

Task	Labor (Hours)														Material	Outside Srv	Ship Time			Sub-totals		
	Hamilton	Cazenave	Erickson	ME	Jensen	Martin	EE	McEwen	Henthorn	SE	ME Tech	EE Tech	Machinist	Divers				Ship	Time	Cost	Expense	Labor
1st Test Deployment And Recovery																						
Pre-deployment integration and testing	40	80	16	136	20	16	36			20	20	40	16		\$2,000	\$2,000						Misc, tether re-term
Deployment	8	8		16	8		8			8	8	8		8			Shana Rae	2	\$5,000			
System monitoring	40	40		80	20	8	28			40	40	8		20		\$1,000	Paragon	6 half days				Cell Phone Costs
Recovery	8	8		16	8		8			8	8	8		8	\$100		Shana Rae	2	\$5,000			
Post Recovery Inspection	8	8	4	20	8		8			8	8	40										Food
Task Total	104	144	20	268	64	24	88	0	84	84	104	16	0	36	\$2,100	\$3,000				\$10,000	\$15,100	596
				268			88			84												
Inspection and Refurbishment																						
Dissassembly and Inspection	8	80	8	96	8	8	16			0	40	16										Seals, shackles, etc, Tether re-term
Component Refurbishment	8	8		16	8		8			8	8	16			\$5,000	\$2,000						
System Re-assembly	8	36	8	52	8	8	16			0	40	16			\$1,000							Misc
Task Total	24	124	16	164	24	16	40	0	8	8	96	32	0	0	\$6,000	\$2,000				\$0	\$8,000	340
				164			40			8												
2nd Test Deployment																						
Pre-deployment integration and testing	40	80	8	128	20	16	36			20	20	40	16		\$2,000							Misc
Deployment	8	8		16	8		8			8	8	8		8			Shana Rae	2	\$5,000			
System monitoring	20	20		40	10	8	18			20	20	8		8		\$400	Paragon	4 half days				Cell Phone Costs
Task Total	68	108	8	184	38	24	62	0	48	48	56	16	0	16	\$2,000	\$400				\$5,000	\$7,400	382
				184			62			48												
Power Converter Upgrade																						
Housings and Mechanical Integration	24	24	80	128	16	16	32			16	16	16	60		\$5,000							Materials
Connectorization Review and Upgrade	8	8		16	8	8	16			0	8	16			\$3,000							
Electrical Components and Integration	8	8		16	80		80			8	8	8										Connectors
Lab Testing	20	20		40	10	8	18			20	20											
Task Total	60	60	80	200	114	32	146	0	44	44	32	32	60	0	\$8,000	\$0					\$8,000	514
				200			146			44												
Battery System Upgrade																						
Electrical Components and Integration	24	24	8	56	120	16	136			16	16	16	40		\$20,000							Batteries and Cicutry
Housings and Mechanical Integration	16	16	40	72	8		8			8	8	8			\$4,000							
Lab Testing	20	20		40	40	8	48			20	20											Materials
Task Total	60	60	48	168	168	24	192	0	44	44	24	40	0	0	\$24,000	\$0					\$24,000	468
				168			192			44												
Accelerated Life Testing																						
Identification of service provider	8	8		16	8		8			0		16										Misc
Test Item Preperation	16	16		32	16		16			0	0	16	16		\$1,000							
Outside Testing	8			8	8		8			0						\$10,000						
Results Analysis and Mitigations	8	8		16	8		8															
Task Total	40	32	0	72	40	0	40	0	0	0	16	32	0	0	\$1,000	\$10,000					\$11,000	160
				72			40			0												
External Collaboration Explorations																						
Meetings, Discussions, Proposal Writing	80	8		88	8	8	16			40	40											
Task Total	80	8	0	88	8	8	16	0	40	40	0	0	0	0	\$0	\$0					\$0	144
				228			16			40												
	Labor (Hours)														Material	Outside Srv	Ship Time					
				ME		EE				SE	ME Tech	EE Tech	Machinist	Divers			Ship	Time	Cost	\$73,500	2604	
Totals	436	536	172	1144	456	128	584	0	268	268	328	168	60	52	\$43,100	\$15,400			\$15,000	\$73,500	2604	
				1144			584			268											2604	