					WBS	/470 Wed 5/8/13									
ID WBS	Task Name	Type Work	# Pro	ototyp	Cost	Labor	Ltotal	Material	Mtotal	Total	Spares	Prototypes	Total Operations	Total Infrastructures	Total Capital Do
1 1	1 HPS	32,808.6 hrs	0	0 :	2,407,461.34	\$1,366,880.14	\$1,761,144.08	\$1,038,430.20	\$1,209,985.58	\$2,971,129.66	\$77,915.31	\$20,834.95	\$926,864.96	\$248,127.50	\$1,796,137.20 <sub>W</sub>
2 1.1	1.1 Beamline	1,680 hrs	0	0	\$171,239.92	\$70,369.92	\$91,480.90	\$100,870.00	\$131,131.00	\$222,611.90	\$0.00	\$0.00	\$0.00	\$5,811.00	\$216,800.90 <sub>W</sub>
3 1.1.1	1.1.1 Beamline Design	440 hrs	0	0	\$8,966.40	\$8,966.40	\$11,656.32	\$0.00	\$0.00	\$11,656.32	\$0.00	\$0.00	\$0.00	\$0.00	\$11,656.32 <sub>W</sub>
	Stepan Stepanyan (Phys)	160 hrs	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 W
	Ken Moffeit (Phys) MD Hall-B	160 hrs 120 hrs	0	0	\$0.00 \$8,966.40	\$0.00 \$8,966.40	\$0.00 \$11,656.32	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$11,656.32	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 W \$11,656.32 W
4 1.1.2	1.1.2 Beamline Review	0 hrs	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5 1.1.3	1.1.3 Frascati beampipe 1	128 hrs	0	0	\$7,450.00	\$0.00	\$0.00	\$7,450.00	\$9,685.00	\$9,685.00	\$0.00	\$0.00	\$0.00	\$0.00	\$9,685.00
	Frascati beampipe 1	1	0	0	\$7,450.00	\$0.00	\$0.00	\$7,450.00	\$9,685.00	\$9,685.00	\$0.00	\$0.00	\$0.00	\$0.00	\$9,685.00 W
	Stepan Stepanyan (Phys)	64 hrs	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 W
6 1.1.4	Ken Moffeit (Phys)	64 hrs 248 hrs	0	0	<i>\$0.00</i> \$27,122.40	<i>\$0.00</i> \$18,482.40	\$0.00	<i>\$0.00</i> \$8,640.00	\$0.00 \$11,232.00	<i>\$0.00</i> \$35,259.12	<i>\$0.00</i> \$0.00	<i>\$0.00</i> \$0.00	<i>\$0.00</i> \$0.00	\$0.00 \$0.00	\$0.00 W \$35,259.12
0 1.1.4	1.1.4 SVT Vacuum Box	240 1115		0			\$24,027.12								Į V V
	Electron Run Flange Marco Oriunno (ME)	40 hrs	0	0	\$5,400.00 \$7,344.00	\$0.00 \$7,344.00	\$0.00 \$9,547.20	\$5,400.00 \$0.00	\$7,020.00 \$0.00	\$7,020.00 \$9,547.20	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$7,020.00 W \$9,547.20 W
	Matt Swift (MD)	80 hrs	0	0	\$11,138.40	\$11,138.40	\$14,479.92	\$0.00	\$0.00	\$14,479.92	\$0.00	\$0.00	\$0.00	\$0.00	\$14,479.92 W
	Vacuum Flange hardware	1	0	0	\$1,080.00	\$0.00	\$0.00	\$1,080.00	\$1,404.00	\$1,404.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,404.00 W
	Conflat gaskets Linear Shifts	1 3	0	0	\$2,160.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$2,160.00 \$0.00	\$2,808.00 \$0.00	\$2,808.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$2,808.00 W \$0.00 W
	Cooling Feedthrough	2	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 W
	Stepan Stepanyan (Phys)	64 hrs	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 W
7 1.1.5	Ken Moffeit (Phys)	64 hrs 112 hrs	0	0	<i>\$0.00</i> \$17,110.80	<i>\$0.00</i> \$12,790.80	<i>\$0.00</i> \$16,628.04	\$0.00 \$4,320.00	\$0.00 \$5,616.00	<i>\$0.00</i> \$22,244.04	<i>\$0.00</i> \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	<i>\$0.00</i> \$0.00	\$0.00 W \$22,244.04
7 1.1.5	1.1.5 Electron Target  ElectronTarget	1121113	0	0	\$4,320.00	\$0.00	\$0.00	\$4,320.00	\$5,616.00		\$0.00	\$0.00	\$0.00	\$0.00	ĮVV
	Matt McCulloch (MT)	40 hrs	0	0	\$4,320.00 \$5,446.80	\$5,446.80	\$7,080.84	\$4,320.00	\$5,676.00	\$5,616.00 \$7,080.84	\$0.00	\$0.00	\$0.00	\$0.00	\$5,616.00 W \$7,080.84 W
	Stepan Stepanyan (Phys)	16 hrs	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 W
	Ken Moffeit (Phys)	16 hrs	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 W
8 1.1.6	Marco Oriunno (ME)	40 hrs 176 hrs	0	0	\$7,344.00 \$24,431.84	<i>\$7,344.00</i> \$9,531.84	\$9,547.20 \$12,391.39	<i>\$0.00</i> \$14,900.00	<i>\$0.00</i> \$19,370.00	\$9,547.20 \$31,761.39	<i>\$0.00</i> \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	<i>\$0.00</i> \$0.00	\$9,547.20 W \$31,761.39 w
0 11110	1.1.6 SVT Collimator Protection  ME Accelerator JLAB	32 hrs	0	0	\$3,554.24	\$3,554.24	\$4,620.51	\$0.00	\$0.00	\$4,620.51	\$0.00	\$0.00	\$0.00	\$0.00	\$4,620.51 W
	MT Accelerator JLAB	80 hrs	0	0	\$5,977.60	\$5,977.60	\$7,770.88	\$0.00	\$0.00	\$7,770.88	\$0.00	\$0.00	\$0.00	\$0.00	\$7,770.88 W
	SVT Collimator Protection	1	0	0	\$14,900.00	\$0.00	\$0.00	\$14,900.00	\$19,370.00	\$19,370.00	\$0.00	\$0.00	\$0.00	\$0.00	\$19,370.00 W
	Stepan Stepanyan (Phys) Ken Moffeit (Phys)	32 hrs 32 hrs	0	0	\$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	\$0.00 \$0.00	\$0.00 W \$0.00 W
9 1.1.7	1.1.7 Vacuum beam line downstream of chicane	32 hrs	0	0	\$14,900.00	\$0.00	\$0.00	\$14,900.00	\$19,370.00		\$0.00	\$0.00	\$0.00	\$0.00	\$19,370.00
	Vacuum beamline downstream chicane	1	0	0	\$14,900.00	\$0.00	\$0.00	\$14,900.00	\$19,370.00	\$19,370.00	\$0.00	\$0.00	\$0.00	\$0.00	\$19,370.00 W
	Stepan Stepanyan (Phys)	16 hrs	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 W
40 440	Ken Moffeit (Phys)	16 hrs	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 W
10 1.1.8	1.1.8 Beam Offset Monitor	128 hrs	0	U	\$12,224.72	\$7,754.72	\$10,081.14	\$4,470.00	\$5,811.00		\$0.00	\$0.00	\$0.00	\$5,811.00	\$10,081.14 <sub>W</sub>
	Beam Offset Monitor ME Hall-B	INFRA 1 16 hrs	0	0	\$4,470.00 \$1,777.12	\$0.00 \$1,777.12	\$0.00 \$2,310.26	\$4,470.00 \$0.00	\$5,811.00 \$0.00	\$5,811.00 \$2,310.26	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$5,811.00 \$0.00	\$0.00 W \$2,310.26 W
	MT Hall-B	80 hrs	0	0	\$5,977.60	\$5,977.60	\$7,770.88	\$0.00	\$0.00	\$7,770.88	\$0.00	\$0.00	\$0.00	\$0.00	\$7,770.88 W
	Stepan Stepanyan (Phys)	32 hrs	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 W
11 1.1.15	1.1.9 Beam Profile Monitor	64 hrs	0	0	\$10,430.00	\$0.00	\$0.00	\$10,430.00	\$13,559.00		\$0.00	\$0.00	\$0.00	\$0.00	\$13,559.00 <sub>W</sub>
	Insertable YAG Viewer Stepan Stepanyan (Phys)	32 hrs	0	0	\$10,430.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$10,430.00 \$0.00	\$13,559.00 \$0.00	\$13,559.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$13,559.00 W \$0.00 W
	Ken Moffeit (Phys)	32 hrs	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 W
12 1.1.9	1.1.10 Frascati Vacuum Chamber	24 hrs	0	0	\$14,900.00	\$0.00	\$0.00	\$14,900.00	\$19,370.00	\$19,370.00	\$0.00	\$0.00	\$0.00	\$0.00	\$19,370.00 <sub>W</sub>
	Frascati beampipe 2	1	0	0	\$14,900.00	\$0.00	\$0.00	\$14,900.00	\$19,370.00	\$19,370.00	\$0.00	\$0.00	\$0.00	\$0.00	\$19,370.00 W
13 1.1.10	Stepan Stepanyan (Phys)	24 hrs 176 hrs	0	0	<i>\$0.00</i> \$26,837.60	<i>\$0.00</i> \$5,977.60	<i>\$0.00</i> \$7,770.88	<i>\$0.00</i> \$20,860.00	\$0.00	<i>\$0.00</i> \$34,888.88	\$0.00 \$0.00	<i>\$0.00</i> \$0.00	<i>\$0.00</i> \$0.00	<i>\$0.00</i> \$0.00	\$0.00 W \$34,888.88
13 1.1.10	1.1.11 Photon Dump & Shielding	1701115		0					\$27,118.00						Į v v
	Photon Dump & Shielding MD Hall-B	80 hrs	0	0	\$20,860.00 \$5,977.60	\$0.00 \$5,977.60	\$0.00 \$7,770.88	\$20,860.00 \$0.00	\$27,118.00 \$0.00	\$27,118.00 \$7,770.88	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$27,118.00 W \$7,770.88 W
	Stepan Stepanyan (Phys)	96 hrs	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 W
14 1.1.11	1.1.12 Installation review	0 hrs	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 W
15 1.1.12	1.1.13 HPS Beamline Installation	152 hrs	0	0	\$6,866.16	\$6,866.16	\$8,926.01	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	\$8,926.01 <sub>W</sub>
	Stepan Stepanyan (Phys) Ken Moffeit (Phys)	32 hrs	0	0	\$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 W
	Ken Moffeit (Phys)  ME Hall-B	32 hrs 8 hrs	0	0	\$0.00 \$888.56	\$0.00 \$888.56	\$0.00 \$1,155.13	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$1,155.13	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 W \$1,155.13 W
	MT Hall-B	80 hrs	0	0	\$5,977.60	\$5,977.60	\$7,770.88	\$0.00	\$0.00	\$7,770.88	\$0.00	\$0.00	\$0.00	\$0.00	\$7,770.88 W
16 1.1.13	1.1.14 Beamline Installed	0 hrs	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 <sub>W</sub>
17 1.2	1.2 SVT	5,311 hrs	0	0	\$506,987.76	\$346,316.76	\$451,984.75	\$160,671.00	\$204,194.20	\$656,178.95	\$8,412.00	\$10,038.00	\$74,827.44	\$42,614.00	\$538,737.51 <sub>W</sub>
18 1.2.1	1.2.1 SVT Design Review	0 hrs	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19 1.2.2	1.2.2 Layers 1-3	1,060 hrs	0	0	\$80,265.20	\$53,305.20	\$66,193.92	\$26,960.00	\$37,104.00	\$103,297.92	\$0.00	\$0.00	\$0.00	\$0.00	\$103,297.92 <sub>W</sub>
	1.2.2 Layois 1-3					•								•	· W

March   Marc										/470 Wed 5/8/13	WBS \					
March   Marc	Total Capital D			Prototypes	Spares	Total	Mtotal	Material	Ltotal	Labor	Cost	1 71		Туре	Task Name	ID WBS
Tenester									\$19,608.48							
Control   Cont												0	160 hrs			
Control   Cont												-	8			
Conversebore												0 0	1			
Transform Physics   Micros Control   Science												0 0	1			
Proceedings												0	350 hrs			
12   12   12   12   13   17   18   17   17   18   18   18   18	0 \$0.00 W											0 0			Per Hansson (Phys)	
21   1.2	0 \$17,625.60 W				\$0.00					\$14,688.00		0 0	80 hrs		Marco Oriunno (ME)	
14   1.4	00 \$0.00 <sub>M</sub>	0 \$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0 0	0 hrs		1.2.3 Laver 1-3 Ready	20 1.2.3
Marie Mary Author)	00 \$147,795.60	0 \$0.00	\$17.934.00	\$10.038.00	\$7.896.00	\$165.729.60	\$59.058.00	\$42,470.00	\$106.671.60	\$77.785.20	\$120.255.20	0 0	1.400 hrs		<del></del>	21 1.2.4
Mart McCurber (MT)	V											0 0				
Print Print (FF)												0 0				
Print																
Cebber Finteners  1 0 0 5 00000 5000 5000 5000 5000 5000	0 \$0.00 W				\$0.00	\$0.00	\$0.00					0 0	1			
Perfections   S 2 2 51   500	0 \$2,400.00 W											0 0	1			
Assembly Festines 9 2 2 8 50,000 50 30 00 50,000 58,000 00 58,000 58,000 58,000 50 50 50 50 50 50 50 50 50 50 50 50	0 \$2,142.00 W											0 1	2		Wirebonding Fixture	
U Support													0			
Tim Nelson (Phys)													•			
Fee Heastean (Phys)												0				
Marco Oriento (ME)   160 hrs   0   0   \$20,378.00   \$41,724.40   \$0.00   \$0.00   \$41,724.40   \$0.00												-				
Name												0				
22   1.2.5												-	100 1110			
23   1.2.6   Hybrids Assembly & Wirebonding												0 0	0 hrs			22 1.2.5
Subcontent Same Grace   1	Į V V								\$0.00			0 0	0 bro		· · · · · · · · · · · · · · · · · · ·	22 126
\$\frac{4}{24}\$   \$2.7\$   \$1.2, C. Support	I V V			·								0 0	0 1115			23 1.2.0
Mart Swiff (MD)					\$0.00							0	1			
Man Swift (MD)	00 \$28,486.94 <sub>W</sub>	3 \$0.00	\$0.00	\$0.00	\$0.00	\$28,486.94	\$2,592.00	\$2,160.00	\$25,894.94	\$21,579.12	\$23,739.12	0 0	321 hrs		1.2.7 C-Support	24  1.2.7
C-support   1   0   0   \$2,160.00   \$0.00   \$2,00.00   \$2,00.00   \$2,00.00   \$3.00   \$0.00			\$0.00		\$0.00	\$13,366.08	\$0.00	\$0.00	\$13,366.08	\$11,138.40		0 0	80 hrs		Matt Swift (MD)	
Tim Nelson (Phys)												0	16 hrs			
Per Hansson (Phys)												0 0	1			
Marco Orlunno (ME)												0				
25   12.8   12.8 DAO Support(Cooling   248 hrs 0   0   \$22,085,00   \$18,360,00   \$25,704,00   \$3,725,00   \$30,00   \$50					\$0.00										Per Hansson (Phys)	
Mest Swift (MD)																25 128
Matt McCulloch (MT)	ĮV.															20 1.2.0
DAG Support												0				
Tim Nelson (Phys)												0 0	40 nrs			
Per Hansson (Phys)												0	64 hrs			
Marco Oriunno (ME)	0 \$0.00 W															
Mait Swift (MD)												0 0	40 hrs			
Matt Swift (MD)	00 \$28,512.00 <sub>W</sub>	0 \$0.00	\$0.00	\$0.00	\$0.00	\$28,512.00	\$6,480.00	\$5,400.00	\$22,032.00	\$18,360.00	\$23,760.00	0 0	440 hrs		1 2 9 Basenlate	26 1.2.9
Matt McCulloch (MT)		\$0.00	\$0.00	\$0.00	\$0.00	\$6 683 04	\$0.00	\$0.00	\$6 683 04	\$5 569 20	\$5 569 20	0 0	40 hrs			
Baseplate																
Tim Nelson (Phys)												0 0	1		Baseplate	
Marco Oriunno (ME)	0 \$0.00 W	90.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00				Tim Nelson (Phys)	
27   1.2.10   1.2.10   Motion Levers   234 hrs   0   0   \$14,993.28   \$10,673.28   \$12,807.94   \$4,320.00   \$5,184.00   \$17,991.94   \$0.00	0 \$0.00 W				\$0.00				\$0.00						Per Hansson (Phys)	
Matt Swift (MD)												-			, ,	07 4040
Matt McCulloch (MT)	IV.											0 0				27 1.2.10
Flex links												0 0				
Tim Nelson (Phys)												-	24 hrs			
Per Hansson (Phys)					\$0.00							0 0	2			
Marco Oriunno (ME)         10 hrs         0         \$1,836.00         \$1,836.00         \$2,203.20         \$0.00												-			Tim Nelson (Phys)	
28       1.2.11       1.2.11 Vacuum Flanges       304 hrs       0       0       \$41,069.60       \$40,269.60       \$56,377.44       \$800.00       \$57,257.44       \$0.00       \$0.00       \$56,377.44       \$0.00         Matt Swift (MD)       OP       80 hrs       0       0       \$11,138.40       \$15,593.76       \$0.00       \$0.00       \$15,593.76       \$0.00       \$15,593.76       \$0.00       \$15,593.76       \$0.00       \$15,593.76       \$0.00       \$15,593.76       \$0.00       \$15,593.76       \$0.00       \$15,593.76       \$0.00       \$15,593.76       \$0.00       \$15,593.76       \$0.00       \$15,593.76       \$0.00       \$15,593.76       \$0.00       \$15,593.76       \$0.00       \$15,593.76       \$0.00       \$15,593.76       \$0.00       \$0.00       \$15,593.76       \$0.00       \$0.00       \$15,593.76       \$0.00       \$0.00       \$15,593.76       \$0.00       \$0.00       \$15,593.76       \$0.00												0				
Matt Swift (MD)	92,203.20 W $92,203.20$ W $92,203.20$ W															28 1 2 11
Matt McCulloch (MT)         OP         160 hrs         0         0         \$21,787.20         \$21,787.20         \$30,502.08         \$0.00         \$30,502.08         \$0.00         \$30,502.08         \$0.00         \$30,502.08         \$0.00	I V V					·						0 0			1.2.11 Vacuum Flanges	20 1.2.11
8" CF Flange     2     0     0     \$800.00     \$0.00     \$800.00     \$880.00     \$880.00     \$0.00     \$0.00     \$0.00       Tim Nelson (Phys)     12 hrs     0     0     \$0.00												0 0		-		
Tim Nelson (Phys)         12 hrs         0         0         \$0.00					\$0.00								100 nrs	UP		
Per Hansson (Phys)         12 hrs         0         0         \$0.00													12 hrs			
Marco Oriunno (ME) OP 40 hrs 0 0 \$7,344.00 \$10,281.60 \$0.00 \$10,281.60 \$0.00 \$10,281.60 \$0.00 \$10,281.60 \$0.00	0 \$0.00 W							\$0.00				-				
	0 \$0.00 W													OP		
1				\$0.00	\$516.00	\$35,788.27	\$18,067.20	\$15,056.00	\$17,721.07	\$14,767.56	\$29,823.56	0 0			1.2.12 Shipping Crates	29 1.2.12
1.2.12 Shipping Grates	N. S.											0 0				
							\$0.00	\$0.00				-				
									\$0.00							

						WBS	/470 Wed 5/8/13									
ID WBS	Task Name	Туре	Work	# Spare	rototype	Cost	Labor	Ltotal	Material	Mtotal	Total	Spares	Prototypes	Total Operations	Total Infrastructures	Total Capital De
	Tim Nelson (Phys)		60 hrs			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 W
	Per Hansson (Phys)		60 hrs	(	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 W
	Marco Oriunno (ME)		12 hrs			\$2,203.20	\$2,203.20	\$2,643.84	\$0.00	\$0.00	\$2,643.84	\$0.00	\$0.00	\$0.00		\$2,643.84 W
00 4 0 40	Half-Module Shipping Box		20		-	\$4,300.00	\$0.00	\$0.00	\$4,300.00	\$5,160.00	\$5,160.00	\$516.00	\$0.00	\$516.00		\$4,644.00 W
30 1.2.13	1.2.13 Integration and testing at SLAC		744 hrs		0 0	\$95,967.20	\$63,187.20	\$82,143.36	\$32,780.00	\$42,614.00	\$124,757.36	\$0.00	\$0.00	\$0.00		\$82,143.36 <sub>W</sub>
	Matt McCulloch (MT)		320 hrs		0 0	\$43,574.40	\$43,574.40	\$56,646.72	\$0.00	\$0.00	\$56,646.72	\$0.00	\$0.00	\$0.00		\$56,646.72 W
	Marco Oriunno (ME) Survey Technician SLAC		80 hrs 24 hrs		0 0	\$14,688.00 \$4,924.80	\$14,688.00 \$4,924.80	\$19,094.40 \$6,402.24	\$0.00 \$0.00	\$0.00 \$0.00	\$19,094.40 \$6,402.24	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00		\$19,094.40 W \$6,402.24 W
	Tim Nelson (Phys)		160 hrs		-	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0,402.24	\$0.00	\$0.00	\$0.00		\$0,402.24 W
	Per Hansson (Phys)		160 hrs		0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00 W
	Chiller	INFRA	1	(	, ,	\$29,800.00	\$0.00	\$0.00	\$29,800.00	\$38,740.00	\$38,740.00	\$0.00	\$0.00	\$0.00		\$0.00 W
24 4 2 4 4	Equipment for chiller Control	INFRA	10 h ==		0 0	\$2,980.00	\$0.00	\$0.00	\$2,980.00	\$3,874.00	\$3,874.00	\$0.00	\$0.00	\$0.00	\$3,874.00	\$0.00 W
31 1.2.14	1.2.14 SVT tested and ready for shipment		16 hrs		0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00 <sub>W</sub>
	Tim Nelson (Phys) Per Hansson (Phys)		8 hrs 8 hrs		0 0	\$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	\$0.00 \$0.00	\$0.00 W \$0.00 W
32 1.2.15			320 hrs		0 0	\$28,029.60	\$28,029.60	\$36,438.48	\$0.00	\$0.00	\$36,438.48	\$0.00	\$0.00	\$0.00		\$36,438.48 <sub>W</sub>
	1.2.15 Integration at Jlab  Marco Oriunno (ME)		80 hrs		2 0	\$14,688.00	\$14,688.00	\$19,094.40	\$0.00	\$0.00	\$19.094.40	\$0.00	\$0.00	\$0.00		\$19,094.40 W
	Ryan Herbst (EE)		80 hrs		0 0	\$13,341.60	\$13,341.60	\$17,344.08	\$0.00	\$0.00	\$17,344.08	\$0.00	\$0.00	\$0.00		\$17,344.08 W
	Tim Nelson (Phys)		80 hrs		0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00 W
	Per Hansson (Phys)		80 hrs		0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00 W
33 1.2.16	1.2.16 SVT Ready For Installation		0 hrs		0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00 <sub>W</sub>
34 1.3	1.3 SVT DAQ		4,292.8 hrs		0 0	\$608,111.36	\$341,554.16	\$430,545.39	\$264,406.20	\$351,672.88	\$782,218.28	\$69,503.31	\$10,796.95	\$80,300.26	\$161,765.00	\$540,153.01 <sub>W</sub>
35 <b>1.3.1</b>	1.3.1 FE Boards		504 hrs		0 0	\$105,891.00	\$60,037.20	\$84,052.08	\$45,853.80	\$64,195.32	\$148,247.40	\$33,090.50	\$3,676.72	\$36,767.22	\$0.00	\$111,480.18 <sub>W</sub>
	Tim Nelson (Phys)		72 hrs		-	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 W
20 4 2 4 4	Per Hansson (Phys)		72 hrs		0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00 W \$4,032.00 W
36 1.3.1.1	1.3.1.1 ADC ADC		0 hrs		0	\$5,760.00 \$5,760.00	\$0.00 \$0.00	\$0.00 \$0.00	\$5,760.00 \$5,760.00	\$8,064.00 \$8,064.00	\$8,064.00 \$8,064.00	\$3,628.80 \$3,628.80	\$403.20 \$403.20	\$4,032.00 \$4,032.00		\$4,032.00 W
37 1.3.1.2	1.3.1.2 FPGA		0 hrs		0 0	\$10,756.00	\$0.00	\$0.00	\$10,756.00	\$15,058.40	\$15,058.40	\$6,776.28	\$752.92	\$7,529.20		\$7,529.20 W
	FPGA		20		9 1	\$10,756.00	\$0.00	\$0.00	\$10,756.00	\$15,058.40	\$15,058.40	\$6,776.28	\$752.92	\$7,529.20	\$0.00	\$7,529.20 W
38 1.3.1.3	1.3.1.3 Preamps		0 hrs		0 0	\$2,016.00	\$0.00	\$0.00	\$2,016.00	\$2,822.40	\$2,822.40	\$1,270.08	\$141.12	\$1,411.20	\$0.00	\$1,411.20 W
39 1.3.1.4	Preamp 1.3.1.4 Connector		200 0 hrs		0 10	\$2,016.00 \$430.20	<i>\$0.00</i> \$0.00	\$0.00 \$0.00	\$2,016.00 \$430.20	\$2,822.40 \$602.28	\$2,822.40 \$602.28	\$1,270.08 \$271.03	\$141.12 \$30.11	<i>\$1,411.20</i> \$301.14		\$1,411.20 W \$301.14 W
39 1.3.1.4	Connectors		20		9 1	\$430.20	\$0.00	\$0.00	\$430.20	\$602.28	\$602.28	\$271.03	\$30.11	\$301.14	\$0.00	\$301.14 W
40 1.3.1.5	1.3.1.5 Power		0 hrs		0 0	\$1,075.60	\$0.00	\$0.00	\$1,075.60	\$1,505.84	\$1,505.84	\$677.63	\$75.29	\$752.92		\$752.92 W
	Power		20		9 1	\$1,075.60	\$0.00	\$0.00	\$1,075.60	\$1,505.84	\$1,505.84	\$677.63	\$75.29	\$752.92	\$0.00	\$752.92 W
41 1.3.1.6	1.3.1.6 Board		0 hrs		0 0	\$21,512.00	\$0.00	\$0.00	\$21,512.00	\$30,116.80	\$30,116.80			\$15,058.40		\$15,058.40 W
42 1.3.1.7	Board 1.3.1.7 Assembly		20 0 hrs		0 0	\$2 <i>1,512.00</i> \$4,304.00	<i>\$0.00</i> \$0.00	\$0.00 \$0.00	\$2 <i>1,512.00</i> \$4,304.00	\$30,116.80 \$6,025.60	\$30,116.80 \$6,025.60	\$13,552.56 \$2,711.52		\$15,058.40 \$3,012.80	<i>\$0.00</i> \$0.00	\$15,058.40 W \$3,012.80 W
42 1.5.1.7	Assembly		20		•	\$4,304.00	\$0.00	\$0.00	\$4,304.00	\$6,025.60	\$6,025.60	\$2,711.52	\$301.28	\$3,012.80		\$3,012.80 W
43 1.3.1.8	1.3.1.8 Schematic		120 hrs		0 0	\$20,012.40	\$20,012.40	\$28,017.36	\$0.00	\$0.00	\$28,017.36	\$0.00	\$0.00	\$0.00	\$0.00	\$28,017.36 W
11 1010	Ben Reese (EE)		120 hrs		-	\$20,012.40	\$20,012.40	\$28,017.36	\$0.00	\$0.00	\$28,017.36	\$0.00	\$0.00	\$0.00		\$28,017.36 W
44 1.3.1.9	1.3.1.9 Firmware Ryan Herbst (EE)		160 hrs 160 hrs		0 0	\$26,683.20 \$26,683.20	\$26,683.20 \$26,683.20	\$37,356.48 \$37,356.48	\$0.00 \$0.00	\$0.00 \$0.00	\$37,356.48 \$37,356.48	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$37,356.48 W \$37,356.48 W
45 1.3.1.12	1.3.1.10 Assembly		40 hrs		0 0	\$6,670.80	\$6,670.80	\$9,339.12	\$0.00	\$0.00	\$9,339.12	\$4,202.60	\$466.96	\$4,669.56		\$4,669.56 W
	Ben Reese (EE)		40 hrs		3 2	\$6,670.80	\$6,670.80	\$9,339.12	\$0.00	\$0.00	\$9,339.12	\$4,202.60	\$466.96	\$4,669.56	\$0.00	\$4,669.56 W
46 1.3.1.10	1.3.1.11 Testing		40 hrs	3	0 0	\$6,670.80	\$6,670.80	\$9,339.12	\$0.00	\$0.00	\$9,339.12	\$0.00	\$0.00	\$0.00	\$0.00	\$9,339.12 W
47 4 2 44	Ryan Herbst (EE)		40 hrs		0 0	\$6,670.80	\$6,670.80	\$9,339.12	\$0.00	\$0.00	\$9,339.12	\$0.00	\$0.00	\$0.00		\$9,339.12 W
47 1.3.11	1.3.2 FE Interface Board  Interface Board		48 hrs		0 0	<b>\$10,155.96</b> \$2,151.00	<b>\$8,004.96</b> \$0.00	<b>\$9,605.95</b> \$0.00	<b>\$0.00</b> \$2,151.00	<b>\$0.00</b> \$2,581.20	<b>\$9,605.95</b> \$2,581.20	<b>\$9,605.95</b> \$2,581.20	<b>\$0.00</b> \$0.00	<b>\$9,605.95</b> \$2,581.20	<b>\$0.00</b> \$0.00	<b>\$0.00</b> W \$0.00 W
48 1.3.11.8	1.3.2.1 Schematic		40 hrs	3	0 0	\$6,670.80	\$6,670.80	\$8,004.96	\$0.00	\$2,567.20	\$8,004.96	\$8,004.96	\$0.00	\$8,004.96		\$0.00 W
	Ryan Herbst (EE)		40 hrs		•	\$6,670.80	\$6,670.80	\$8,004.96	\$0.00	\$0.00	\$8,004.96	\$8,004.96	\$0.00	\$8,004.96	\$0.00	\$0.00 W
49 1.3.11.9	1.3.2.2 Assembly		8 hrs		0 0	\$1,334.16	\$1,334.16	\$1,600.99	\$0.00	\$0.00	\$1,600.99	\$1,600.99	\$0.00	\$1,600.99		\$0.00 W
50 1.3.11.10	Ryan Herbst (EE) 1.3.2.3 Firmware Design		8 <i>hr</i> s 0 hrs		3 <i>0</i>	\$1,334.16 \$0.00	<i>\$1,334.16</i> \$0.00	\$1,600.99 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$1,600.99 \$0.00	\$1,600.99 \$0.00	\$0.00 \$0.00	\$1,600.99 \$0.00		\$0.00 W \$0.00 W
51 1.3.12	1.3.3 FE Board Tested w/ hybrid		0 hrs		0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00W
52 1.3.2	1.3.4 Flange Board		264 hrs		0 0	\$38,169.84	\$20,012.40	\$25,349.04	\$18,157.44	\$25,420.42	\$50,769.46	\$6,355.10		\$9,532.66		\$41,236.80 <sub>W</sub>
	Tim Nelson (Phys)		72 hrs		0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00 W
50 155	Per Hansson (Phys)		72 hrs	(	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 W
53 1.3.2.1	1.3.4.1 Connector  Connector		0 hrs		0 0	\$172.80 <i>\$172.80</i>	\$0.00 \$0.00	\$0.00 \$0.00	\$172.80 <i>\$172.80</i>	\$241.92 \$2 <i>41.</i> 92	\$241.92 \$2 <i>41.</i> 92	\$60.48 \$60.48	\$30.24 \$30.24	\$90.72 \$90.72	\$0.00 \$0.00	\$151.20 W \$151.20 W
54 1.3.2.2	1.3.4.2 Fiber		0 hrs		0 0	\$7,228.00	\$0.00	\$0.00	\$7,228.00	\$10,119.20	\$10,119.20	\$2,529.80		\$3,794.70		\$6,324.50 W
	Fiber		16		0	\$7,228.00	\$0.00	\$0.00	\$7,228.00	\$10,119.20	\$10,119.20	\$2,529.80	\$1,264.90	\$3,794.70	\$0.00	\$6,324.50 W
55 1.3.2.3	1.3.4.3 Power		0 hrs		0 0	\$430.24	\$0.00	\$0.00	\$430.24	\$602.34	\$602.34	\$150.58	\$75.29	\$225.88	\$0.00	\$376.46 W
56 1.3.2.4	Power 1.3.4.4 Board		8 0 hrs	2	0 0	\$430.24 \$8,604.80	\$0.00 \$0.00	\$0.00 \$0.00	\$430.24 \$8,604.80	\$602.34 \$12,046.72	\$602.34 \$12,046.72	\$150.58 \$3,011.68	<i>\$75.29</i> \$1,505.84	\$225.88 \$4,517.52	\$0.00 \$0.00	\$376.46 W \$7,529.20 W
1.3.2.4	Board		8	2	•	\$8,604.80	\$0.00	\$0.00	\$8,604.80	\$12,046.72	\$12,046.72	\$3,011.68		\$4,517.52	\$0.00	\$7,529.20 W
57 1.3.2.5	1.3.4.5 Assembly		0 hrs		0 0	\$1,721.60	\$0.00	\$0.00	\$1,721.60	\$2,410.24	\$2,410.24	\$602.56	\$301.28	\$903.84	\$0.00	\$1,506.40 W
	Assembly		8	2	2 1	\$1,721.60	\$0.00	\$0.00	\$1,721.60	\$2,410.24	\$2,410.24	\$602.56	\$301.28	\$903.84	\$0.00	\$1,506.40 W

						WBS	/470 Wed 5/8/13									
ID WBS	Task Name	Туре	Work	# Spares	Prototype	Cost	Labor	Ltotal	Material	Mtotal	Total	Spares	Prototypes	Total Operations	Total Infrastructures	Total Capital De
58 1.3.2.6	1.3.4.6 Schematic		80 hrs		0	\$13,341.60	\$13,341.60	\$18,678.24	\$0.00	\$0.00	\$18,678.24	\$0.00	\$0.00	\$0.00		\$18,678.24 W
59 1.3.2.11	Ben Reese (EE) 1.3.4.7 Testing		80 hrs 40 hrs	0	0	\$13,341.60 \$6,670.80	\$13,341.60 \$6,670.80	\$18,678.24 \$6,670.80	<i>\$0.00</i> \$0.00	\$0.00 \$0.00	\$18,678.24 \$6,670.80	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00		\$18,678.24 W \$6,670.80 W
39 1.3.2.11	Ryan Herbst (EE)		40 hrs	0	-	\$6,670.80	\$6,670.80	\$6,670.80	\$0.00	\$0.00	\$6,670.80	\$0.00	\$0.00	\$0.00		\$6,670.80 W
60 1.3.15	1.3.5 Flange DAQ Tested		0 hrs	0	•	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00 W
61 <b>1.3.3</b>	1.3.6 DAQ		1,640 hrs	0	0	\$259,489.80	\$173,440.80	\$213,465.60	\$86,049.00	\$120,468.60	\$333,934.20	\$7,529.20	\$0.00	\$7,529.20	\$91,855.40	\$234,549.60 <sub>W</sub>
	Tim Nelson (Phys)		300 hrs	0	•	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00 W
62 1.3.3.1	Per Hansson (Phys) 1.3.6.1 SVT COB		300 hrs 0 hrs	0	0	<i>\$0.00</i> \$38,721.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$38,721.00	<i>\$0.00</i> \$54,209.40	<i>\$0.00</i> \$54,209.40	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00		\$0.00 W \$0.00 W
02 1.3.3.1	SVT COB	INFRA	3	0	0	\$38,721.00	\$0.00	\$0.00	\$38,721.00	\$54,209.40	\$54,209.40	\$0.00	\$0.00	\$0.00		\$0.00 W
63 1.3.3.2	1.3.6.2 RTM		0 hrs	0	0	\$16,134.00	\$0.00	\$0.00	\$16,134.00	\$22,587.60	\$22,587.60	\$0.00	\$0.00	\$0.00	\$22,587.60	\$0.00 W
64 4222	RTM 1.3.6.3 Custom Board	INFRA	3	0	0	\$16,134.00	\$0.00	\$0.00 \$0.00	\$16,134.00	\$22,587.60	\$22,587.60	\$0.00 \$7,529.20	\$0.00 \$0.00	\$0.00		\$0.00 W
64 1.3.3.3	Custom Board		0 hrs	1	0	\$16,134.00 \$16,134.00	\$0.00 \$0.00	\$0.00	\$16,134.00 \$16,134.00	\$22,587.60 \$22,587.60	\$22,587.60 \$22,587.60	\$7,529.20	\$0.00	\$7,529.20 \$7,529.20	\$0.00 \$0.00	\$15,058.40 W \$15,058.40 W
65 1.3.3.4	1.3.6.4 Crates		0 hrs	0	0	\$10,756.00	\$0.00	\$0.00	\$10,756.00	\$15,058.40	\$15,058.40	\$0.00	\$0.00	\$0.00	\$15,058.40	\$0.00 W
00 4 0 0 5	Crates	INFRA	2	0	0	\$10,756.00	\$0.00	\$0.00	\$10,756.00	\$15,058.40	\$15,058.40	\$0.00	\$0.00	\$0.00	\$15,058.40	\$0.00 W
66 1.3.3.5	1.3.6.5 Fiber Cables Fiber Cables		0 hrs 16	0	-	\$4,304.00 \$4,304.00	\$0.00 \$0.00	\$0.00 \$0.00	\$4,304.00 \$4,304.00	\$6,025.60 \$6,025.60	\$6,025.60 \$6,025.60	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00		\$6,025.60 W \$6,025.60 W
67 1.3.3.6	1.3.6.6 Schematic		160 hrs	0	-	\$26,683.20	\$26,683.20	\$37,356.48	\$0.00	\$0.00	\$37,356.48	\$0.00	\$0.00	\$0.00		\$37,356.48 W
	Ben Reese (EE)		160 hrs	0	-	\$26,683.20	\$26,683.20	\$37,356.48	\$0.00	\$0.00	\$37,356.48	\$0.00	\$0.00	\$0.00	\$0.00	\$37,356.48 W
68 1.3.3.7	1.3.6.7 Firmware		320 hrs 160 hrs	0		\$53,366.40	\$53,366.40	\$64,039.68	\$0.00	\$0.00	\$64,039.68	\$0.00	\$0.00 \$0.00	\$0.00		\$64,039.68 W \$37,356.48 W
	Ryan Herbst (EE) Ben Reese (EE)		160 hrs	0	-	\$26,683.20 \$26,683.20	\$26,683.20 \$26,683.20	\$37,356.48 \$26,683.20	\$0.00 \$0.00	\$0.00 \$0.00	\$37,356.48 \$26,683.20	\$0.00 \$0.00	\$0.00	\$0.00 \$0.00		\$26,683.20 W
69 1.3.3.8	1.3.6.8 Software		320 hrs	0	0	\$53,366.40	\$53,366.40	\$64,039.68	\$0.00	\$0.00	\$64,039.68	\$0.00	\$0.00	\$0.00	\$0.00	\$64,039.68 W
	Ryan Herbst (EE)		160 hrs	0	-	\$26,683.20	\$26,683.20	\$37,356.48	\$0.00	\$0.00	\$37,356.48	\$0.00	\$0.00	\$0.00		\$37,356.48 W
70 1.3.3.10	Ben Reese (EE) 1.3.6.9 Testing		160 hrs 240 hrs	0	-	\$26,683.20 \$40,024.80	\$26,683.20 \$40,024.80	\$26,683.20 \$48,029.76	\$0.00 \$0.00	\$0.00 \$0.00	\$26,683.20 \$48,029.76	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00		\$26,683.20 W \$48,029.76 W
70 1.5.5.10	Ryan Herbst (EE)		120 hrs	0	-	\$20,012.40	\$20,012.40	\$28,017.36	\$0.00	\$0.00	\$28,017.36	\$0.00	\$0.00	\$0.00		\$28,017.36 W
	Ben Reese (EE)		120 hrs	0	-	\$20,012.40	\$20,012.40	\$20,012.40	\$0.00	\$0.00	\$20,012.40	\$0.00	\$0.00	\$0.00	\$0.00	\$20,012.40 W
71 1.3.14	1.3.7 DAQ Full system Test		0 hrs	0		\$0.00 <b>\$61,410.96</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 <b>\$7,128.72</b>	\$0.00	\$0.00 <b>\$8,554.46</b>		\$0.00 W
72 1.3.4	1.3.8 Hybrid		1,516.8 hrs	0	U		\$40,024.80	\$48,029.76	\$21,386.16	\$25,663.39	\$73,693.15					\$65,138.69 <sub>W</sub>
	Tim Nelson (Phys) Per Hansson (Phys)		158.4 hrs 158.4 hrs	0	0	\$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	\$0.00 \$0.00	\$0.00 W \$0.00 W
73 1.3.4.1	1.3.8.1 Hybrid Misc Part		0 hrs	0	•	\$8,871.12	\$0.00	\$0.00	\$8,871.12	\$10,645.34	\$10,645.34	\$2,957.04	\$591.41	\$3,548.45		\$7,096.90 W
	Hybrid Misc Part		36	10		\$2,904.12	\$0.00	\$0.00	\$2,904.12	\$3,484.94	\$3,484.94	\$968.04	\$193.61	\$1,161.65	\$0.00	\$2,323.30 W
74 1.3.4.2	APV25 1.3.8.2 Hybrid Board		180 0 hrs	<i>50</i>		\$5,967.00 \$7,744.32	\$0.00 \$0.00	\$0.00 \$0.00	\$5,967.00 \$7,744.32	<i>\$7,160.40</i> \$9,293.18	<i>\$7,160.40</i> \$9,293.18	\$1,989.00 \$2,581.44	\$397.80 \$516.29	\$2,386.80 \$3,097.73	\$0.00 \$0.00	\$4,773.60 W \$6,195.46 W
74 1.3.4.2	Hybrid Board		36	10	-	\$7,744.32	\$0.00	\$0.00	\$7,744.32	\$9,293.18	\$9,293.18	\$2,581.44	\$516.29	\$3,097.73	\$0.00	\$6,195.46 W
75 1.3.4.3	1.3.8.3 Hybrid Assembly		0 hrs	0		\$4,770.72	\$0.00	\$0.00	\$4,770.72	\$5,724.86	\$5,724.86	\$1,590.24	\$318.05	\$1,908.29	\$0.00	\$3,816.58 W
76 1244	Hybrid Assembly		36	10		\$4,770.72	\$0.00	\$0.00	\$4,770.72	\$5,724.86	\$5,724.86	\$1,590.24	\$318.05	\$1,908.29		\$3,816.58 W
76 1.3.4.4	1.3.8.4 Schematic  Ryan Herbst (EE)		80 hrs 80 hrs	0		\$13,341.60 \$13,341.60	\$13,341.60 \$13,341.60	\$16,009.92 \$16,009.92	\$0.00 \$0.00	\$0.00 \$0.00	\$16,009.92 \$16,009.92	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00		\$16,009.92 W \$16,009.92 W
77 1.3.4.7	1.3.8.5 Assembly		120 hrs	0	0	\$20,012.40	\$20,012.40	\$24,014.88	\$0.00	\$0.00	\$24,014.88	\$0.00	\$0.00	\$0.00	\$0.00	\$24,014.88 W
	Ryan Herbst (EE)		60 hrs	0	0	\$10,006.20	\$10,006.20	\$12,007.44	\$0.00	\$0.00	\$12,007.44	\$0.00	\$0.00	\$0.00	\$0.00	\$12,007.44 W
78 1.3.4.5	Ben Reese (EE) 1.3.8.6 Board Testing		60 hrs 40 hrs	0	-	\$10,006.20 \$6,670.80	\$10,006.20 \$6,670.80	\$12,007.44 \$8,004.96	\$0.00 \$0.00	\$0.00 \$0.00	\$12,007.44 \$8,004.96	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00		\$12,007.44 W \$8,004.96 W
70 1.0.1.0	Ben Reese (EE)		40 hrs	0	•	\$6,670.80	\$6,670.80	\$8,004.96	\$0.00	\$0.00	\$8,004.96	\$0.00	\$0.00	\$0.00		\$8,004.96 W
79 1.3.4.8	1.3.8.7 Hybrid qualification		480 hrs	0	-	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00 W
	Per Hansson (Phys) Sho Uemura (Phys)		160 hrs 160 hrs	0	-	\$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		\$0.00 W \$0.00 W
	Omar Moreno		160 hrs	0		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00 W
80 1.3.4.9	1.3.8.8 Single Hybrid qualification		0 hrs	0	-	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00 W
81 1.3.4.10	1.3.8.9 Hybrids Testing Sho Uemura (Phys)		480 hrs 160 hrs	0	•	\$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		\$0.00 W \$0.00 W
	Per Hansson (Phys)		160 hrs	0	-	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00 W
	Omar Moreno		160 hrs	0		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 W
82 <b>1.3.6</b>	1.3.9 Flex Cable		280 hrs	0	0	\$42,386.16	\$33,354.00	\$41,358.96	\$9,032.16	\$12,645.02	\$54,003.98	\$0.00	\$0.00	\$0.00	\$0.00	\$54,003.98 <sub>W</sub>
	Tim Nelson (Phys)		40 hrs	0	-	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00 W
00 4 0 0 4	Per Hansson (Phys)		40 hrs	0	-	\$0.00	\$0.00	\$0.00	\$0.00	<i>\$0.00</i> \$1,807.01	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00 W
83 1.3.6.1	1.3.9.1 Misc Parts  SVT Cable Misc parts		0 hrs 24	0		\$1,290.72 \$1,290.72	\$0.00 \$0.00	\$0.00 \$0.00	\$1,290.72 \$1,290.72	\$1,807.01	\$1,807.01 \$1,807.01	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00		\$1,807.01 W \$1,807.01 W
84 1.3.6.2	1.3.9.2 Cable		0 hrs	0	-	\$5,160.00	\$0.00	\$0.00	\$5,160.00	\$7,224.00	\$7,224.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7,224.00 W
05 15 5 5	SVT Cable		24	0		\$5,160.00	\$0.00	\$0.00	\$5,160.00	\$7,224.00	\$7,224.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7,224.00 W
85 1.3.6.3	1.3.9.3 Assembly ST Cable Assembly		0 hrs 24	0		\$2,581.44 \$2,581.44	\$0.00 \$0.00	\$0.00 \$0.00	\$2,581.44 \$2,581.44	\$3,614.02 \$3,614.02	\$3,614.02 \$3,614.02	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00		\$3,614.02 W \$3,614.02 W
86 1.3.6.4	1.3.9.4 Schematic		160 hrs	0		\$26,683.20	\$26,683.20	\$32,019.84	\$2,581.44	\$3,674.02	\$3,674.02	\$0.00		\$0.00		\$3,614.02 W
	Ryan Herbst (EE)		80 hrs	0	0	\$13,341.60	\$13,341.60	\$18,678.24	\$0.00	\$0.00	\$18,678.24	\$0.00	\$0.00	\$0.00	\$0.00	\$18,678.24 W
07 4005	Ben Reese (EE)		80 hrs	0	-	\$13,341.60	\$13,341.60	\$13,341.60	\$0.00	\$0.00	\$13,341.60	\$0.00	\$0.00	\$0.00		\$13,341.60 W
87 1.3.6.5	1.3.9.5 Testing  Ryan Herbst (EE)		40 hrs 40 hrs	0		\$6,670.80 \$6,670.80	\$6,670.80 \$6,670.80	\$9,339.12 \$9,339.12	\$0.00 \$0.00	\$0.00 \$0.00	\$9,339.12 \$9,339.12	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00		\$9,339.12 W \$9,339.12 W
H	ryan norbot (LL)		70 1113	U	U	ψο,οι ο.οο	ψυ,υτυ.υυ	ψυ,000.12	ψυ.υυ	Ψ0.00	φυ,000.12	ψυ.υυ	ψυ.υυ	ψ0.00	ψυ.υυ	ψυ,000.12 ۷۷

						W	3S V470 Wed 5/8/13									
ID	WBS	Task Name	Туре	Work	# Proto	otype Cost	Labor	Ltotal	Material	Mtotal	Total	Spares	Prototypes	Total Operations	Total Infrastructures	Total Capital Equipments
88	1.3.13	1.3.10 Flex Cable w/ hybrid&FE board		0 hrs		0 \$0	00 \$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 V
89	1.3.16	1.3.11 Power Supplies & Cables		0 hrs	-	0 \$58,258			\$58,258.00	\$69,909.60	\$69,909.60	\$0.00	\$0.00	\$0.00	\$69,909.60	\$0.00 V
		SVT HV Unit	INFRA	4	0	0 \$30,460.			\$30,460.00	\$36,552.00	\$36,552.00	\$0.00	\$0.00	\$0.00	\$36,552.00	\$0.00 V
		SVT LV Unit Wiener Crate	INFRA INFRA	4	0	0 \$14,216. 0 \$13,582.			\$14,216.00 \$13,582.00	\$17,059.20 \$16,298.40	\$17,059.20 \$16,298.40	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$17,059.20 \$16,298.40	\$0.00 V \$0.00 V
90	1.3.18	1.3.12 HV/LV Cables	IIVI IVA	40 hrs	-	0 \$32,349			\$25,669.64	\$33,370.53	\$42,054.53	\$5,793.84		\$8,310.77	\$0.00	\$33,743.76 V
		LV PS connector		9	6	0 \$90.	90 \$0.00	\$0.00	\$90.90	\$118.17	\$118.17	\$78.78	\$0.00	\$78.78	\$0.00	\$39.39 V
		LV PS connector FE board		9	U	0 \$484.			\$484.02	\$629.23	\$629.23	\$0.00	\$0.00	\$0.00	\$0.00	\$629.23 V
		LV PS connector flange side LV PS connector flange vacuum side		9	-	0 \$90. 1 \$430.	,		\$90.72 \$430.40	\$117.94 \$559.52	\$117.94 \$559.52	\$0.00 \$139.88	\$0.00 \$69.94	\$0.00 \$209.82	\$0.00 \$0.00	\$117.94 V \$349.70 V
		LV PS wire outside vacuu		2,400		0 \$384.		,	\$384.00	\$499.20	\$499.20	\$83.20	\$0.00	\$83.20	\$0.00	\$416.00 V
		HV connector flange vacuum side		64		8 \$13,767.	\$0.00	\$0.00	\$13,767.68	\$17,897.98	\$17,897.98	\$4,474.50		\$6,711.74	\$0.00	\$11,186.24 V
		HV connector FE board		18	_	0 \$954.			\$954.00	\$1,240.20	\$1,240.20	\$0.00	\$0.00	\$0.00	\$0.00	\$1,240.20 V
		HV connector flange HV PS cable incl. connector		8	_	1 \$1,290. 0 \$2,300.			\$1,290.72 \$2,300.00	\$1,677.94 \$2,990.00	\$1,677.94 \$2,990.00	\$419.48 \$598.00	\$209.74 \$0.00	\$629.23 \$598.00	\$0.00 \$0.00	\$1,048.71 V \$2,392.00 V
		HV wire vacuum		16		0 \$2,300. 0 \$499.			\$2,300.00 \$499.20	\$2,990.00 \$648.96	\$2,990.00 \$648.96	\$0.00	\$0.00	\$0.00	\$0.00	\$2,392.00 V \$648.96 V
		Flange Board		10	_	0 \$5,378.		\$0.00	\$5,378.00	\$6,991.40	\$6,991.40	\$0.00	\$0.00	\$0.00	\$0.00	\$6,991.40 V
		SLAC Cable shop		40 hrs	_	0 \$6,680.		\$8,684.00	\$0.00	\$0.00	\$8,684.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8,684.00 V
91	1.4	1.4 ECAL		2,924 hrs	0	0 \$36,808	48 \$27,868.48	\$36,229.02	\$8,940.00	\$11,622.00	\$47,851.02	\$0.00	\$0.00	\$0.00	\$0.00	\$47,851.02 <sub>V</sub>
92	1.4.1	1.4.1 Fix 2-shorted HV groups on top-left		44 hrs		0 \$2,988		\$3,885.44	\$0.00	\$0.00	\$3,885.44	\$0.00	\$0.00	\$0.00	\$0.00	\$3,885.44 <sub>V</sub>
		ET Hall-B JLAB		40 hrs	-	0 \$2,988.		\$3,885.44	\$0.00	\$0.00	\$3,885.44	\$0.00	\$0.00	\$0.00	\$0.00	\$3,885.44 V
93	1.4.2	Phy 2 ECAL JLAB		<i>4 hr</i> s 24 hrs	-	0 \$0. 0 \$5,960			\$0.00 \$5,960.00	<i>\$0.00</i> \$7,748.00	<i>\$0.00</i> \$7,748.00	<i>\$0.00</i> \$0.00	<i>\$0.00</i> \$0.00	<i>\$0.00</i> \$0.00	<i>\$0.00</i> \$0.00	\$0.00 V \$7,748.00 v
95	1.4.2	1.4.2 Order new motherboard		241113												ĮV
		New Bottom-Left Motherboard Phy 2 ECAL JLAB		24 hrs	0	0 \$5,960. 0 \$0.			\$5,960.00 \$0.00	\$7,748.00 \$0.00	\$7,748.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$7,748.00 V \$0.00 V
94	1.4.3	1.4.3 New motherboards and amplifiers		256 hrs	_	0 \$24,879			\$0.00		\$32,343.58	\$0.00		\$0.00		\$32,343.58,
		EE Hall-B JLAB		224 hrs		0 \$24,879.		\$32,343.58	\$0.00	\$0.00	\$32,343.58	\$0.00	\$0.00	\$0.00	\$0.00	V
		New Amplifiers Boards		224 1113		0 \$24,879.			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$32,343.58 V \$0.00 V
		Phy 2 ECAL JLAB		32 hrs	-	0 \$0.			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 V
95	1.4.4	1.4.4 New pre-amplifier boards		24 hrs	0	0 \$0	00 \$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 <sub>V</sub>
		Ecal Pre-amps		500	0	0 \$0.	00 \$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 V
		Phy 2 ECAL JLAB		24 hrs		0 \$0.	,		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 V
96	1.4.5	1.4.5 Assembling ECAL		160 hrs	0	0 \$0	90.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 <sub>V</sub>
		Phy 2 ECAL JLAB		160 hrs		0 \$0.			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 V
97	1.4.6	1.4.6 Test and Calibrate Ecal		2,080 hrs	0	0 \$0	90.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 <sub>V</sub>
		Phy 2 ECAL JLAB		160 hrs		0 \$0.			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 V
	-	Phy 1 ECAI JLAB		640 hrs		0 \$0. 0 \$0.			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 V \$0.00 V
		Ph1 2 Orsay Phy 1 Orsay		640 hrs 640 hrs		0 \$0. 0 \$0.			\$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 V \$0.00 V
98	1.4.7	1.4.7 New mounting system		336 hrs	-	0 \$2,980			\$2,980.00	· · · · · · · · · · · · · · · · · · ·	\$3,874.00	\$0.00		\$0.00		\$3,874.00
		ECAL Mounting System		1	0	0 \$2,980.		\$0.00	\$2,980.00	\$3,874.00	\$3,874.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3,874.00 V
		Phy 2 ECAL JLAB		16 hrs	0	<i>θ</i> \$0.	00 \$0.00		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 V
		MÉ Orsay		160 hrs		0 \$0.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 V
00	1.4.0	MT Orsay		160 hrs		0 \$0.			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 V
	1.4.8	1.4.8 ECAL Ready for the installation		0 hrs		0 \$0			\$0.00		\$0.00	\$0.00		\$0.00		\$0.00 <sub>V</sub>
100		1.5 TDAQ		1,200 hrs		0 \$125,512			\$10,000.00		\$161,055.20	\$0.00		\$0.00	\$10,000.00	\$151,055.20 <sub>V</sub>
101	1.5.1	1.5.1 EPICS information into data stream		160 hrs	0	0 \$0	90.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 <sub>V</sub>
		EE DAQ JLAB		160 hrs		0 \$0.			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 V
102	1.5.2	1.5.2 Software TDAQ		0 hrs	0	0 \$0	00 \$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 <sub>V</sub>
103	1.5.3	1.5.3 Hardware TDAQ		0 hrs	0	0 \$0	00 \$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 V
104	1.5.4	1.5.4 Update firmware on FADC250		160 hrs	0	0 \$17,771	20 \$17,771.20	\$21,325.44	\$0.00	\$0.00	\$21,325.44	\$0.00	\$0.00	\$0.00	\$0.00	\$21,325.44 <sub>V</sub>
		Ben Redo (EE)		160 hrs		0 \$17,771.			\$0.00	\$0.00	\$21,325.44	\$0.00	\$0.00	\$0.00	\$0.00	\$21,325.44 V
105	1.5.5	1.5.5 New firmware for cluster finding		320 hrs		0 \$35,542			\$0.00		\$49,759.36	\$0.00	\$0.00	\$0.00	\$0.00	\$49,759.36 <sub>V</sub>
		Scott Kenata (EE)		320 hrs		0 \$35,542.		\$49,759.36	\$0.00	\$0.00	\$49,759.36	\$0.00	\$0.00	\$0.00	\$0.00	\$49,759.36 V
106	1.5.6	1.5.6 New firmware for SSP		240 hrs		0 \$26,656			\$0.00	·	\$37,319.52	\$0.00		\$0.00		\$37,319.52 <sub>V</sub>
		Ben Redo (EE)		160 hrs		0 \$17,771.		\$24,879.68	\$0.00	\$0.00	\$24,879.68	\$0.00	\$0.00	\$0.00	\$0.00	\$24,879.68 V
107	157	Scott Kenata (EE)		80 hrs 320 hrs		0 \$8,885. 0 \$35,542			<i>\$0.00</i> \$0.00	\$0.00 \$0.00	\$12,439.84 \$42,650.88	<i>\$0.00</i> \$0.00	<i>\$0.00</i> \$0.00	<i>\$0.00</i> \$0.00	\$0.00 \$0.00	\$12,439.84 V \$42,650.88
107	1.5.7	1.5.7 Trigger monitoring tools														Į V
100	1 5 0	Ben Redo (EE) 1.5.8 TDAQ ready		320 hrs		0 \$35,542. 0 \$0			\$0.00 \$0.00		\$42,650.88	\$0.00	\$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$42,650.88 V
108 109		1.5.9 Data Storage		0 hrs 0 hrs		0 \$0 0 \$10,000			\$10,000.00		\$0.00 \$10,000.00	\$0.00 \$0.00		\$0.00	\$0.00 \$10,000.00	\$0.00 V \$0.00 V
100	1.5.5	Data Storage Tapes 5TB	INFRA	40		0 \$10,000.			\$10,000.00	\$10,000.00	\$10,000.00	\$0.00	\$0.00	\$0.00	\$10,000.00	\$0.00 V
		· · · · · · · · · · · · · · · · · · ·				, , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, , , , , ,	, , , , ,	. ,	. ,	. ,	,	,		. ,	,

					WBS	V470 Wed 5/8/13									
ID WBS	Task Name	Туре	Work	# Prototyp		Labor	Ltotal	Material	Mtotal	Total	Spares	Prototypes	Total Operations	Total Infrastructures	Total Capital Equipments
110 <b>1.6</b>	1.6 Slow Control		2,008 hrs	Spares 0 (	0 \$106,817.60	\$75,527.60	\$94,409.50	\$31,290.00	\$39,112.50	\$133,522.00	\$0.00	0 \$0.00			
111 1.6.1	1.6.1 Chiller control programming		92 hrs		0 \$8,885.60	\$8,885.60	\$11,107.00	·	\$0.00	\$11,107.00					l l
	EE Accelerator JLAB		80 hrs		0 \$8,885.60	\$8,885.60	\$11,107.00	\$0.00	\$0.00	\$11,107.00	\$0.00	·	· ·		\$11,107.00
	Hovanes Hegiyan (Phys)		12 hrs	0 0	0 \$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
112 1.6.2	1.6.2 I/O modules for control		80 hrs	s 0 (	0 \$22,350.00		\$0.00	, ,	\$27,937.50	\$27,937.50			· ·		\$0.00
	I/O Modules for controls	INFRA	1 20 hrs	0 0	0 \$22,350.00	\$0.00	\$0.00		\$27,937.50	\$27,937.50	\$0.00				\$0.00
113 1.6.3	Hovanes Hegiyan (Phys)		80 hrs 300 hrs		0 \$0.00 0 \$13,328.40	<i>\$0.00</i> \$13,328.40	\$0.00 \$16,660.50		\$0.00 \$0.00	\$0.00 \$16,660.50	\$0.00 \$0.00			,	
110	1.6.3 Sensor readout programming  Nerses Gevorgyan (EE)		120 hrs		0 \$13,328.40	\$13,328.40	\$16,660.50		\$0.00	\$16,660.50	\$0.00				\$16,660.50 N
	Hovanes Hegiyan (Phys)		180 hrs	0 0	0 \$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
114 1.6.4	1.6.4 SVT voltage control		138 hrs	0 (	0 \$13,328.40	\$13,328.40	\$16,660.50	\$0.00	\$0.00	\$16,660.50	\$0.00	0 \$0.00	\$0.00	\$0.00	\$16,660.50
	Hovanes Hegiyan (Phys)		18 hrs		0 \$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00				
115 1.6.5	Nerses Gevorgyan (EE)		120 hrs 118 hrs		0 \$13,328.40 0 \$0.00	\$13,328.40 \$0.00	\$16,660.50 \$0.00		\$0.00 \$0.00	\$16,660.50 \$0.00	\$0.00 \$0.00				\$16,660.50 \ \$0.00
110 1.0.0	1.6.5 ECAL voltage control  Hovanes Hegiyan (Phys)		78 hrs		0 \$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00				l l
	Nerses Gevorgyan (Phys)		78 nrs 40 hrs		0 \$0.00 0 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00		\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00				
116 1.6.6	1.6.6 SVT motor controls		92 hrs	-	0 \$8,885.60	\$8,885.60	\$11,107.00		\$0.00	\$11,107.00					
	EE Accelerator JLAB		80 hrs		0 \$8,885.60	\$8,885.60	\$11,107.00	\$0.00	\$0.00	\$11,107.00	\$0.00				\$11,107.00
117 167	Hovanes Hegiyan (Phys)		12 hrs		0 \$0.00	\$0.00	\$0.00		\$0.00	\$0.00 \$5.553.50	\$0.00				
117 1.6.7	1.6.7 Target motor control		46 hrs		0 \$4,442.80	\$4,442.80	\$5,553.50 \$5,553.50		\$0.00	\$5,553.50					
	EE Accelerator JLAB Hovanes Hegiyan (Phys)		40 hrs 6 hrs		0 \$4,442.80 0 \$0.00	\$4,442.80 \$0.00	\$5,553.50 \$0.00		\$0.00 \$0.00	\$5,553.50 \$0.00	\$0.00 \$0.00				
118 1.6.8	1.6.8 Software interlock		142 hrs		0 \$4,442.80	\$4,442.80	\$5,553.50		\$0.00						
	EE Accelerator JLAB		40 hrs		0 \$4,442.80	\$4,442.80	\$5,553.50		\$0.00	\$5,553.50	\$0.00				\$5,553.50
	Hovanes Hegiyan (Phys)		102 hrs	0 0	0 \$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
119 1.6.9	1.6.9 Hardware interlocks		368 hrs	s 0 (	0 \$8,940.00		\$0.00		\$11,175.00	\$11,175.00			· ·		N.
	Hardware Interlock Equipments		1	0 (	0 \$8,940.00	\$0.00	\$0.00		\$11,175.00	\$11,175.00	\$0.00				
	EE Hall-B JLAB Hovanes Hegiyan (Phys)		200 hrs 168 hrs		0 \$0.00 0 \$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 \
120 1.6.10	1.6.10 Beamline control screens		160 hrs		0 \$4,442.80	\$4,442.80	\$5,553.50		\$0.00						
	Nerses Gevorgyan (EE)		40 hrs	0	0 \$4,442.80	\$4,442.80	\$5,553.50	\$0.00	\$0.00	\$5,553.50	\$0.00	\$0.00	\$0.00	\$0.00	\$5,553.50
	Hovanes Hegiyan (Phys)		120 hrs	0 0	0 \$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
121 1.6.11	1.6.11 EPICS Scalers programing		284 hrs		0 \$8,885.60	\$8,885.60	\$11,107.00	·	\$0.00	\$11,107.00					l l
	Nerses Gevorgyan (EE)		80 hrs 204 hrs		0 \$8,885.60	\$8,885.60 \$0.00	\$11,107.00 \$0.00		\$0.00 \$0.00	\$11,107.00 \$0.00	\$0.00				\$11,107.00
122 1.6.12	Hovanes Hegiyan (Phys) 1.6.12 Alarms configuration		204 hrs 46 hrs		0 \$0.00 0 \$4,442.80		\$0.00 \$5,553.50		<i>\$0.00</i> \$0.00		<i>\$0.00</i> \$0.00				
	Nerses Gevorgyan (EE)		40 hrs		0 \$4,442.80	\$4,442.80	\$5,553.50	\$0.00	\$0.00	\$5,553.50	\$0.00				\$5,553.50
	Hovanes Hegiyan (Phys)		6 hrs	0 0	0 \$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
123 1.6.13	1.6.13 Archiving of controls		142 hrs		0 \$4,442.80		\$5,553.50		\$0.00						\$5,553.50
	EE Accelerator JLAB		40 hrs		0 \$4,442.80	\$4,442.80	\$5,553.50		\$0.00	\$5,553.50	\$0.00				
124 <b>1.7</b>	Hovanes Hegiyan (Phys)		102 hrs <b>728 hrs</b>		0 \$0.00 <b>0</b> \$45,244.80	\$0.00 <b>\$45,244.80</b>	\$0.00 <b>\$57,936.96</b>		\$0.00 <b>\$0.00</b>	\$0.00 <b>\$57,936.96</b>	\$0.00 <b>\$0.00</b>				
	1.7 Installation & Commissioning												·		
125 1.7.6	1.7.1 SVT installation  Marco Oriunno (ME)		48 hrs 16 hrs		0 \$2,937.60 0 \$2,937.60	\$2,937.60 \$2,937.60	\$2,937.60 \$2,937.60		\$0.00 \$0.00	\$2,937.60 \$2,937.60	\$0.00 \$0.00				
	Tim Nelson (Phys)		16 hrs	0 0	0 \$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
126 1.7.1	Per Hansson (Phys)	OP	16 hrs 120 hrs		0 \$0.00 0 \$6,670.80	<i>\$0.00</i> \$6,670.80	\$0.00 \$8.672.04		\$0.00 \$0.00	\$0.00 \$8,672.04	\$0.00 \$0.00				
120   1.7.1	1.7.2 SVT Commissioning						\$8,672.04								
	Ryan Herbst (EE) Tim Nelson (Phys)	OP OP	40 hrs 40 hrs		0 \$6,670.80 0 \$0.00	\$6,670.80 \$0.00	\$8,672.04 \$0.00		\$0.00 \$0.00	\$8,672.04 \$0.00	\$0.00 \$0.00				
	Per Hansson (Phys)	OP	40 hrs	0 0	0 \$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
127 1.7.2	1.7.3 ECAL Commissioning	OP	120 hrs	0 (	0 \$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0 \$0.00	\$0.00	\$0.00	\$0.00
	ET Orsay	OP	40 hrs		0 \$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00				\$0.00
	MT Orsáy Phy 2 ECAL JLAB	OP OP	40 hrs 40 hrs		0 \$0.00 0 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00		\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00				
128 1.7.3	1.7.4 TDAQ Commissioning	OP	320 hrs		0 \$28,204.80	\$28,204.80	\$36,666.24		\$0.00						
	EE Hall-B JLAB	OP	80 hrs		0 \$8,885.60	\$8,885.60	\$11,551.28		\$0.00	\$11,551.28	\$0.00				\$0.00
	ET Hall-B JLAB	OP	80 hrs	0 0	0 \$5,977.60	\$5,977.60	\$7,770.88	\$0.00	\$0.00	\$7,770.88	\$0.00	\$0.00	\$7,770.88	\$0.00	\$0.00
	Ryan Herbst (EE)	OP OP	80 hrs		0 \$13,341.60	\$13,341.60	\$17,344.08		\$0.00 \$0.00	\$17,344.08 \$0.00	\$0.00	\$0.00			\$0.00
129 1.7.4	Phy 1 JD 1 7 5 Slow Control Commissioning	OP OP	80 hrs 120 hrs		0 \$0.00 0 \$7,431.60	<i>\$0.00</i> \$7,431.60	<i>\$0.00</i> \$9,661.08		\$0.00 \$0.00	<i>\$0.00</i> \$9,661.08	\$0.00 \$0.00				
120	1.7.5 Slow Control Commissioning  EE Hall-B JLAB	OP OP	40 hrs		0 \$4,442.80	\$4,442.80	\$5,775.64		\$0.00	\$5,775.64	\$0.00				
. I	EE HAII-B JLAB ET HAII-B JLAB	OP OP	40 nrs 40 hrs		0 \$4,442.80 0 \$2,988.80	\$4,442.80 \$2,988.80	\$5,775.64 \$3,885.44		\$0.00	\$5,775.64 \$3,885.44	\$0.00				

					WBS V	/470 Wed 5/8/13									
ID	WBS Task Name	Туре	Work	# Prototyp	Cost	Labor	Ltotal	Material	Mtotal	Total	Spares	Prototypes	Total Operations	Total Infrastructures	Total Capital D
	Hovanes Hegiyan (Phys)	OP	40 hrs	0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 W
130	1.7.6 HPS ready for the beam		0 hrs	0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 <sub>W</sub>
131	1.8 Electron Running		3,520 hrs	0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 <sub>W</sub>
132	1.8.1 Beamline Commissioning (2014)		320 hrs	0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Stepan Stepanyan (Phys)		40 hrs	0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 W
	Hovanes Hegiyan (Phys)		40 hrs	0 0	φ0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 W
	Phy 1 JD Phy 1 M		40 hrs 40 hrs	0 0	φ0.00	\$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	\$0.00 W \$0.00 W
	Ken Moffeit (Phys)		40 hrs	0 0		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 W
	Phy 2 ECAL JLÁB		40 hrs	0 0		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 W
	Tim Nelson (Phys)		40 hrs	0 0	φ0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 W
133	Per Hansson (Phys) 3 1.8.2 1.9.2 Detector Commissioning Pun (2014)		<i>40 hr</i> s 320 hrs	0 0	φ0.00	<i>\$0.00</i> \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	<i>\$0.00</i> \$0.00	\$0.00 \$0.00	<i>\$0.00</i> \$0.00	<i>\$0.00</i> \$0.00	\$0.00 \$0.00	\$0.00 W \$0.00
100	1.0.2 Detector Commissioning Num (2014)			0 0	·		·								l v v
	Stepan Stepanyan (Phys) Hovanes Hegiyan (Phys)		40 hrs 40 hrs	0 0	\$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	\$0.00 \$0.00	\$0.00 W \$0.00 W
	Phy 1 JD		40 hrs	0 0		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 W
	Phy 1 M		40 hrs	0 0	φ0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 W
	Ken Moffeit (Phys) Phy 2 ECAL JLAB		40 hrs 40 hrs	0 0	φ0.00	\$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	\$0.00 W \$0.00 W
	Tim Nelson (Phys)		40 hrs	0 0		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 W
	Per Hansson (Phys)		40 hrs	0 0	φ0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 W
	1.8.3 1.8.3 Data Run 2.2GeV (2014)		0 hrs	0 0	Ψ0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00 W
	1.8.4 Data Run 1.1 GeV (2014) 1.8.5 Beamline recommissioning (2015)		0 hrs 320 hrs	0 0	Ψ0.00	\$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 W \$0.00
	Stepan Stepanyan (Phys)		40 hrs	0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 W
	Hovanes Hegiyan (Phys)		40 hrs	0 0		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 W
	Phy 1 JD		40 hrs	0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 V
	Phy 1 M		40 hrs	0 0	φυ.σσ	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 W
	Ken Moffeit (Phys) Phy 2 ECAL JLAB		40 hrs 40 hrs	0 0	φυ.σσ	\$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	\$0.00 W \$0.00 W
	Tim Nelson (Phys)		40 hrs	0 0		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 W
	Per Hansson (Phys)		40 hrs	0 0	φ0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 W
137	1.8.6 Data Run (2015)		2,560 hrs	0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00 <sub>W</sub>
	Stepan Stepanyan (Phys)		320 hrs	0 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 W
	Hovanes Hegiyan (Phys) Phy 1 JD		320 hrs 320 hrs	0 0	φ0.00	\$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	\$0.00 W \$0.00 W
	Phy 1 M		320 hrs	0 0		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 W
	Ken Moffeit (Phys)		320 hrs	0 0	φ0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 W
	Phy 2 ECAL JLAB Tim Nelson (Phys)		320 hrs 320 hrs	0 0	φυ.συ	\$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	\$0.00 W \$0.00 W
	Per Hansson (Phys)		320 hrs	0 0		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 W
138	1.9 SLAC Travel Meetings		2,520 hrs	0 0	\$103,963.50		\$124,756.20	\$0.00	\$0.00	\$124,756.20	\$0.00		\$124,756.20	\$0.00	\$0.00
139	1.9.1 1.9.1 Consultation 1 at JLAB		160 hrs	0 0	\$6,273.00	\$6,273.00	\$7,527.60	\$0.00	\$0.00	\$7,527.60	\$0.00	\$0.00	\$7,527.60	\$0.00	\$0.00 W
	Rental Car 1	OP	40 hrs	0 0	\$535.50	\$535.50	\$642.60	\$0.00	\$0.00	\$642.60	\$0.00	\$0.00	\$642.60	\$0.00	\$0.00 W
	Marco Oriunno (ME) Ken Moffeit (Phys)	OP OP	40 hrs 40 hrs	0 0	φ.,σ.=.σσ	\$1,912.50 \$1,912.50	\$2,295.00 \$2,295.00	\$0.00 \$0.00	\$0.00 \$0.00	\$2,295.00 \$2,295.00	\$0.00 \$0.00	\$0.00 \$0.00	\$2,295.00 \$2,295.00	\$0.00 \$0.00	\$0.00 W \$0.00 W
	Tim Nelson (Phys)	OP OP	40 hrs	0 0		\$1,912.50	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00	\$0.00 W
140	1.9.2 Collaboration Meeting November 2013	OP	440 hrs	O C	\$18,283.50	\$18,283.50	\$21,940.20	\$0.00	\$0.00	\$21,940.20	\$0.00	\$0.00		\$0.00	\$0.00 W
	Rental Car 2 Rental Car 1	OP OP	40 hrs	0 0	\$535.50	\$535.50	\$642.60	\$0.00	\$0.00	\$642.60 \$642.60	\$0.00	\$0.00	\$642.60	\$0.00	\$0.00 W \$0.00 W
	Sho Uemura (Phys)	OP OP	40 hrs 40 hrs	0 0	\$535.50 \$1,912.50	\$535.50 \$1,912.50	\$642.60 \$2,295.00	\$0.00 \$0.00	\$0.00 \$0.00	\$2,295.00	\$0.00 \$0.00	\$0.00 \$0.00	\$642.60 \$2,295.00	\$0.00 \$0.00	\$0.00 W
	Ken Moffeit (Phys)	OP	40 hrs	0 0	\$1,912.50	\$1,912.50	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00	\$0.00 W
	Matt Graham (Phys)	OP	40 hrs	0 0	\$1,912.50	\$1,912.50	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00	\$0.00 W
	Tim Nelson (Phys)  Per Hansson (Phys)	OP OP	40 hrs 40 hrs	0 0	\$1,912.50 \$1,912.50	\$1,912.50 \$1,912.50	\$2,295.00 \$2,295.00	\$0.00 \$0.00	\$0.00 \$0.00	\$2,295.00 \$2,295.00	\$0.00 \$0.00	\$0.00 \$0.00	\$2,295.00 \$2,295.00	\$0.00 \$0.00	\$0.00 W \$0.00 W
	Takashi Maruyama (Phys)	OP OP	40 hrs	0 0		\$1,912.50	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00	\$0.00 W
	Ryan Herbst (EE)	OP	40 hrs	0 0	\$1,912.50	\$1,912.50	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00	\$0.00 W
	Marco Oriunno (ME) John Jaros (Phys)	OP OP	40 hrs 40 hrs	0 0	\$1,912.50 \$1,912.50	\$1,912.50 \$1,912.50	\$2,295.00 \$2,295.00	\$0.00 \$0.00	\$0.00 \$0.00	\$2,295.00 \$2,295.00	\$0.00 \$0.00	\$0.00 \$0.00	\$2,295.00 \$2,295.00	\$0.00 \$0.00	\$0.00 W \$0.00 W
141	1.9.3 1.9.3 Consultation 2 at JLAB	UP	160 hrs	0 0		\$6,273.00	\$2,295.00	\$0.00	\$0.00	\$7,527.60	\$0.00		\$2,295.00	\$0.00	\$0.00 W
	Marco Oriunno (ME)	OP	40 hrs	0 0	\$1,912.50	\$1,912.50	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00	\$0.00 W
	Ken Moffeit (Phys)	OP OR	40 hrs	0 0	Ψ1,012.00	\$1,912.50	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00	\$0.00 W
	Tim Nelson (Phys)  Rental Car 1	OP OP	40 hrs 40 hrs	0 0	φ.,σ.=.σσ	\$1,912.50 \$535.50	\$2,295.00 \$642.60	\$0.00 \$0.00	\$0.00 \$0.00	\$2,295.00 \$642.60	\$0.00 \$0.00	\$0.00 \$0.00	\$2,295.00 \$642.60	\$0.00 \$0.00	\$0.00 W \$0.00 W
142	1.9.4 Collaboration Meeting November 2014		440 hrs	0 0	\$18,283.50	\$18,283.50	\$21,940.20	\$0.00	\$0.00	\$21,940.20	\$0.00	\$0.00	\$21,940.20	\$0.00	\$0.00 W
	Rental Car 1	OP	40 hrs	0 0	\$535.50	\$535.50	\$642.60	\$0.00	\$0.00	\$642.60	\$0.00	\$0.00	\$642.60	\$0.00	\$0.00 W
	Marco Oriunno (ME) Ryan Herbst (EE)	OP OP	40 hrs 40 hrs	0 0	\$1,912.50 \$1,912.50	\$1,912.50 \$1,912.50	\$2,295.00 \$2,295.00	\$0.00 \$0.00	\$0.00 \$0.00	\$2,295.00 \$2,295.00	\$0.00 \$0.00	\$0.00 \$0.00	\$2,295.00 \$2,295.00	\$0.00 \$0.00	\$0.00 W \$0.00 W
	Ryali HeiDSL (EE)	UP	40 H/S	U U	φ1,912.50	\$1,912.50	φ2,293.00	φυ.υυ	φυ.υυ	φ <b>∠</b> ,∠95.00	φυ.υυ	φυ.υυ	φ∠,∠93.00	<i>Ф</i> 0.00	φυ.υυ  ۷\

						WBS	V470 Wed 5/8/13									
ID WBS	Task Name	Туре	Work	# Pro	ototyp	Cost	Labor	Ltotal	Material	Mtotal	Total	Spares	Prototypes	Total Operations	Total Infrastructures	Total Capital De
	Ken Moffeit (Phys)	OP	40 hrs	0	0	\$1,912.50	\$1,912.50	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00	\$0.00 W
	Matt Graham (Phys)	OP	40 hrs	0	0	\$1,912.50	\$1,912.50	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00		\$2,295.00		\$0.00 W
	Tim Nelson (Phys)	OP	40 hrs	0	0	\$1,912.50	\$1,912.50	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00		\$2,295.00		\$0.00 W
	Per Hansson (Phys)	OP OP	40 hrs	0	0	\$1,912.50	\$1,912.50	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00		\$2,295.00		\$0.00 W
	Takashi Maruyama (Phys) Sho Uemura (Phys)	OP OP	40 hrs 40 hrs	0	0	\$1,912.50 \$1,912.50	\$1,912.50 \$1,912.50	\$2,295.00 \$2,295.00	\$0.00 \$0.00	\$0.00 \$0.00	\$2,295.00 \$2,295.00	\$0.00 \$0.00		\$2,295.00 \$2,295.00		\$0.00 W \$0.00 W
	Rental Car 2	OP OP	40 hrs	0	0	\$535.50	\$1,912.50 \$535.50	\$642.60	\$0.00	\$0.00	\$642.60	\$0.00		\$2,293.00		\$0.00 W
	John Jaros (Phys)	OP OP	40 hrs	0	0	\$1,912.50	\$1,912.50	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00		\$2,295.00		\$0.00 W
143 1.9.5	1.9.5 Collaboration Meeting May 2015		440 hrs	0	0	\$18,283.50	\$18,283.50	\$21,940.20	\$0.00	\$0.00	\$21,940.20	\$0.00		\$21,940.20		\$0.00 W
	John Jaros (Phys)	OP	40 hrs	0	0	\$1,912.50	\$1,912.50	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00		\$2,295.00		\$0.00 W
	Ken Moffeit (Phys)	OP	40 hrs	0	0	\$1,912.50	\$1,912.50	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00		\$2,295.00		\$0.00 W
	Marco Oriunno (ME)	OP	40 hrs	0	0	\$1,912.50	\$1,912.50	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00		\$2,295.00		\$0.00 W
	Matt Graham (Phys) Per Hansson (Phys)	OP OP	40 hrs	0	0	\$1,912.50	\$1,912.50	\$2,295.00	\$0.00 \$0.00	\$0.00 \$0.00	\$2,295.00 \$2,295.00	\$0.00		\$2,295.00 \$2,295.00		\$0.00 W \$0.00 W
	Tim Nelson (Phys)	OP OP	40 hrs 40 hrs	0	0	\$1,912.50 \$1,912.50	\$1,912.50 \$1,912.50	\$2,295.00 \$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00 \$0.00	\$0.00	\$2,295.00		\$0.00 W
	Takashi Maruyama (Phys)	OP OP	40 hrs	0	0	\$1,912.50	\$1,912.50	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00		\$2,295.00		\$0.00 W
	Sho Uemura (Phys)	OP OP	40 hrs	0	0	\$1,912.50	\$1,912.50	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00	\$0.00 W
	Ryan Herbst (EE)	OP	40 hrs	0	0	\$1,912.50	\$1,912.50	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00	\$0.00 W
	Rental Car 1	OP	40 hrs	0	0	\$535.50	\$535.50	\$642.60	\$0.00	\$0.00	\$642.60	\$0.00		\$642.60		\$0.00 W
111	Rental Car 2	OP	40 hrs	0	0	\$535.50	\$535.50	\$642.60	\$0.00	\$0.00	\$642.60	\$0.00		\$642.60		\$0.00 W
144 1.9.6	1.9.6 Collaboration Meeting November 2015  John Jaros (Phys)	OP	440 hrs 40 hrs	0	0	\$18,283.50 \$1,912.50	\$18,283.50 \$1,912.50	\$21,940.20 \$2,295.00	\$0.00 \$0.00	\$0.00 \$0.00	\$21,940.20 \$2,295.00	\$0.00 \$0.00		\$21,940.20 \$2,295.00		\$0.00 W <i>\$0.00</i> W
	Ken Moffeit (Phys)	OP OP	40 rirs 40 hrs	0	0	\$1,912.50	\$1,912.50 \$1,912.50	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00		\$2,295.00		\$0.00 W
	Marco Oriunno (ME)	OP OP	40 hrs	0	0	\$1,912.50	\$1,912.50	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00		\$2,295.00		\$0.00 W
	Matt Graham (Phys)	OP	40 hrs	0	0	\$1,912.50	\$1,912.50	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00		\$2,295.00		\$0.00 W
	Per Hansson (Phys)	OP	40 hrs	0	0	\$1,912.50	\$1,912.50	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00		\$2,295.00	\$0.00	\$0.00 W
	Tim Nelson (Phys)	OP	40 hrs	0	0	\$1,912.50	\$1,912.50	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00		\$2,295.00		\$0.00 W
	Takashi Maruyama (Phys)	OP	40 hrs	0	0	\$1,912.50	\$1,912.50	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00		\$2,295.00		\$0.00 W
	Sho Uemura (Phys)	OP OP	40 hrs	0	0	\$1,912.50	\$1,912.50	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00		\$2,295.00		\$0.00 W
	Ryan Herbst (EE) Rental Car 1	OP OP	40 hrs 40 hrs	0	0	\$1,912.50 \$535.50	\$1,912.50 \$535.50	\$2,295.00 \$642.60	\$0.00 \$0.00	\$0.00 \$0.00	\$2,295.00 \$642.60	\$0.00 \$0.00		\$2,295.00 \$642.60		\$0.00 W \$0.00 W
	Rental Car 2	OP OP	40 hrs	0	0	\$535.50	\$535.50	\$642.60	\$0.00	\$0.00	\$642.60	\$0.00		\$642.60		\$0.00 W
145 1.9.7	1.9.7 Collaboration Meeting May 2016	- Oi	440 hrs	0	0	\$18,283.50	\$18,283.50	\$21,940.20	\$0.00	\$0.00	\$21,940.20	\$0.00		\$21,940.20		\$0.00 W
	John Jaros (Phys)	OP	40 hrs	0	0	\$1,912.50	\$1,912.50	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00		\$2,295.00		\$0.00 W
	Ken Moffeit (Phys)	OP	40 hrs	0	0	\$1,912.50	\$1,912.50	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00		\$2,295.00		\$0.00 W
	Marco Oriunno (ME)	OP	40 hrs	0	0	\$1,912.50	\$1,912.50	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00		\$2,295.00		\$0.00 W
	Matt Graham (Phys)	OP OP	40 hrs	0	0	\$1,912.50	\$1,912.50	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00		\$2,295.00		\$0.00 W
	Per Hansson (Phys) Ryan Herbst (EE)	OP OP	40 hrs 40 hrs	0	0	\$1,912.50 \$1,912.50	\$1,912.50 \$1,912.50	\$2,295.00 \$2,295.00	\$0.00 \$0.00	\$0.00 \$0.00	\$2,295.00 \$2,295.00	\$0.00 \$0.00		\$2,295.00 \$2,295.00		\$0.00 W \$0.00 W
	Sho Uemura (Phys)	OP OP	40 hrs	0	0	\$1,912.50	\$1,912.50	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00		\$2,295.00		\$0.00 W
	Takashi Maruyama (Phys)	OP OP	40 hrs	0	0	\$1,912.50	\$1,912.50	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00		\$2,295.00		\$0.00 W
	Tim Nelson (Phys)	OP	40 hrs	0	0	\$1,912.50	\$1,912.50	\$2,295.00	\$0.00	\$0.00	\$2,295.00	\$0.00		\$2,295.00		\$0.00 W
	Rental Car 1	OP	40 hrs	0	0	\$535.50	\$535.50	\$642.60	\$0.00	\$0.00	\$642.60	\$0.00		\$642.60		\$0.00 W
	Rental Car 2	OP	40 hrs	0	0	\$535.50	\$535.50	\$642.60	\$0.00	\$0.00	\$642.60	\$0.00		\$642.60		\$0.00 W
146 <b>1.10</b>	1.10 SLAC Travel for Commissioning and Running		4,080 hrs	0	0	\$112,149.00	\$112,149.00	\$155,861.10	\$0.00	\$0.00	\$155,861.10	\$0.00	\$0.00	\$129,728.70	\$0.00	\$26,132.40 <sub>W</sub>
147 1.10.1	1.10.1 Integration and Installation SVT at JLAB		640 hrs	0	0	\$18,666.00	\$18,666.00	\$26,132.40	\$0.00	\$0.00	\$26,132.40	\$0.00	\$0.00	\$0.00	\$0.00	\$26,132.40 W
	Ryan Herbst (EE)		80 hrs	0	0	\$2,754.00	\$2,754.00	\$3,855.60	\$0.00	\$0.00	\$3,855.60	\$0.00		\$0.00		\$3,855.60 W
	Tim Nelson (Phys)		80 hrs	0	0	\$2,754.00	\$2,754.00	\$3,855.60	\$0.00	\$0.00	\$3,855.60	\$0.00		\$0.00		\$3,855.60 W
	Per Hansson (Phys)		80 hrs	0	0	\$2,754.00	\$2,754.00	\$3,855.60	\$0.00	\$0.00	\$3,855.60	\$0.00		\$0.00		\$3,855.60 W
	Takashi Maruyama (Phys)		80 hrs	0	0	\$2,754.00	\$2,754.00	\$3,855.60	\$0.00	\$0.00	\$3,855.60	\$0.00		\$0.00		\$3,855.60 W
	Sho Uemura (Phys) Rental Car 1		80 hrs 80 hrs	0	0	\$2,754.00 \$1,071.00	\$2,754.00 \$1,071.00	\$3,855.60 \$1,499.40	\$0.00 \$0.00	\$0.00 \$0.00	\$3,855.60 \$1,499.40	\$0.00 \$0.00		\$0.00 \$0.00		\$3,855.60 W \$1,499.40 W
	Rental Car 2		80 hrs	0	0	\$1,071.00	\$1,071.00	\$1,499.40	\$0.00	\$0.00	\$1,499.40	\$0.00		\$0.00		\$1,499.40 W
	Marco Oriunno (ME)		80 hrs	0	0	\$2,754.00	\$2,754.00	\$3,855.60	\$0.00	\$0.00	\$3,855.60	\$0.00		\$0.00		\$3,855.60 W
148 1.10.2	1.10.2 Commissioning		560 hrs	0	0	\$15,912.00	\$15,912.00	\$22,276.80	\$0.00	\$0.00	\$22,276.80	\$0.00		\$22,276.80		\$0.00 W
	Sho Uemura (Phys)	OP	80 hrs	0	0	\$2,754.00	\$2,754.00	\$3,855.60	\$0.00	\$0.00	\$3,855.60	\$0.00		\$3,855.60		\$0.00 W
	Ken Moffeit (Phys)	OP	80 hrs	0	0	\$2,754.00	\$2,754.00	\$3,855.60	\$0.00	\$0.00	\$3,855.60	\$0.00		\$3,855.60		\$0.00 W
	Tim Nelson (Phys)	OP OP	80 hrs	0	0	\$2,754.00	\$2,754.00 \$2,754.00	\$3,855.60	\$0.00	\$0.00	\$3,855.60	\$0.00		\$3,855.60		\$0.00 W \$0.00 W
	Per Hansson (Phys) Rental Car 1	OP OP	80 hrs 80 hrs	0	0	\$2,754.00 \$1,071.00	\$2,754.00 \$1,071.00	\$3,855.60 \$1,499.40	\$0.00 \$0.00	\$0.00 \$0.00	\$3,855.60 \$1,499.40	\$0.00 \$0.00		\$3,855.60 \$1,499.40		\$0.00 W
	Rental Car 1 Rental Car 2	OP OP	80 hrs	0	0	\$1,071.00	\$1,071.00	\$1,499.40	\$0.00	\$0.00	\$1,499.40	\$0.00		\$1,499.40		\$0.00 W
	Takashi Maruyama (Phys)	OP	80 hrs	0	0	\$2,754.00	\$2,754.00	\$3,855.60	\$0.00	\$0.00	\$3,855.60	\$0.00		\$3,855.60		\$0.00 W
149 1.10.3	1.10.3 Commissioning (2014)		400 hrs	0	0	\$12,087.00	\$12,087.00	\$15,713.10	\$0.00	\$0.00	\$15,713.10	\$0.00		\$15,713.10		\$0.00
	Ken Moffeit (Phys)	OP	80 hrs	0	0	\$2,754.00	\$2,754.00	\$3,580.20	\$0.00	\$0.00	\$3,580.20	\$0.00		\$3,580.20		\$0.00 W
	Takashi Maruyama (Phys)	OP OP	80 hrs	0	0	\$2,754.00	\$2,754.00	\$3,580.20	\$0.00	\$0.00	\$3,580.20	\$0.00		\$3,580.20		\$0.00 W
	Tim Nelson (Phys)	OP	80 hrs	0	0	\$2,754.00	\$2,754.00	\$3,580.20	\$0.00	\$0.00	\$3,580.20	\$0.00		\$3,580.20		\$0.00 W
	Rental Car 1	OP OP	80 hrs	0	0	\$1,071.00	\$1,071.00	\$1,392.30	\$0.00	\$0.00	\$1,392.30	\$0.00		\$1,392.30		\$0.00 W
	Per Hansson (Phys)	OP	80 hrs	0	0	\$2,754.00	\$2,754.00	\$3,580.20	\$0.00	\$0.00	\$3,580.20	\$0.00	\$0.00	\$3,580.20	\$0.00	\$0.00 W
150 1.10.4	1.10.4 Run 2.2GeV (2014)		320 hrs	0	0	\$9,333.00	\$9,333.00	\$11,306.70	\$0.00	\$0.00	\$11,306.70	\$0.00	\$0.00	\$11,306.70	\$0.00	\$0.00 <sub>W</sub>
	Rental Car 1	OP	80 hrs	0	0	\$1,071.00	\$1,071.00	\$1,392.30	\$0.00	\$0.00	\$1,392.30	\$0.00	\$0.00	\$1,392.30	\$0.00	\$0.00 W
									, ,	, -,						

							WBS V	470 Wed 5/8/13									
ID	WBS	Task Name	Туре	Work	# Pro	ototyp	Cost	Labor	Ltotal	Material	Mtotal	Total	Spares	Prototypes	Total Operations	Total Infrastructures	Total Capital Equipments
		Ken Moffeit (Phys)	OP	80 hrs	. 0	0	\$2,754.00	\$2,754.00	\$3,580.20	\$0.00	\$0.00	\$3,580.20	\$0.00	\$0.00	\$3,580.20	\$0.00	\$0.00 V
		Per Hansson (Phys)	OP	80 hrs	0	0	\$2,754.00	\$2,754.00	\$3,580.20	\$0.00	\$0.00	\$3,580.20	\$0.00	\$0.00	\$3,580.20	\$0.00	\$0.00 V
		Takashi Maruyama (Phys)	OP	80 hrs	0	0	\$2,754.00	\$2,754.00	\$2,754.00	\$0.00	\$0.00	\$2,754.00	\$0.00	\$0.00	\$2,754.00	\$0.00	\$0.00 V
151	1.10.5	1.10.5 Run 1.1 GeV (2014)		320 hrs	0	0	\$9,333.00	\$9,333.00	\$12,132.90	\$0.00	\$0.00	\$12,132.90	\$0.00	\$0.00	\$12,132.90	\$0.00	\$0.00 V
		Ken Moffeit (Phys)	OP	80 hrs	0	0	\$2,754.00	\$2,754.00	\$3,580.20	\$0.00	\$0.00	\$3,580.20	\$0.00	\$0.00	\$3,580.20	\$0.00	\$0.00 V
		Tim Nelson (Phys)	OP	80 hrs	0	0	\$2,754.00	\$2,754.00	\$3,580.20	\$0.00	\$0.00	\$3,580.20	\$0.00	\$0.00	\$3,580.20	\$0.00	\$0.00 V
		Rental Car 1	OP	80 hrs	0	0	\$1,071.00	\$1,071.00	\$1,392.30	\$0.00	\$0.00	\$1,392.30	\$0.00	\$0.00	\$1,392.30	\$0.00	\$0.00 V
		Per Hansson (Phys)	OP	80 hrs	0	0	\$2,754.00	\$2,754.00	\$3,580.20	\$0.00	\$0.00	\$3,580.20	\$0.00	\$0.00	\$3,580.20	\$0.00	\$0.00 V
152	1.10.6	1.10.6 Commissioning (2015)		560 hrs	0	0	\$15,912.00	\$15,912.00	\$28,121.40	\$0.00	\$0.00	\$28,121.40	\$0.00	\$0.00	\$28,121.40	\$0.00	\$0.00 <sub>V</sub>
		Ken Moffeit (Phys)	OP	80 hrs	0	0	\$2,754.00	\$2,754.00	\$11,016.00	\$0.00	\$0.00	\$11,016.00	\$0.00	\$0.00	\$11,016.00	\$0.00	\$0.00 V
		Rental Car 1	OP	80 hrs	0	0	\$1,071.00	\$1,071.00	\$1,392.30	\$0.00	\$0.00	\$1,392.30	\$0.00	\$0.00	\$1,392.30	\$0.00	\$0.00 V \$0.00 V
		Tim Nelson (Phys)	OP	80 hrs	0	0	\$2,754.00	\$2,754.00	\$3,580.20	\$0.00	\$0.00	\$3,580.20	\$0.00	\$0.00	\$3,580.20	\$0.00	\$0.00 V
		Per Hansson (Phys)	OP	80 hrs	0	0	\$2,754.00	\$2,754.00	\$3,580.20	\$0.00	\$0.00	\$3,580.20	\$0.00	\$0.00	\$3,580.20	\$0.00	\$0.00 V
		Takashi Maruyama (Phys)	OP	80 hrs	0	0	\$2,754.00	\$2,754.00	\$3,580.20	\$0.00	\$0.00	\$3,580.20	\$0.00	\$0.00	\$3,580.20	\$0.00	\$0.00 V
		Rental Car 2	OP	80 hrs	0	0	\$1,071.00	\$1,071.00	\$1,392.30	\$0.00	\$0.00	\$1,392.30	\$0.00	\$0.00	\$1,392.30	\$0.00	\$0.00 V
		Sho Uemura (Phys)	OP	80 hrs	0	0	\$2,754.00	\$2,754.00	\$3,580.20	\$0.00	\$0.00	\$3,580.20	\$0.00	\$0.00	\$3,580.20	\$0.00	\$0.00 V
153	1.10.7	1.10.7 Run 2.2 GeV (2015)		640 hrs	0	0	\$15,453.00	\$15,453.00	\$20,088.90	\$0.00	\$0.00	\$20,088.90	\$0.00	\$0.00	\$20,088.90	\$0.00	\$0.00 <sub>V</sub>
		Ken Moffeit (Phys)	OP	160 hrs	0	0	\$4,437.00	\$4,437.00	\$5,768.10	\$0.00	\$0.00	\$5,768.10	\$0.00	\$0.00	\$5,768.10	\$0.00	\$0.00 V
		Per Hansson (Phys)	OP	160 hrs	0	0	\$4,437.00	\$4,437.00	\$5,768.10	\$0.00	\$0.00	\$5,768.10	\$0.00	\$0.00	\$5,768.10	\$0.00	\$0.00 V
		Rental Car 1	OP	160 hrs	0	0	\$2,142.00	\$2,142.00	\$2,784.60	\$0.00	\$0.00	\$2,784.60	\$0.00	\$0.00	\$2,784.60	\$0.00	\$0.00 V
		Takashi Maruyama (Phys)	OP	160 hrs	0	0	\$4,437.00	\$4,437.00	\$5,768.10	\$0.00	\$0.00	\$5,768.10	\$0.00	\$0.00	\$5,768.10	\$0.00	\$0.00 V
154	1.10.8	1.10.8 Run 6.6 GeV (2015)		640 hrs	0	0	\$15,453.00	\$15,453.00	\$20,088.90	\$0.00	\$0.00	\$20,088.90	\$0.00	\$0.00	\$20,088.90	\$0.00	\$0.00 <sub>V</sub>
		Ken Moffeit (Phys)	OP	160 hrs	0	0	\$4,437.00	\$4,437.00	\$5,768.10	\$0.00	\$0.00	\$5,768.10	\$0.00	\$0.00	\$5,768.10	\$0.00	\$0.00 V
		Tim Nelson (Phys)	OP	160 hrs	0	0	\$4,437.00	\$4,437.00	\$5,768.10	\$0.00	\$0.00	\$5,768.10	\$0.00	\$0.00	\$5,768.10	\$0.00	\$0.00 V
		Rental Car 1	OP	160 hrs	0	0	\$2,142.00	\$2,142.00	\$2,784.60	\$0.00	\$0.00	\$2,784.60	\$0.00	\$0.00	\$2,784.60	\$0.00	\$0.00 V
		Sho Uemura (Phys)	OP	160 hrs	0	0	\$4,437.00	\$4,437.00	\$5,768.10	\$0.00	\$0.00	\$5,768.10	\$0.00	\$0.00	\$5,768.10	\$0.00	\$0.00 V
155	1.12	1.11 Project management		4,544.8 hrs	0	0	\$128,373.12	\$128,373.12	\$166,885.06	\$0.00	\$0.00	\$166,885.06	\$0.00	\$0.00	\$0.00	\$0.00	\$166,885.06 <sub>V</sub>
156	1.13	1.12 UCSC Funds		0 hrs	0	0	\$462,253.00	\$0.00	\$0.00	\$462,253.00	\$462,253.00	\$462,253.00	\$0.00	\$0.00	\$462,253.00	\$0.00	\$0.00 <sub>V</sub>
157	1.13.1	1.12.1 UCSC FY13		0 hrs	0	0	\$53,050.00	\$0.00	\$0.00	\$53,050.00	\$53,050.00	\$53,050.00	\$0.00	\$0.00	\$53,050.00	\$0.00	\$0.00 V
		UCSC FY13	OP	1	0	0	\$53,050.00	\$0.00	\$0.00	\$53,050.00	\$53,050.00	\$53,050.00	\$0.00	\$0.00	\$53,050.00	\$0.00	\$0.00 V
158	1.13.2	1.12.2 UCSC FY14		0 hrs	0	0	\$119,378.00	\$0.00	\$0.00	\$119,378.00	\$119,378.00	\$119,378.00	\$0.00	\$0.00	\$119,378.00		\$0.00 V
		UCSC FY14	OP	1	0	0	\$119,378.00	\$0.00	\$0.00	\$119,378.00	\$119,378.00	\$119,378.00	\$0.00		\$119,378.00	\$0.00	\$0.00 V
159	1.13.3	1.12.3 UCSC FY15		0 hrs	0	0	\$159,475.00	\$0.00	\$0.00	\$159,475.00	\$159,475.00	\$159,475.00	\$0.00		\$159,475.00	\$0.00	\$0.00 V
		UCSC FY15	OP	1	0	0	\$159,475.00	\$0.00	\$0.00	\$159,475.00	\$159,475.00	\$159,475.00	\$0.00		\$159,475.00	\$0.00	\$0.00 V
160	1.13.4	1.12.4 UCSC FY16		0 hrs	0	0		\$0.00	\$0.00	\$130,350.00	\$130,350.00	\$130,350.00	\$0.00		\$130,350.00	\$0.00	\$0.00 V
		UCSC FY16	OP	1	0	0	\$130,350.00	\$0.00	\$0.00	\$130,350.00	\$130,350.00	\$130,350.00	\$0.00		\$130,350.00	\$0.00	\$0.00 V