

October 22, 2012

Activity		Dates		Costs			Budget		Percent Complete/Spent (Est)			Spent	Remaining	
	Sub-tasks	Start	End	Labor (Days)	Material	Ship	(Burdened)		Labor (Days)	Material	Ship	(Burdened)	Dollars	Percentage
Control Scheme Development for 1st Deployment		9/25/2012	10/25/2012					\$24,492					\$5,878	24%
	Implementation of PTO model into code	9/25/2012	10/1/2012	4			\$4,898		100%			\$4,898		
	Calibration of model w.r.t. previous deployments	9/25/2012	10/1/2012	4			\$4,898		100%			\$4,898		
	Development of gain-scheduling algorithm	9/25/2012	10/25/2012	6			\$7,348		60%			\$4,409		
	Development of latching algorithm	9/25/2012	10/25/2012	6			\$7,348		60%			\$4,409		
1st Test Deployment Preparations		9/25/2012	11/6/2012					\$62,724					\$22,655	36%
	Wave-energy converter maintenance	9/25/2012	10/31/2012	20	\$7,500		\$35,817		80%	100%		\$30,918		
	Add buoy submergence sensor	9/25/2012	11/2/2012	4	\$1,300		\$6,861		50%	100%		\$4,412		
	Implement control algorithms	10/8/2012	11/2/2012	10			\$12,246		25%			\$3,061		
	Final system testing	11/5/2012	11/6/2012	5			\$6,123		10%			\$612		
	Replace WaveRider Batteries	10/15/2012	11/6/2012	1	\$300		\$1,678		50%	100%		\$1,065		
1st Test Deployment		11/7/2012	12/7/2012					\$38,224					\$38,224	100%
	Mobilize all equipment to dock.	11/7/2012	11/7/2012	2			\$2,449		0%			\$0		
	Load boat	11/8/2012	11/8/2012	2		\$1,950	\$5,394		0%		0%	\$0		
	Deployment	11/9/2012	11/9/2012	4		\$1,950	\$7,843		0%		0%	\$0		
	System monitoring	11/9/2012	12/6/2012	10			\$12,246		0%			\$0		
	Recovery and Unload Boat	12/6/2012	12/6/2012	4		\$1,950	\$7,843		0%		0%	\$0		
	De-mobilization	12/7/2012	12/7/2012	2			\$2,449		0%			\$0		
1st Test Data Analysis		12/10/2012	1/10/2013					\$19,593					\$19,593	100%
	Correlation of test data and wave data	12/10/2012	12/12/2012	2			\$2,449		0%			\$0		
	Analysis of test data	12/13/2012	12/28/2012	10			\$12,246		0%			\$0		
	Test Report	1/1/2013	1/10/2013	4			\$4,898		0%			\$0		
Control Scheme Development for 2nd Deployment		1/14/2013	3/11/2013					\$36,738					\$36,738	100%
	Evaluation of buoy draft sensor performance	1/14/2013	1/18/2013	5			\$6,123		0%			\$0		
	Development of latching algorithm	1/21/2013	3/11/2013	25			\$30,615		0%			\$0		
2nd Test Deployment Preparations		2/1/2013	3/29/2013					\$55,863					\$55,863	100%
	Wave-energy converter maintenance	2/1/2013	3/8/2013	20	\$7,500		\$35,817		0%	0%		\$0		
	Implement control algorithms	3/11/2013	3/22/2013	10			\$12,246		0%			\$0		
	Final system testing	3/25/2013	3/29/2013	5			\$6,123		0%			\$0		
	Replace WaveRider Batteries	3/25/2013	3/29/2013	1	\$300		\$1,678		0%	0%		\$0		
2nd Test Deployment		4/1/2013	4/30/2013					\$38,224					\$38,224	100%
	Mobilize all equipment to dock.	4/1/2013	4/1/2013	2			\$2,449		0%			\$0		
	Load boat	4/2/2013	4/2/2013	2		\$1,950	\$5,394		0%	0%		\$0		
	Deployment	4/3/2013	4/3/2013	4		\$1,950	\$7,843		0%	0%		\$0		
	System monitoring	4/3/2013	4/28/2013	10			\$12,246		0%			\$0		
	Recovery and Unload Boat	4/29/2013	4/29/2013	4		\$1,950	\$7,843		0%	0%		\$0		
	De-mobilization	4/30/2013	4/30/2013	2			\$2,449		0%			\$0		
2nd Test Data Analysis		5/1/2013	5/31/2013					\$22,043					\$22,043	100%
	Correlation of test data and wave data	5/1/2013	5/3/2013	2			\$2,449		0%			\$0		
	Analysis of test data	5/6/2013	5/17/2013	12			\$14,695		0%			\$0		

	Test Report	5/20/2013	5/31/2013	4			\$4,898		0%			\$0		
Final Project Report		1/1/2013	6/25/2013					\$80,823					\$80,823	100%
	Data collection and analysis	1/1/2013	5/31/2013	30			\$36,738		0%			\$0		
	Journal Paper Preparation	1/1/2013	5/31/2013	20			\$24,492		0%			\$0		
	Final Data Analysis and Report Writing	6/3/2013	6/21/2012	15			\$18,369		0%			\$0		
	Report Submission	6/24/2013	6/24/2013	1			\$1,225		0%			\$0		
Numerical Code Transistion		8/1/2012	6/25/2013					\$42,962					\$33,777	79%
	Users manual and examples	8/1/2012	11/30/2012	15			\$18,369		50%			\$9,184		
	Transition to web server	12/3/2012	12/4/2012	2			\$2,449		0%			\$0		
	Carderock/DC Visit	12/5/2012	12/7/2012	5	\$2,500		\$9,898		0%	0%		\$0		
	Support as needed.	6/24/2013	6/24/2013	10			\$12,246		0%			\$0		
Totals:							\$421,684						\$353,816	

ID	Task Name	Start	Finish	Sep 9, '12			Sep 30, '12			Oct 21, '12			Nov 11, '12			Dec 2, '12			Dec 23, '12			Jan 13, '13			Feb 3, '13			Feb 24, '13			Mar 17, '13			Apr 7, '13			Apr 28, '13			May 19, '13			Jun 9, '13			Jun 30		
				10	18	26	4	12	20	28	5	13	21	29	7	15	23	31	8	16	24	1	9	17	25	5	13	21	29	6	14	22	30	8	16	24	1	9	17	25	3							
1																																																
2	Control Scheme Development for 1st Deployment	Tue 9/25/12	Thu 10/25/12																																													
3	1st Test Deployment Preparations	Tue 9/25/12	Tue 11/6/12																																													
4	1st Test Deployment	Wed 11/7/12	Fri 12/7/12																																													
5	1st Test Data Analysis	Mon 12/10/12	Thu 1/10/13																																													
6	Control Scheme Development for 2nd Deployment	Mon 1/14/13	Mon 3/11/13																																													
7	2nd Test Deployment Preparations	Fri 2/1/13	Fri 3/29/13																																													
8	2nd Test Deployment	Mon 4/1/13	Tue 4/30/13																																													
9	2nd Test Data Analysis	Wed 5/1/13	Fri 5/31/13																																													
10	Final Project Report	Tue 1/1/13	Tue 6/25/13																																													
11	Numerical Code Transistion	Tue 9/25/12	Tue 6/25/13																																													