

Updated: Feb 23, 2013

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					\$0	0%
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		100%			\$7,348		
Development of latching algorithm	9/25/2012	10/25/2012	6			\$7,348		100%			\$7,348		
1st Test Deployment Preparations	9/25/2012	11/6/2012					\$62,724					\$0	0%
Wave-energy converter maintenance	9/25/2012	10/31/2012	20	\$7,500		\$35,817		100%	100%		\$35,817		
Add buoy submergence sensor	9/25/2012	11/2/2012	4	\$1,300		\$6,861		100%	100%		\$6,861		
Implement control algorithms	10/8/2012	11/2/2012	10			\$12,246		100%			\$12,246		
Final system testing	11/5/2012	11/6/2012	5			\$6,123		100%			\$6,123		
Replace WaveRider Batteries	10/15/2012	11/6/2012	1	\$300		\$1,678		100%	100%		\$1,678		
1st Test Deployment	11/7/2012	12/7/2012					\$38,224					\$0	0%
Mobilize all equipment to dock.	11/7/2012	11/7/2012	2			\$2,449		100%			\$2,449		
Load boat	11/8/2012	11/8/2012	2		\$1,950	\$5,394		100%		100%	\$5,394		
Deployment	11/9/2012	11/9/2012	4		\$1,950	\$7,843		100%		100%	\$7,843		
System monitoring	11/9/2012	12/6/2012	10			\$12,246		100%			\$12,246		
Recovery and Unload Boat	12/6/2012	12/6/2012	4		\$1,950	\$7,843		100%		100%	\$7,843		
De-mobilization	12/7/2012	12/7/2012	2			\$2,449		100%			\$2,449		
1st Test Data Analysis	12/10/2012	1/10/2013					\$19,593					\$0	0%
Correlation of test data and wave data	12/10/2012	12/12/2012	2			\$2,449		100%			\$2,449		
Analysis of test data	12/13/2012	12/28/2012	10			\$12,246		100%			\$12,246		
Test Report	1/1/2013	1/10/2013	4			\$4,898		100%			\$4,898		
Control Scheme Development for 2nd Deployment	1/14/2013	3/11/2013					\$30,615					\$2,449	8%
Evaluation of buoy draft sensor performance	1/14/2013	1/18/2013	5			\$6,123		100%			\$6,123		
Development of latching algorithm	1/21/2013	3/11/2013	20			\$24,492		90%			\$22,043		
2nd Test Deployment Preparations	2/1/2013	3/29/2013					\$68,109					\$8,565	13%
Design and Implement Load Dump Switch	1/14/2013	2/14/2013	10			\$12,246		100%			\$12,246		
Wave-energy converter maintenance	2/1/2013	3/8/2013	20	\$7,500		\$35,817		100%	50%		\$30,154		
Implement control algorithms	3/11/2013	3/22/2013	10			\$12,246		100%			\$12,246		
Final system testing	3/25/2013	3/29/2013	5			\$6,123		60%			\$3,674		
Replace WaveRider Batteries	3/25/2013	3/29/2013	1	\$300		\$1,678		100%	0%		\$1,225		
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					\$71,638	89%
Data collection and analysis	1/1/2013	5/31/2013	30			\$36,738		20%			\$7,348		
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		10%			\$1,837		
Report Submission	6/24/2013	6/24/2013	1			\$1,225		0%			\$0		
Numerical Code Transistion	8/1/2012	6/25/2013					\$42,962					\$3,775	9%
Users manual and examples	8/1/2012	11/30/2012	15			\$18,369		100%			\$18,369		
Transition to web server	12/3/2012	12/4/2012	2			\$2,449		100%			\$2,449		
Carderock/DC Visit	12/5/2012	12/7/2012	5	\$2,500		\$9,898		100%	0%		\$6,123		
Support as needed.	6/24/2013	6/24/2013	10			\$12,246		100%			\$12,246		
Sonar Evaluation	12/1/2012	2/15/2013					\$25,716					\$0	0%
DAT Performance Evaluation (alone)	12/1/2012	12/31/2012	10			\$12,246		100%			\$12,246		
DAT In-Vehicle Performance Evaluation	1/1/2013	1/21/2013	10			\$12,246		100%			\$12,246		
Report	1/12/2013	2/1/2013	1			\$1,225		100%	0%		\$1,225		

Totals:

\$453,523

\$146,693