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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Navy **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE							
1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>				PE 0604757N: <i>Ship Self Def (Engage: Soft Kill/EW)</i>							
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	75.600	84.525	184.095	-	184.095	178.986	178.126	134.578	136.778	Continuing	Continuing
0954: <i>Shipboard EW Improvement Program</i>	21.003	13.386	18.438	-	18.438	18.697	16.100	15.872	16.089	Continuing	Continuing
2190: <i>NULKA Decoy</i>	4.598	5.291	3.520	-	3.520	2.409	2.402	2.364	2.294	Continuing	Continuing
3227: <i>SEWIP Block 2</i>	49.999	65.848	43.894	-	43.894	30.362	3.323	0.965	0.901	Continuing	Continuing
3316: <i>Advanced Offboard EW</i>	-	-	22.967	-	22.967	23.544	32.057	71.025	72.314	Continuing	Continuing
3321: <i>SEWIP Block 3</i>	-	-	95.276	-	95.276	103.974	124.244	44.352	45.180	Continuing	Continuing

A. Mission Description and Budget Item Justification

0954 - The Surface Electronic Warfare Improvement Program (SEWIP) provides enhanced Electronic Warfare (EW) capabilities to existing and new ship combat systems to improve Anti Ship Missile Defense (ASMD), counter-targeting and counter-surveillance capabilities, as well as improved battlefield situational awareness. The SEWIP employs an evolutionary acquisition and incremental development strategy to upgrade surface EW capabilities via a series of block upgrades to the AN/SLQ-32(V) system, and field EW improvements to keep pace with the ASMD threat.

2190 - The Offboard Active Decoy (NULKA) is a joint cooperative program between the United States and Australia that developed an active offboard decoy that utilizes a broadband radio frequency repeater mounted atop a hovering rocket. NULKA is designed to counter a wide variety of present and future radar guided Anti-Ship Missiles (ASMs) by radiating a large radar cross section while flying a ship-like trajectory. The United States developed the electronic payload and fire control system, while Australia developed the hovering rocket.

3227 - SEWIP Block 2 is a separate program to develop an upgraded antenna, receiver, and combat system interface for SLQ-32. The upgrades are necessary in order to pace the threat, improving detection, accuracy, and mitigation of Electromagnetic Interference (EMI).

3316 - The Advanced Offboard EW is a long duration, offboard decoy utilizing one of a family of payload types in support of countering identified EW gaps (additional details classified). Development will include the vehicle shipboard control and integration with ship systems and sensors.

3321 - SEWIP Block 3 is a separate program that will provide an updated Electronic Attack (EA) capability to the SLQ-32(V) Electronic Warfare (EW) suite. The program will provide a new integrated EA transmitter, array, and associated techniques to enhance surface EW capability for legacy and new ship combat systems.

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B. Program Change Summary (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	88.526	84.525	131.788	-	131.788
Current President's Budget	75.600	84.525	184.095	-	184.095
Total Adjustments	-12.926	-	52.307	-	52.307
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-9.600	-			
• SBIR/STTR Transfer	-3.085	-			
• Program Adjustments	-	-	54.423	-	54.423
• Section 219 Reprogramming	-0.239	-	-	-	-
• Rate/Misc Adjustments	-	-	-2.116	-	-2.116
• Congressional General Reductions Adjustments	-0.002	-	-	-	-

Change Summary Explanation

Program changes in FY10 include minor program changes (-9.6M) due to execution realignments by the department for higher priority needs.

Program changes in FY12 include moving funds from SEWIP Block 2 (PU 3227) to SEWIP Block 3 (PU 3321) and adding additional funds for SEWIP Block 3. A new start program Advanced Offboard EW was also established in FY12.

Technical: Not applicable.

Schedule: Not applicable.

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy								DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>				R-1 ITEM NOMENCLATURE PE 0604757N: <i>Ship Self Def (Engage: Soft Kill/ EW)</i>				PROJECT 0954: <i>Shipboard EW Improvement Program</i>			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
0954: <i>Shipboard EW Improvement Program</i>	21.003	13.386	18.438	-	18.438	18.697	16.100	15.872	16.089	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

SEWIP provides enhanced EW capabilities to existing and new ship combat systems to improve ASMD, counter-targeting and counter surveillance capabilities, as well as improved situational awareness. The SEWIP employs an evolutionary acquisition and incremental development strategy to upgrade surface EW capabilities via a series of block upgrades to the AN/SLQ-32(V) system, and field EW improvements to keep pace with the ASMD threat. SEWIP will provide required EW capabilities and will incorporate technology advances as they become available to provide incremental upgrades and improvements in performance.

SEWIP Block 1 is segmented into Block 1A, and Block 1B, ALQ-210 integration, and EW Rapid Capability Insertion Process (RCIP). Block 1A upgrades the AN/SLQ-32 pulse-processing computers and the display console allowing the system to more quickly identify threats and better display the information to the operator. Block 1A Electronic Surveillance Enhancements (ESE) pulse processing computers and the Improved Control and Display (ICAD) Human System Interface (HSI) console partially open the electronic warfare system architecture to support subsequent EW capability upgrades. Block 1B adds adjunct sensors for special signal intercept, including Specific Emitter Identification (SEI), and High Gain High Sensitivity (HGHS) (Block 1B3), a critical improvement for threat correlation, situational awareness, and extending the battle space. ALQ-210 integration will develop capability to use and integrate ES controls and data between AN/SLQ-32 and the ALQ-210 on the MH60R. Modeled on the Acoustic Rapid COTS Insertion (ARCI) process, EW RCIP will solicit, assess, and integrate new technologies and other improvements required to keep the EW system perpetually ahead of the threat.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2010	FY 2011	FY 2012
Title: Block 1B3	15.711	6.724	10.922
Articles:	0	0	0
FY 2010 Accomplishments: Continue E&MD of the HGHS subsystem, commence integration with the 1B2-enhanced AN/SLQ-32B(V) system.			
FY 2011 Plans: Complete E&MD by taking delivery of Engineering Development Models (EDMs). Commence integration and testing of EDMs.			
FY 2012 Plans: Continue Integration and testing. At-sea testing of 1B3 HGHS begins at the end of 4th quarter 2012 and will complete during 1st quarter 2013.			
Title: V(4) Electronic Surveillance Enhancements (ESE)	3.292	4.612	2.750
Articles:	0	0	0

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
<p>FY 2010 Accomplishments: Continue development of V(4) ESE upgrade.</p> <p>FY 2011 Plans: Complete development of V(4) ESE upgrade. Take delivery of EDMs. Conduct at-sea testing of V(4) ESE upgraded SLQ-32(V)4 system.</p> <p>FY 2012 Plans: Analyze and correct deficiencies.</p>			
<p>Title: EW RCIP</p> <p align="right">Articles:</p>	-	-	1.636 0
<p>FY 2012 Plans: Identify, assess and develop RCIP capabilities.</p>			
<p>Title: Shipboard Integration</p> <p align="right">Articles:</p>	2.000 0	2.050 0	3.130 0
<p>FY 2010 Accomplishments: Continued development capability to use and integrate ES controls and data between ALQ210 (on the MH60R) and AN/SLQ-32.</p> <p>FY 2011 Plans: Continue development to use and integrate ES controls and data between ALQ210 (on the MH60R) and AN/SLQ-32.</p> <p>FY 2012 Plans: Continue development capability to use and integrate ES controls and data between ALQ210 (on the MH60R) and AN/SLQ-32.</p>			
Accomplishments/Planned Programs Subtotals	21.003	13.386	18.438

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
• 0204228N/2312: <i>OPN BA-2 AN/SLQ-32(V)</i>	31.171	49.677	43.096	0.000	43.096	95.151	220.722	272.913	455.344	Continuing	Continuing
	5.048	8.622	10.464	0.000	10.464	10.728	10.782	10.856	11.064	Continuing	Continuing

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C. Other Program Funding Summary (\$ in Millions)

<u>Line Item</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u> <u>Base</u>	<u>FY 2012</u> <u>OCO</u>	<u>FY 2012</u> <u>Total</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• 24575N & 72827N/1C2C: <i>OMN</i> <i>BA-1 AN/SLQ-32(V)</i>											

D. Acquisition Strategy

SEWIP will develop Block upgrades to SLQ-32 based on integrating technology advances and adding functional capabilities in an incremental fashion. Each Block and Sub-Block will be developed and contracted in an individual yet coordinated and overlapping fashion.

E. Performance Metrics

- Successfully complete 1B3 Operational Assessment prior to MS C.
- Successfully achieve Block 1B3 Milestone C / Low Rate Initial Production (LRIP) Decision Review (DR).
- Successfully complete Block 1B3 Operational Evaluation (OPEVAL).
- Successfully achieve Block 1B3 Full Rate Production (FRP) DR.

- Successfully identify RCIP capabilities.
- Successfully identify and assess RCIP Science & Technology candidates.
- Successfully demonstrate and validate RCIP capabilities.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604757N: <i>Ship Self Def (Engage: Soft Kill/ EW)</i>	PROJECT 0954: <i>Shipboard EW Improvement Program</i>
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Product Development (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Ancillary Hardware Development	Various	Various:Various	151.420	-		-		-		-	0.000	151.420	
ESE Development	SS/CPFF	Northrop Grumman:Goleta, CA	11.740	2.000	Jan 2011	0.438	Nov 2011	-		0.438	Continuing	Continuing	Continuing
ICAD Development	SS/CPFF	GD-AIS:Fairfax, VA	11.747	-		-		-		-	0.000	11.747	
ESE Development (Block 1A)	SS/CPFF	Northrop Grumman:Goleta, CA	0.471	-		-		-		-	0.000	0.471	
System Integrator	C/CPAF	GD-AIS:Fairfax, VA	13.798	-		-		-		-	0.000	13.798	
1B Development	SS/CPIF	GD-AIS:Fairfax, VA	80.856	2.107	Feb 2011	0.662	Nov 2011	-		0.662	Continuing	Continuing	Continuing
Q-70 Mods	C/CPFF	LM-EAGAN:Eagan, MN	3.491	-		-		-		-	0.000	3.491	
Block 2 Study/Development	C/CPIF	BAE:Nashua, NH	0.336	-		-		-		-	0.000	0.336	
Rapid Capability Insertion Process	TBD	TBD:TBD	-	-		1.000	Nov 2011	-		1.000	Continuing	Continuing	Continuing
ALQ210 Integration	WR	NSWC Dahlgren:Dahlgren, VA	2.000	2.050	Feb 2011	3.130	Nov 2011	-		3.130	Continuing	Continuing	Continuing
Subtotal			275.859	6.157		5.230		-		5.230			

Remarks

Ancillary Hardware Development included several contractors from the original development of the SLQ-32 system. This line has been left on the exhibit to track Prior year costs of this PU.
Product Development for RCIP is in a competitive status.

Support (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Block 1 Integrated Logistics Support	WR	NSWC Crane, DD, NRL, APL:Crane, IN; Dahlgren, VA; Washington, DC; Laurel,MD	9.912	-		-		-		-	0.000	9.912	
	WR	NSWC Crane:Crane, IN	-	0.415	Nov 2010	0.177	Nov 2011	-		0.177	Continuing	Continuing	Continuing

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Support (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Block 1 Integrated Logistics Support													
Block 1 Integrated Logistics Support	WR	NSWC DD:Dahlgren, VA	-	0.104	Nov 2010	0.045	Nov 2011	-		0.045	Continuing	Continuing	Continuing
Block 1 Government Engineering Support	WR	NSWC Crane, DD, NRL, APL:Crane, IN; Dahlgren, VA; Washington, DC; Laurel, MD	34.783	-		-		-		-	0.000	34.783	
Block 1 Government Engineering Support	WR	NSWC Dahlgren:Dahlgren, VA	-	0.532	Nov 2010	0.356	Nov 2011	-		0.356	Continuing	Continuing	Continuing
Block 1 Government Engineering Support	WR	NSWC Crane:Crane, IN	-	0.471	Nov 2010	0.318	Nov 2011	-		0.318	Continuing	Continuing	Continuing
Block 1 Government Engineering Support	WR	NRL:Washington, DC	-	0.517	Nov 2010	0.343	Nov 2011	-		0.343	Continuing	Continuing	Continuing
Block 2 Integrated Logistics Support	WR	NSWC Crane, DD, NRL:Crane, IN; Dahlgren, VA; Washington, DC	0.540	-		-		-		-	0.000	0.540	
Block 2 Government Engineering Support	WR	NSWC Crane, DD, NRL:Crane, IN; Dahlgren, VA; Washington, DC	2.496	-		-		-		-	0.000	2.496	
Subtotal			47.731	2.039		1.239		-		1.239			

Test and Evaluation (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Block 1 Integration and Test	WR	NSWC Crane, DD, NRL:Crane, IN; Dahlgren, VA; Washington, DC	0.853	-		-		-		-	0.000	0.853	

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Test and Evaluation (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	Various	Various:Various	8.958	-		-		-		-	0.000	8.958	
Block 1A Test Planning/T&E Events	WR	NSWC Crane, DD, NRL:Crane, IN; Dahlgren, VA; Washington, DC	11.036	-		-		-		-	0.000	11.036	
Block 1B Test Planning/T&E Events	WR	NSWC Crane, DD, NRL, NAVAIR, OPTEVFOR, NSWC PHD:Crane, IN; Dahlgren, VA; Washington, DC; MD; CA	9.567	-		-		-		-	0.000	9.567	
Block 1B Test Planning/T&E Events	WR	NSWC Dahlgren:Dahlgren, VA	-	0.503	Nov 2010	2.516	Nov 2011	-		2.516	Continuing	Continuing	Continuing
Block 1B Test Planning/T&E Events	WR	NSWC Crane:Crane, IN	-	0.445	Nov 2010	2.433	Nov 2011	-		2.433	Continuing	Continuing	Continuing
Block 1B Test Planning/T&E Events	WR	NRL:Washington, DC	-	0.489	Nov 2010	2.683	Nov 2011	-		2.683	Continuing	Continuing	Continuing
(V)4 ESE Test Planning/T&E Events	WR	NSWC Crane, DD, NRL:Crane, IN; Dahlgren, VA; Washington, DC	0.686	-		-		-		-	0.000	0.686	
(V)4 ESE Test Planning/T&E Events	WR	NSWC Dahlgren:Dahlgren, VA	-	0.602	Nov 2010	0.763	Nov 2011	-		0.763	Continuing	Continuing	Continuing
(V)4 ESE Test Planning/T&E Events	WR	NSWC Crane:Crane, IN	-	0.534	Nov 2010	0.740	Nov 2011	-		0.740	Continuing	Continuing	Continuing
(V)4 ESE Test Planning/T&E Events	WR	NRL:Washington, DC	-	0.585	Nov 2010	0.810	Nov 2011	-		0.810	Continuing	Continuing	Continuing
Block 2 Test Planning/T&E Events	WR	NSWC Crane, DD, NRL:Crane, IN; Dahlgren, VA; Washington, DC	0.941	-		-		-		-	0.000	0.941	
Subtotal			32.041	3.158		9.945		-		9.945			

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Test and Evaluation (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total		Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete			

Remarks
Development Test & Evaluation included several activities from the original development of the SLQ-32 system. This line has been left on the exhibit to track Prior year costs of this PU.

Management Services (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total		Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete			
Block 1 Program Management	C/CPIF	SPA (SEAPORT):Washington, D.C.	28.635	0.501	Feb 2011	0.742	Nov 2011	-		0.742	Continuing	Continuing	Continuing	
Block 1 Program Management Support	WR	NSWC Crane, DD, NRL:Crane, IN; Dahlgren, VA; Washington, DC	17.310	-		-		-		-	0.000	17.310		
Block 1 Program Management Support	WR	NSWC Crane:Crane, IN	-	0.466	Nov 2010	0.389	Nov 2011	-		0.389	Continuing	Continuing	Continuing	
Block 1 Program Management Support	WR	NSWC Dahlgren:Dahlgren, VA	-	0.413	Nov 2010	0.378	Nov 2011	-		0.378	Continuing	Continuing	Continuing	
Block 1 Program Management Support	WR	NRL:Washington, DC	-	0.452	Nov 2010	0.415	Nov 2011	-		0.415	Continuing	Continuing	Continuing	
Block 1 Travel	WR	NAVSEA Program Office Travel:Washington, DC	0.805	0.200	Nov 2010	0.100	Nov 2011	-		0.100	Continuing	Continuing	Continuing	
Block 1 DoD Acquisition Workforce Fund	Various	Various:Various	0.126	-		-		-		-	0.000	0.126		
Block 2 Program Management Support	C/FFP	AT&T Gov't Solutions (SEAPORT):Washington, DC	0.023	-		-		-		-	0.000	0.023		
Block 2 Program Management Support	WR	NSWC Crane, DD, NRL:Various	0.823	-		-		-		-	0.000	0.823		
Block 2 Travel	WR		0.050	-		-		-		-	0.000	0.050		

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Navy		DATE: February 2011
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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Navy		DATE: February 2011
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Proj 0954</i>				
1B3 HGHS Development & Integration	1	2010	4	2011
V(4) ESE Development & Integration	1	2010	4	2011
ALQ210 Integration	1	2010	1	2014
EW Rapid Capability Insertion Process (RCIP)	1	2012	4	2016
Block 1B3 MS C/LRIP DR	1	2012	1	2012
1B3 FQT & DT/OT	3	2011	4	2012
Block 1B3 TECHEVAL	4	2012	4	2012
Block 1B3 OPEVAL	4	2012	1	2013
Block 1B3 FRP DR	2	2013	2	2013

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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
2190: <i>NULKA Decoy</i>	4.598	5.291	3.520	-	3.520	2.409	2.402	2.364	2.294	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

The Offboard Active Decoy (NULKA) is a joint cooperative program between the United States and Australia that developed an active offboard decoy that utilizes a broadband radio frequency repeater mounted atop a hovering rocket. NULKA is designed to counter a wide variety of present and future radar guided Anti-Ship Missiles (ASMs) by radiating a large radar cross section while flying a ship-like trajectory. The United States developed the electronic payload and fire control system, while Australia developed the hovering rocket. Future efforts involve development of the capability for high value unit protection.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2010	FY 2011	FY 2012
<p>Title: NULKA Decoy Subsystem</p> <p align="right">Articles:</p> <p>FY 2010 Accomplishments: NULKA decoy subsystem integration and improvements to include Effectiveness Studies, Engineering Studies and Fly Out Tactics.</p> <p>FY 2011 Plans: NULKA decoy subsystem integration and improvements to include Effectiveness Studies, Engineering Studies and Fly Out Tactics.</p> <p>FY 2012 Plans: NULKA decoy subsystem integration and improvements to include Effectiveness Studies, Engineering Studies and Fly Out Tactics.</p>	<p>1.600</p> <p>0</p>	<p>1.600</p> <p>0</p>	<p>1.600</p> <p>0</p>
<p>Title: NULKA Decoy Enhancements</p> <p align="right">Articles:</p> <p>FY 2010 Accomplishments: Conducted design and development efforts aimed at increasing the interoperability between NULKA and emerging surface ship radars.</p> <p>FY 2011 Plans: Continue the development of NULKA decoy enhancements to include increased duty cycle and Electromagnetic Compatibility (EMC).</p> <p>FY 2012 Plans:</p>	<p>0.430</p> <p>0</p>	<p>1.691</p> <p>0</p>	<p>0.471</p> <p>0</p>

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy	DATE: February 2011
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APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604757N: <i>Ship Self Def (Engage: Soft Kill/ EW)</i>	PROJECT 2190: <i>NULKA Decoy</i>
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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
Continue the development of NULKA decoy enhancements to include increased duty cycle and EMC.			
Title: NULKA Software	2.568	2.000	1.449
Articles:	0	0	0
Description:			
FY 2010 Accomplishments: Upgrade Launching System software to provide CVN protection capability.			
FY 2011 Plans: Upgrade Launching System software to provide CVN protection capability.			
FY 2012 Plans: Complete upgrade Launching System software to provide CVN protection capability.			
Accomplishments/Planned Programs Subtotals	4.598	5.291	3.520

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
• OPN/5530: <i>Anti-Ship Missile Decoy System</i>	33.524	36.588	32.716	0.000	32.716	31.754	30.204	48.659	68.231	Continuing	Continuing
• OMN/12CR0 (1C2C): <i>Nulka</i>	4.216	4.526	6.140	0.000	6.140	7.447	7.781	8.146	8.294	Continuing	Continuing

D. Acquisition Strategy
NULKA is a joint cooperative program between United States and Australia in full rate production.

E. Performance Metrics
Successfully complete Critical Design Review (CDR) for MK 53 Decoy Launch System (DLS) upgrade for CVN class.
Successfully complete first-of-class testing of MK 53 DLS upgrade for CVN.
NULKA will complete Decoy Launch Processor (DLP) software version 6_5 Beta 1 for CVN 68 ship class.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604757N: <i>Ship Self Def (Engage: Soft Kill/ EW)</i>	PROJECT 2190: <i>NULKA Decoy</i>
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Product Development (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Primary Hardware Development	WR	Lockheed Martin:Sippican, MA	6.149	0.497	Mar 2011	-		-		-	Continuing	Continuing	Continuing
Primary Hardware Development	MIPR	BAE Systems:Australia	6.792	0.500	Mar 2011	0.450	Nov 2011	-		0.450	Continuing	Continuing	Continuing
Systems Engineering	WR	NRL:Washington, DC	13.887	1.450	Nov 2010	1.200	Nov 2011	-		1.200	Continuing	Continuing	Continuing
Systems Engineering	WR	NWAD:China Lake, CA	0.120	-		-		-		-	0.000	0.120	
MK 53 System Eng Changes	C/FFP	Sechan:PA	0.150	-		-		-		-	0.000	0.150	
Systems Engineering	WR	NSWC Dahlgren:Dahlgren, VA	3.118	1.616	Nov 2010	1.320	Nov 2011	-		1.320	Continuing	Continuing	Continuing
Systems Engineering	WR	NSMA:VA	0.360	-		-		-		-	0.000	0.360	
Systems Engineering	WR	NSWC Crane:IN	4.928	0.818	Nov 2010	0.230	Nov 2011	-		0.230	Continuing	Continuing	Continuing
Subtotal			35.504	4.881		3.200		-		3.200			

Support (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Development Support	WR	NRL:Washington, DC	1.314	-		-		-		-	0.000	1.314	
Software Development	WR	NSWC Dahlgren:Dahlgren, VA	2.527	-		-		-		-	0.000	2.527	
Subtotal			3.841	-		-		-		-	0.000	3.841	

Test and Evaluation (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	WR	NSWC Dahlgren:Dahlgren, VA	0.700	-		-		-		-	0.000	0.700	
Developmental Test & Evaluation	WR	NRL:Washington, DC	1.181	-		-		-		-	0.000	1.181	

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604757N: <i>Ship Self Def (Engage: Soft Kill/ EW)</i>	PROJECT 2190: <i>NULKA Decoy</i>
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Test and Evaluation (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Test Assets	WR	NRL:Washington, DC	0.701	-		-		-		-	0.000	0.701	
Test Support	WR	BAE Systems:Australia	0.050	-		-		-		-	0.000	0.050	
Subtotal			2.632	-		-		-		-	0.000	2.632	

Management Services (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Support	C/CPIF	SPA (Seaport)::Washington, DC	-	0.350	Jan 2011	0.270	Nov 2011	-		0.270	Continuing	Continuing	Continuing
Program Management Support	C/FFP	AT&T Gov't Solutions (SEAPORT)::Washington, DC	1.147	-		-		-		-	Continuing	Continuing	Continuing
Travel	WR	NAVSEA Program Office Travel:Washington, DC	0.508	0.060	Nov 2010	0.050	Nov 2011	-		0.050	Continuing	Continuing	Continuing
DoD Acquisition Workforce Fund (DAWDF)	Various	Various:Various	0.015	-		-		-		-	0.000	0.015	
Subtotal			1.670	0.410		0.320		-		0.320			

	Total Prior Years Cost	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals		43.647	5.291	3.520	-	3.520		

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Navy		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604757N: <i>Ship Self Def (Engage: Soft Kill/ EW)</i>	PROJECT 2190: <i>NULKA Decoy</i>

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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Navy **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604757N: <i>Ship Self Def (Engage: Soft Kill/ EW)</i>	PROJECT 2190: <i>NULKA Decoy</i>
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Proj 2190</i>				
CVN DLP SOFTWARE	1	2010	2	2012
CVN CLASS DT	1	2014	1	2014
LHA 6 INSTALL CERTIFICATION	3	2014	3	2014

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604757N: <i>Ship Self Def (Engage: Soft Kill/ EW)</i>	PROJECT 3227: <i>SEWIP Block 2</i>
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
3227: <i>SEWIP Block 2</i>	49.999	65.848	43.894	-	43.894	30.362	3.323	0.965	0.901	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

The SEWIP Block 2 program is developing an upgraded antenna, receiver, and combat system interface for SLQ-32. The upgrades are necessary in order to pace the threat, improving detection, accuracy, and mitigation of EMI. Development of SEWIP Block 3 will commence to add Electronic Attack capability. FY12-FY16 SEWIP Block 3 RDT&E funding reports under a separate PU (3321), in PE 0604757N.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2010	FY 2011	FY 2012
Title: SEWIP Block 2	49.999	61.133	43.894
Articles:	0	0	0
FY 2010 Accomplishments: Commenced Engineering and Manufacturing Development (E&MD) of the SEWIP Block 2 system. Successfully achieved Block 2 Milestone B in May 2010.			
FY 2011 Plans: Continue E&MD of SEWIP Block 2. Commence integrated testing.			
FY 2012 Plans: Continue E&MD of SEWIP Block 2. Continue integrated testing.			
Title: SEWIP Block 3	-	4.715	-
Articles:		0	
FY 2011 Plans: Conduct Technology Development and testing in support of technology transition from Office Of Naval Research (ONR), including the TEWM.			
Accomplishments/Planned Programs Subtotals	49.999	65.848	43.894

C. Other Program Funding Summary (\$ in Millions)

<u>Line Item</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012 Base</u>	<u>FY 2012 OCO</u>	<u>FY 2012 Total</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• 0204228N/2312: <i>OPN BA-2 AN/ SLQ-32(V)</i>	31.171	49.677	43.096	0.000	43.096	95.151	220.722	272.913	453.344	Continuing	Continuing

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy	DATE: February 2011
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APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604757N: <i>Ship Self Def (Engage: Soft Kill/ EW)</i>	PROJECT 3227: <i>SEWIP Block 2</i>
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C. Other Program Funding Summary (\$ in Millions)

<u>Line Item</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u> <u>Base</u>	<u>FY 2012</u> <u>OCO</u>	<u>FY 2012</u> <u>Total</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• 24575N & 72827N/1C2C: <i>OMN</i> <i>BA-1 AN/SLQ-32(V)</i>	5.048	8.622	10.464	0.000	10.464	10.728	10.782	10.856	11.064	Continuing	Continuing

D. Acquisition Strategy

SEWIP will develop Block upgrades to SLQ-32 based on integrating technology advances and adding functional capabilities in an incremental fashion. Each Block and Sub-Block will be developed and contracted in an individual yet coordinated and overlapping fashion.

E. Performance Metrics

- Successfully achieve Block 2 MS C / LRIP DR.
- Successfully complete Block 2 Initial Operational Test & Evaluation (IOT&E).
- Successfully achieve Block 2 Full Rate Production (FRP) DR.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604757N: <i>Ship Self Def (Engage: Soft Kill/ EW)</i>	PROJECT 3227: <i>SEWIP Block 2</i>
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Product Development (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Block 2 E&MD	C/CPIF	Lockheed Martin:Syracuse, NY	27.935	38.612	Jan 2011	24.953	Nov 2011	-		24.953	Continuing	Continuing	Continuing
Block 2 Preliminary Development	C/CPIF	Lockheed Martin:Syracuse, NY	17.211	-		-		-		-	0.000	17.211	
Subtotal			45.146	38.612		24.953		-		24.953			

Support (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Block 2 Integrated Logistics Support	WR	NSWC Crane, DD, NRL, APL:Crane, IN; Dahlgren, VA; Washington DC; Laurel, MD	0.769	-		-		-		-	0.000	0.769	
Block 2 Integrated Logistics Support	WR	NSWC Crane:Crane, IN	-	0.865	Nov 2010	0.244	Nov 2011	-		0.244	Continuing	Continuing	Continuing
Block 2 Integrated Logistics Support	WR	NSWC Corona:Corona, CA	-	-	Nov 2010	0.098	Nov 2011	-		0.098	Continuing	Continuing	Continuing
Block 2 Government Engineering Support	WR	NSWC Crane, DD, NRL, APL:Crane, IN; Dahlgren, VA; Washington DC; Laurel, MD	12.214	-		-		-		-	0.000	12.214	
Block 2 Government Engineering Support	WR	NSWC Dahlgren:Dahlgren, VA	-	3.748	Nov 2010	1.388	Nov 2011	-		1.388	Continuing	Continuing	Continuing
Block 2 Government Engineering Support	WR	NSWC Crane:Crane, IN	-	1.629	Nov 2010	1.263	Nov 2011	-		1.263	Continuing	Continuing	Continuing
Block 2 Government Engineering Support	WR	NRL:Washington, DC	-	1.340	Nov 2010	1.394	Nov 2011	-		1.394	Continuing	Continuing	Continuing
Block 2 Government Engineering Support	WR	Navy Post Graduate School:Monterey, CA	-	0.500	Nov 2010	0.500	Nov 2011	-		0.500	Continuing	Continuing	Continuing

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604757N: <i>Ship Self Def (Engage: Soft Kill/ EW)</i>	PROJECT 3227: <i>SEWIP Block 2</i>
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Support (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Block 2 Government Engineering Support	FFRDC	APL:Laurel, MD	-	4.210	Nov 2010	1.203	Nov 2011	-		1.203	Continuing	Continuing	Continuing
Block 3 Integrated Logistics Support	WR	NSWC Dahlgren:Dahlgren, VA	-	0.150	Nov 2010	-		-		-	0.000	0.150	
Block 3 Integrated Logistics Support	WR	NSWC Crane:Crane, IN	-	0.160	Nov 2010	-		-		-	0.000	0.160	
Block 3 Integrated Logistics Support	WR	NRL:Washington, DC	-	0.100	Nov 2010	-		-		-	0.000	0.100	
Block 3 Integrated Logistics Support	FFRDC	APL:Laurel, MD	-	0.140	Nov 2010	-		-		-	0.000	0.140	
Block 3 Government Engineering Support	WR	NSWC Dahlgren:Dahlgren, VA	-	0.588	Nov 2010	-		-		-	0.000	0.588	
Block 3 Government Engineering Support	WR	NSWC Crane:Crane, IN	-	0.574	Nov 2010	-		-		-	0.000	0.574	
Block 3 Government Engineering Support	WR	NRL:Washington, DC	-	0.650	Nov 2010	-		-		-	0.000	0.650	
Block 3 Government Engineering Support	FFRDC	APL:Laurel, MD	-	0.423	Nov 2010	-		-		-	0.000	0.423	
Subtotal			12.983	15.077		6.090		-		6.090			

Test and Evaluation (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Block 2 Test Planning/T&E Events	WR	NSWC Crane, DD, NRL:Crane, IN; Dahlgren, VA; Washington DC;	1.582	-		-		-		-	0.000	1.582	
Block 2 Test Planning/T&E Events	WR	NSWC Crane:Crane, IN	-	0.986	Nov 2010	2.500	Nov 2011	-		2.500	Continuing	Continuing	Continuing
Block 2 Test Planning/T&E Events	WR	NSWC Dahlgren:Dahlgren, VA	-	3.719	Nov 2010	2.200	Nov 2011	-		2.200	Continuing	Continuing	Continuing

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604757N: <i>Ship Self Def (Engage: Soft Kill/ EW)</i>	PROJECT 3227: <i>SEWIP Block 2</i>
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Test and Evaluation (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	
Block 2 Test Planning/T&E Events	WR	NRL:Washington, DC	-	1.220	Nov 2010	2.800	Nov 2011	-		2.800	Continuing	Continuing	Continuing
Block 3 Test Planning/T&E Events	WR	NSWC Dahlgren:Dahlgren, VA	-	0.100	Nov 2010	-		-		-	0.000	0.100	
Block 3 Test Planning/T&E Events	WR	NSWC Crane:Crane, IN	-	0.080	Nov 2010	-		-		-	0.000	0.080	
Block 3 Test Planning/T&E Events	WR	NRL:Washington, DC	-	0.129	Nov 2010	-		-		-	0.000	0.129	
Subtotal			1.582	6.234		7.500		-		7.500			

Management Services (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	
Block 2 Program Management Support	C/CPIF	SPA (SEAPORT):Washington, DC	2.604	2.505	Nov 2010	2.240	Nov 2011	-		2.240	Continuing	Continuing	Continuing
Block 2 Program Management Support	WR	NSWC Crane, DD, PHD, NRL:Crane, IN; Dahlgren, VA; PHD CA; Washington DC;	15.069	-		-		-		-	0.000	15.069	
Block 2 Program Management Support	WR	NSWC Dahlgren:Dahlgren, VA	-	0.780	Nov 2010	1.115	Nov 2011	-		1.115	Continuing	Continuing	Continuing
Block 2 Program Management Support	WR	NSWC Crane:Crane, IN	-	0.421	Nov 2010	1.117	Nov 2011	-		1.117	Continuing	Continuing	Continuing
Block 2 Program Management Support	WR	NRL:Washington, DC	-	0.220	Nov 2010	0.779	Nov 2011	-		0.779	Continuing	Continuing	Continuing
Block 2 Program Management	WR	NSWC PHD:Port Hueneme, CA	-	0.228	Nov 2010	-		-		-	0.000	0.228	
Block 2 Travel	WR	NAVSEA Program Office Travel:Washington, DC	0.204	0.150	Nov 2010	0.100	Nov 2011	-		0.100	Continuing	Continuing	Continuing

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Navy		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604757N: <i>Ship Self Def (Engage: Soft Kill/</i> <i>EW)</i>	PROJECT 3227: <i>SEWIP Block 2</i>

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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Navy		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604757N: <i>Ship Self Def (Engage: Soft Kill/ EW)</i>	PROJECT 3227: <i>SEWIP Block 2</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Proj 3227</i>				
Block 2 MS B DR	2	2010	3	2010
Block 2 New Receiver/Antenna/Interface Development	1	2010	2	2014
Block 3 Electronic Attack	1	2011	4	2011
Block 2 FQT/OA	2	2011	2	2012
Block 2 MS C/LRIP DR	4	2012	4	2012
Block 2 Gov't LBT	2	2012	1	2013
Block 2 TECHEVAL	4	2013	4	2013
Block 2 IOT&E	1	2014	2	2014
Block 2 FRP DR	3	2014	3	2014

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604757N: <i>Ship Self Def (Engage: Soft Kill/ EW)</i>	PROJECT 3316: <i>Advanced Offboard EW</i>
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
3316: <i>Advanced Offboard EW</i>	-	-	22.967	-	22.967	23.544	32.057	71.025	72.314	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

Note

This project is a new start in FY 2012

A. Mission Description and Budget Item Justification

3316 - The objective of Advanced Offboard EW is to develop and evaluate long duration off-board decoys to counter identified EW gaps (additional details classified) in response to an urgent operational need from the fleet that has been approved by the CNO for execution. Currently no counter to the threat exists. The program consists of two efforts, a rapid response effort to provide an initial, limited interim, expendable decoy capability to the fleet by 2014 and a full scale development effort culminating in the delivery of fully supported, full capability system. The rapid response effort (FY12-FY13) consists of the evaluation of DLF-3 inflatable decoys. The full scale development effort (commencing in FY12) concerns the development and evaluation of Ship-launched Persistent Integrated Countermeasures for EW (SPICE) decoy utilizing a family of payloads types fully able of countering the threat.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2010	FY 2011	FY 2012
Title: Ship-launched Persistent Integrated Countermeasures for EW (SPICE) Articles:	-	-	10.700 0
FY 2012 Plans: Commence development of long duration, EW off-board decoy and payloads.			
Title: DLF-3 Articles:	-	-	12.267 0
FY 2012 Plans: Commence integration and evaluation of DLF-3.			
Accomplishments/Planned Programs Subtotals	-	-	22.967

C. Other Program Funding Summary (\$ in Millions)

N/A

D. Acquisition Strategy

The Advanced Offboard EW Program (SPICE and DLF-3) will be competitively contracted and developed, and builds on technologies and concepts currently in development by ONR.

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604757N: <i>Ship Self Def (Engage: Soft Kill/ EW)</i>	PROJECT 3316: <i>Advanced Offboard EW</i>

E. Performance Metrics

Successfully complete Analysis of Alternatives for SPICE and successfully complete integration of DLF-3

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604757N: <i>Ship Self Def (Engage: Soft Kill/ EW)</i>	PROJECT 3316: <i>Advanced Offboard EW</i>
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Product Development (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Technology Studies	WR	Performing Activity:TBD	-	-		3.200	Feb 2012	-		3.200	Continuing	Continuing	Continuing
System Design Specification	WR	Performing Activity:TBD	-	-		1.800	Dec 2011	-		1.800	Continuing	Continuing	Continuing
Technology Development Task	WR	Performing Activity:TBD	-	-		3.000	Apr 2012	-		3.000	Continuing	Continuing	Continuing
Primary Hardware Development	C/CPIF	TBD:Not Specified	-	-		10.267	Apr 2012	-		10.267	0.000	10.267	
Subtotal			-	-		18.267		-		18.267			

Remarks

This is a new program beginning in FY12. Contract Type and Performing Activity for Prime Contractor are TBD.

Support (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Government Engineering Support	WR	NSWC/Crane:Crane, IN	-	-		0.200	Nov 2011	-		0.200	Continuing	Continuing	Continuing
Government Engineering Support	WR	NRL:Washington, DC	-	-		0.500	Nov 2011	-		0.500	Continuing	Continuing	Continuing
Government Engineering Support	WR	NSWC Dahlgren:Dahlgren, VA	-	-		0.500	Nov 2011	-		0.500	Continuing	Continuing	Continuing
Development Support	WR	NRL:Washington, DC	-	-		1.800	Nov 2011	-		1.800	0.000	1.800	
Subtotal			-	-		3.000		-		3.000			

Test and Evaluation (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Test Planning	WR	NRL:Washington, DC	-	-		0.400	Nov 2011	-		0.400	Continuing	Continuing	Continuing
Test and Evaluation Plan	WR	NSWC/ Dahlgren:Dahlgren, VA	-	-		0.100	Feb 2012	-		0.100	Continuing	Continuing	Continuing

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Navy		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604757N: <i>Ship Self Def (Engage: Soft Kill/ EW)</i>	PROJECT 3316: <i>Advanced Offboard EW</i>

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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Navy		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604757N: <i>Ship Self Def (Engage: Soft Kill/ EW)</i>	PROJECT 3316: <i>Advanced Offboard EW</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Proj 3316</i>				
DLF-3 Integration	1	2012	4	2012
SPICE Analysis of Alternatives	1	2012	3	2013
SPICE System Development	1	2012	4	2016
DLF-3 Test	1	2013	3	2013
SPICE Integration	1	2014	4	2016

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604757N: <i>Ship Self Def (Engage: Soft Kill/ EW)</i>	PROJECT 3321: <i>SEWIP Block 3</i>
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
3321: <i>SEWIP Block 3</i>	-	-	95.276	-	95.276	103.974	124.244	44.352	45.180	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

SEWIP Block 3 will continue to expand the integrated shipboard combat system by providing a new integrated Electronic Attack (EA) transmitter, array, and associated EA techniques to enhance surface EW capability for legacy and new-construction platforms. EA capability enhancements are required in order to pace the anti-ship missile threat. SEWIP Block 3 will leverage the transition technology demonstrated by ONR's INTOP program. The program builds on the EW Support (ES) capability delivered by SEWIP Blocks 1 and 2.

SEWIP Block 3 also includes the modification, ruggedization, and evaluation of the Naval Research Lab (NRL) developed Transportable EW Module (TEWM) system. This program answers an urgent operational need for the Fleet to provide an initial, limited interim capability by 2014.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2010	FY 2011	FY 2012
Title: SEWIP Block 3 ADM design FY 2012 Plans: Non-recurring Hardware Design of the INTOP ADM	-	-	14.224 0
Title: SEWIP Block 3 ADM hardware & software FY 2012 Plans: Hardware and Software prototyping of the INTOP ADM, including Design, Code, and Unit Test	-	-	12.780 0
Title: SEWIP Block 3 ADM Integration and Test FY 2012 Plans: SEWIP Block 3 INTOP ADM Integration and Test	-	-	13.225 0
Title: SEWIP Block 3 Acquisition Management & Planning FY 2012 Plans: MS B preparation; including System Engineering, Technology Readiness Assessment (TRA), and acquisition documentation	-	-	23.047 0
Title: TEWM Development	-	-	25.910

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604757N: <i>Ship Self Def (Engage: Soft Kill/ EW)</i>	PROJECT 3321: <i>SEWIP Block 3</i>
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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
Articles:			0
FY 2012 Plans: Continue development of modifications to the TEWM system.			
Title: TEWM Test Planning	-	-	0.480
Articles:			0
FY 2012 Plans: Commencement of TEWM test planning and coordination			
Title: TEWM Test Assets	-	-	4.250
Articles:			0
FY 2012 Plans: TEWM Simulator and Radar test platform support.			
Title: TEWM Development & Management Support	-	-	1.360
Articles:			0
FY 2012 Plans: TEWM Development and Program Management Support.			
Accomplishments/Planned Programs Subtotals	-	-	95.276

C. Other Program Funding Summary (\$ in Millions)

<u>Line Item</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u> <u>Base</u>	<u>FY 2012</u> <u>OCO</u>	<u>FY 2012</u> <u>Total</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• 0204228N/2312: AN/SLQ-32	31.171	49.677	43.096	0.000	43.096	95.151	220.722	272.913	455.744	Continuing	Continuing

D. Acquisition Strategy

SEWIP will develop block upgrades to SLQ-32 based on integrating technology advances and adding functional capabilities in an incremental fashion. Each block and sub-block will be developed and contracted in an individual yet coordinated and overlapping fashion. Specifically, SEWIP Block 3 involves the transitioning and leveraging work performed under the INTOP program sponsored by ONR, which focused on designing/architecting an integrated EA, IO, and LOS Comms system for Naval Surface Platforms. SEWIP Block 3 also leverages work performed under the TEWM program that is sponsored by NRL that focuses on analysis technique development and active engagement analysis/modeling for Naval surface combatants

E. Performance Metrics

Successfully achieve Block 3 Milestone B.

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604757N: <i>Ship Self Def (Engage: Soft Kill/ EW)</i>	PROJECT 3321: <i>SEWIP Block 3</i>
Successfully achieve Block 3 MS C / LRIP DR. Successfully complete TEWM modifications Successfully complete TEWM integration and testing		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604757N: <i>Ship Self Def (Engage: Soft Kill/ EW)</i>	PROJECT 3321: <i>SEWIP Block 3</i>
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Product Development (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Block 3 Technology Demonstration	C/CPIF	Northrop Grumman; Raytheon:Eagan, MN; Raytheon, CA	-	-		40.429	Nov 2011	-		40.429	Continuing	Continuing	Continuing
TEWM Primary Hardware Development	TBD	TBD:TBD	-	-		25.910	Feb 2012	-		25.910	0.000	25.910	
Subtotal			-	-		66.339		-		66.339			

Remarks
TEWM is a new development effort beginning in FY12. Contract Type and Performing Activity for Prime Contractor is TBD.

Support (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Block 3 Integrated Logistics Support	WR	NSWC Dahlgren:Dahlgren, VA	-	-		-		-		-	Continuing	Continuing	Continuing
Block 3 Integrated Logistics Support	WR	NSWC Crane:Crane, IN	-	-		2.188	Nov 2011	-		2.188	Continuing	Continuing	Continuing
Block 3 Integrated Logistics Support	WR	NRL:Washington, DC	-	-		-		-		-	Continuing	Continuing	Continuing
Block 3 Integrated Logistics Support	FFRDC	APL:Laurel, MD	-	-		-		-		-	Continuing	Continuing	Continuing
Block 3 Government Engineering Support	WR	NSWC Dahlgren:Dahlgren, VA	-	-		2.523	Nov 2011	-		2.523	Continuing	Continuing	Continuing
Block 3 Government Engineering Support	WR	NSWC Crane:Crane, IN	-	-		0.922	Nov 2011	-		0.922	Continuing	Continuing	Continuing
Block 3 Government Engineering Support	WR	NRL:Washington, DC	-	-		4.605	Nov 2011	-		4.605	Continuing	Continuing	Continuing
Block 3 Government Engineering Support	WR	NSWC PHD:Port Hueneme, CA	-	-		-		-		-	Continuing	Continuing	Continuing
Block 3 Government Engineering Support	FFRDC	APL:Laurel, MD	-	-		2.608	Nov 2011	-		2.608	Continuing	Continuing	Continuing

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604757N: <i>Ship Self Def (Engage: Soft Kill/ EW)</i>	PROJECT 3321: <i>SEWIP Block 3</i>
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Support (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
TEWM Development Support	WR	NRL:Washington, DC	-	-		1.260	Nov 2011	-		1.260	0.000	1.260	
Subtotal			-	-		14.106		-		14.106			

Test and Evaluation (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Block 3 Test Planning/T&E Events	WR	NSWC Dahlgren:Dahlgren, VA	-	-		1.433	Nov 2011	-		1.433	Continuing	Continuing	Continuing
Block 3 Test Planning/T&E Events	WR	NSWC Crane:Crane, IN	-	-		0.874	Nov 2011	-		0.874	Continuing	Continuing	Continuing
Block 3 Test Planning/T&E Events	WR	NRL:Washington, DC	-	-		2.099	Nov 2011	-		2.099	Continuing	Continuing	Continuing
TEWM Test Planning	WR	NRL:Washington, DC	-	-		0.480	Nov 2011	-		0.480	0.000	0.480	
TEWM Test Assets	TBD	TBD:TBD	-	-		4.250	Feb 2012	-		4.250	0.000	4.250	
Subtotal			-	-		9.136		-		9.136			

Remarks
TEWM is a new development effort beginning in FY12. Contract Type and Performing Activity for test assets are TBD.

Management Services (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Block 3 Program Management Support	C/CPIF	SPA (SEAPORT):Washington, DC	-	-		2.112	Nov 2011	-		2.112	Continuing	Continuing	Continuing
Block 3 Program Management Support	WR	NSWC Dahlgren:Dahlgren, VA	-	-		1.120	Nov 2011	-		1.120	Continuing	Continuing	Continuing
Block 3 Program Management Support	WR	NSWC Crane:Crane, IN	-	-		1.128	Nov 2011	-		1.128	Continuing	Continuing	Continuing

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Navy		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604757N: <i>Ship Self Def (Engage: Soft Kill/ EW)</i>	PROJECT 3321: <i>SEWIP Block 3</i>

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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Navy **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604757N: <i>Ship Self Def (Engage: Soft Kill/ EW)</i>	PROJECT 3321: <i>SEWIP Block 3</i>
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Proj 3321</i>				
Block 3 Technology Demonstration	1	2012	4	2012
Block 3 Engineering and Manufacturing Development (E&MD)	1	2013	2	2016
TEWM Modification	1	2012	1	2014
Block 3 MS B DR	1	2013	1	2013
TEWM Modification Test	3	2013	1	2014
TEWM Integration Test	4	2013	4	2014
Block 3 Integrated Testing	3	2015	4	2016
Block 3 Operational Assessment	4	2015	4	2015
Block 3 MS C/LRIP DR	1	2016	1	2016