.1.21 Beamline Installed 1.2 SVT 1.2.1 SVT returns from Jlab 1.2.2 SVT Engineering Design Review	\$0.00 \$0.00 \$463,800.94 \$0.00	32 hrs 0 hrs 6,050.33 hrs 0 hrs	\$0.00 \$0.00 \$352,017.30 \$0.00	\$0.00 \$0.00 \$70,403.46 \$0.00	\$0.00 \$0.00 \$111,783.64 \$0.00	\$0.00 \$22,356.73 \$0.00	\$0.00 \$0.00 \$422,420.76 \$0.00	\$0.00 \$0.00 \$134,140.37 \$0.00	\$0.00 \$0.00 \$556,561.13 \$0.00	Cost Cost Cost Cost Cost Cost
25 26	1.2 1.2.1 1.2.2	1.1.21 Beamline Installed 1.2 SVT 1.2.1 SVT returns from Jlab 1.2.2 SVT Engineering Design Review 1.2.3 Layers 1-3	\$0.00 \$0.00 \$463,800.94 \$0.00 \$0.00 \$96,505.20 \$16,340.40	32 hrs 0 hrs 6,050.33 hrs 0 hrs 1,540 hrs	\$0.00 \$0.00 \$352,017.30 \$0.00 \$53,305.20 \$16,340.40	\$0.00 \$0.00 \$70,403.46 \$0.00 \$0.00 \$10,661.04 \$3,268.08	\$0.00 \$0.00 \$111,783.64 \$0.00 \$0.00 \$43,200.00	\$0.00 \$22,356.73 \$0.00 \$0.00 \$8,640.00 \$0.00	\$0.00 \$0.00 \$422,420.76 \$0.00 \$0.00 \$63,966.24 \$19,608.48	\$0.00 \$0.00 \$134,140.37 \$0.00 \$0.00 \$51,840.00 \$0.00	\$0.00 \$0.00 \$556,561.13 \$0.00 \$115,806.24 \$19,608.48	Cost Cost Cost Cost Cost Cost Cost Cost
25 26	1.2 1.2.1 1.2.2	1.1.21 Beamline Installed 1.2 SVT 1.2.1 SVT returns from Jlab 1.2.2 SVT Engineering Design Review 1.2.3 Layers 1-3 MT S MD S	\$0.00 \$0.00 \$463,800.94 \$0.00 \$0.00 \$96,505.20 \$16,340.40 \$22,276.80	32 hrs 0 hrs 6,050.33 hrs 0 hrs 0 hrs 1,540 hrs 120 hrs 160 hrs	\$0.00 \$0.00 \$352,017.30 \$0.00 \$53,305.20 \$16,340.40 \$22,276.80	\$0.00 \$0.00 \$70,403.46 \$0.00 \$0.00 \$10,661.04 \$3,268.08 \$4,455.36	\$0.00 \$0.00 \$111,783.64 \$0.00 \$0.00 \$43,200.00 \$0.00	\$0.00 \$22,356.73 \$0.00 \$0.00 \$8,640.00 \$0.00 \$0.00	\$0.00 \$0.00 \$422,420.76 \$0.00 \$0.00 \$63,966.24 \$19,608.48 \$26,732.16	\$0.00 \$0.00 \$134,140.37 \$0.00 \$0.00 \$51,840.00 \$0.00	\$0.00 \$0.00 \$556,561.13 \$0.00 \$0.00 \$115,806.24 \$19,608.48 \$26,732.16	Cost Cost Cost Cost Cost Cost Cost Cost
25 26	1.2 1.2.1 1.2.2	1.1.21 Beamline Installed 1.2 SVT 1.2.1 SVT returns from Jlab 1.2.2 SVT Engineering Design Reviev 1.2.3 Layers 1-3 MT S MD S Tensioners	\$0.00 \$0.00 \$463,800.94 \$0.00 \$0.00 \$96,505.20 \$16,340.40 \$22,276.80 \$12,960.00	32 hrs 0 hrs 6,050.33 hrs 0 hrs 0 hrs 1,540 hrs 120 hrs 160 hrs	\$0.00 \$0.00 \$352,017.30 \$0.00 \$53,305.20 \$16,340.40 \$22,276.80 \$0.00	\$0.00 \$0.00 \$70,403.46 \$0.00 \$10,661.04 \$3,268.08 \$4,455.36 \$0.00	\$0.00 \$0.00 \$111,783.64 \$0.00 \$0.00 \$43,200.00 \$0.00 \$12,960.00	\$0.00 \$22,356.73 \$0.00 \$0.00 \$8,640.00 \$0.00 \$0.00 \$2,592.00	\$0.00 \$0.00 \$422,420.76 \$0.00 \$63,966.24 \$19,608.48 \$26,732.16 \$0.00	\$0.00 \$0.00 \$134,140.37 \$0.00 \$0.00 \$51,840.00 \$0.00 \$15,552.00	\$0.00 \$0.00 \$556,561.13 \$0.00 \$115,806.24 \$19,608.48 \$26,732.16 \$15,552.00	Cost Cost Cost Cost Cost Cost Cost Cost
25 26	1.2 1.2.1 1.2.2	1.1.21 Beamline Installed 1.2 SVT 1.2.1 SVT returns from Jlab 1.2.2 SVT Engineering Design Review 1.2.3 Layers 1-3 MT S MD S	\$0.00 \$0.00 \$463,800.94 \$0.00 \$0.00 \$96,505.20 \$16,340.40 \$22,276.80	32 hrs 0 hrs 6,050.33 hrs 0 hrs 0 hrs 1,540 hrs 120 hrs 160 hrs	\$0.00 \$0.00 \$352,017.30 \$0.00 \$53,305.20 \$16,340.40 \$22,276.80	\$0.00 \$0.00 \$70,403.46 \$0.00 \$0.00 \$10,661.04 \$3,268.08 \$4,455.36	\$0.00 \$0.00 \$111,783.64 \$0.00 \$0.00 \$43,200.00 \$0.00	\$0.00 \$22,356.73 \$0.00 \$0.00 \$8,640.00 \$0.00 \$0.00	\$0.00 \$0.00 \$422,420.76 \$0.00 \$0.00 \$63,966.24 \$19,608.48 \$26,732.16	\$0.00 \$0.00 \$134,140.37 \$0.00 \$0.00 \$51,840.00 \$0.00	\$0.00 \$0.00 \$556,561.13 \$0.00 \$1.00 \$115,806.24 \$19,608.48 \$26,732.16 \$15,552.00 \$12,960.00	Cost Cost Cost Cost Cost Cost Cost Cost
25 26	1.2 1.2.1 1.2.2	1.1.21 Beamline Installed 1.2 SVT 1.2.1 SVT returns from Jlab 1.2.2 SVT Engineering Design Reviev 1.2.3 Layers 1-3 MT S MD S Tensioners Assembly Fixture Wirebonding Fixture U Support	\$0.00 \$0.00 \$463,800.94 \$0.00 \$96,505.20 \$16,340.40 \$22,276.80 \$12,960.00 \$10,800.00 \$5,400.00 \$10,800.00	32 hrs 0 hrs 6,050.33 hrs 0 hrs 0 hrs 1,540 hrs 120 hrs 160 hrs 8 4 2 2	\$0.00 \$0.00 \$352,017.30 \$0.00 \$53,305.20 \$16,340.40 \$22,276.80 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$70,403.46 \$0.00 \$10,661.04 \$3,268.08 \$4,455.36 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$111,783.64 \$0.00 \$0.00 \$43,200.00 \$0.00 \$12,960.00 \$10,800.00 \$10,800.00	\$0.00 \$22,356.73 \$0.00 \$0.00 \$8,640.00 \$0.00 \$2,592.00 \$2,160.00 \$1,080.00 \$2,160.00	\$0.00 \$0.00 \$422,420.76 \$0.00 \$63,966.24 \$19,608.48 \$26,732.16 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$134,140.37 \$0.00 \$0.00 \$51,840.00 \$0.00 \$15,552.00 \$12,960.00 \$12,960.00 \$12,960.00	\$0.00 \$0.00 \$556,561.13 \$0.00 \$115,806.24 \$19,608.48 \$26,732.16 \$15,552.00 \$12,960.00 \$12,960.00	Cost Cost Cost Cost Cost Cost Cost Cost
25 26	1.2 1.2.1 1.2.2	1.1.21 Beamline Installed 1.2 SVT 1.2.1 SVT returns from Jlab 1.2.2 SVT Engineering Design Reviev 1.2.3 Layers 1-3 MT S MD S Tensioners Assembly Fixture Wirebonding Fixture U Support Cables Fixtures	\$0.00 \$0.00 \$463,800.94 \$0.00 \$96,505.20 \$16,340.40 \$22,276.80 \$12,960.00 \$10,800.00 \$5,400.00 \$3,240.00	32 hrs 0 hrs 6,050.33 hrs 0 hrs 0 hrs 1,540 hrs 120 hrs 160 hrs 4 2 2 1	\$0.00 \$0.00 \$352,017.30 \$0.00 \$53,305.20 \$16,340.40 \$22,276.80 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$70,403.46 \$0.00 \$10,661.04 \$3,268.08 \$4,455.36 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$111,783.64 \$0.00 \$0.00 \$43,200.00 \$0.00 \$10,800.00 \$10,800.00 \$10,800.00 \$3,240.00	\$0.00 \$22,356.73 \$0.00 \$0.00 \$8,640.00 \$0.00 \$2,592.00 \$2,160.00 \$1,080.00 \$2,160.00 \$2,160.00 \$2,460.00	\$0.00 \$0.00 \$422,420.76 \$0.00 \$63,966.24 \$19,608.48 \$26,732.16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$134,140.37 \$0.00 \$0.00 \$51,840.00 \$0.00 \$15,552.00 \$12,960.00 \$12,960.00 \$3,888.00	\$0.00 \$0.00 \$556,561.13 \$0.00 \$115,806.24 \$19,608.48 \$26,732.16 \$15,552.00 \$12,960.00 \$12,960.00 \$3,888.00	Cost Cost Cost Cost Cost Cost Cost Cost
25 26	1.2 1.2.1 1.2.2	1.1.21 Beamline Installed 1.2 SVT 1.2.1 SVT returns from Jlab 1.2.2 SVT Engineering Design Reviev 1.2.3 Layers 1-3 MT S MD S Tensioners Assembly Fixture Wirebonding Fixture U Support Cables Fixtures Phy 3 SV	\$0.00 \$0.00 \$463,800.94 \$0.00 \$96,505.20 \$16,340.40 \$22,276.80 \$12,960.00 \$10,800.00 \$3,240.00 \$3,240.00	32 hrs 0 hrs 6,050.33 hrs 0 hrs 0 hrs 1,540 hrs 120 hrs 160 hrs 4 2 2 1 590 hrs	\$0.00 \$0.00 \$352,017.30 \$0.00 \$53,305.20 \$16,340.40 \$22,276.80 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$70,403.46 \$0.00 \$10,661.04 \$3,268.08 \$4,455.36 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$111,783.64 \$0.00 \$0.00 \$43,200.00 \$0.00 \$12,960.00 \$5,400.00 \$10,800.00 \$3,240.00 \$0.00	\$0.00 \$22,356.73 \$0.00 \$0.00 \$8,640.00 \$0.00 \$2,592.00 \$2,160.00 \$1,080.00 \$2,160.00 \$48.00 \$0.00	\$0.00 \$0.00 \$422,420.76 \$0.00 \$63,966.24 \$19,608.48 \$26,732.16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$134,140.37 \$0.00 \$0.00 \$51,840.00 \$0.00 \$15,552.00 \$12,960.00 \$6,480.00 \$3,888.00 \$0.00	\$0.00 \$0.00 \$556,561.13 \$0.00 \$115,806.24 \$19,608.45 \$26,732.16 \$15,552.00 \$12,960.00 \$6,480.00 \$3,888.00 \$0.00	Cost Cost Cost Cost Cost Cost Cost Cost
25 26	1.2 1.2.1 1.2.2	1.1.21 Beamline Installed 1.2 SVT 1.2.1 SVT returns from Jlab 1.2.2 SVT Engineering Design Reviev 1.2.3 Layers 1-3 MT S MD S Tensioners Assembly Fixture Wirebonding Fixture U Support Cables Fixtures	\$0.00 \$0.00 \$463,800.94 \$0.00 \$96,505.20 \$16,340.40 \$22,276.80 \$12,960.00 \$10,800.00 \$5,400.00 \$3,240.00	32 hrs 0 hrs 6,050.33 hrs 0 hrs 0 hrs 1,540 hrs 120 hrs 160 hrs 4 2 2 1	\$0.00 \$0.00 \$352,017.30 \$0.00 \$53,305.20 \$16,340.40 \$22,276.80 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$70,403.46 \$0.00 \$10,661.04 \$3,268.08 \$4,455.36 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$111,783.64 \$0.00 \$0.00 \$43,200.00 \$0.00 \$10,800.00 \$10,800.00 \$10,800.00 \$3,240.00	\$0.00 \$22,356.73 \$0.00 \$0.00 \$8,640.00 \$0.00 \$2,592.00 \$2,160.00 \$1,080.00 \$2,160.00 \$2,160.00 \$2,460.00	\$0.00 \$0.00 \$422,420.76 \$0.00 \$63,966.24 \$19,608.48 \$26,732.16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$134,140.37 \$0.00 \$0.00 \$51,840.00 \$0.00 \$15,552.00 \$12,960.00 \$12,960.00 \$3,888.00	\$0.00 \$0.00 \$556,561.13 \$0.00 \$115,806.24 \$19,608.48 \$26,732.16 \$15,552.00 \$12,960.00 \$1,960.00 \$3,888.00 \$0.00 \$1,955.60	Cost Cost Cost Cost Cost Cost Cost Cost
25 26 27	1.2 1.2.1 1.2.2	1.1.21 Beamline Installed 1.2 SVT 1.2.1 SVT returns from Jlab 1.2.2 SVT Engineering Design Reviev 1.2.3 Layers 1-3 MT S MD S Tensioners Assembly Fixture Wirebonding Fixture U Support Cables Fixtures Phy 3 SV Phy 4 SV	\$0.00 \$0.00 \$463,800.94 \$0.00 \$96,505.20 \$16,340.40 \$22,276.00 \$10,800.00 \$5,400.00 \$3,240.00 \$0.00	32 hrs 0 hrs 6,050.33 hrs 0 hrs 1,540 hrs 120 hrs 160 hrs 2 2 2 1 590 hrs 590 hrs	\$0.00 \$0.00 \$352,017.30 \$0.00 \$53,305.20 \$16,340.40 \$22,276.80 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$70,403.46 \$0.00 \$10,661.04 \$3,268.08 \$4,455.36 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$111,783.64 \$0.00 \$0.00 \$43,200.00 \$0.00 \$10,800.00 \$10,800.00 \$3,240.00 \$0.00 \$0.00	\$0.00 \$22,356.73 \$0.00 \$0.00 \$8,640.00 \$0.00 \$2,592.00 \$2,160.00 \$1,080.00 \$2,160.00 \$0.00 \$0.00	\$0.00 \$0.00 \$422,420.76 \$0.00 \$0.00 \$63,966.24 \$19,608.48 \$26,732.16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$134,140.37 \$0.00 \$0.00 \$51,840.00 \$0.00 \$15,552.00 \$12,960.00 \$12,960.00 \$3,888.00 \$0.00 \$0.00	\$0.00 \$0.00 \$556,561.13 \$0.00 \$115,806.24 \$19,608.48 \$26,732.16 \$15,552.00 \$12,960.00 \$1,960.00 \$3,888.00 \$0.00 \$1,955.60	Cost Cost Cost Cost Cost Cost Cost Cost
25 26 27	1.2 1.2.1 1.2.2 1.2.3	1.1.21 Beamline Installed 1.2 SVT 1.2.1 SVT returns from Jlab 1.2.2 SVT Engineering Design Reviev 1.2.3 Layers 1-3 MT S MD S Tensioners Assembly Fixture Wirebonding Fixture U Support Cables Fixtures Phy 3 SV Phy 4 SV ME S 1.2.4 Layers 4-6 MD S	\$0.00 \$0.00 \$463,800.94 \$0.00 \$96,505.20 \$16,340.40 \$22,276.80 \$12,960.00 \$10,800.00 \$5,400.00 \$0.00 \$0.00 \$14,688.00 \$103,219.20	32 hrs 0 hrs 6,050.33 hrs 0 hrs 0 hrs 1,540 hrs 120 hrs 160 hrs 2 2 1 590 hrs 590 hrs 80 hrs 1,315 hrs	\$0.00 \$0.00 \$352,017.30 \$0.00 \$53,305.20 \$16,340.40 \$22,276.80 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$14,688.00 \$62,179.20	\$0.00 \$0.00 \$70,403.46 \$0.00 \$10,661.04 \$3,268.08 \$4,455.36 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$12,435.84 \$4,455.36	\$0.00 \$0.00 \$111,783.64 \$0.00 \$0.00 \$43,200.00 \$0.00 \$10,800.00 \$10,800.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$22,356.73 \$0.00 \$0.00 \$8,640.00 \$0.00 \$2,592.00 \$2,160.00 \$1,080.00 \$0.00 \$0.00 \$0.00 \$50.00 \$0.00 \$0.00 \$0.00 \$8,208.00	\$0.00 \$0.00 \$422,420.76 \$0.00 \$63,966.24 \$19,608.48 \$26,732.16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$17,625.60 \$74,615.04	\$0.00 \$0.00 \$134,140.37 \$0.00 \$51,840.00 \$51,840.00 \$12,960.00 \$12,960.00 \$12,960.00 \$3,888.00 \$0.00 \$0.00 \$0.00 \$49,248.00 \$0.00	\$0.00 \$0.00 \$556,561.13 \$0.00 \$115,806.24 \$19,608.48 \$26,732.16 \$15,552.00 \$6,480.00 \$3,888.00 \$0.00 \$12,960.00 \$17,625.60 \$123,863.04	Cost Cost Cost Cost Cost Cost Cost Cost
25 26 27	1.2 1.2.1 1.2.2 1.2.3	1.1.21 Beamline Installed 1.2 SVT 1.2.1 SVT returns from Jlab 1.2.2 SVT Engineering Design Reviev 1.2.3 Layers 1-3 MT S MD S Tensioners Assembly Fixture Wirebonding Fixture U Support Cables Fixtures Phy 3 SV Phy 4 SV ME S 1.2.4 Layers 4-6 MD S MT S	\$0.00 \$0.00 \$463,800.94 \$0.00 \$96,505.20 \$16,340.40 \$22,276.80 \$12,960.00 \$10,800.00 \$5,400.00 \$0.00 \$10,800.00 \$10,800.00 \$10,800.00 \$10,800.00 \$10,800.00 \$2,276.80 \$103,219.20 \$22,276.80 \$21,787.20	32 hrs 0 hrs 6,050.33 hrs 0 hrs 0 hrs 1,540 hrs 120 hrs 160 hrs 4 2 2 2 1 590 hrs 590 hrs 80 hrs 1,315 hrs 160 hrs	\$0.00 \$0.00 \$352,017.30 \$0.00 \$53,305.20 \$16,340.40 \$22,276.80 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$14,688.00 \$62,179.20 \$22,276.80 \$21,787.20	\$0.00 \$0.00 \$70,403.46 \$0.00 \$10,661.04 \$3,268.08 \$4,455.36 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$2,937.60 \$12,435.84 \$4,455.36 \$4,357.44	\$0.00 \$0.00 \$111,783.64 \$0.00 \$0.00 \$43,200.00 \$0.00 \$10,800.00 \$10,800.00 \$1,000.00 \$0.00 \$0.00 \$41,040.00 \$0.00 \$0.00 \$0.00	\$0.00 \$22,356.73 \$0.00 \$0.00 \$8,640.00 \$0.00 \$2,592.00 \$2,160.00 \$1,080.00 \$2,000 \$2,000 \$3,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000	\$0.00 \$0.00 \$422,420.76 \$0.00 \$63,966.24 \$19,608.48 \$26,732.16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$17,625.60 \$74,615.04 \$26,732.16 \$26,732.16	\$0.00 \$0.00 \$134,140.37 \$0.00 \$51,840.00 \$51,840.00 \$12,960.00 \$12,960.00 \$12,960.00 \$3,888.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$556,561.13 \$0.00 \$115,806.24 \$19,608.48 \$26,732.16 \$15,552.00 \$12,960.00 \$12,960.00 \$12,960.00 \$17,625.60 \$17,625.60 \$17,625.60 \$123,863.04 \$26,732.16 \$26,144.64	Cost Cost Cost Cost Cost Cost Cost Cost
25 26 27	1.2 1.2.1 1.2.2 1.2.3	1.1.21 Beamline Installed 1.2 SVT 1.2.1 SVT returns from Jlab 1.2.2 SVT Engineering Design Reviev 1.2.3 Layers 1-3 MT S MD S Tensioners Assembly Fixture Wirebonding Fixture U Support Cables Fixtures Phy 3 SV Phy 4 SV ME S 1.2.4 Layers 4-6 MD S MT S ET S	\$0.00 \$0.00 \$463,800.94 \$0.00 \$96,505.20 \$16,340.40 \$12,276.80 \$12,960.00 \$10,800.00 \$5,400.00 \$3,240.00 \$0.00 \$14,688.00 \$103,219.20 \$22,276.80 \$22,276.80 \$4,345.20	32 hrs 0 hrs 0 hrs 6,050.33 hrs 0 hrs 1,540 hrs 120 hrs 160 hrs 4 2 2 1 590 hrs 590 hrs 80 hrs 1,315 hrs 160 hrs 160 hrs 160 hrs 40 hrs	\$0.00 \$0.00 \$352,017.30 \$0.00 \$53,305.20 \$16,340.40 \$22,276.80 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$14,688.00 \$62,179.20 \$22,276.80 \$21,787.20 \$4,345.20	\$0.00 \$0.00 \$70,403.46 \$0.00 \$10,661.04 \$3,268.08 \$4,455.36 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$1,435.84 \$4,455.36 \$4,455.36 \$4,357.44 \$869.04	\$0.00 \$0.00 \$111,783.64 \$0.00 \$0.00 \$43,200.00 \$0.00 \$12,960.00 \$10,800.00 \$5,400.00 \$0.00 \$0.00 \$41,040.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$22,356.73 \$0.00 \$0.00 \$8,640.00 \$0.00 \$2,592.00 \$2,160.00 \$1,080.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$63,966.24 \$19,608.48 \$26,732.16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$17,625.60 \$74,615.04 \$26,732.16 \$26,732.16 \$26,732.16	\$0.00 \$0.00 \$134,140.37 \$0.00 \$0.00 \$51,840.00 \$0.00 \$15,552.00 \$12,960.00 \$6,480.00 \$3,888.00 \$0.00 \$0.00 \$0.00 \$49,248.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$556,561.13 \$0.00 \$115,806.24 \$19,608.46 \$15,552.00 \$6,480.00 \$12,960.00 \$3,888.00 \$0.00 \$17,625.60 \$123,863.04 \$26,732.16 \$26,742.46 \$5,214.24	Cost Cost Cost Cost Cost Cost Cost Cost
25 26 27	1.2 1.2.1 1.2.2 1.2.3	1.1.21 Beamline Installed 1.2 SVT 1.2.1 SVT returns from Jlab 1.2.2 SVT Engineering Design Reviev 1.2.3 Layers 1-3 MT S MD S Tensioners Assembly Fixture Wirebonding Fixture U Support Cables Fixtures Phy 3 SV Phy 4 SV ME S 1.2.4 Layers 4-6 MD S MT S ET S FNAL Composite Cables Fixtures	\$0.00 \$0.00 \$463,800.94 \$0.00 \$96,505.20 \$16,340.40 \$22,276.80 \$12,960.00 \$10,800.00 \$5,400.00 \$0.00 \$10,800.00 \$10,800.00 \$10,800.00 \$10,800.00 \$10,800.00 \$2,276.80 \$103,219.20 \$22,276.80 \$21,787.20	32 hrs 0 hrs 6,050.33 hrs 0 hrs 0 hrs 1,540 hrs 120 hrs 160 hrs 4 2 2 2 1 590 hrs 590 hrs 80 hrs 1,315 hrs 160 hrs	\$0.00 \$0.00 \$352,017.30 \$0.00 \$53,305.20 \$16,340.40 \$22,276.80 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$14,688.00 \$62,179.20 \$22,276.80 \$21,787.20	\$0.00 \$0.00 \$70,403.46 \$0.00 \$10,661.04 \$3,268.08 \$4,455.36 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$2,937.60 \$12,435.84 \$4,455.36 \$4,357.44	\$0.00 \$0.00 \$111,783.64 \$0.00 \$0.00 \$43,200.00 \$0.00 \$10,800.00 \$10,800.00 \$1,000.00 \$0.00 \$0.00 \$41,040.00 \$0.00 \$0.00 \$0.00	\$0.00 \$22,356.73 \$0.00 \$0.00 \$8,640.00 \$0.00 \$2,592.00 \$2,160.00 \$1,080.00 \$2,000 \$2,000 \$3,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000	\$0.00 \$0.00 \$422,420.76 \$0.00 \$63,966.24 \$19,608.48 \$26,732.16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$17,625.60 \$74,615.04 \$26,732.16 \$26,732.16	\$0.00 \$0.00 \$134,140.37 \$0.00 \$51,840.00 \$51,840.00 \$12,960.00 \$12,960.00 \$12,960.00 \$3,888.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$556,561.13 \$0.00 \$115,806.24 \$19,608.46 \$15,552.00 \$6,480.00 \$12,960.00 \$3,888.00 \$0.00 \$17,625.60 \$123,863.04 \$26,732.16 \$26,742.46 \$5,214.24	Cost Cost Cost Cost Cost Cost Cost Cost
25 26 27	1.2 1.2.1 1.2.2 1.2.3	1.1.21 Beamline Installed 1.2 SVT 1.2.1 SVT returns from Jlab 1.2.2 SVT Engineering Design Reviev 1.2.3 Layers 1-3 MT S MD S Tensioners Assembly Fixture Wirebonding Fixture U Support Cables Fixtures Phy 3 SV Phy 4 SV ME S 1.2.4 Layers 4-6 MD S MT S ET S FNAL Composite Cables Fixtures Wirebonding Fixture	\$0.00 \$0.00 \$1.00 \$0.00 \$0.00 \$96,505.20 \$16,340.40 \$22,276.80 \$12,960.00 \$10,800.00 \$5,400.00 \$3,240.00 \$10,807.00 \$10,807.00 \$22,276.80 \$10,219.20 \$22,276.80 \$21,787.20 \$4,345.20 \$3,240.00 \$5,400.00 \$5,400.00	32 hrs 0 hrs 0 hrs 6,050.33 hrs 0 hrs 1,540 hrs 120 hrs 160 hrs 8 4 2 2 2 1 590 hrs 590 hrs 80 hrs 1,315 hrs 160 hrs 40 hrs 160 hrs	\$0.00 \$0.00 \$352,017.30 \$0.00 \$53,305.20 \$16,340.40 \$22,276.80 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$14,688.00 \$62,179.20 \$22,276.80 \$21,787.20 \$4,345.20 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$70,403.46 \$0.00 \$10,661.04 \$3,268.08 \$4,455.36 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$12,435.84 \$4,455.36 \$4,357.44 \$869.04 \$0.00 \$0.	\$0.00 \$0.00 \$111,783.64 \$0.00 \$0.00 \$43,200.00 \$0.00 \$10,800.00 \$10,800.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$22,356.73 \$0.00 \$0.00 \$8,640.00 \$0.00 \$2,592.00 \$2,160.00 \$1,080.00 \$0.00 \$2,000 \$2,000 \$2,000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$1,080.00 \$0.00 \$1,080.00 \$1,080.00	\$0.00 \$0.00 \$1.00 \$0.00 \$63,966.24 \$19,608.48 \$26,732.16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$17,625.60 \$74,615.04 \$26,732.16 \$26,732.16 \$26,144.64 \$5,214.24 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$134,140.37 \$0.00 \$51,840.00 \$51,840.00 \$12,960.00 \$12,960.00 \$33,888.00 \$0.00 \$0.00 \$49,248.00 \$0.00	\$0.00 \$0.00 \$556,561.13 \$0.00 \$115,806.24 \$19,608.48 \$26,732.16 \$15,552.00 \$12,960.00 \$12,960.00 \$17,625.60 \$123,863.04 \$26,732.16 \$26,144.64 \$5,214.24 \$0.00 \$3,888.00 \$3,888.00	Cost Cost Cost Cost Cost Cost Cost Cost
25 26 27	1.2 1.2.1 1.2.2 1.2.3	1.1.21 Beamline Installed 1.2 SVT 1.2.1 SVT returns from Jlab 1.2.2 SVT Engineering Design Reviev 1.2.3 Layers 1-3 MT S MD S Tensioners Assembly Fixture Wirebonding Fixture U Support Cables Fixtures Phy 3 SV Phy 4 SV ME S 1.2.4 Layers 4-6 MD S MT S ET S FNAL Composite Cables Fixtures Wirebonding Fixture	\$0.00 \$0.00 \$463,800.94 \$0.00 \$96,505.20 \$16,340.40 \$22,276.80 \$12,960.00 \$10,800.00 \$5,400.00 \$0.00 \$14,688.00 \$103,219.20 \$22,276.80 \$21,787.20 \$4,345.20 \$0.00 \$3,340.00 \$15,400.00 \$15,400.00 \$15,400.00 \$15,400.00 \$15,400.00	32 hrs 0 hrs 0 hrs 6,050.33 hrs 0 hrs 1,540 hrs 120 hrs 160 hrs 4 2 2 1 590 hrs 590 hrs 80 hrs 1,315 hrs 160 hrs 160 hrs 160 hrs 160 hrs 160 hrs 100 hrs	\$0.00 \$0.00 \$352,017.30 \$0.00 \$53,305.20 \$16,340.40 \$22,276.80 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$14,688.00 \$22,276.80 \$22,276.80 \$22,276.80 \$21,787.20 \$4,345.20 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$10,403.46 \$0.00 \$10,661.04 \$3,268.08 \$4,455.36 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$2,937.60 \$12,435.84 \$4,455.36 \$4,357.44 \$869.04 \$0.00	\$0.00 \$0.00 \$111,783.64 \$0.00 \$43,200.00 \$12,960.00 \$10,800.00 \$5,400.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$1,000 \$0.00 \$1,000 \$0.00 \$1,000 \$	\$0.00 \$22,356.73 \$0.00 \$0.00 \$8,640.00 \$0.00 \$2,592.00 \$2,160.00 \$1,080.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$1,080.00 \$0.00 \$1,080.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$63,966.24 \$19,608.48 \$26,732.16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$17,625.60 \$74,615.04 \$26,732.16 \$26,144.64 \$5,214.24 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$134,140.37 \$0.00 \$51,840.00 \$51,840.00 \$15,552.00 \$12,960.00 \$3,888.00 \$0.00	\$0.00 \$0.00 \$0.00 \$1.00	Cost Cost Cost Cost Cost Cost Cost Cost
25 26 27	1.2 1.2.1 1.2.2 1.2.3	1.1.21 Beamline Installed 1.2 SVT 1.2.1 SVT returns from Jlab 1.2.2 SVT Engineering Design Reviev 1.2.3 Layers 1-3 MT S MD S Tensioners Assembly Fixture Wirebonding Fixture U Support Cables Fixtures Phy 3 SV Phy 4 SV ME S 1.2.4 Layers 4-6 MD S MT S ET S FNAL Composite Cables Fixtures Wirebonding Fixture	\$0.00 \$0.00 \$1.00 \$0.00 \$0.00 \$96,505.20 \$16,340.40 \$22,276.80 \$12,960.00 \$10,800.00 \$5,400.00 \$3,240.00 \$10,807.00 \$10,807.00 \$22,276.80 \$10,219.20 \$22,276.80 \$21,787.20 \$4,345.20 \$3,240.00 \$5,400.00 \$5,400.00	32 hrs 0 hrs 0 hrs 6,050.33 hrs 0 hrs 1,540 hrs 120 hrs 160 hrs 8 4 2 2 2 1 590 hrs 590 hrs 80 hrs 1,315 hrs 160 hrs 40 hrs 160 hrs	\$0.00 \$0.00 \$352,017.30 \$0.00 \$53,305.20 \$16,340.40 \$22,276.80 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$14,688.00 \$62,179.20 \$22,276.80 \$21,787.20 \$4,345.20 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$70,403.46 \$0.00 \$10,661.04 \$3,268.08 \$4,455.36 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$12,435.84 \$4,455.36 \$4,357.44 \$869.04 \$0.00 \$0.	\$0.00 \$0.00 \$111,783.64 \$0.00 \$0.00 \$43,200.00 \$0.00 \$10,800.00 \$10,800.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$22,356.73 \$0.00 \$0.00 \$8,640.00 \$0.00 \$2,592.00 \$2,160.00 \$1,080.00 \$0.00 \$2,000 \$2,000 \$2,000 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$1,080.00 \$0.00 \$1,080.00 \$1,080.00	\$0.00 \$0.00 \$1.00 \$0.00 \$63,966.24 \$19,608.48 \$26,732.16 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$17,625.60 \$74,615.04 \$26,732.16 \$26,732.16 \$26,144.64 \$5,214.24 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$134,140.37 \$0.00 \$51,840.00 \$51,840.00 \$12,960.00 \$12,960.00 \$33,888.00 \$0.00 \$0.00 \$49,248.00 \$0.00	\$0.00 \$0.00 \$556,561.13 \$0.00 \$115,806.24 \$19,608.48 \$26,732.16 \$15,552.00 \$12,960.00 \$12,960.00 \$17,625.60 \$123,863.04 \$26,732.16 \$26,144.64 \$5,214.24 \$0.00 \$3,888.00 \$3,888.00	Cost Cost Cost Cost Cost Cost Cost Cost

				V	/BS							
ID	WBS	Task Name	Cost	Work	Labor	Lcontingency	Material	Mcontingency	Ltotal	Mtotal	Total	Details
		Phy 4 SV	\$0.00	440 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Cost
		MÉS	\$13,770.00	75 hrs	\$13,770.00	\$2,754.00	\$0.00	\$0.00	\$16,524.00	\$0.00	\$16,524.00	Cost
29	1.2.5	1.2.5 C-Support	\$22,004.10	510 hrs	\$19,844.10	\$3,968.82	\$2,160.00	\$432.00	\$23,812.92	\$2,592.00	\$26,404.92	2 Cost
		MD S	\$11,138.40	80 hrs	\$11,138.40	\$2,227.68	\$0.00	\$0.00	\$13,366.08	\$0.00	\$13,366.08	
		MTS	\$1,361.70	10 hrs	\$1,361.70	\$272.34	\$0.00	\$0.00	\$1,634.04	\$0.00	\$1,634.04	4 Cost
		C-support -	\$2,160.00	1	\$0.00	\$0.00	\$2,160.00	\$432.00	\$0.00	\$2,592.00	\$2,592.00	
		Phy 3 SV	\$0.00	190 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	Cost
		Phy 4 SV ME S	\$0.00 \$7,344.00	190 hrs 40 hrs	\$0.00 \$7,344.00	\$0.00 \$1,468.80	\$0.00 \$0.00		\$0.00 \$8,812.80	\$0.00 \$0.00	\$0.00 \$8,812.80	Cost
30	1.2.6		\$22,085.00	248 hrs	\$18,360.00	\$3,672.00	\$3,725.00		\$22,032.00	\$4,470.00	\$26,502.00	n Cost
- 50	1.2.0	1.2.6 DAQ Support/Cooling									Φ20,002.0	Cost
		MD S MT S	\$5,569.20	40 hrs	\$5,569.20	\$1,113.84	\$0.00		\$6,683.04	\$0.00	\$6,683.04	
		DAQ Support	\$5,446.80 \$3,725.00	40 hrs	\$5,446.80 \$0.00	\$1,089.36 \$0.00	\$0.00 \$3,725.00	\$0.00 \$745.00	\$6,536.16 \$0.00	\$0.00 \$4,470.00	\$6,536.16 \$4,470.00	
		Phy 3 SV	\$0.00	64 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$4,470.00	Cost
		Phy 4 SV	\$0.00	64 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	Cost
		MÉ S	\$7,344.00	40 hrs	\$7,344.00	\$1,468.80	\$0.00		\$8,812.80	\$0.00	\$8,812.80	Cost
31	1.2.7	1.2.7 Baseplate	\$23,760.00	440 hrs	\$18,360.00	\$3,672.00	\$5,400.00	\$1,080.00	\$22,032.00	\$6,480.00	\$28,512.00	O _{Cost}
		MD S	\$5,569.20	40 hrs	\$5,569.20	\$1,113.84	\$0.00	\$0.00	\$6,683.04	\$0.00	\$6,683.04	4 Cost
		MTS	\$5,446.80	40 hrs	\$5,446.80	\$1,089.36	\$0.00		\$6,536.16	\$0.00	\$6,536.16	Cost
		Baseplate	\$5,400.00	1	\$0.00	\$0.00	\$5,400.00	\$1,080.00	\$0.00	\$6,480.00	\$6,480.00	Cost
		Phy 3 SV	\$0.00	160 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	Cost
		Phy 4 SV	\$0.00	160 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Cost
32	1 2 0	ME S	\$7,344.00 \$28,126.80	40 hrs 320 hrs	\$7,344.00 \$23,806.80	\$1,468.80 \$4,761.36	\$0.00 \$4,320.00		\$8,812.80 \$28,568.16	<i>\$0.00</i> \$5,184.00	\$8,812.80	Cost
32	1.2.8	1.2.8 Motion Levers									\$33,752.10	
		MD S	\$5,569.20	40 hrs	\$5,569.20	\$1,113.84	\$0.00	\$0.00	\$6,683.04	\$0.00	\$6,683.04	
		MT S	\$10,893.60	80 hrs	\$10,893.60	\$2,178.72	\$0.00	\$0.00	\$13,072.32	\$0.00	\$13,072.32	Cost
		Flex links Phy 3 SV	\$4,320.00 \$0.00	2 80 hrs	\$0.00 \$0.00	\$0.00 \$0.00	\$4,320.00 \$0.00	\$864.00 \$0.00	\$0.00 \$0.00	\$5,184.00 \$0.00	\$5,184.00 \$0.00	Cost
		Phy 4 SV	\$0.00	80 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00		Cost
		MES	\$7,344.00	40 hrs	\$7,344.00	\$1,468.80	\$0.00		\$8,812.80	\$0.00	\$2 212 20	Coet
33	1.2.9	1.2.9 Vacuum Flanges	\$60,507.20	544 hrs	\$58,507.20		\$2,000.00		\$70,208.64	\$2,400.00	\$72,608.6	4 Coot
		MD S	\$11,138.40	80 hrs	\$11,138.40	\$2,227.68	\$0.00	\$0.00	\$13,366.08	\$0.00	\$13,366.08	Cost
		MTS	\$32,680.80	240 hrs	\$32,680.80	\$6,536.16	\$0.00	\$0.00	\$39,216.96	\$0.00	\$39,216.96	Cost
		8" CF Flange	\$2,000.00	2	\$0.00	\$0.00	\$2,000.00	\$400.00	\$0.00	\$2,400.00	\$2,400.00	
		Phy 3 SV	\$0.00	72 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Cost
		Phy 4 SV	\$0.00	72 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00		Cost
0.4	1010	MÉ S	\$14,688.00	80 hrs	\$14,688.00	\$2,937.60	\$0.00	\$0.00	\$17,625.60	\$0.00	\$17,625.60	Cost
34	1.2.10	1.2.10 Shipping Crates	\$33,745.44	280 hrs	\$23,806.80	\$4,761.36	\$9,938.64		\$28,568.16	\$11,926.37	\$40,494.5	Cost
		MD S	\$5,569.20	40 hrs	\$5,569.20	\$1,113.84	\$0.00	\$0.00	\$6,683.04	\$0.00	\$6,683.04	4 Cost
		MTS	\$10,893.60	80 hrs	\$10,893.60	\$2,178.72	\$0.00		\$13,072.32	\$0.00	\$13,072.32	
		Crates	\$9,938.64	3 60 hrs	\$0.00	\$0.00	\$9,938.64		\$0.00	\$11,926.37	\$11,926.37	
		Phy 3 SV Phy 4 SV	\$0.00 \$0.00	60 hrs 60 hrs	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00		\$0.00 \$0.00	\$0.00 \$0.00		Cost Cost
-		ME S	\$7,344.00	40 hrs	\$7,344.00	\$1,468.80	\$0.00		\$8,812.80	\$0.00	CO 040 00	204
35	1.2.11	1.2.11 Integration and testing at SLA(\$64,504.80	744 hrs	\$64,504.80		\$0.00		\$77,405.76	\$0.00	\$77,405.70	6
-		MTS	\$43,574.40	320 hrs	\$43,574.40	\$8,714.88	\$0.00		\$52,289.28	\$0.00	\$52,289.28	Cost
		ME S	\$14,688.00	80 hrs	\$43,574.40 \$14,688.00	\$2,937.60	\$0.00		\$17,625.60	\$0.00	\$17,625.60	
		Survey Technician S	\$6,242.40	24 hrs	\$6,242.40	\$1,248.48	\$0.00		\$7,490.88	\$0.00	\$7,490.88	
		Phy 3 SV	\$0.00	160 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00		Cost
		Phy 4 SV	\$0.00	160 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	ድስ ሰላ	Coot
36	1.2.12	1.2.12 SVT Shipped at JLAB	\$0.00	16 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Cost
		Phy 3 SV	\$0.00	8 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Cost
		Phy 4 SV	\$0.00	8 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	Cost
37	1.2.13	1.2.13 Integration at Jlab	\$9,343.20	93.33 hrs	\$9,343.20	\$1,868.64	\$0.00	\$0.00	\$11,211.84	\$0.00	\$11,211.8	4 Cost
-		ME S	\$4,896.00	26.67 hrs	\$4,896.00	\$979.20	\$0.00	\$0.00	\$5,875.20	\$0.00	\$5,875.20	Cost
		EE S	\$4,447.20	26.67 hrs	\$4,447.20	\$889.44	\$0.00		\$5,336.64	\$0.00	\$5,336.64	
		Phy 3 SV	\$0.00	20 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Cost
		Phy 4 SV	\$0.00	20 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	Cost

				V	VBS							
ID	WBS	Task Name	Cost	Work	Labor	Lcontingency	Material	Mcontingency	Ltotal	Mtotal	Total	Details
38	1.2.14	1.2.14 SVT Ready For Installation	\$0.00	0 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.0	0 Cost
39	1.3	1.3 SVT DAQ	\$438,740.44	2,504 hrs	\$326,869.20	\$65,373.84	\$111,871.24	\$22,374.25	\$392,243.04	\$134,245.49	\$526,488.5	3
40	1.3.1	1.3.1 FE Boards	\$108,382.20	576 hrs	\$80,049.60	\$16,009.92	\$28,332.60	\$5,666.52	\$96,059.52	\$33,999.12	\$130,058.6	4 Cost
		Phy 3 SV	\$0.00	48 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	2 Cost
44	1211	Phy 4 SV	\$0.00	48 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	Cost
41	1.3.1.1	1.3.1.1 ADC ADC	\$3,551.20 \$3,551.20	0 hrs 80	\$0.00 \$0.00	\$0.00 \$0.00	\$3,551.20 \$3,551.20		\$0.00 \$0.00	\$4,261.44 \$4,261.44	\$4,261.44 \$4,261.44	
42	1.3.1.2	1.3.1.2 FPGA	\$6,625.80	0 hrs	\$0.00	\$0.00	\$6,625.80	\$1,325.16	\$0.00	\$7,950.96	\$7,950.90	6 Cost
40	1 2 1 2	FPGA	\$6,625.80	20	\$0.00	\$0.00	\$6,625.80		\$0.00	\$7,950.96	\$7,950.96	
43	1.3.1.3	Preamp	\$1,326.00 \$1,326.00	0 hrs 200	\$0.00 \$0.00	\$0.00 \$0.00	\$1,326.00 \$1,326.00		\$0.00 \$0.00	\$1,591.20 \$1,591.20	\$1,591.20 \$1,591.20	
44	1.3.1.4	1.3.1.4 Preamp	\$265.00	0 hrs	\$0.00	\$0.00	\$265.00	\$53.00	\$0.00	\$318.00	\$318.00	0 Cost
45	4045	Connectors	\$265.00	20	\$0.00	\$0.00	\$265.00		\$0.00	\$318.00	\$318.00	
45	1.3.1.5	1.3.1.5 Power Power	\$662.60 \$662.60	0 hrs 20	\$0.00 \$0.00	\$0.00 \$0.00	\$662.60 \$662.60		\$0.00 \$0.00	\$795.12 \$795.12	\$795.12 \$795.12	
46	1.3.1.6	1.3.1.6 Board	\$13,251.60	0 hrs	\$0.00	\$0.00	\$13,251.60	\$2,650.32	\$0.00	\$15,901.92	\$15,901.92	2 Cost
4=		Board	\$13,251.60	20	\$0.00	\$0.00	\$13,251.60	\$2,650.32	\$0.00	\$15,901.92	\$15,901.92	2 Cost
47	1.3.1.7	1.3.1.7 Assembly Assembly	\$2,650.40 \$2,650.40	0 hrs 20	\$0.00 \$0.00	\$0.00 \$0.00	\$2,650.40 \$2,650.40		\$0.00 \$0.00	\$3,180.48 \$3,180.48	\$3,180.48 \$3,180.48	
48	1.3.1.8	1.3.1.8 Schematic	\$26,683.20	160 hrs	\$26,683.20	\$5,336.64	\$2,030.40		\$32,019.84	\$0.00	\$32,019.8	
		EE S	\$26,683.20	160 hrs	\$26,683.20	\$5,336.64	\$0.00	\$0.00	\$32,019.84	\$0.00	\$32,019.84	4 Cost
49	1.3.1.9	1.3.1.9 Firmware	\$26,683.20	160 hrs	\$26,683.20	\$5,336.64	\$0.00		\$32,019.84	\$0.00	\$32,019.84	
50	1.3.1.10	<i>EE</i> S 1.3.1.10 Testing	\$26,683.20 \$26,683.20	160 hrs 160 hrs	\$26,683.20 \$26,683.20	\$5,336.64 \$5,336.64	\$0.00 \$0.00		\$32,019.84 \$32,019.84	\$0.00 \$0.00	\$32,019.84 \$32,019.84	
	11.0.11.10	EE S	\$26,683.20	160 hrs	\$26,683.20	\$5,336.64	\$0.00		\$32,019.84	\$0.00	\$32,010,82	4 Cost
51	1.3.2	1.3.2 Flange	\$31,263.52	216 hrs	\$20,012.40	\$4,002.48	\$11,251.12	\$2,250.22	\$24,014.88	\$13,501.34	\$37,516.2	2 Cost
		Phy 3 SV	\$0.00	48 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	O Cost
	4004	Phy 4 SV	\$0.00	48 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00		Cost
52	1.3.2.1	1.3.2.1 Connector Connector	\$172.80 \$172.80	0 hrs 16	\$0.00 \$0.00	\$0.00 \$0.00	\$172.80 \$172.80		\$0.00 \$0.00	\$207.36 \$2 <i>07.</i> 36	\$207.36 \$207.36	
53	1.3.2.2	1.3.2.2 Fiber	\$4,452.48	0 hrs	\$0.00	\$0.00	\$4,452.48		\$0.00	\$5,342.98	\$5,342.98	8 Cost
		Fiber	\$4,452.48	16	\$0.00	\$0.00	\$4,452.48		\$0.00	\$5,342.98	\$5,342.98	
54	1.3.2.3	1.3.2.3 Power Power	\$265.04 \$2 <i>65.04</i>	0 hrs	\$0.00 \$0.00	\$0.00 \$0.00	\$265.04 \$265.04		\$0.00 \$0.00	\$318.05 \$318.05	\$318.05 \$318.05	
55	1.3.2.4	1.3.2.4 Board	\$5,300.64	0 hrs	\$0.00	\$0.00	\$5,300.64		\$0.00	\$6,360.77	\$6,360.7	
		Board	\$5,300.64	8	\$0.00	\$0.00	\$5,300.64		\$0.00	\$6,360.77	\$6,360.77	7 Cost
56	1.3.2.5	1.3.2.5 Assembly	\$1,060.16 \$1,060.16	0 hrs	\$0.00 \$0.00	\$0.00 \$0.00	\$1,060.16		\$0.00 \$0.00	\$1,272.19	\$1,272.19 \$1,272.19	
57	1.3.2.6	Assembly 1.3.2.6 Schematic	\$1,060.16 \$13,341.60	80 hrs	\$13,341.60	\$2,668.32	\$1,060.16 \$0.00		\$16,009.92	\$1,272.19 \$0.00	\$16,009.9	2 Cost
		EE S	\$13,341.60	80 hrs	\$13,341.60	\$2,668.32	\$0.00	\$0.00	\$16,009.92	\$0.00	\$16,009.92	2 Cost
58	1.3.2.7	1.3.2.7 Testing	\$6,670.80	40 hrs	\$6,670.80	\$1,334.16	\$0.00		\$8,004.96	\$0.00	\$8,004.9	
59	1.3.3	EE S	\$6,670.80 \$226,446.84	40 hrs 1,200 hrs	\$6,670.80 \$173,440.80	\$1,334.16 \$34,688.16	\$0.00 \$53,006.04		\$8,004.96 \$208,128.96	\$0.00 \$63,607.25	\$8,004.96 \$271,736.2	1 00ST
	1.0.0	1.3.3 DAQ Phy 3 SV	\$0.00	80 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00		Cost Cost
		Phy 4 SV	\$0.00	80 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00		0 Cost
60	1.3.3.1	1.3.3.1 SVT COB	\$23,852.76	0 hrs	\$0.00	\$0.00	\$23,852.76	\$4,770.55	\$0.00	\$28,623.31	\$28,623.3	1 Cost
64	1 2 2 2	SVT COB	\$23,852.76	3 0 bro	\$0.00	\$0.00	\$23,852.76		\$0.00	\$28,623.31	\$28,623.31	
61	1.3.3.2	1.3.3.2 RTM <i>RTM</i>	\$9,938.64 \$9,938.64	0 hrs	\$0.00 \$0.00	\$0.00 \$0.00	\$9,938.64 \$9,938.64		\$0.00 \$0.00	\$11,926.37 \$11,926.37	\$11,926.37 \$11,926.37	
62	1.3.3.3	1.3.3.3 Custom Board	\$9,938.64	0 hrs	\$0.00	\$0.00	\$9,938.64	\$1,987.73	\$0.00	\$11,926.37	\$11,926.3	7 Cost
	4004	Custom Board	\$9,938.64	3	\$0.00	\$0.00	\$9,938.64		\$0.00	\$11,926.37	\$11,926.37	
63	1.3.3.4	1.3.3.4 Crates Crates	\$6,625.76 \$6,625.76	0 hrs	\$0.00 \$0.00	\$0.00 \$0.00	\$6,625.76 \$6,625.76		\$0.00 \$0.00	\$7,950.91 \$7,950.91	\$7,950.9° \$7,950.9°	
64	1.3.3.5	1.3.3.5 Fiber Cables	\$2,650.24	0 hrs	\$0.00	\$0.00	\$2,650.24		\$0.00	\$3,180.29	\$3,180.29	
		Fiber Cables	\$2,650.24	16	\$0.00	\$0.00	\$2,650.24	\$530.05	\$0.00	\$3,180.29	\$3,180.29	9 Cost
65	1.3.3.6	1.3.3.6 Schematic EE S	\$26,683.20 \$26,683.20	160 hrs	\$26,683.20 \$26,683.20	\$5,336.64 \$5,336.64	\$0.00		\$32,019.84 \$32,019.84	\$0.00 \$0.00	\$32,019.84 \$32,019.84	
66	1.3.3.7	1.3.3.7 Firmware	\$53,366.40	160 hrs 320 hrs	\$53,366.40		\$0.00 \$0.00		\$64,039.68	\$0.00	\$64,039.6	
	1	EE S	\$53,366.40	320 hrs	\$53,366.40	\$10,673.28	\$0.00	\$0.00	\$64,039.68	\$0.00	\$64,039.68	8 Cost
	1.3.3.8	1.3.3.8 Software	\$53,366.40			\$10,673.28	\$0.00	\$0.00	\$64,039.68	\$0.00		8 Cost

				W	/BS							
ID	WBS	Task Name	Cost	Work	Labor	Lcontingency	Material	Mcontingency	Ltotal	Mtotal	Total	Details
		EE S	\$53,366.40	320 hrs	\$53,366.40	\$10,673.28	\$0.00	\$0.00	\$64,039.68	\$0.00	\$64,039.68	3 Cost
68	1.3.3.9	1.3.3.9 Testing	\$40,024.80	240 hrs	\$40,024.80	\$8,004.96	\$0.00	\$0.00	\$48,029.76	\$0.00	\$48,029.76	
- 60	404	EE S	\$40,024.80	240 hrs	\$40,024.80	\$8,004.96	\$0.00	\$0.00	\$48,029.76	\$0.00	\$48,029.76	Cost
69	1.3.4	1.3.4 Hybrid	\$31,342.68	216 hrs	\$20,012.40	\$4,002.48	\$11,330.28	\$2,266.06	\$24,014.88	\$13,596.34	\$37,611.22	Cost
		Phy 3 SV	\$0.00	48 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Cost
70	1.3.4.1	Phy 4 SV 1.3.4.1 Hybrid Misc Part	\$0.00 \$1,788.84	48 hrs 0 hrs	\$0.00 \$0.00	\$0.00 \$0.00	<i>\$0.00</i> \$1,788.84	\$0.00 \$357.77	\$0.00 \$0.00	\$0.00 \$2,146.61	\$0.00 \$2,146.61	Cost
70	1.3.4.1	Hybrid Misc Part	\$1,788.84	36	\$0.00	\$0.00	\$1,788.84	\$357.77	\$0.00	\$2,146.61	\$2,146.61	
71	1.3.4.2	1.3.4.2 Hybrid Board	\$4,770.72	0 hrs	\$0.00	\$0.00	\$4,770.72	\$954.14	\$0.00	\$5,724.86	\$5,724.86	6 Cost
		Hybrid Board	\$4,770.72	36	\$0.00	\$0.00	\$4,770.72	\$954.14	\$0.00	\$5,724.86	\$5,724.86	6 Cost
72	1.3.4.3	1.3.4.3 Hybrid Assembly	\$4,770.72	0 hrs	\$0.00	\$0.00	\$4,770.72	\$954.14	\$0.00	\$5,724.86	\$5,724.86	6 Cost
73	1211	Hybrid Assembly 1.3.4.4 Schematic	\$4,770.72 \$13,341.60	36	\$0.00	\$0.00	\$4,770.72 \$0.00	\$954.14	<i>\$0.00</i> \$16,009.92	\$5,724.86	\$5,724.86 \$16,009.92	Cost
13	1.3.4.4	EE S	\$13,341.60	80 hrs	\$13,341.60 \$13,341.60	\$2,668.32 \$2,668.32	\$0.00	\$0.00 \$0.00	\$16,009.92	\$0.00 \$0.00	\$16,009.92	
74	1.3.4.5	1.3.4.5 Testing	\$6,670.80	40 hrs	\$6,670.80	\$1,334.16	\$0.00	\$0.00	\$8,004.96	\$0.00	\$8,004.96	
		EE S	\$6,670.80	40 hrs	\$6,670.80	\$1,334.16	\$0.00	\$0.00	\$8,004.96	\$0.00	\$8,004,06	Cost
75	1.3.5	1.3.5 Flex Cable	\$41,305.20	296 hrs	\$33,354.00	\$6,670.80	\$7,951.20	\$1,590.24	\$40,024.80	\$9,541.44	\$49,566.24	4 Cost
		Phy 3 SV	\$0.00	48 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Cost
		Phy 4 SV	\$0.00	48 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Cost
76	1.3.5.1	1.3.5.1 Misc Parts	\$795.12	0 hrs	\$0.00	\$0.00	\$795.12	\$159.02	\$0.00	\$954.14	\$954.14	4 Cost
7-	4050	SVT Cable Misc parts	\$795.12	24	\$0.00	\$0.00	\$795.12	\$159.02	\$0.00	\$954.14	\$954.14	
77	1.3.5.2	1.3.5.2 Cable SVT Cable	\$4,770.72 \$4,770.72	0 hrs 36	\$0.00 \$0.00	\$0.00 \$0.00	\$4,770.72 \$4,770.72	\$954.14 \$954.14	\$0.00 \$0.00	\$5,724.86 \$5,724.86	\$5,724.86 \$5,724.86	
78	1.3.5.3	1.3.5.3 Assembly	\$2,385.36	0 hrs	\$0.00	\$0.00	\$2,385.36	\$477.07	\$0.00	\$2,862.43	\$2,862.43	3 Cost
	1.0.0.0	ST Cable Assembly	\$2,385.36	36	\$0.00	\$0.00	\$2,385.36	\$477.07	\$0.00	\$2,862.43	\$2,862.43	
79	1.3.5.4	1.3.5.4 Schematic	\$26,683.20	160 hrs	\$26,683.20	\$5,336.64	\$0.00	\$0.00	\$32,019.84	\$0.00	\$32,019.84	4 Cost
		EE S	\$26,683.20	160 hrs	\$26,683.20	\$5,336.64	\$0.00	\$0.00	\$32,019.84	\$0.00	\$32,019.84	
80	1.3.5.5	1.3.5.5 Testing	\$6,670.80	40 hrs	\$6,670.80	\$1,334.16	\$0.00	\$0.00	\$8,004.96	\$0.00	\$8,004.96	
81	1.4	EE S	\$6,670.80 \$213,565.07	40 hrs 869.6 hrs	\$6,670.80 \$27,925.07	\$1,334.16 \$5,585.01	\$0.00 \$185,640.00	\$0.00 \$37,128.00	\$8,004.96 \$33,510.09	\$0.00 \$222,768.00	\$8,004.96 \$256,278.0 9	OST 9
82	1.4.1	1.4 ECAL	\$2,000.00	50.25 hrs	\$0.00		\$2,000.00	\$400.00		\$2,400.00	\$2,400.00	Cost
02	1.4.1	1.4.1 Ecal Enclosure				\$0.00			\$0.00		\$2,400.00	Cost
·		Ecal enclosure	\$2,000.00	1	\$0.00	\$0.00	\$2,000.00	\$400.00	\$0.00	\$2,400.00	\$2,400.00	
		ME O Phy 2 JE	\$0.00 \$0.00	2.25 hrs 48 hrs	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	ድብ ብር	Cost Cost
83	1.4.2		\$1,660.40	44 hrs	\$1,660.40	\$332.08	\$0.00	\$0.00	\$1,992.48	\$0.00	\$1,992.48	8 -
		1.4.2 Fix 2-shorted HV groups on top									¢4,000,40	Cost
		ET J Phy 2 JE	\$1,660.40 \$0.00	40 hrs 4 hrs	\$1,660.40 \$0.00	\$332.08 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$1,992.48 \$0.00	\$0.00 \$0.00	\$1,992.48 \$0.00	Coct
84	1.4.3	-	\$5,960.00	24 hrs		\$0.00					ψ0.00	0 -
		1.4.3 Order new bottom motherboard	+-,		50.00		\$5.960.00	\$1.19Z.UU	50.00	\$7.152.00	\$7.152.00	
		Now Dattom Laft Mathaubaud	¢E 000 00		\$0.00		\$5,960.00	\$1,192.00	\$0.00	\$7,152.00	\$7,152.00	Cost
•		New Bottom-Left Motherboard	\$5,960.00 \$0.00	1	\$0.00	\$0.00	\$5,960.00	\$1,192.00	\$0.00	\$7,152.00	\$7,152.00	Cost
85	1.4.4	Phy 2 JE	\$0.00	1 24 hrs	\$0.00 \$0.00	\$0.00 \$0.00		\$1,192.00 \$0.00	\$0.00 \$0.00	\$7,152.00 \$0.00	\$7,152.00	Cost
85	1.4.4	Phy 2 JE 1.4.4 Install New motherboards	\$0.00 \$25,320.96	1 24 hrs 256 hrs	\$0.00 \$0.00 \$25,320.96	\$0.00 \$0.00 \$5,064.19	\$5,960.00 \$0.00 \$0.00	\$1,192.00 \$0.00 \$0.00	\$0.00 \$0.00 \$30,385.15	\$7,152.00 \$0.00 \$0.00	\$7,152.00 \$0.00 \$30,385.15	Cost Cost Cost
85	1.4.4	Phy 2 JE 1.4.4 Install New motherboards EE J	\$0.00 \$25,320.96 \$25,320.96	1 24 hrs 256 hrs 224 hrs	\$0.00 \$0.00 \$25,320.96 \$25,320.96	\$0.00 \$0.00 \$5,064.19 \$5,064.19	\$5,960.00 \$0.00 \$0.00	\$1,192.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$30,385.15 \$30,385.15	\$7,152.00 \$0.00 \$0.00 \$0.00	\$7,152.00 \$0.00 \$30,385.15 \$30,385.15	Cost Cost Cost Cost Cost
85	1.4.4	Phy 2 JE 1.4.4 Install New motherboards EE J New Amplifiers Boards	\$0.00 \$25,320.96 \$25,320.96 \$0.00	1 24 hrs 256 hrs 224 hrs 60	\$0.00 \$0.00 \$25,320.96 \$25,320.96 \$0.00	\$0.00 \$0.00 \$5,064.19	\$5,960.00 \$0.00 \$0.00 \$0.00 \$0.00	\$1,192.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$30,385.15 \$30,385.15 \$0.00	\$7,152.00 \$0.00 \$0.00 \$0.00 \$0.00	\$7,152.00 \$0.00 \$30,385.15 \$30,385.15 \$0.00	Cost Cost Cost Cost Cost
85	1.4.4	Phy 2 JE 1.4.4 Install New motherboards EE J New Amplifiers Boards Phy 2 JE	\$0.00 \$25,320.96 \$25,320.96	1 24 hrs 256 hrs 224 hrs	\$0.00 \$0.00 \$25,320.96 \$25,320.96	\$0.00 \$0.00 \$5,064.19 \$5,064.19 \$0.00	\$5,960.00 \$0.00 \$0.00	\$1,192.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$30,385.15 \$30,385.15	\$7,152.00 \$0.00 \$0.00 \$0.00	\$7,152.00 \$0.00 \$30,385.15 \$30,385.15 \$0.00	Cost Cost Cost Cost Cost
		Phy 2 JE 1.4.4 Install New motherboards EE J New Amplifiers Boards Phy 2 JE 1.4.5 Replacement pre-amplifier boar	\$0.00 \$25,320.96 \$25,320.96 \$0.00 \$0.00 \$30,000.00	1 24 hrs 256 hrs 224 hrs 60 32 hrs 24 hrs	\$0.00 \$0.00 \$25,320.96 \$25,320.96 \$0.00 \$0.00	\$0.00 \$0.00 \$5,064.19 \$5,064.19 \$0.00 \$0.00	\$5,960.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$30,000.00	\$1,192.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$6,000.00	\$0.00 \$0.00 \$30,385.15 \$30,385.15 \$0.00 \$0.00 \$0.00	\$7,152.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$36,000.00	\$7,152.00 \$0.00 \$30,385.15 \$30,385.15 \$0.00 \$36,000.00	Cost Cost Cost Cost Cost Cost Cost Cost
		Phy 2 JE 1.4.4 Install New motherboards EE J New Amplifiers Boards Phy 2 JE 1.4.5 Replacement pre-amplifier boar Ecal Pre-amps	\$0.00 \$25,320.96 \$25,320.96 \$0.00 \$0.00 \$30,000.00 \$30,000.00	1 24 hrs 256 hrs 224 hrs 60 32 hrs 24 hrs 500	\$0.00 \$0.00 \$25,320.96 \$25,320.96 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$5,064.19 \$5,064.19 \$0.00 \$0.00	\$5,960.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$30,000.00	\$1,192.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$6,000.00 \$6,000.00	\$0.00 \$0.00 \$30,385.15 \$30,385.15 \$0.00 \$0.00 \$0.00	\$7,152.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$36,000.00 \$36,000.00	\$7,152.00 \$0.00 \$30,385.15 \$30,385.15 \$0.00 \$36,000.00 \$36,000.00	Cost Cost Cost Cost Cost Cost Cost Cost
		Phy 2 JE 1.4.4 Install New motherboards EE J New Amplifiers Boards Phy 2 JE 1.4.5 Replacement pre-amplifier boar Ecal Pre-amps Phy 2 JE	\$0.00 \$25,320.96 \$25,320.96 \$0.00 \$0.00 \$30,000.00	1 24 hrs 256 hrs 224 hrs 60 32 hrs 24 hrs	\$0.00 \$0.00 \$25,320.96 \$25,320.96 \$0.00 \$0.00	\$0.00 \$0.00 \$5,064.19 \$5,064.19 \$0.00 \$0.00 \$0.00	\$5,960.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$30,000.00	\$1,192.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$6,000.00	\$0.00 \$0.00 \$30,385.15 \$30,385.15 \$0.00 \$0.00 \$0.00	\$7,152.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$36,000.00	\$7,152.00 \$0.00 \$30,385.15 \$30,385.15 \$0.00 \$36,000.00 \$36,000.00	Cost Cost Cost Cost Cost Cost Cost Cost
86	1.4.5	Phy 2 JE 1.4.4 Install New motherboards EE J New Amplifiers Boards Phy 2 JE 1.4.5 Replacement pre-amplifier boar Ecal Pre-amps Phy 2 JE 1.4.6 Low voltage PS	\$0.00 \$25,320.96 \$25,320.96 \$0.00 \$30,000.00 \$30,000.00 \$30,000.00 \$29,800.00	1 24 hrs 256 hrs 224 hrs 60 32 hrs 24 hrs 500 24 hrs 24 hrs	\$0.00 \$0.00 \$25,320.96 \$25,320.96 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$5,064.19 \$5,064.19 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$5,960.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$30,000.00 \$30,000.00 \$29,800.00	\$1,192.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$6,000.00 \$6,000.00 \$5,960.00	\$0.00 \$0.00 \$30,385.15 \$30,385.15 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$7,152.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$36,000.00 \$36,000.00 \$36,000.00 \$35,760.00	\$7,152.00 \$0.00 \$30,385.15 \$30,385.15 \$0.00 \$0.00 \$36,000.00 \$36,000.00 \$35,760.00	Cost Cost Cost Cost Cost Cost Cost Cost
86	1.4.5	Phy 2 JE 1.4.4 Install New motherboards EE J New Amplifiers Boards Phy 2 JE 1.4.5 Replacement pre-amplifier boar Ecal Pre-amps Phy 2 JE 1.4.6 Low Voltage PS Low Voltage PS	\$0.00 \$25,320.96 \$25,320.96 \$0.00 \$0.00 \$30,000.00 \$30,000.00 \$29,800.00 \$29,800.00 \$29,800.00	1 24 hrs 256 hrs 224 hrs 60 32 hrs 24 hrs 500 24 hrs	\$0.00 \$0.00 \$25,320.96 \$25,320.96 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$5,064.19 \$5,064.19 \$0.00 \$0.00 \$0.00 \$0.00	\$5,960.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$30,000.00 \$30,000.00 \$0.00	\$1,192.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$6,000.00 \$6,000.00 \$0.00	\$0.00 \$0.00 \$30,385.15 \$30,385.15 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$7,152.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$36,000.00 \$36,000.00 \$0.00	\$7,152.00 \$0.00 \$30,385.15 \$30,385.15 \$0.00 \$36,000.00 \$36,000.00 \$35,760.00 \$35,760.00	Cost Cost Cost Cost Cost Cost Cost Cost
86	1.4.5	Phy 2 JE 1.4.4 Install New motherboards EE J New Amplifiers Boards Phy 2 JE 1.4.5 Replacement pre-amplifier boar Ecal Pre-amps Phy 2 JE 1.4.6 Low Voltage PS Low Voltage PS Phy 2 JE	\$0.00 \$25,320.96 \$25,320.96 \$0.00 \$30,000.00 \$30,000.00 \$0.00 \$29,800.00 \$29,800.00	1 24 hrs 256 hrs 224 hrs 60 32 hrs 24 hrs 500 24 hrs 24 hrs	\$0.00 \$0.00 \$25,320.96 \$25,320.96 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$5,064.19 \$5,064.19 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$5,960.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$30,000.00 \$30,000.00 \$29,800.00	\$1,192.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$6,000.00 \$6,000.00 \$5,960.00 \$5,960.00	\$0.00 \$0.00 \$30,385.15 \$30,385.15 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$7,152.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$36,000.00 \$36,000.00 \$35,760.00 \$35,760.00	\$7,152.00 \$0.00 \$30,385.15 \$30,385.15 \$0.00 \$36,000.00 \$36,000.00 \$35,760.00 \$35,760.00	Cost Cost Cost Cost Cost Cost Cost Cost
86	1.4.5	Phy 2 JE 1.4.4 Install New motherboards EE J New Amplifiers Boards Phy 2 JE 1.4.5 Replacement pre-amplifier boar Ecal Pre-amps Phy 2 JE 1.4.6 Low Voltage PS Low Voltage PS Phy 2 JE 1.4.7 Delay Cables	\$0.00 \$25,320.96 \$25,320.96 \$0.00 \$30,000.00 \$30,000.00 \$29,800.00 \$29,800.00 \$29,800.00 \$14,900.00	1 24 hrs 256 hrs 224 hrs 60 32 hrs 24 hrs 500 24 hrs 24 hrs 24 hrs 16 hrs 16 hrs	\$0.00 \$0.00 \$25,320.96 \$25,320.96 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$5,064.19 \$5,064.19 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$5,960.00 \$0.00 \$0.00 \$0.00 \$0.00 \$30,000.00 \$30,000.00 \$29,800.00 \$29,800.00 \$14,900.00	\$1,192.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$6,000.00 \$6,000.00 \$5,960.00 \$5,960.00 \$2,980.00	\$0.00 \$0.00 \$30,385.15 \$30,385.15 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$7,152.00 \$0.00 \$0.00 \$0.00 \$0.00 \$36,000.00 \$36,000.00 \$35,760.00 \$35,760.00 \$17,880.00	\$7,152.00 \$0.00 \$30,385.15 \$30,385.15 \$0.00 \$0.00 \$36,000.00 \$36,000.00 \$35,760.00 \$35,760.00 \$17,880.00	Cost Cost Cost Cost Cost Cost Cost Cost
86	1.4.5	Phy 2 JE 1.4.4 Install New motherboards EE J New Amplifiers Boards Phy 2 JE 1.4.5 Replacement pre-amplifier boar Ecal Pre-amps Phy 2 JE 1.4.6 Low Voltage PS Low Voltage PS Phy 2 JE 1.4.7 Delay Cables ECAL Cables	\$0.00 \$25,320.96 \$25,320.96 \$0.00 \$30,000.00 \$30,000.00 \$29,800.00 \$29,800.00 \$29,800.00 \$14,900.00 \$14,900.00	1 24 hrs 256 hrs 224 hrs 60 32 hrs 24 hrs 500 24 hrs 24 hrs 1 24 hrs 16 hrs	\$0.00 \$0.00 \$25,320.96 \$25,320.96 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$5,064.19 \$5,064.19 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$5,960.00 \$0.00 \$0.00 \$0.00 \$0.00 \$30,000.00 \$30,000.00 \$29,800.00 \$29,800.00 \$14,900.00	\$1,192.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$6,000.00 \$6,000.00 \$5,960.00 \$5,960.00 \$2,980.00 \$2,980.00	\$0.00 \$0.00 \$30,385.15 \$30,385.15 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$7,152.00 \$0.00 \$0.00 \$0.00 \$0.00 \$36,000.00 \$36,000.00 \$35,760.00 \$35,760.00 \$17,880.00 \$17,880.00	\$7,152.00 \$0.00 \$30,385.15 \$30,385.15 \$0.00 \$36,000.00 \$36,000.00 \$35,760.00 \$17,880.00	Cost Cost
86	1.4.5	Phy 2 JE 1.4.4 Install New motherboards EE J New Amplifiers Boards Phy 2 JE 1.4.5 Replacement pre-amplifier boar Ecal Pre-amps Phy 2 JE 1.4.6 Low Voltage PS Low Voltage PS Phy 2 JE 1.4.7 Delay Cables ECAL Cables Phy 2 JE	\$0.00 \$25,320.96 \$25,320.96 \$0.00 \$30,000.00 \$30,000.00 \$29,800.00 \$29,800.00 \$29,800.00 \$14,900.00	1 24 hrs 256 hrs 224 hrs 60 32 hrs 24 hrs 500 24 hrs 24 hrs 24 hrs 16 hrs 16 hrs	\$0.00 \$0.00 \$25,320.96 \$25,320.96 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$5,064.19 \$5,064.19 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$5,960.00 \$0.00 \$0.00 \$0.00 \$0.00 \$30,000.00 \$30,000.00 \$29,800.00 \$29,800.00 \$14,900.00	\$1,192.00 \$0.00 \$0.00 \$0.00 \$0.00 \$6,000.00 \$6,000.00 \$5,960.00 \$5,960.00 \$2,980.00 \$2,980.00 \$2,980.00	\$0.00 \$0.00 \$30,385.15 \$30,385.15 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$7,152.00 \$0.00 \$0.00 \$0.00 \$0.00 \$36,000.00 \$36,000.00 \$35,760.00 \$35,760.00 \$17,880.00	\$7,152.00 \$0.00 \$30,385.15 \$30,385.15 \$0.00 \$36,000.00 \$36,000.00 \$35,760.00 \$17,880.00	Cost Cost
86	1.4.5	Phy 2 JE 1.4.4 Install New motherboards EE J New Amplifiers Boards Phy 2 JE 1.4.5 Replacement pre-amplifier boar Ecal Pre-amps Phy 2 JE 1.4.6 Low Voltage PS Low Voltage PS Phy 2 JE 1.4.7 Delay Cables ECAL Cables Phy 2 JE 1.4.8 Light Monitoring System	\$0.00 \$25,320.96 \$25,320.96 \$0.00 \$30,000.00 \$30,000.00 \$29,800.00 \$29,800.00 \$14,900.00 \$14,900.00 \$0.00 \$90,943.71	1 24 hrs 256 hrs 224 hrs 60 32 hrs 24 hrs 500 24 hrs 24 hrs 1 24 hrs 16 hrs 16 hrs 303.35 hrs	\$0.00 \$0.00 \$25,320.96 \$25,320.96 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$5,064.19 \$5,064.19 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$5,960.00 \$0.00 \$0.00 \$0.00 \$0.00 \$30,000.00 \$30,000.00 \$29,800.00 \$14,900.00 \$14,900.00 \$90,000.00	\$1,192.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$6,000.00 \$5,960.00 \$5,960.00 \$2,980.00 \$2,980.00 \$18,000.00	\$0.00 \$0.00 \$30,385.15 \$30,385.15 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$7,152.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$36,000.00 \$36,000.00 \$35,760.00 \$35,760.00 \$17,880.00 \$17,880.00 \$108,000.00	\$7,152.00 \$0.00 \$30,385.15 \$30,385.15 \$0.00 \$0.00 \$36,000.00 \$36,000.00 \$35,760.00 \$317,880.00 \$17,880.00 \$119,132.46	0 Cost
86	1.4.5	Phy 2 JE 1.4.4 Install New motherboards EE J New Amplifiers Boards Phy 2 JE 1.4.5 Replacement pre-amplifier boar Ecal Pre-amps Phy 2 JE 1.4.6 Low Voltage PS Low Voltage PS Phy 2 JE 1.4.7 Delay Cables ECAL Cables Phy 2 JE	\$0.00 \$25,320.96 \$25,320.96 \$0.00 \$30,000.00 \$30,000.00 \$29,800.00 \$29,800.00 \$29,800.00 \$14,900.00 \$14,900.00 \$0.00	1 24 hrs 256 hrs 224 hrs 60 32 hrs 24 hrs 500 24 hrs 24 hrs 1 24 hrs 16 hrs	\$0.00 \$0.00 \$25,320.96 \$25,320.96 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$5,064.19 \$5,064.19 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$5,960.00 \$0.00 \$0.00 \$0.00 \$0.00 \$30,000.00 \$30,000.00 \$29,800.00 \$14,900.00 \$14,900.00 \$0.00	\$1,192.00 \$0.00 \$0.00 \$0.00 \$0.00 \$6,000.00 \$6,000.00 \$5,960.00 \$5,960.00 \$2,980.00 \$2,980.00 \$2,980.00	\$0.00 \$0.00 \$30,385.15 \$30,385.15 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$7,152.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$36,000.00 \$36,000.00 \$35,760.00 \$35,760.00 \$17,880.00 \$17,880.00 \$0.00	\$7,152.00 \$0.00 \$30,385.15 \$30,385.15 \$0.00 \$0.00 \$36,000.00 \$36,000.00 \$35,760.00 \$317,880.00 \$17,880.00 \$119,132.46	0 Cost 0 C

				W	/BS							
ID	WBS	Task Name	Cost	Work	Labor	Lcontingency	Material	Mcontingency	Ltotal	Mtotal	Total	Details
		ECAL Optical connector and mechanic	\$25,000.00	500	\$0.00	\$0.00	\$25,000.00	\$5,000.00	\$0.00	\$30,000.00	\$30,000.00	
	4.40	Phy 2 JE	\$0.00	160 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	Cost
90	1.4.9	1.4.9 Assemble Ecal	\$10,000.00	48 hrs	\$0.00	\$0.00	\$10,000.00		\$0.00	\$12,000.00	\$12,000.00	
		Consumables	\$10,000.00 \$0.00	10 hrs	\$0.00	\$0.00 \$0.00	\$10,000.00		\$0.00 \$0.00	\$12,000.00	\$12,000.00	
91	1.4.10	Phy 2 JE	\$0.00	48 hrs 64 hrs	\$0.00 \$0.00	\$0.00	\$0.00 \$0.00		\$0.00	\$0.00 \$0.00	\$0.00 \$0.00	Cost
		1.4.10 Test and Calibrate Ecal	\$0.00	64 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Cost
92	1.4.11	Phy 2 JE	\$2,980.00	16 hrs	\$0.00		\$2,980.00		\$0.00	\$3,576.00	\$3,576.00	Cost
		1.4.11 New mounting system ECAL Mounting System	\$2,980.00	10 1110					\$0.00		\$3.576.00	Cost
		Phy 2 JE	\$2,980.00	16 hrs	\$0.00 \$0.00	\$0.00 \$0.00	\$2,980.00 \$0.00	\$596.00 \$0.00	\$0.00	\$3,576.00 \$0.00	\$3,576.00 \$0.00	Coot
93	1.4.12	1.4.12 ECAL Ready for the installatio	\$0.00	0 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	Cost
94	1.5	1.5 Muon	\$309,782.30	3,202 hrs	\$26,977.30	\$5,395.46	\$282,805.00	\$56,561.00	\$32,372.76	\$339,366.00	\$371,738.7	6 Cost
95	1.5.1	1.5.1 Muon Engineering design reviev	\$0.00	0 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Cost
96	1.5.2	1.5.2 PMT	\$144,835.00	384 hrs	\$0.00		\$144,835.00		\$0.00	\$173,802.00	\$173,802.00	Cost
	· -	PMT	\$83,000.00	332	\$0.00	\$0.00	\$83,000.00		\$0.00	\$99,600.00	\$99,600.00	Cost
		PMT Divider	\$37,101.00	332	\$0.00	\$0.00	\$37,101.00	\$7,420.20	\$0.00	\$44,521.20	\$99,600.00	
		PMT Housing	\$24,734.00	332	\$0.00	\$0.00	\$24,734.00	\$4,946.80	\$0.00	\$29,680.80	\$29,680.80	2 Cost
		Phy 2 M	\$0.00	192 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Cost
07	4.5.0	Phy 1 M	\$0.00	192 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Cost
97	1.5.3	1.5.3 Muon Vacuum Chamber	\$59,352.10	690 hrs	\$14,652.10		\$44,700.00		\$17,582.52	\$53,640.00	\$71,222.52	Cost
		ME J	\$666.50	10 hrs	\$666.50	\$133.30	\$0.00		\$799.80	\$0.00	\$799.80	
		MD J Muon Vacuum Chamber	\$6,641.60 \$44,700.00	160 hrs	\$6,641.60 \$0.00	\$1,328.32 \$0.00	\$0.00 \$44,700.00	\$0.00 \$8,940.00	\$7,969.92 \$0.00	\$0.00 \$53.640.00	\$7,969.92 \$53,640.00	
		Phy 2 M	\$0.00	240 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00		Cost
		Phy 1 M	\$0.00	240 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	Cost
		MÉ S	\$7,344.00	40 hrs	\$7,344.00	\$1,468.80	\$0.00	\$0.00	\$8,812.80	\$0.00	\$8,812.80) Cost
98	1.5.4	1.5.4 Stand	\$16,560.40	424 hrs	\$1,660.40	·	\$14,900.00		\$1,992.48	\$17,880.00	\$19,872.4	3 Cost
		Muon Stand	\$14,900.00	1	\$0.00	\$0.00	\$14,900.00	\$2,980.00	\$0.00	\$17,880.00	\$17,880.00	Cost
		MD J Phy 2 M	\$1,660.40 \$0.00	40 hrs 192 hrs	\$1,660.40 \$0.00	\$332.08 \$0.00	\$0.00 \$0.00		\$1,992.48 \$0.00	\$0.00 \$0.00	\$1,992.48	Cost Cost
		Phy 1 M	\$0.00	192 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	Coet
99	1.5.5	1.5.5 Absorbers	\$58,344.80	504 hrs	\$10,664.80	\$2,132.96	\$47,680.00		\$12,797.76	\$57,216.00	\$70,013.70	ô Cost
		Absorbers	\$47,680.00	4	\$0.00	\$0.00	\$47,680.00	\$9,536.00	\$0.00	\$57,216.00	\$57,216.00	
		MD J	\$3,320.80	80 hrs	\$3,320.80	\$664.16	\$0.00		\$3,984.96	\$0.00	\$3,984.96	
		Phy 2 M	\$0.00	192 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00		Cost
		Phy 1 M ME S	\$0.00 \$7,344.00	192 hrs 40 hrs	\$0.00 \$7,344.00	\$0.00 \$1,468.80	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$8,812.80	\$0.00 \$0.00	\$0.00 \$8,812.80	Cost
100	1.5.6		\$7,450.00	192 hrs	\$7,344.00		\$7,450.00		\$0.00	\$8,940.00	\$8,940.0	0 -
	110.0	1.5.6 Hodoscope Support Hodoscope Support	\$7,450.00	1	\$0.00	\$0.00	\$7,450.00	\$1,490.00	\$0.00	\$8,940.00	\$8,940.00	Cost
		Phy 2 M	\$0.00	96 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00		Cost
		Phy 1 M	\$0.00	96 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	Cost
101	1.5.7	1.5.7 Cable HV	\$13,280.00	384 hrs	\$0.00	\$0.00	\$13,280.00		\$0.00	\$15,936.00	\$15,936.00	Cost
		Cables HV	\$13,280.00	332	\$0.00	\$0.00	\$13,280.00	\$2,656.00	\$0.00	\$15,936.00	\$15,936.00	
		Phy 2 M	\$0.00	192 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Cost
102	1.5.8	Phy 1 M	\$0.00	192 hrs 384 hrs	\$0.00	\$0.00	\$0.00 \$9,960.00	\$0.00	\$0.00	<i>\$0.00</i> \$11,952.00	\$0.00	Cost
102	1.5.8	1.5.8 Cable Signal	\$9,960.00		\$0.00		. ,		\$0.00	. ,	\$11,952.00	Cost
		Cables Signal	\$9,960.00	332	\$0.00	\$0.00	\$9,960.00		\$0.00	\$11,952.00	\$11,952.00	Cost Cost
		Phy 2 M Phy 1 M	\$0.00 \$0.00	192 hrs 192 hrs	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00		\$0.00 \$0.00	\$0.00 \$0.00	<u></u> የሰ ሰ⁄	Coct
103	1.5.9	1.5.9 Assembly	\$0.00	160 hrs	\$0.00		\$0.00		\$0.00	\$0.00	\$0.00	Cost
		Phy 1 M	\$0.00	160 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00)IICost
104	1.5.10	1.5.10 Testing	\$0.00	80 hrs	\$0.00		\$0.00		\$0.00	\$0.00	\$0.00	O Cost
	-	Phy 1 M	\$0.00	80 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	<u></u> የሰ ሰ⁄	∩lCoct
105	1.5.11	1.5.11 Muon Ready for installation	\$0.00	0 hrs	\$0.00		\$0.00		\$0.00	\$0.00	\$0.00	Cost
		1.3.11 WILLOTT REALLY FOR HITSLAHALION	ψ3.30	5.110	Ψ0.00	Ψ0.00	40.00	\$5.50	\$5.50	ψ0.00	Ψ5.0	Cost

				V	/BS						
ID	WBS	Task Name	Cost	Work	Labor	Lcontingency	Material	Mcontingency	Ltotal	Mtotal	Total Details -
106	1.6	1.6 TDAQ	\$129,925.60	2,512 hrs	\$129,925.60	\$25,985.12	\$0.00	\$0.00	\$155,910.72	\$0.00	\$155,910.72 Cost
107	1.6.1	1.6.1 EPICS information into data stre	\$18,086.40	192 hrs	\$18,086.40	\$3,617.28	\$0.00	\$0.00	\$21,703.68	\$0.00	\$21,703.68 Cost
		EE J	\$18,086.40	160 hrs	\$18,086.40	\$3,617.28	\$0.00	\$0.00	\$21,703.68	\$0.00	\$21,703.68 Cost
108	1.6.2	Phy 1 JD	\$0.00 \$0.00	32 hrs 32 hrs	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 Cost
100	1.0.2	1.6.2 Event header with appropriate									\$0.00 Cost \$0.00 Cost
109	1.6.3	Phy 1 JD 1.6.3 Readout of fADC scalers in EPI	\$0.00 \$0.00	32 <i>hr</i> s 32 hrs	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 Cost \$0.00 Cost
		Phy 1 JD	\$0.00	32 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
110	1.6.4	1.6.4 Rate monitring with discriminate	\$0.00	32 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 Cost \$0.00 Cost
		Phy 1 JD	\$0.00	32 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
111	1.6.5	1.6.5 Event display	\$0.00	32 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 Cost \$0.00 Cost
		Phy 1 JD	\$0.00	32 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
112	1.6.6	1.6.6 Monitoring/histogramin	\$0.00	32 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 Cost \$0.00 Cost
		Phy 1 JD	\$0.00	32 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
113	1.6.7	1.6.7 ECAL+Muon FDAC	\$0.00	40 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 Cost \$0.00 Cost
		FADC	\$0.00	49	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 Cost
114	1.6.8	Phy 1 JD	\$0.00 \$0.00	40 hrs 40 hrs	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 Cost
114	1.0.0	1.6.8 Trigger Interface									\$0.00 Cost
		Trigger Interface Phy 1 JD	\$0.00 \$0.00	3 40 hrs	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 Cost \$0.00 Cost
115	1.6.9	1.6.9 Signal distribution	\$0.00	40 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 Cost
		Signal Distribution	\$0.00	3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 Cost
		Phy 1 JD	\$0.00	40 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 Cost
116	1.6.10	1.6.10 Crate Trigger Processor	\$0.00	40 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 Cost
		Crate Trigger processor	\$0.00	3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 Cost
117	1.6.11	Phy 1 JD	\$0.00 \$0.00	40 hrs 40 hrs	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 Cost \$0.00 Cost
	1.0.11	1.6.11 Sub-System Processor Sub-System processor	\$0.00	2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Cost Cost
		Phy 1 JD	\$0.00	40 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 Cost \$0.00 Cost
118	1.6.12	1.6.12 Global Trigger Processor	\$0.00	800 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 Cost \$0.00 Cost
		Global Trigger processor	\$0.00	2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 Cost
110	1 0 10	Phy 1 JD	\$0.00	800 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 Cost
119	1.6.13	1.6.13 Trigger Distribution	\$0.00	40 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 Cost \$0.00 Cost
		Trigger Distribution Phy 1 JD	\$0.00 \$0.00	1 40 hrs	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 Cost \$0.00 Cost
120	1.6.14	1.6.14 Trigger Supervisor	\$0.00	80 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 Cost \$0.00 Cost
-		Trigger Supervisor	\$0.00	2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 Cost
		Phy 1 JD	\$0.00	80 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 Cost
121	1.6.15	1.6.15 Update firmware on FADC250	\$18,086.40	160 hrs	\$18,086.40	\$3,617.28	\$0.00	\$0.00	\$21,703.68	\$0.00	\$21,703.68 Cost
		EE J	\$18,086.40	160 hrs	\$18,086.40	\$3,617.28	\$0.00	\$0.00	\$21,703.68	\$0.00	\$21,703,68 Cost
122	1.6.16	1.6.16 New firmware for cluster findir	\$36,172.80	320 hrs	\$36,172.80	\$7,234.56	\$0.00	\$0.00	\$43,407.36	\$0.00	\$43,407.36 Cost
400	4.0.47	EE J	\$36,172.80	320 hrs	\$36,172.80	\$7,234.56	\$0.00	\$0.00	\$43,407.36	\$0.00	\$43,407.36 Cost
123	1.6.17	1.6.17 New firmware for SSP	\$21,407.20	240 hrs	\$21,407.20	\$4,281.44	\$0.00	\$0.00	\$25,688.64	\$0.00	\$25,688.64 Cost
		EE J	\$18,086.40	160 hrs	\$18,086.40	\$3,617.28	\$0.00	\$0.00	\$21,703.68	\$0.00	\$21,703.68 Cost
124	1.6.18	ET J 1 6 18 Trigger monitoring tools	\$3,320.80 \$36,172.80	80 hrs 320 hrs	\$3,320.80 \$36,172.80	\$664.16 \$7,234.56	\$0.00 \$0.00	\$0.00 \$0.00	\$3,984.96 \$43,407.36	\$0.00 \$0.00	\$3,984.96 Cost \$43,407.36 Cost
		1.6.18 Trigger monitoring tools	\$36,172.80	320 hrs	\$36,172.80	\$7,234.56	\$0.00	\$0.00	\$43,407.36	\$0.00	\$43,407.36 Cost
125	1.7	1.7 Slow Control	\$163,545.20	2,061.17 hrs	\$99,475.20	\$19,895.04	\$64,070.00	\$12,814.00	\$119,370.24	\$76,884.00	\$196,254.24
126	1.7.1	1.7.1 Chiller control programming	\$41,823.20	92 hrs	\$9,043.20	\$1,808.64	\$32,780.00	\$6,556.00	\$10,851.84	\$39,336.00	\$50,187.84 Cost
		Equipment for chiller Control	\$2,980.00	1	\$0.00	\$0.00	\$2.980.00	\$596.00	\$0.00	\$3,576.00	\$3,576.00 Cost
		EĖ J	\$9,043.20	80 hrs	\$9,043.20	\$1,808.64	\$0.00	\$0.00	\$10,851.84	\$0.00	\$10,851.84 Cost
		Chiller	\$29,800.00	1	\$0.00	\$0.00	\$29,800.00	\$5,960.00	\$0.00	\$35,760.00	\$35,760.00 Cost

				V	VBS						
ID	WBS	Task Name	Cost	Work	Labor	Lcontingency	Material	Mcontingency	Ltotal	Mtotal	Total Details
		Phy 1 JSC	\$0.00	12 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 Cost
127	1.7.2	1.7.2 I/O modules for control	\$22,350.00	77.17 hrs	\$0.00	\$0.00	\$22,350.00	\$4,470.00	\$0.00	\$26,820.00	\$26,820.00 Cost
		I/O Modules for controls	\$22,350.00	1	\$0.00	\$0.00	\$22,350.00	\$4,470.00	\$0.00	\$26,820.00	\$26,820.00 Cost
128	1.7.3	Phy 1 JSC	\$0.00 \$13,564.80	77.17 hrs 300 hrs	\$0.00 \$13,564.80	<i>\$0.00</i> \$2,712.96	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$16,277.76	\$0.00 \$0.00	\$0.00 Cost \$16,277.76 Cost
120	1.7.3	1.7.3 Sensor readout programming EE J									
		Phy 1 JSC	\$13,564.80 \$0.00	120 hrs 180 hrs	\$13,564.80 \$0.00	\$2,712.96 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$16,277.76 \$0.00	\$0.00 \$0.00	\$16,277.76 Cost \$0.00 Cost
129	1.7.4	1.7.4 SVT voltage control	\$13,564.80	138 hrs	\$13,564.80	\$2,712.96	\$0.00		\$16,277.76	\$0.00	\$16,277.76 Cost
		EE J	\$13,564.80	120 hrs	\$13,564.80	\$2,712.96	\$0.00	\$0.00	\$16,277.76	\$0.00	\$16,277.76 Cost
		Phy 1 JSC	\$0.00	18 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	CO OO Coot
130	1.7.5	1.7.5 ECAL voltage control	\$4,521.60	118 hrs	\$4,521.60	\$904.32	\$0.00	\$0.00	\$5,425.92	\$0.00	\$5,425.92 Cost
		EE J	\$4,521.60	40 hrs	\$4,521.60	\$904.32	\$0.00	\$0.00	\$5,425.92	\$0.00	\$5,425.92 Cost
131	176	Phy 1 JSC	\$0.00 \$4,521.60	78 hrs 196 hrs	\$0.00 \$4,521.60	\$0.00 \$904.32	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$5,425.92	\$0.00 \$0.00	\$0.00 Cost
131	1.7.0	1.7.6 Muon detector voltage control									\$5,425.92 Cost
		EE J Phy 1 JSC	\$4,521.60 \$0.00	40 hrs 156 hrs	\$4,521.60 \$0.00	\$904.32 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$5,425.92 \$0.00	\$0.00 \$0.00	\$5,425.92 Cost \$0.00 Cost
132	1.7.7	1.7.7 SVT motor controls	\$9,043.20	92 hrs	\$9,043.20	\$1,808.64	\$0.00		\$10,851.84	\$0.00	\$10,851.84 Cost
		EE J	\$9,043.20	80 hrs	\$9,043.20	\$1,808.64	\$0.00	\$0.00	\$10,851.84	\$0.00	\$10,851.84 Cost
		Phy 1 JSC	\$0.00	12 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 Cost
133	1.7.8	1.7.8 Target motor control	\$4,521.60	46 hrs	\$4,521.60	\$904.32	\$0.00	\$0.00	\$5,425.92	\$0.00	\$5,425.92 Cost
		EE Ĵ	\$4,521.60	40 hrs	\$4,521.60	\$904.32	\$0.00	\$0.00	\$5,425.92	\$0.00	\$5,425.92 Cost
134	170	Phy 1 JSC	\$0.00 \$4,521.60	6 hrs 142 hrs	\$0.00 \$4,521.60	\$0.00 \$904.32	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$5,425.92	\$0.00 \$0.00	\$0.00 Cost
134	1.7.9	1.7.9 Software interlock									\$5,425.92 Cost
		EE J Phy 1 JSC	\$4,521.60 \$0.00	40 hrs 102 hrs	\$4,521.60 \$0.00	\$904.32 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$5,425.92 \$0.00	\$0.00 \$0.00	\$5,425.92 Cost \$0.00 Cost
135	1.7.10	1.7.10 Hardware interlocks	\$22,504.80	222 hrs	\$13,564.80	\$2,712.96	\$8,940.00		\$16,277.76	\$10,728.00	\$27,005.76 Cost
		Hardware Interlocks Hardware Interlock Equipments	\$8,940.00	1	\$0.00	\$0.00	\$8,940.00	\$1,788.00	\$0.00	\$10,728.00	\$10,728.00 Cost
		EE J	\$13,564.80	120 hrs	\$13,564.80	\$2,712.96	\$0.00	\$0.00	\$16,277.76	\$0.00	\$16,277.76 Cost
		Phy 1 JSC	\$0.00	102 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 Cost
136	1.7.11	1.7.11 Beamline control screens	\$4,521.60	166 hrs	\$4,521.60	\$904.32	\$0.00		\$5,425.92	\$0.00	\$5,425.92 Cost
		EE J	\$4,521.60 \$0.00	40 hrs	\$4,521.60	\$904.32	\$0.00	\$0.00	\$5,425.92	\$0.00	\$5,425.92 Cost
137	1.7.12	Phy 1 JSC 1.7.12 EPICS Scalers programing	\$9,043.20	126 hrs 284 hrs	\$0.00 \$9,043.20	<i>\$0.00</i> \$1,808.64	\$0.00 \$0.00	\$0.00 \$0.00	<i>\$0.00</i> \$10,851.84	\$0.00 \$0.00	\$0.00 Cost \$10,851.84 Cost
		EEJ	\$9,043.20	80 hrs	\$9,043.20	\$1,808.64	\$0.00	\$0.00	\$10,851.84	\$0.00	\$10,851.84 Cost
		Phy 1 JSC	\$0.00	204 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 Coct
138	1.7.13	1.7.13 Alarms configuration	\$4,521.60	46 hrs	\$4,521.60	\$904.32	\$0.00	\$0.00	\$5,425.92	\$0.00	\$5,425.92 Cost
		EE J	\$4,521.60	40 hrs	\$4,521.60	\$904.32	\$0.00	\$0.00	\$5,425.92	\$0.00	\$5,425.92 Cost
		Phy 1 JSC	\$0.00	6 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 Cost
139	1.7.14	1.7.14 Archiving of controls	\$4,521.60	142 hrs	\$4,521.60	\$904.32	\$0.00		\$5,425.92	\$0.00	\$5,425.92 Cost
		EE J Phy 1 JSC	\$4,521.60 \$0.00	40 hrs	\$4,521.60	\$904.32	\$0.00	\$0.00	\$5,425.92 \$0.00	\$0.00 \$0.00	\$5,425.92 Cost
140	1.8	1.8 Installation & Commissioning	\$27,356.40	102 hrs 960 hrs	\$0.00 \$27,356.40	\$0.00 \$5,471.28	\$0.00 \$0.00	\$0.00 \$0.00	\$32,827.68	\$0.00 \$0.00	\$0.00 Cost \$32,827.68 Cost
141	1.8.1		\$0.00	0 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00 Cost
		1.8.1 Installation review									\$0.00 Cost
142	1.8.2	1.8.2 SVT I&C	\$14,014.80	160 hrs	\$14,014.80	\$2,802.96	\$0.00		\$16,817.76	\$0.00	\$16,817.76 Cost
		EE S ME S	\$6,670.80 \$7.344.00	40 hrs	\$6,670.80 \$7,344.00	\$1,334.16 \$1,468.80	\$0.00	\$0.00	\$8,004.96	\$0.00 \$0.00	\$8,004.96 Cost
		ME S Phy 3 SV	\$7,344.00 \$0.00	40 hrs 40 hrs	\$7,344.00 \$0.00	\$1,468.80 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$8,812.80 \$0.00	\$0.00 \$0.00	\$8,812.80 Cost \$0.00 Cost
		Phy 4 SV	\$0.00	40 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 Cost
143	1.8.3	1.8.3 ECAL I&C	\$0.00	120 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 Cost
		ET O	\$0.00	40 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 Cost
		MT O Phy 2 JE	\$0.00 \$0.00	40 hrs 40 hrs	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 Cost \$0.00 Cost
144	1.8.4	1.8.4 Muon I&C	\$0.00	240 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00 Cost
		1.0.4 IVIUUTI I&C ME J	\$0.00	40 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 Cost
		IVIL J	φυ.υυ	401118	φυ.υυ	φυ.υυ	φυ.υυ	φυ.υυ	φυ.00	φυ.υυ	φυ.υυ C0St

				V	/BS							
ID	WBS	Task Name	Cost	Work	Labor	Lcontingency	Material	Mcontingency	Ltotal	Mtotal	Total	Details
		ETJ	\$0.00	40 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Cost
		Phy 2 M	\$0.00	80 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Cost
		Phy 1 M	\$0.00	80 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	Cost
145	1.8.5	1.8.5 TDAQ I&C	\$13,341.60	320 hrs	\$13,341.60	\$2,668.32	\$0.00	\$0.00	\$16,009.92	\$0.00	\$16,009.92	Cost
		EE J	\$0.00	80 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	Cost
		ET J	\$0.00	80 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00		Cost
		EE S	\$13,341.60	80 hrs	\$13,341.60	\$2,668.32	\$0.00		\$16,009.92	\$0.00	\$16,009.92	
146	1.8.6	Phy 1 JD	<i>\$0.00</i> \$0.00	80 hrs 120 hrs	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00		\$0.00 \$0.00	\$0.00 \$0.00	\$0.00	Cost
140	1.0.0	1.8.6 Slow Control I&C									φυ.υι	Cost
		EEJ	\$0.00	40 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00		Cost
		ET J Phy 1 JSC	\$0.00 \$0.00	40 hrs 40 hrs	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00		\$0.00 \$0.00	\$0.00 \$0.00	ድስ ሰላ	Cost
147	1.8.7		\$0.00	0 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	Cost
		1.8.7 HPS ready for the beam			·			·	·		ψ0.0	Cost
148	1.9	1.9 Electron Running	\$0.00	3,840 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Cost
149	1.9.1	1.9.1 Beamline Commissioning (2014	\$0.00	320 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Cost
		Phy 1 JB	\$0.00	40 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Cost
		Phy 1 JSC	\$0.00	40 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00		Cost
		Phy 1 JD	\$0.00	40 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00		Cost
		Phy 1 M	\$0.00	40 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00		Cost
		Phy 1 SB	\$0.00	40 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00		Cost
		Phy 2 JE	\$0.00	40 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00		Cost
		Phy 3 SV Phy 4 SV	\$0.00 \$0.00	40 hrs 40 hrs	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00		\$0.00 \$0.00	\$0.00 \$0.00		Cost
150	1.9.2		\$0.00	320 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	Cost
130	1.3.2	1.9.2 Detector Commissioning Run (2									ψ0.01	Cost
		Phy 1 JB	\$0.00	40 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00		Cost
		Phy 1 JSC Phy 1 JD	\$0.00 \$0.00	40 hrs 40 hrs	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00		\$0.00 \$0.00	\$0.00 \$0.00		Cost Cost
		Phy 1 M	\$0.00	40 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00 \$0.00	Cost
		Phy 1 SB	\$0.00	40 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	Cost
		Phy 2 JE	\$0.00	40 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00		Cost
		Phy 3 SV	\$0.00	40 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00		Cost
		Phy 4 SV	\$0.00	40 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00		Cost
	1.9.5	1.9.3 Data Run 2.2GeV (2014)	\$0.00	0 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00		Cost
152 153	1.9.6	1.9.4 Data Run 1.1 GeV (2014)	\$0.00	0 hrs	\$0.00	\$0.00	\$0.00		\$0.00 \$0.00	\$0.00	\$0.00	Cost
155	1.9.3	1.9.5 Beamline recommissioning (201	\$0.00	640 hrs	\$0.00	\$0.00	\$0.00			\$0.00	φυ.υι	Cost
		Phy 1 JB	\$0.00	80 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00		Cost
		Phy 1 JSC	\$0.00	80 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00		Cost
		Phy 1 JD Phy 1 M	\$0.00 \$0.00	80 hrs 80 hrs	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00		\$0.00 \$0.00	\$0.00 \$0.00		Cost Cost
		Phy 1 SB	\$0.00	80 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00		Cost
		Phy 2 JE	\$0.00	80 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	Cost
		Phy 3 SV	\$0.00	80 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00		Cost
		Phy 4 SV	\$0.00	80 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	Cost
154	1.9.4	1.9.6 Data Run (2015)	\$0.00	2,560 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Cost
		Phy 1 JB	\$0.00	320 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		Cost
		Phy 1 JSC	\$0.00	320 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00		Cost
		Phy 1 JD	\$0.00	320 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00		Cost
		Phy 1 M	\$0.00	320 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00		Cost
		Phy 1 SB	\$0.00	320 hrs	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00		Cost
		Phy 2 JE Phy 3 SV	\$0.00 \$0.00	320 hrs 320 hrs	\$0.00 \$0.00	\$0.00	\$0.00 \$0.00		\$0.00 \$0.00	\$0.00 \$0.00		Cost Cost
		Phy 4 SV	\$0.00	320 hrs	\$0.00	\$0.00 \$0.00	\$0.00		\$0.00	\$0.00	\$0.00	Coet
155	1.10	1.10 SLAC Travel Meetings	\$104,958.00	2,800 hrs	\$104,958.00		\$0.00		\$125,949.60	\$0.00	\$125,949.6	0 .
100	1.10.2	1.10.1 Collaboration Meeting May 2013 Rental Car 1	\$16,371.00 \$535.50	400 hrs 40 hrs	\$16,371.00 \$535.50	\$3,274.20 \$107.10	\$0.00 \$0.00		\$19,645.20 \$642.60	\$0.00 \$0.00	\$19,645.20 \$642.60	Cost
		Rental Car 2	\$535.50	40 hrs	\$535.50	\$107.10	\$0.00		\$642.60	\$0.00	\$642.60	
		Phy 6 S	\$1,912.50	40 hrs	\$1,912.50	\$382.50	\$0.00		\$2,295.00	\$0.00	\$2,295.00	
		Phy 1 SB	\$1,912.50	40 hrs	\$1,912.50	\$382.50	\$0.00		\$2,295.00	\$0.00	\$2,295.00	

					VBS							
ID	WBS	Task Name	Cost	Work	Labor	Lcontingency	Material	Mcontingency	Ltotal	Mtotal	Total	Details
		Phy 2 SB	\$1,912.50	40 hrs	\$1,912.50	\$382.50	\$0.00	\$0.00	\$2,295.00	\$0.00	\$2,295.00	Cost
	ĺ	Phy 3 SV	\$1,912.50	40 hrs	\$1,912.50	\$382.50	\$0.00	\$0.00	\$2,295.00	\$0.00	\$2,295.00	
		Phy 4 SV	\$1,912.50	40 hrs	\$1,912.50	\$382.50	\$0.00	\$0.00	\$2,295.00	\$0.00	\$2,295.00	
		Phy 5 SV	\$1,912.50	40 hrs	\$1,912.50	\$382.50	\$0.00	\$0.00	\$2,295.00	\$0.00	\$2,295.00	
		EE S	\$1,912.50	40 hrs	\$1,912.50	\$382.50	\$0.00	\$0.00	\$2,295.00	\$0.00	\$2,295.00	
157	1 10 2	MES	\$1,912.50	40 hrs	\$1,912.50	\$382.50	\$0.00	\$0.00	\$2,295.00	\$0.00	\$2,295.00	
157	1.10.3	1.10.2 Consultation 1 at JLAB Rental Car 1	\$6,273.00 \$535.50	160 hrs 40 hrs	\$6,273.00 \$535.50	\$1,254.60 \$107.10	\$0.00 \$0.00	\$0.00 \$0.00	\$7,527.60 \$642.60	\$0.00 \$0.00	\$7,527.60 \$642.60	
		ME S	\$1,912.50	40 hrs	\$1,912.50	\$382.50	\$0.00	\$0.00	\$2,295.00	\$0.00	\$2,295.00	
		Phy 1 SB	\$1,912.50	40 hrs	\$1,912.50	\$382.50	\$0.00	\$0.00	\$2,295.00	\$0.00	\$2,295.00	
		Phy 3 SV	\$1,912.50	40 hrs	\$1,912.50	\$382.50	\$0.00	\$0.00	\$2,295.00	\$0.00	\$2,295.00	2 Cost
158	1.10.4	1.10.3 Collaboration Meeting November 2013	\$16,371.00	400 hrs	\$16,371.00		\$0.00		\$19,645.20	\$0.00	\$19,645.20	
		Rental Car 2	\$535.50	40 hrs	\$535.50	\$107.10	\$0.00	\$0.00	\$642.60	\$0.00	\$642.60	
	ĺ	Rental Car 1	\$535.50	40 hrs	\$535.50	\$107.10	\$0.00	\$0.00	\$642.60	\$0.00	\$642.60	Cost
		Phy 6 S	\$1,912.50	40 hrs	\$1,912.50	\$382.50	\$0.00	\$0.00	\$2,295.00	\$0.00	\$2,295.00	Cost
		Phy 1 SB	\$1,912.50	40 hrs	\$1,912.50	\$382.50	\$0.00	\$0.00	\$2,295.00	\$0.00	\$2,295.00	
		Phy 2 SB	\$1,912.50	40 hrs	\$1,912.50	\$382.50	\$0.00	\$0.00	\$2,295.00	\$0.00	\$2,295.00	
		Phy 3 SV	\$1,912.50	40 hrs	\$1,912.50	\$382.50	\$0.00	\$0.00	\$2,295.00	\$0.00	\$2,295.00	
		Phy 4 SV	\$1,912.50	40 hrs	\$1,912.50	\$382.50	\$0.00	\$0.00	\$2,295.00	\$0.00	\$2,295.00	
		Phy 5 SV	\$1,912.50	40 hrs	\$1,912.50	\$382.50	\$0.00	\$0.00	\$2,295.00	\$0.00	\$2,295.00	
		EE S ME S	\$1,912.50 \$1,912.50	40 hrs 40 hrs	\$1,912.50	\$382.50 \$382.50	\$0.00 \$0.00	\$0.00	\$2,295.00 \$2,295.00	\$0.00 \$0.00	\$2,295.00 \$2,295.00	
150	1.10.5	1.10.4 Collaboration Meeting May 2014	\$16,371.00	400 hrs	\$1,912.50 \$16,371.00		\$0.00	\$0.00 \$0.00	\$19,645.20	\$0.00	\$2,295.00	
109	1.10.5	Rental Car 1	\$535.50	40 hrs	\$535.50	\$107.10	\$0.00	\$0.00	\$642.60	\$0.00	\$642.60	
		Rental Car 2	\$535.50	40 hrs	\$535.50	\$107.10	\$0.00	\$0.00	\$642.60	\$0.00	\$642.60	
		Phy 6 S	\$1,912.50	40 hrs	\$1,912.50	\$382.50	\$0.00	\$0.00	\$2,295.00	\$0.00	\$2,295.00	
		Phy 1 SB	\$1,912.50	40 hrs	\$1,912.50	\$382.50	\$0.00	\$0.00	\$2,295.00	\$0.00	\$2,295.00	
		Phy 2 SB	\$1,912.50	40 hrs	\$1,912.50	\$382.50	\$0.00	\$0.00	\$2,295.00	\$0.00	\$2,295.00	
		Phy 3 SV	\$1,912.50	40 hrs	\$1,912.50	\$382.50	\$0.00	\$0.00	\$2,295.00	\$0.00	\$2,295.00	
		Phy 4 SV	\$1,912.50	40 hrs	\$1,912.50	\$382.50	\$0.00	\$0.00	\$2,295.00	\$0.00	\$2,295.00	Cost
		Phy 5 SV	\$1,912.50	40 hrs	\$1,912.50	\$382.50	\$0.00	\$0.00	\$2,295.00	\$0.00	\$2,295.00	
		EE S	\$1,912.50	40 hrs	\$1,912.50	\$382.50	\$0.00	\$0.00	\$2,295.00	\$0.00	\$2,295.00	Cost
100		ME S	\$1,912.50	40 hrs	\$1,912.50	\$382.50	\$0.00	\$0.00	\$2,295.00	\$0.00	\$2,295.00	
160	1.10.9	1.10.5 Consultation 2 at JLAB	\$6,273.00	160 hrs	\$6,273.00		\$0.00		\$7,527.60	\$0.00	\$7,527.60	
	-	ME S	\$1,912.50	40 hrs	\$1,912.50	\$382.50	\$0.00	\$0.00	\$2,295.00	\$0.00	\$2,295.00	
		Phy 1 SB	\$1,912.50	40 hrs	\$1,912.50	\$382.50 \$382.50	\$0.00	\$0.00	\$2,295.00 \$2,295.00	\$0.00	\$2,295.00	
	-	Phy 3 SV Rental Car 1	\$1,912.50 \$535.50	40 hrs 40 hrs	\$1,912.50 \$535.50	\$382.50 \$107.10	\$0.00 \$0.00	\$0.00 \$0.00	\$2,295.00 \$642.60	\$0.00 \$0.00	\$2,295.00 \$642.60	Cost
161	1.10.7	1.10.6 Collaboration Meeting November 2014	\$16,371.00	400 hrs	\$16,371.00		\$0.00		\$19,645.20	\$0.00	\$19,645.20	
101	1.10.7	Rental Car 1	\$535.50	40 hrs	\$535.50	\$107.10	\$0.00	\$0.00	\$642.60	\$0.00	\$642.60	
		ME S	\$1,912.50	40 hrs	\$1,912.50	\$382.50	\$0.00	\$0.00	\$2,295.00	\$0.00	\$2,295.00	
		EE S	\$1,912.50	40 hrs	\$1,912.50	\$382.50	\$0.00	\$0.00	\$2,295.00	\$0.00	\$2,295.00	
		Phy 1 SB	\$1,912.50	40 hrs	\$1,912.50	\$382.50	\$0.00	\$0.00	\$2,295.00	\$0.00	\$2,295.00	
		Phy 2 SB	\$1,912.50	40 hrs	\$1,912.50	\$382.50	\$0.00	\$0.00	\$2,295.00	\$0.00	\$2,295.00	
		Phy 3 SV	\$1,912.50	40 hrs	\$1,912.50	\$382.50	\$0.00	\$0.00	\$2,295.00	\$0.00	\$2,295.00	
		Phy 4 SV	\$1,912.50	40 hrs	\$1,912.50	\$382.50	\$0.00	\$0.00	\$2,295.00	\$0.00	\$2,295.00	
		Phy 5 SV	\$1,912.50	40 hrs	\$1,912.50	\$382.50	\$0.00	\$0.00	\$2,295.00	\$0.00	\$2,295.00	
		Phy 6 S	\$1,912.50	40 hrs	\$1,912.50	\$382.50	\$0.00	\$0.00	\$2,295.00	\$0.00	\$2,295.00	
100	1 10 0	Rental Car 2	\$535.50	40 hrs	\$535.50 \$26,928.00	\$107.10	\$0.00	\$0.00	\$642.60	\$0.00	\$642.60	
102	1.10.8	1.10.7 Installation&Commissioning EE S	\$26,928.00	880 hrs 40 hrs	\$26,928.00		\$0.00 \$0.00		\$32,313.60 \$1,652.40	\$0.00 \$0.00	\$32,313.60 \$1,652.40	
		ME S	\$1,377.00 \$1,377.00	40 hrs	\$1,377.00	\$275.40 \$275.40	\$0.00	\$0.00 \$0.00	\$1,652.40	\$0.00	\$1,652.40	
		Phy 6 S	\$2,754.00	80 hrs	\$2,754.00	\$550.80	\$0.00	\$0.00	\$3,304.80	\$0.00	\$3,304.80	
		Phy 1 SB	\$2,754.00	80 hrs	\$2,754.00	\$550.80	\$0.00		\$3,304.80	\$0.00	\$3,304.80	
		Phy 2 SB	\$2,754.00	80 hrs	\$2,754.00	\$550.80	\$0.00	\$0.00	\$3,304.80	\$0.00	\$3,304.80	
		Phy 3 SV	\$2,754.00	80 hrs	\$2,754.00	\$550.80	\$0.00		\$3,304.80	\$0.00	\$3,304.80	
	1	Phy 4 SV	\$2,754.00	80 hrs	\$2,754.00	\$550.80	\$0.00		\$3,304.80	\$0.00	\$3,304.80	
	İ	Rental Car 1	\$1,071.00	80 hrs	\$1,071.00	\$214.20	\$0.00	\$0.00	\$1,285.20	\$0.00	\$1,285.20	
		Rental Car 2	\$1,071.00	80 hrs	\$1,071.00	\$214.20	\$0.00	\$0.00	\$1,285.20	\$0.00	\$1,285.20	Cost
		Phy 5 SV	\$2,754.00	80 hrs	\$2,754.00	\$550.80	\$0.00		\$3,304.80	\$0.00	\$3,304.80	
		Phy 2 Sw	\$2,754.00	80 hrs	\$2,754.00	\$550.80	\$0.00	\$0.00	\$3,304.80	\$0.00	\$3,304.80	
	_	Phy 1 Sw	\$2,754.00	80 hrs	\$2,754.00	\$550.80	\$0.00	\$0.00	\$3,304.80	\$0.00	\$3,304.80	2lCost

				W	/BS							
ID	WBS	Task Name	Cost	Work	Labor	Lcontingency	Material	Mcontingency	Ltotal	Mtotal	Total	Details
163	1.11	1.11 SLAC Travel for Commissioning&	\$46,665.00	2,400 hrs	\$46,665.00	\$9,333.00	\$0.00	\$0.00	\$55,998.00	\$0.00	\$55,998.0	0 _{Cost}
164	1.11.1	1.11.1 Commissioning (2014)	\$9,333.00	400 hrs	\$9,333.00	\$1,866.60	\$0.00	\$0.00	\$11,199.60	\$0.00	\$11,199.6	0 Cost
		Phy 1 SB	\$2,754.00	80 hrs	\$2,754.00	\$550.80	\$0.00	\$0.00	\$3,304.80	\$0.00	\$3,304.80	Cost
		Phy 2 SB	\$2,754.00	80 hrs	\$2,754.00	\$550.80	\$0.00	\$0.00	\$3,304.80	\$0.00	\$3,304.80	
		Phy 2 SB Phy 3 SV	\$2,754.00	80 hrs	\$2,754.00	\$550.80	\$0.00	\$0.00	\$3,304.80	\$0.00	\$3,304.80	Cost
		Rental Car 1	\$1,071.00	80 hrs	\$1,071.00	\$214.20	\$0.00		\$1,285.20	\$0.00	\$1,285.20	
		Phy 4 SV	\$0.00	80 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Cost
165	1.11.2	1.11.2 Run 2.2GeV (2014)	\$6,579.00	240 hrs	\$6,579.00	\$1,315.80	\$0.00	\$0.00	\$7,894.80	\$0.00	\$7,894.8	0 Cost
		Rental Car 1	\$1,071.00	80 hrs	\$1,071.00	\$214.20	\$0.00	\$0.00	\$1,285.20	\$0.00	\$1,285.20	Cost
		Phy 1 SB	\$2,754.00	80 hrs	\$2,754.00	\$550.80	\$0.00		\$3,304.80	\$0.00	\$3,304.80	
		Phy 2 SB	\$2,754.00	80 hrs	\$2,754.00	\$550.80	\$0.00	\$0.00	\$3,304.80	\$0.00	\$3,304.80	
166	1.11.7	1.11.3 Run 1.1 GeV (2014)	\$1,071.00	240 hrs	\$1,071.00	\$214.20	\$0.00	\$0.00	\$1,285.20	\$0.00	\$1,285.2	0 Cost
		Phy 1 SB	\$0.00	80 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Cost
		Phy 3 SV	\$0.00	80 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Cost
		Rental Car 1	\$1,071.00	80 hrs	\$1,071.00	\$214.20	\$0.00	\$0.00	\$1,285.20	\$0.00	\$1,285.20	2 Cost
167	1.11.3	1.11.4 Commissioning (2015)	\$7,650.00	560 hrs	\$7,650.00	\$1,530.00	\$0.00	\$0.00	\$9,180.00	\$0.00	\$9,180.0	0 Cost
		Phy 1 SB Phy 2 SB	\$2,754.00	80 hrs	\$2,754.00	\$550.80	\$0.00	\$0.00	\$3,304.80	\$0.00	\$3,304.80	2 Cost
		Phy 2 SB	\$2,754.00	80 hrs	\$2,754.00	\$550.80	\$0.00	\$0.00	\$3,304.80	\$0.00	\$3,304.80	2 Cost
		Rental Car 1	\$1,071.00	80 hrs	\$1,071.00	\$214.20	\$0.00	\$0.00	\$1,285.20	\$0.00	\$1,285.20	Cost
		Phy 3 SV	\$0.00	80 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	2 Cost
		Phy 4 SV	\$0.00	80 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Cost
		Phy 5 SV	\$0.00	80 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Cost
		Rental Car 2	\$1,071.00	80 hrs	\$1,071.00	\$214.20	\$0.00	\$0.00	\$1,285.20	\$0.00	\$1,285.20	Cost
168	1.11.4	1.11.5 Run 2.2 GeV (2015)	\$11,016.00	480 hrs	\$11,016.00	\$2,203.20	\$0.00		\$13,219.20	\$0.00	\$13,219.2	0 Cost
		Phy 1 SB	\$4,437.00	160 hrs	\$4,437.00	\$887.40	\$0.00	\$0.00	\$5,324.40	\$0.00	\$5,324.40	Cost
		Phy 2 SB	\$4,437.00	160 hrs	\$4,437.00	\$887.40	\$0.00	\$0.00	\$5,324.40	\$0.00	\$5,324.40	Cost
		Rental Car 1	\$2,142.00	160 hrs	\$2,142.00	\$428.40	\$0.00	\$0.00	\$2,570.40	\$0.00	\$2,570.40	Cost
169	1.11.6	1.11.6 Run 6.6 GeV (2015)	\$11,016.00	480 hrs	\$11,016.00	\$2,203.20	\$0.00	\$0.00	\$13,219.20	\$0.00	\$13,219.2	0 Cost
		Phy 1 SB	\$4,437.00	160 hrs	\$4,437.00	\$887.40	\$0.00	\$0.00	\$5,324.40	\$0.00	\$5,324.40	Cost
		Phy 2 SB	\$4,437.00	160 hrs	\$4,437.00	\$887.40	\$0.00	\$0.00	\$5,324.40	\$0.00	\$5,324.40	Cost
		Rental Car 1	\$2,142.00	160 hrs	\$2,142.00	\$428.40	\$0.00		\$2,570.40	\$0.00	\$2 570 40	Cost
170	1.12	1.12 Project management	\$73,440.00	1,184 hrs	\$73,440.00	. ,	\$0.00		\$88,128.00	\$0.00	\$88,128.0	0 Cost
		ME S	\$73,440.00	400 hrs	\$73,440.00	\$14,688.00	\$0.00	\$0.00	\$88,128.00	\$0.00	\$88,128.00	
		Phy 3 J	\$0.00	392 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Cost
		Phy 6 S	\$0.00	392 hrs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Cost