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Exhibit R-2, RDT&E Budget Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0604757N / <i>Ship Self Def (Engage: Soft Kill/EW)</i>
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COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
Total Program Element	1,040.028	107.319	105.416	114.211	-	114.211	120.446	142.509	142.737	145.758	Continuing	Continuing
0954: <i>Shipboard EW Improvement Program</i>	465.509	8.698	10.691	13.322	-	13.322	15.596	15.945	16.023	16.363	Continuing	Continuing
2190: <i>NULKA Decoy</i>	59.047	4.635	1.860	1.934	-	1.934	2.156	7.118	7.261	7.407	Continuing	Continuing
3227: <i>SEWIP Block 2</i>	222.056	0.395	0.412	0.315	-	0.315	0.426	0.439	0.450	0.459	Continuing	Continuing
3316: <i>Advanced Offboard EW</i>	71.261	35.586	32.393	36.080	-	36.080	65.201	81.610	80.856	82.527	Continuing	Continuing
3321.: <i>SEWIP Block 3</i>	222.155	58.005	60.060	62.560	-	62.560	37.067	37.397	38.147	39.002	Continuing	Continuing

Program MDAP/MAIS Code: 582

A. Mission Description and Budget Item Justification

0954 - The Surface Electronic Warfare Improvement Program (SEWIP) Block 1 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 situational awareness. The SEWIP Block 1 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 counter the ASMD threat. SEWIP Block 1 will provide required EW capabilities and will incorporate technology advances as they become available to provide incremental upgrades and improvements in performance.

The growth between FY 2016 and FY 2017 is attributable to increased software development efforts required for RCIP #4 software builds.

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. Future efforts involve development of the capability for high value unit protection.

3227 - SEWIP Block 2 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 Electromagnetic Interference (EMI).

3316 - The Advanced Offboard EW (AOEW) program is for the development of long duration off-board decoys integrated with onboard systems for EW coordination 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 a Rapid Response Effort (RRE) and provides an initial, limited decoy capability to the Fleet and a Decoy Development Effort (DDE) which will culminate in the delivery of a fully supported, full capability system. The RRE consists of the evaluation and integration

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of commercially available decoys. The DDE consists of the development and evaluation of a long duration, active electronic offboard decoy system (payload only) integrated on an existing flight vehicle and an onboard/offboard EW coordinator fully able to counter the threat.

DDE Preliminary Design contract will be competed and contractor name and location will be added upon contract award in 3rd QTR FY16. The FY17 increased Product Development funding and requirements is attributable to the program entering E&MD in FY17.

3321 - SEWIP Block 3 is developing an Electronic Attack (EA) capability improvement required for the AN/SLQ-32(V) system to keep pace with the threat. SEWIP Block 3 is developing a common EA capability to all surface combatants (CVN, CG, DDG, LHD) outfitted with the active variant of the AN/SLQ-32, mainly the (V)3 and (V)4, as well as select new-construction platforms.

The increase in SEWIP Block 3 Development in FY17 is due to commencement of EDM build and integration, using the material purchased in FY16, commencement of test planning for FQT and OA testing, and full hardware/software integration and testing of the EDMs.

The SEWIP Block 3 Acquisition leverages technology developed under the Office of Naval Research's (ONR) Integrated Topside (InTop) Science and Technology (S&T) effort. 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. The program builds on the EW Support (ES) capability delivered by SEWIP Blocks 1 and 2. SEWIP Block 3 includes a government software development effort for a SoftKill Coordinator (SKC) to manage EA engagements. SEWIP Block 3 is developing an EW testbed to validate system performance.

SEWIP Block 3 developed and deployed a limited interim capability, starting in 2014, of a focused application of the Naval Research Lab (NRL) Transportable EW Module (TEWM) systems to support CNO Urgent Operational Needs (UON). Block 3T (AN/SLQ-59) is the TEWM system supporting the 7th fleet UON. TEWM Speed to Fleet (STF) (AN/SLQ-62) is the TEWM system supporting the 6th fleet UON.

B. Program Change Summary (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Previous President's Budget	116.904	116.798	132.627	-	132.627
Current President's Budget	107.319	105.416	114.211	-	114.211
Total Adjustments	-9.585	-11.382	-18.416	-	-18.416
• Congressional General Reductions	-	-0.063			
• Congressional Directed Reductions	-	-11.319			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-6.600	0.000			
• SBIR/STTR Transfer	-2.986	0.000			
• Program Adjustments	0.000	0.000	-15.182	-	-15.182
• Rate/Misc Adjustments	0.001	0.000	-3.234	-	-3.234

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<u>Change Summary Explanation</u> FY 2015 funding request includes reductions as a result of SBIR/STTR transfer of \$2.986 million, a reprogramming action of \$6.6 million in support of a department high priority classified effort, and \$0.001 million for Rate/Misc adjustments. FY 2016 funding request reflects a congressional reduction of \$11.319 million as a result of execution delays. FY 2017 funding request reflect decreases of \$4.930 million in order for the Department of the Navy to comply with the Bipartisan Budget Act of 2015, \$10.752 million to account for the availability of prior year funds, \$3.234 million for Rate/Misc adjustments. FY 2017 also reflect an increase of \$0.500 million in support of Speed-to-Fleet (S2F) initiative for Transportable Electronic Warfare Module.		

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy										Date: February 2016		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW)				Project (Number/Name) 0954 / Shipboard EW Improvement Program			
COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
0954: Shipboard EW Improvement Program	465.509	8.698	10.691	13.322	-	13.322	15.596	15.945	16.023	16.363	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

SEWIP Block 1 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. SEWIP Block 1 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 counter the ASMD threat. SEWIP Block 1 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 Electronic Warfare Support (ES) controls and data between AN/SLQ-32 and the ALQ-210 on the MH60R. EW RCIP identifies joint force ASM capability gaps by analyzing EW baseline and fleet requirements, prioritizes those gaps based on fleet input and critical technology maturity, and develops upgrades to the AN/SLQ-32(V) product line for fielding to address those gaps. EW RCIP will identify and select candidate technologies based on technical maturity and ability to meet the gaps within programmatic (lifecycle cost, schedule, risk) constraints.

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

	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Title: Block 1B3	0.600	0.000	0.000	0.000	0.000
Articles:	-	-	-	-	-
FY 2015 Accomplishments:					
- Analyzed and corrected deficiencies.					
FY 2016 Plans:					
- N/A					
FY 2017 Base Plans:					
- N/A					
FY 2017 OCO Plans:					

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Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604757N / <i>Ship Self Def (Engage: Soft Kill/EW)</i>	Project (Number/Name) 0954 / <i>Shipboard EW Improvement Program</i>

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
- N/A					
Title: EW RCIP <p align="right">Articles:</p>	8.098	10.691	13.322	0.000	13.322
<p>FY 2015 Accomplishments:</p> <ul style="list-style-type: none"> - Performed RCIP #2 Testing and Software Certification for HGHS threat libraries. - Continued RCIP #3 contract to ensure scalability of the SEWIP system to address the self-defense gap on additional platforms. - Initiated RCIP #4 joint contractor /government effort to integrate SEWIP capabilities into Aegis Baseline 9.C2 to address the Aegis platform gaps for automatic and semi-automatic engagements using NULKA decoys; commenced actions to address classification and tracking gaps through software changes and certification activities. - Initiated investigation of EW cost saving improvement initiatives to reduce life-cycle costs. - Initiated investigations of algorithm development of enhanced processing techniques improvement to SEWIP emitter processing. - Identified additional EW technology shortfalls based on the current and emerging ASM threats and fleet requirements, Solicited industry, University Affiliate Research Centers, and government activities for technical solutions; Evaluated and selected RCIP technology candidates; Evaluated RCIP technologies production readiness. <p>FY 2016 Plans:</p> <ul style="list-style-type: none"> - Continue to investigate and finalize EW cost saving improvement initiatives to reduce life-cycle costs. - Deliver the RCIP #2 HGHS software/firmware upgraded loads using load and threat libraries. - Continue RCIP #3 contract to ensure scalability of the SEWIP system to address the self-defense gap on additional platforms. - Continue RCIP #4 Aegis Baseline 9.C2 Soft Kill Coordinator Subsystem (SKCS) integration efforts to address platform gaps for automatic and semi-automatic engagements using NULKA decoys and to perform radar cued engagements for increased performance in the SLQ-32(V)6 Electronic Warfare systems; Initiate and complete software development and system integration and testing activities for software build 1 in accordance with approved critical design; Initiate software development and system integration and testing activities for software build 2 in accordance with approved critical design; achieve technology improvements for classification and tracking gaps. - Identify Electro Optics/Infrared (EO/IR) EW capability gaps and develop EO/IR requirements. 	-	-	-	-	-

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

	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
<ul style="list-style-type: none"> - Continue investigations of algorithm development of enhanced processing techniques improvement to SEWIP emitter processing. - Award RCIP #5 to initiate improvements to increase EW Tactical Simulation capabilities to address advanced threats in the fleet environment. - Identify additional EW technology shortfalls based on the current and emerging ASM threats and fleet requirements, Solicit industry, University Affiliate Research Centers, and government activities for technical solutions; Evaluate and select RCIP technology candidates; Evaluate RCIP technologies production readiness. <p>FY 2017 Base Plans:</p> <ul style="list-style-type: none"> - Complete RCIP #3 contract to ensure scalability of the SEWIP system to address the self-defense gap on additional platforms. - Continue RCIP #4 Aegis Baseline 9.C2 Soft Kill Coordinator Subsystem (SKCS) integration efforts to address platform gaps for automatic and semi-automatic Soft Kill engagements using NULKA decoys and to perform radar cued engagements for increased performance in the SLQ-32(V)6 Electronic Warfare systems; Complete software development and system integration and testing activities for software build 2 in accordance with approved critical design; Initiate software development and system integration and testing activities for software build 3 in accordance with approved critical design; Define interface requirements and perform requirements analysis for software build 4. Assess gaps and identify additional techniques and tactics to employ Soft Kill Coordinator. - Continue to address Electro Optics/Infrared (EO/IR) EW capability gaps by further defining top-level requirement specifications. - Continue RCIP #5 improvements to increase EW Tactical Simulation capabilities to address advanced threats in the fleet environment. - Identify additional EW technology shortfalls based on the current and emerging ASM threats and fleet requirements, Solicit industry, University Affiliate Research Centers, and government activities for technical solutions; Evaluate and select RCIP technology candidates; Evaluate RCIP technologies production readiness. <p>FY 2017 OCO Plans:</p> <ul style="list-style-type: none"> - N/A 					
Accomplishments/Planned Programs Subtotals	8.698	10.691	13.322	0.000	13.322

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

Line Item	FY 2015	FY 2016	FY 2017	FY 2017	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Cost To	
			Base	OCO	Total					Complete	Total Cost
• 0204228N/2312: OPN BA-2 AN/SLQ-32(V)	195.082	296.271	274.892	-	274.892	318.819	379.231	511.281	767.214	Continuing	Continuing
• 24575N & 72827N/1C2C: OMN BA-1 AN/SLQ-32(V)	6.991	7.113	7.727	-	7.727	7.891	8.006	8.180	8.345	Continuing	Continuing

Remarks

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 1B3 Milestone C / Low Rate Initial Production (LRIP) Decision Review (DR).
 Successfully complete Block 1B3 Initial Operational Test & Evaluation (IOT&E).
 Successfully achieve Block 1B3 Full Rate Production (FRP) DR.

Successfully identify RCIP capabilities.
 Successfully identify and assess RCIP Science & Technology candidates.
 Award development contract for RCIP #1.
 Successfully demonstrate and validate RCIP capabilities.
 Award development contract for RCIP #2.
 Award development contract for RCIP #3.
 Award development contract for RCIP #4.
 Award development contract for RCIP #5.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Navy **Date:** February 2016

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Product Development (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Ancillary Hardware Development	Various	Various : Various	151.420	0.000		0.000		0.000		-		0.000	0.000	151.420	-
ESE Development	SS/CPFF	Northrop Grumman : Goleta, CA	13.037	0.000		0.000		0.000		-		0.000	0.000	13.037	-
ICAD Development	SS/CPFF	GD-AIS : Fairfax, VA	11.747	0.000		0.000		0.000		-		0.000	0.000	11.747	-
ESE Development (Block 1A)	SS/CPFF	Northrop Grumman : Goleta, CA	0.471	0.000		0.000		0.000		-		0.000	0.000	0.471	-
System Integrator	C/CPAF	GD-AIS : Fairfax, VA	13.798	0.000		0.000		0.000		-		0.000	0.000	13.798	-
1B Development	SS/CPIF	GD-AIS : Fairfax, VA	86.292	0.000		0.000		0.000		-		0.000	0.000	86.292	-
Q-70 Mods	C/CPFF	LM-EAGAN : Eagan, MN	3.491	0.000		0.000		0.000		-		0.000	0.000	3.491	-
Block 2 Study/ Development	C/CPIF	BAE : Nashua, NH	0.336	0.000		0.000		0.000		-		0.000	0.000	0.336	-
ALQ210 Integration	WR	NSWC Dahlgren : Dahlgren, VA	10.345	0.000		0.000		0.000		-		0.000	0.000	10.345	-
Rapid Capability Insertion Process (RCIP) #1	C/CPIF	Lockheed Martin : Syracuse, NY	2.000	0.000		0.000		0.000		-		0.000	0.000	2.000	-
RCIP #1	WR	NSWC Dahlgren : Dahlgren, VA	0.650	0.000		0.000		0.000		-		0.000	0.000	0.650	-
RCIP #2	SS/CPFF	Northrop Grumman : Goleta, CA	2.514	0.000		0.000		0.000		-		0.000	0.000	2.514	-
RCIP #2	SS/FFP	GD-AIS : Fairfax, VA	0.734	0.000		0.000		0.000		-		0.000	0.000	0.734	-
RCIP #3	SS/CPFF	EWA-GSI : Fairmont, WV	1.978	0.000		0.000		0.000		-		0.000	0.000	1.978	-
RCIP #3	WR	ONR/ACI : Washington, DC	1.530	1.600	Feb 2015	0.250	Jan 2016	0.250	Nov 2016	-		0.250	0.000	3.630	-
RCIP #4	SS/CPFF	APL : Laurel, MD	0.000	0.398	Aug 2015	0.500	Feb 2016	1.400	Feb 2017	-		1.400	0.000	2.298	-
RCIP #4	WR	NSWC Dahlgren : Dahlgren, VA	0.000	0.000		2.620	Mar 2016	4.000	Mar 2017	-		4.000	0.000	6.620	-
RCIP #5	WR	NSWC Dahlgren : Dahlgren, VA	0.000	0.000		1.275	Mar 2016	1.029	Apr 2017	-		1.029	0.000	2.304	-

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Product Development (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Subtotal			300.343	1.998		4.645		6.679		-		6.679	0.000	313.665	-

Remarks
The growth between FY 2016 and FY 2017 in Product Development is attributable to increased software development efforts required for RCIP #4 software builds.

Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Block 1 Integrated Logistics Support	WR	NSWC Crane, DD, NRL, APL : Crane, IN; Dahlgren, VA; Washington, DC; Laurel, MD	9.912	0.000		0.000		0.000		-		0.000	0.000	9.912	-
Block 1 Integrated Logistics Support	WR	NSWC Crane : Crane, IN	3.418	0.000		0.000		0.000		-		0.000	0.000	3.418	-
Block 1 Integrated Logistics Support	WR	NSWC DD : Dahlgren, VA	0.293	0.000		0.000		0.000		-		0.000	0.000	0.293	-
Block 1 Government Engineering Support	WR	NSWC Crane, DD, NRL, APL : Crane, IN; Dahlgren, VA; Washington, DC; Laurel, MD	34.783	0.000		0.000		0.000		-		0.000	0.000	34.783	-
Block 1 Government Engineering Support	WR	NSWC Dahlgren : Dahlgren, VA	3.448	1.279	Oct 2014	1.100	Jan 2016	1.408	Nov 2016	-		1.408	Continuing	Continuing	Continuing
Block 1 Government Engineering Support	WR	NSWC Crane : Crane, IN	3.227	1.374	Nov 2014	0.433	Jan 2016	1.411	Nov 2016	-		1.411	Continuing	Continuing	Continuing
Block 1 Government Engineering Support	WR	NRL : Washington, DC	2.133	0.192	Nov 2014	0.950	Jan 2016	0.965	Nov 2016	-		0.965	Continuing	Continuing	Continuing
Block 1 Government Engineering Support	SS/CPFF	APL : Laurel, MD	1.684	0.493	Feb 2015	0.166	Jan 2016	0.620	Nov 2016	-		0.620	0.000	2.963	-
Block 1 Government Engineering Support	WR	SWRMC : San Diego, CA	0.000	0.200	Feb 2015	0.000		0.000		-		0.000	0.000	0.200	-

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Appropriation/Budget Activity 1319 / 5						R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW)					Project (Number/Name) 0954 / Shipboard EW Improvement Program				

Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Block 1 Government Engineering Support	WR	MIT : Hanscom AFB, MA	0.000	0.456	Jul 2015	0.060	Jan 2016	0.000		-		0.000	0.000	0.516	-
Block 1 Government Engineering Support	WR	MITRE : Aberdeen Proving Ground, MD	0.000	0.083	Jul 2015	0.444	Jan 2016	0.000		-		0.000	0.000	0.527	-
Block 1 Government Engineering Support	WR	NUWC Keyport : Keyport, WA	0.000	0.040	Sep 2015	0.284	Jan 2016	0.000		-		0.000	0.000	0.324	-
Block 1 SIPRNET Access	WR	ARL : Adelphi, MD	0.092	0.000		0.000		0.000		-		0.000	0.000	0.092	-
Block 1B3 Install on test ship	WR	NSSA Norfolk : Norfolk, VA	0.857	0.000		0.000		0.000		-		0.000	0.000	0.857	-
Block 1B3 Integration	WR	Lockheed Martin : Syracuse, NY	1.000	0.000		0.000		0.000		-		0.000	0.000	1.000	-
Subtotal			60.847	4.117		3.437		4.404		-		4.404	-	-	-

Remarks
The growth between FY 2016 and FY 2017 in Support is attributable to increased Government Engineering Support requirements for the RCIP #4 software builds.

Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Block 1 Integration and Test	WR	NSWC Crane, DD, NRL : Crane, IN; Dahlgren, VA; Washington, DC	0.853	0.000		0.000		0.000		-		0.000	0.000	0.853	-
Developmental Test & Evaluation	Various	Various : Various	8.958	0.000		0.000		0.000		-		0.000	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		0.000		0.000		-		0.000	0.000	11.036	-
Block 1B Test Planning/ T&E Events	WR	NSWC Crane, DD, NRL, NAVAIR, OPTEVFOR, NSWC	9.567	0.000		0.000		0.000		-		0.000	0.000	9.567	-

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Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
1319 / 5				PE 0604757N / Ship Self Def (Engage: Soft Kill/EW)				0954 / Shipboard EW Improvement Program							
Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
		PHD : Crane, IN; Dahlgren, VA; Washington, DC; MD; CA													
Block 1B Test Planning/T&E Events	WR	NSWC Dahlgren : Dahlgren, VA	3.231	0.000		0.000		0.000		-		0.000	0.000	3.231	-
Block 1B Test Planning/T&E Events	WR	NSWC Crane : Crane, IN	3.026	0.000		0.000		0.000		-		0.000	0.000	3.026	-
Block 1B Test Planning/T&E Events	WR	NRL : Washington, DC	5.365	0.000		0.000		0.000		-		0.000	0.000	5.365	-
Block 1B Test Planning/T&E Events	WR	OPTEVFOR : Norfolk, VA	0.376	0.236	Nov 2014	0.000		0.000		-		0.000	0.000	0.612	-
Block 1B Test Planning/T&E Events	WR	JITC : Indian Head, MD	0.288	0.000		0.000		0.000		-		0.000	0.000	0.288	-
(V)4 ESE Test Planning/T&E Events	WR	NSWC Crane, DD, NRL : Crane, IN; Dahlgren, VA; Washington, DC	0.686	0.000		0.000		0.000		-		0.000	0.000	0.686	-
(V)4 ESE Test Planning/T&E Events	WR	NSWC Dahlgren : Dahlgren, VA	0.609	0.000		0.000		0.000		-		0.000	0.000	0.609	-
(V)4 ESE Test Planning/T&E Events	WR	NSWC Crane : Crane, IN	1.153	0.000		0.000		0.000		-		0.000	0.000	1.153	-
(V)4 ESE Test Planning/T&E Events	WR	NRL : Washington, DC	1.808	0.000		0.000		0.000		-		0.000	0.000	1.808	-
(V)4 ESE Test Planning/T&E Events	WR	OPTEVFOR : Norfolk, VA	0.192	0.000		0.000		0.000		-		0.000	0.000	0.192	-
RCIP Test Planning/T&E Events	WR	NSWC Dahlgren : Dahlgren, VA	1.052	0.350	Oct 2014	0.100	Jan 2016	0.455	Nov 2016	-		0.455	Continuing	Continuing	Continuing
RCIP Test Planning/T&E Events	WR	NSWC Crane : Crane, IN	0.546	0.343	Nov 2014	0.000		0.460	Nov 2016	-		0.460	Continuing	Continuing	Continuing
RCIP Test Planning/T&E Events	WR	NRL : Washington, DC	0.541	0.388	Nov 2014	0.800	Jan 2016	0.110	Nov 2016	-		0.110	Continuing	Continuing	Continuing

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Navy											Date: February 2016				
Appropriation/Budget Activity 1319 / 5				R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW)				Project (Number/Name) 0954 / Shipboard EW Improvement Program							

Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
RCIP Test Planning/T&E Events	SS/CPFF	APL : Laurel, MD	0.000	0.000		0.100	Jan 2016	0.105	Nov 2016	-		0.105	Continuing	Continuing	Continuing
Subtotal			49.287	1.317		1.000		1.130		-		1.130	-	-	-

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 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Block 1 Program Management Support	C/CPFF	SPA (SEAPORT) : Washington, D.C.	32.702	0.000		0.000		0.000		-		0.000	0.000	32.702	-
Block 1 Program Management Support	C/CPFF	TMB (SEAPORT) : Washington, D.C.	0.000	0.113	Aug 2015	0.503	Feb 2016	0.455	Nov 2016	-		0.455	Continuing	Continuing	Continuing
Block 1 Program Management Support	SS/CPFF	SPA : Washington, D.C.	0.000	0.000		1.066	Feb 2016	0.000		-		0.000	0.000	1.066	-
Block 1 Program Management Support	TBD	TBD : TBD	0.000	0.000		0.000		0.616	Nov 2016	-		0.616	Continuing	Continuing	Continuing
Block 1 Program Management Support	WR	NSWC Crane, DD, NRL : Crane, IN; Dahlgren, VA; Washington, DC	17.310	0.000		0.000		0.000		-		0.000	0.000	17.310	-
Block 1 Program Management Support	WR	NSWC Crane : Crane, IN	1.055	0.581	Nov 2014	0.000		0.000		-		0.000	0.000	1.636	-
Block 1 Program Management Support	WR	NSWC Dahlgren : Dahlgren, VA	1.236	0.426	Oct 2014	0.000		0.000		-		0.000	0.000	1.662	-
Block 1 Program Management Support	WR	NRL : Washington, DC	0.977	0.000		0.000		0.000		-		0.000	0.000	0.977	-
Block 1 Program Management Support	SS/CPFF	APL : Laurel, MD	0.431	0.096	Feb 2015	0.000		0.000		-		0.000	0.000	0.527	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Navy											Date: February 2016				
Appropriation/Budget Activity 1319 / 5						R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW)					Project (Number/Name) 0954 / Shipboard EW Improvement Program				

Management Services (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Block 1 Travel	WR	NAVSEA Program Office Travel : Washington, DC	1.195	0.050	Oct 2014	0.040	Jan 2016	0.038	Nov 2016	-		0.038	Continuing	Continuing	Continuing
Block 1 DoD Acquisition Workforce Fund	Various	Various : Various	0.126	0.000		0.000		0.000		-		0.000	0.000	0.126	-
Subtotal			55.032	1.266		1.609		1.109		-		1.109	-	-	-

Remarks
The TBD for Program Management Support will be competitively awarded in November 2016.

	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	465.509	8.698	10.691	13.322	-	13.322	-	-	-

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2017 Navy **Date:** February 2016

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW)	Project (Number/Name) 0954 / Shipboard EW Improvement Program
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Fiscal Year	2015				2016				2017				2018				2019				2020				2021				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Acquisition Milestones			▲	Block 1B3 LRIP #2 DR				△	Block 1B3 FRP DR																				
Development	EW Rapid Capability Insertion Process (RCIP)																												
Test and Evaluation																													
Milestones																													
Development Test																													
Operational Test																													

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Exhibit R-4A, RDT&E Schedule Details: PB 2017 Navy		Date: February 2016
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604757N / <i>Ship Self Def (Engage: Soft Kill/EW)</i>	Project (Number/Name) 0954 / <i>Shipboard EW Improvement Program</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Proj 0954</i>				
EW Rapid Capability Insertion Process (RCIP)	1	2015	4	2021
Block 1B3 LRIP #2 DR	3	2015	3	2015
Block 1B3 FRP DR	4	2016	4	2016

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy **Date:** February 2016

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW)	Project (Number/Name) 2190 / NULKA Decoy
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COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
2190: NULKA Decoy	59.047	4.635	1.860	1.934	-	1.934	2.156	7.118	7.261	7.407	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

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 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
<p>Title: NULKA Decoy Subsystem</p> <p align="right">Articles:</p> <p>FY 2015 Accomplishments: - Continued NULKA decoy subsystem integration and improvements to include Effectiveness Studies, Engineering Studies, and Fly Out Tactics.</p> <p>FY 2016 Plans: - Continue NULKA decoy subsystem integration and improvements to include Effectiveness Studies, Engineering Studies, and Fly Out Tactics.</p> <p>FY 2017 Base Plans: - Continue NULKA decoy subsystem integration and improvements to include Effectiveness Studies, Engineering Studies, and Fly Out Tactics.</p> <p>FY 2017 OCO Plans: - N/A</p>	2.757	1.860	1.934	0.000	1.934
<p>Title: CVN AT-SEA TEST</p> <p align="right">Articles:</p> <p>FY 2015 Accomplishments: - N/A</p> <p>FY 2016 Plans:</p>	1.878	0.000	0.000	0.000	0.000

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy **Date:** February 2016

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604757N / <i>Ship Self Def (Engage: Soft Kill/EW)</i>	Project (Number/Name) 2190 / <i>NULKA Decoy</i>
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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
- Conduct At-Sea test of NULKA CVN capabilities.					
<i>FY 2017 Base Plans:</i> - N/A					
<i>FY 2017 OCO Plans:</i> - N/A					
Accomplishments/Planned Programs Subtotals	4.635	1.860	1.934	0.000	1.934

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017 Base</u>	<u>FY 2017 OCO</u>	<u>FY 2017 Total</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• OPN/5231: <i>Ship Missile Support Equipment</i>	35.756	57.791	62.792	-	62.792	80.739	62.163	61.615	62.897	Continuing	Continuing
• OMN/12CR0 (1C2C): <i>Nulka</i>	5.212	7.323	5.864	-	5.864	5.995	6.228	6.362	6.503	Continuing	Continuing

Remarks

D. Acquisition Strategy

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

E. Performance Metrics

Successfully complete first-of-class testing of MK 53 DLS upgrade for CVN.

Successfully complete Element Certification Decoy Launch Processor (DLP) software version 6_5 for the CVN 68 ship class.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Navy												Date: February 2016			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
1319 / 5				PE 0604757N / Ship Self Def (Engage: Soft Kill/EW)				2190 / NULKA Decoy							
Product Development (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	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	6.692	0.000		0.000		0.000		-		0.000	0.000	6.692	-
Primary Hardware Development	MIPR	BAE Systems : Australia	7.382	0.000		0.000		0.000		-		0.000	0.000	7.382	-
Systems Engineering	WR	NRL : Washington, DC	18.157	0.722	Nov 2014	0.799	Jan 2016	0.401	Nov 2016	-		0.401	Continuing	Continuing	Continuing
Systems Engineering	WR	NWAD : China Lake, CA	0.120	0.000		0.000		0.000		-		0.000	0.000	0.120	-
MK 53 System Eng Changes	C/FFP	Sechan : PA	0.150	0.000		0.000		0.000		-		0.000	0.000	0.150	-
Systems Engineering	WR	NSWC Dahlgren : Dahlgren, VA	8.307	1.100	Nov 2014	0.859	Jan 2016	1.282	Nov 2016	-		1.282	Continuing	Continuing	Continuing
Systems Engineering	WR	NSMA : VA	0.360	0.000		0.000		0.000		-		0.000	0.000	0.360	-
Systems Engineering	WR	NSWC Crane : IN	6.061	0.520	Nov 2014	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Subtotal			47.229	2.342		1.658		1.683		-		1.683	-	-	-
Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	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	1.514	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Software Development	WR	NSWC Dahlgren : Dahlgren, VA	2.908	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Software Development	MIPR	BAE Systems : Australia	1.009	0.000		0.000		0.000		-		0.000	0.000	1.009	-
Subtotal			5.431	0.000		0.000		0.000		-		0.000	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Navy **Date:** February 2016

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW)	Project (Number/Name) 2190 / NULKA Decoy
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Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Developmental Test & Evaluation	WR	NSWC Dahlgren : Dahlgren, VA	0.700	0.575	Nov 2014	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Developmental Test & Evaluation	WR	NRL : Washington, DC	1.181	0.500	Nov 2014	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Test Assets	WR	NRL : Washington, DC	0.701	0.803	Nov 2014	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Test Support	WR	OPTEVFOR : Norfolk, VA	0.050	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Test Support	WR	BAE Systems : Australia	0.050	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Subtotal			2.682	1.878		0.000		0.000		-		0.000	-	-	-

Management Services (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Program Management Support	C/CPIF	SPA (SEAPORT) : Washington, DC	1.694	0.320	Feb 2015	0.000		0.000		-		0.000	0.000	2.014	Continuing
Program Management Support	SS/CPIF	SPA : Washington, DC	0.000	0.000		0.094	Feb 2016	0.000		-		0.000	0.000	0.094	-
Program Management Support	C/FFP	AT&T Gov't Solutions (SEAPORT) : : Washington, DC	1.147	0.000		0.000		0.000		-		0.000	0.000	1.147	-
Program Management Support	C/CPIF	Gryphon Technology (SEAPORT) : Washington, DC	0.226	0.000		0.000		0.000		-		0.000	0.000	0.226	-
Program Management Support	C/CPIF	ICI (SEAPORT) : Washington, DC	0.000	0.060	Feb 2015	0.026	Feb 2016	0.035	Nov 2016	-		0.035	0.000	0.121	-
Program Management Support	C/CPIF	TMB (SEAPORT) : Washington, DC	0.000	0.000		0.067	Feb 2016	0.086	Nov 2016	-		0.086	0.000	0.153	-
Program Management Support	TBD	TBD : TBD	0.000	0.000		0.000		0.120	Nov 2016	-		0.120	0.000	0.120	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Navy **Date:** February 2016

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW)	Project (Number/Name) 2190 / NULKA Decoy
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Management Services (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Travel	WR	NAVSEA Program Office Travel : Washington, DC	0.623	0.035	Feb 2015	0.015	Jan 2016	0.010	Nov 2016	-		0.010	Continuing	Continuing	Continuing
DoD Acquisition Workforce Fund (DAWDF)	Various	Various : Various	0.015	0.000		0.000		0.000		-		0.000	0.000	0.015	-
Subtotal			3.705	0.415		0.202		0.251		-		0.251	-	-	-

Remarks
The TBD for Program Management Support will be competitively awarded in November 2016.

	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	59.047	4.635	1.860	1.934	-	1.934	-	-	-

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2017 Navy																Date: February 2016							
Appropriation/Budget Activity 1319 / 5										R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW)						Project (Number/Name) 2190 / NULKA Decoy							

Fiscal Year	2015				2016				2017				2018				2019				2020				2021				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
System Development	EFFECTIVENESS STUDIES, ENGINEERING STUDIES, AND FLY OUT TACTICS																												
Production Milestones																													
Test & Evaluation Milestones																													
Development Test			▲																										
Operational Test						▲																							

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Exhibit R-4A, RDT&E Schedule Details: PB 2017 Navy		Date: February 2016
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604757N / <i>Ship Self Def (Engage: Soft Kill/EW)</i>	Project (Number/Name) 2190 / <i>NULKA Decoy</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 2190				
EFFECTIVENESS STUDIES, ENGINEERING STUDIES, AND FLY OUT TACTICS	1	2015	4	2021
LHA 6 INSTALL CERTIFICATION	3	2015	3	2015
CVN CLASS DT	1	2016	1	2016

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy **Date:** February 2016

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW)	Project (Number/Name) 3227 / SEWIP Block 2
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COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
3227: SEWIP Block 2	222.056	0.395	0.412	0.315	-	0.315	0.426	0.439	0.450	0.459	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

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.

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

	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Title: SEWIP Block 2	0.395	0.412	0.315	0.000	0.315
Articles:	-	-	-	-	-
FY 2015 Accomplishments: - Analyzed and corrected deficiencies.					
FY 2016 Plans: - Continue analysis and make recommendations for corrections of deficiencies.					
FY 2017 Base Plans: - Continue analysis and make recommendations for corrections of deficiencies.					
FY 2017 OCO Plans: - N/A					
Accomplishments/Planned Programs Subtotals					0.315

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

Line Item	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
• 0204228N/2312: OPN BA-2 AN/SLQ-32(V)	195.082	296.271	274.892	-	274.892	318.819	379.231	511.281	767.214	Continuing	Continuing
• 0204575N/1C2C: OMN BA-1 AN/SLQ-32(V)6	5.447	6.373	11.667	-	11.667	11.927	12.200	12.466	12.691	Continuing	Continuing

Remarks

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy		Date: February 2016
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW)	Project (Number/Name) 3227 / SEWIP Block 2

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 2017 Navy **Date:** February 2016

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW)	Project (Number/Name) 3227 / SEWIP Block 2
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Product Development (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Block 2 E&MD	C/CPIF	Lockheed Martin : Syracuse, NY	107.833	0.000		0.000		0.000		-		0.000	0.000	107.833	-
Block 2 Preliminary Development	C/CPIF	Lockheed Martin : Syracuse, NY	17.211	0.000		0.000		0.000		-		0.000	0.000	17.211	-
Block 2 SEWTT Development	SS/CPFF	EWA-GSI : Fairmont, WV	1.432	0.000		0.000		0.000		-		0.000	0.000	1.432	-
Block 2 SEWTT Development	WR	NSWC Crane : Crane, IN	0.047	0.000		0.000		0.000		-		0.000	0.000	0.047	-
Subtotal			126.523	0.000		0.000		0.000		-		0.000	0.000	126.523	-

Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Block 2 Integrated Logistics Support	WR	NSWC Crane, DD, NRL, APL : Crane, IN; Dahlgren, VA; Washington DC; Laurel, MD	1.309	0.000		0.000		0.000		-		0.000	0.000	1.309	-
Block 2 Integrated Logistics Support	WR	NSWC Crane : Crane, IN	4.246	0.000		0.000		0.000		-		0.000	0.000	4.246	-
Block 2 Government Engineering Support	WR	NSWC Crane, DD, NRL, APL : Crane, IN; Dahlgren, VA; Washington DC; Laurel, MD	14.710	0.000		0.000		0.000		-		0.000	0.000	14.710	-
Block 2 Government Engineering Support	WR	NSWC Dahlgren : Dahlgren, VA	11.883	0.153	Dec 2014	0.000		0.000		-		0.000	0.000	12.036	-
Block 2 Government Engineering Support	WR	NSWC Crane : Crane, IN	6.372	0.000		0.000		0.000		-		0.000	0.000	6.372	-
Block 2 Government Engineering Support	WR	NRL : Washington, DC	4.314	0.000		0.000		0.000		-		0.000	0.000	4.314	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Navy **Date:** February 2016

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW)	Project (Number/Name) 3227 / SEWIP Block 2
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Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Block 2 Government Engineering Support	SS/CPFF	APL : Laurel, MD	5.348	0.000		0.412	Jan 2016	0.315	Nov 2016	-		0.315	Continuing	Continuing	Continuing
Block 2 - Combat System Integration	SS/CPFF	Raytheon : San Diego, CA	0.250	0.000		0.000		0.000		-		0.000	0.000	0.250	-
Block 2 - MSMO Cost	WR	NSSA Norfolk : Norfolk, VA	1.431	0.000		0.000		0.000		-		0.000	0.000	1.431	-
Block 2 - Mast Study	WR	SUPSHIP : Bath, ME	0.033	0.000		0.000		0.000		-		0.000	0.000	0.033	-
Block 2 - Fleet Support	WR	NSSA SURFLANT : Norfolk, VA	0.030	0.000		0.000		0.000		-		0.000	0.000	0.030	-
Block 2 - Range Cost	WR	NUWC NEWPORT : Newport, RI	0.018	0.000		0.000		0.000		-		0.000	0.000	0.018	-
Subtotal			49.944	0.153		0.412		0.315		-		0.315	-	-	-

Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Block 2 Test Planning/T&E Events	WR	NSWC Crane, DD, NRL : Crane, IN; Dahlgren, VA; Washington DC;	2.523	0.000		0.000		0.000		-		0.000	0.000	2.523	-
Block 2 Test Planning/T&E Events	WR	NSWC Crane : Crane, IN	4.772	0.000		0.000		0.000		-		0.000	0.000	4.772	-
Block 2 Test Planning/T&E Events	WR	NSWC Dahlgren : Dahlgren, VA	4.094	0.209	Dec 2014	0.000		0.000		-		0.000	0.000	4.303	-
Block 2 Test Planning/T&E Events	WR	NRL : Washington, DC	5.521	0.000		0.000		0.000		-		0.000	0.000	5.521	-
Block 2 Test Planning/T&E Events	WR	Surface Combat Systems Center : Wallops Island, VA	0.662	0.000		0.000		0.000		-		0.000	0.000	0.662	-
Subtotal			17.572	0.209		0.000		0.000		-		0.000	0.000	17.781	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Navy **Date:** February 2016

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW)	Project (Number/Name) 3227 / SEWIP Block 2
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Management Services (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Block 2 Program Management Support	C/CPIF	SPA (SEAPORT) : Washington, DC	5.568	0.000		0.000		0.000		-		0.000	0.000	5.568	-
Block 2 Program Management Support	WR	NSWC Crane, DD, PHD, NRL : Crane, IN; Dahlgren, VA; PHD CA; Washington DC;	15.892	0.000		0.000		0.000		-		0.000	0.000	15.892	-
Block 2 Program Management Support	WR	NSWC Dahlgren : Dahlgren, VA	1.596	0.000		0.000		0.000		-		0.000	0.000	1.596	-
Block 2 Program Management Support	WR	NSWC Crane : Crane, IN	1.331	0.000		0.000		0.000		-		0.000	0.000	1.331	-
Block 2 Program Management Support	WR	NRL : Washington, DC	0.627	0.000		0.000		0.000		-		0.000	0.000	0.627	-
Block 2 Program Management Support	MIPR	Navy Post Graduate School : Monterey, CA	0.174	0.000		0.000		0.000		-		0.000	0.000	0.174	-
Block 2 Program Management Support	SS/CPFF	APL : Laurel, MD	1.962	0.000		0.000		0.000		-		0.000	0.000	1.962	-
Block 2 Program Management	WR	NSWC PHD : Port Hueneme, CA	0.091	0.000		0.000		0.000		-		0.000	0.000	0.091	-
Block 2 Travel	WR	NAVSEA Program Office Travel : Washington, DC	0.639	0.033	Oct 2014	0.000		0.000		-		0.000	0.000	0.672	-
Block 2 DoD Acquisition Workforce Fund	Various	Various : Various	0.137	0.000		0.000		0.000		-		0.000	0.000	0.137	-
Subtotal			28.017	0.033		0.000		0.000		-		0.000	0.000	28.050	-

Project Cost Totals	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
	222.056	0.395	0.412	0.315	-	0.315	-	-	-

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2017 Navy **Date:** February 2016

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW)	Project (Number/Name) 3227 / SEWIP Block 2
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Fiscal Year	2015				2016				2017				2018				2019				2020				2021							
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Acquisition Milestones			▲					△																								
	Block 2 LRIP #2 DR				Block 2 FRP DR																											
Block 2 Development																																
Block 2 Test and Evaluation Milestones																																
Development Test																																
Operational Test																																

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Exhibit R-4A, RDT&E Schedule Details: PB 2017 Navy		Date: February 2016
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604757N / <i>Ship Self Def (Engage: Soft Kill/EW)</i>	Project (Number/Name) 3227 / <i>SEWIP Block 2</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 3227				
Block 2 LRIP #2 DR	3	2015	3	2015
Block 2 FRP DR	4	2016	4	2016

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy										Date: February 2016		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW)				Project (Number/Name) 3316 / Advanced Offboard EW			
COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
3316: <i>Advanced Offboard EW</i>	71.261	35.586	32.393	36.080	-	36.080	65.201	81.610	80.856	82.527	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

3316 - The Advanced Offboard EW (AOEW) program is for the development of long duration off-board decoys integrated with onboard systems for EW coordination 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 a Rapid Response Effort (RRE) and a Decoy Development Effort (DDE) culminating in the delivery of a fully supported, full capability system. The RRE consists of the evaluation and integration of commercially available decoys. The DDE consists of the development and evaluation of a long duration, active electronic offboard decoy system (payload only) integrated on an existing flight vehicle and an onboard/offboard EW coordinator fully able to counter the threat.

In FY15 and FY16 AOEW includes a government software development effort to integrate AOEW into the Softkill Coordinator (SKC) to gain maximum effectiveness from the AOEW decoy through coordination with on board systems.

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

	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Title: AOEW - Decoy Development Effort (DDE)	31.458	32.393	36.080	0.000	36.080
Articles:	-	-	-	-	-
FY 2015 Accomplishments:					
- Completed development of concepts of operation					
- Continued interoperability analysis					
- Commenced tactics analysis and development					
- Continued acquisition documentation development					
FY 2016 Plans:					
- Award competitive development contract for decoy Preliminary Design/Engineering & Manufacturing Development (E&MD)					
- Commence AOEW SKC development					
- Commence AOEW integration					
- Continue interoperability analysis					
- Continue tactics analysis and development					
- Conduct System Requirements Review					
- Conduct Integrated Baseline Review					

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy		Date: February 2016
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW)	Project (Number/Name) 3316 / Advanced Offboard EW

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
- Conduct System Functional Review FY 2017 Base Plans: - Complete AOEW Preliminary Design - Continue AOEW SKC development - Conduct Preliminary Design Review - Conduct Critical Design Review FY 2017 OCO Plans: N/A					
Title: AOEW - Rapid Response Effort (RRE) FY 2015 Accomplishments: - Commenced RRE testing FY 2016 Plans: - Complete RRE testing FY 2017 Base Plans: N/A FY 2017 OCO Plans: N/A	0.730 <i>Articles:</i> -	0.000 -	0.000 -	0.000 -	0.000 -
Title: EW Urgent Operational Needs (UONs) FY 2015 Accomplishments: - Completed test of modified MK59 - Commenced modifications to MK59 Decoys (12) - Commenced SLQ-62 modifications and testing FY 2016 Plans: - Complete SLQ-62 modifications and testing FY 2017 Base Plans:	3.398 <i>Articles:</i> -	0.000 -	0.000 -	0.000 -	0.000 -

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy **Date:** February 2016

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604757N / <i>Ship Self Def (Engage: Soft Kill/EW)</i>	Project (Number/Name) 3316 / <i>Advanced Offboard EW</i>
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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
N/A					
FY 2017 OCO Plans: N/A					
Accomplishments/Planned Programs Subtotals	35.586	32.393	36.080	0.000	36.080

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

<u>Line Item</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017 Base</u>	<u>FY 2017 OCO</u>	<u>FY 2017 Total</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• OPN/5231: <i>Ship Missile Support Equipment</i>	35.756	57.791	62.792	-	62.792	80.739	62.163	61.615	62.897	Continuing	Continuing

Remarks

D. Acquisition Strategy
The AOEW DDE decoy is being competitively contracted and developed, and builds on technologies and concepts currently in development by ONR. For RRE, commercially available decoys were procured for evaluation, integration and testing.

E. Performance Metrics

For DDE:

- Complete Analysis of Alternatives.
- Complete systems requirements definition.
- Achieve Milestone (MS) B
- Award Preliminary Design/E&MD contract.
- Conduct System Requirements Review (SRR)
- Conduct System Functional Review (SFR)
- Conduct Preliminary Design Review (PDR)
- Conduct Critical Design Review (CDR)
- Confirm Operational Affectiveness (OA)
- Achieve Milestone (MS) C
- Conduct Initial Operational Test and Evaluation (IOT&E)

For RRE:

- Complete evaluation and integration.

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy		Date: February 2016
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604757N / <i>Ship Self Def (Engage: Soft Kill/EW)</i>	Project (Number/Name) 3316 / <i>Advanced Offboard EW</i>

Complete testing of commercially available decoys.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Navy **Date:** February 2016

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW)	Project (Number/Name) 3316 / Advanced Offboard EW
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Product Development (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Analysis of Alternatives	WR	CNA : Alexandria, VA	1.300	0.000		0.000		0.000		-		0.000	0.000	1.300	Continuing
Concept Analysis and Integration Assessment	SS/CPFF	APL : Laurel, MD	4.585	3.173	Feb 2015	1.000	Jan 2016	1.080	Nov 2016	-		1.080	Continuing	Continuing	Continuing
Concept Analysis and Technology Studies	WR	MIT-LL : Boston, MA	1.607	0.973	Feb 2015	0.500	Jan 2016	0.170	Nov 2016	-		0.170	Continuing	Continuing	Continuing
Concept Development and Technology Studies	WR	NRL : Washington, D.C.	14.214	8.089	Oct 2014	2.483	Jan 2016	2.469	Nov 2016	-		2.469	Continuing	Continuing	Continuing
Technology Development and Systems Requirements	WR	NSWC Dahlgren : Dahlgren, VA	1.827	8.639	Oct 2014	4.393	Jan 2016	3.560	Nov 2016	-		3.560	Continuing	Continuing	Continuing
Systems Requirements and Integration Studies	WR	NSWC Crane : Crane, IN	2.233	0.000		0.000		0.000		-		0.000	0.000	2.233	Continuing
Concept Development and Technology Studies	WR	NAVAIR : Patuxent River, MD	0.740	0.000		3.039	Jan 2016	2.206	Nov 2016	-		2.206	Continuing	Continuing	Continuing
RRE Hardware Development	C/CPFF	Airborne Systems : UK	7.400	0.964	Jul 2015	0.000		0.000		-		0.000	0.000	8.364	Continuing
DDE Preliminary Design/ E&MD	C/CPFF	TBD : Not specified	0.000	0.000		10.796	Jun 2016	15.482	Nov 2016	-		15.482	Continuing	Continuing	Continuing
Ship Integration	TBD	TBD : Not specified	0.000	1.497	Dec 2015	0.600	Mar 2016	0.696	Nov 2016	-		0.696	0.000	2.793	-
Subtotal			33.906	23.335		22.811		25.663		-		25.663	-	-	-

Remarks
DDE Preliminary Design contract will be competed and contractor name and location will be added upon contract award in 3rd QTR FY16. The FY17 increased Product Development funding and requirements is attributable to the program entering E&MD in FY17.

Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Government Development Support	WR	NRL : Washington, DC	5.727	1.237	Oct 2014	1.157	Jan 2016	1.250	Nov 2016	-		1.250	Continuing	Continuing	Continuing

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Navy												Date: February 2016			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
1319 / 5				PE 0604757N / Ship Self Def (Engage: Soft Kill/EW)				3316 / Advanced Offboard EW							
Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Government Development and Engineering Support	WR	NSWC Dahlgren : Dahlgren, VA	4.088	2.456	Oct 2014	2.037	Jan 2016	2.199	Nov 2016	-		2.199	Continuing	Continuing	Continuing
Government Engineering Support	WR	NSWC Crane : Crane, IN	5.072	1.594	Oct 2014	1.664	Jan 2016	1.796	Nov 2016	-		1.796	Continuing	Continuing	Continuing
Government Engineering Support	WR	NSWC Carderock : Bethesda, MD	0.495	0.121	Feb 2015	0.150	Jan 2016	0.162	Nov 2016	-		0.162	Continuing	Continuing	Continuing
Systems Engineering Support	SS/CPFF	APL : Laurel, MD	0.501	0.250	Feb 2015	0.500	Jan 2016	0.540	Nov 2016	-		0.540	Continuing	Continuing	Continuing
Government Development Support	WR	NAVAIR : Patuxent River, MD	1.421	0.588	Oct 2014	0.716	Jan 2016	0.773	Nov 2016	-		0.773	Continuing	Continuing	Continuing
Logistics/Training	C/CPFF	Pioneering Evolution : Arlington, VA	0.166	0.000		0.000		0.000		-		0.000	0.000	0.166	-
RRE Installation	WR	Planning Yard : Yokosuka, Japan	0.034	0.000		0.000		0.000		-		0.000	0.000	0.034	-
RRE Installation	SS/CPFF	Planning Yard : Bath, ME	4.254	0.000		0.000		0.000		-		0.000	0.000	4.254	-
EW UON	WR	Cherry Point Army : Aberdeen Proving Ground, MD	0.022	0.000		0.000		0.000		-		0.000	0.000	0.022	-
EW UON	WR	Cherry Point Navy : Cherry Point, NC	0.148	0.000		0.000		0.000		-		0.000	0.000	0.148	-
EW UON	WR	NSWC Indian Head : Indian Head, MD	0.050	0.000		0.000		0.000		-		0.000	0.000	0.050	-
EW UON	WR	NSSA Norfolk : Norfolk, VA	0.070	0.000		0.000		0.000		-		0.000	0.000	0.070	-
RRE Installation	WR	Norfolk Naval Shipyard : Norfolk, VA	2.064	0.000		0.000		0.000		-		0.000	0.000	2.064	-
RRE Installation	WR	Det-Naples : Naples, Italy	0.500	0.000		0.000		0.000		-		0.000	0.000	0.500	-
Logistics/Training	SS/CPFF	EWA : Fairmont, WV	0.000	0.767	Sep 2015	0.000		0.000		-		0.000	0.000	0.767	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Navy **Date:** February 2016

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW)	Project (Number/Name) 3316 / Advanced Offboard EW
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Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Subtotal			24.612	7.013		6.224		6.720		-		6.720	-	-	-

Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Test Planning and Development Testing	WR	NRL : Washington, DC	1.588	1.573	Oct 2014	0.658	Jan 2016	0.511	Nov 2016	-		0.511	Continuing	Continuing	Continuing
Test Planning and Development Testing	WR	NSWC/Dahlgren : Dahlgren, VA	1.412	0.417	Oct 2014	0.150	Jan 2016	0.168	Nov 2016	-		0.168	Continuing	Continuing	Continuing
Test Planning and Development Testing	WR	NSWC Crane : Crane, IN	0.458	0.480	Oct 2014	0.150	Jan 2016	0.162	Nov 2016	-		0.162	Continuing	Continuing	Continuing
Test Planning and Development Testing	WR	NAVAIR : Patuxent River, MD	0.000	0.038	Oct 2014	0.500	Jan 2016	0.540	Nov 2016	-		0.540	Continuing	Continuing	Continuing
Test Planning and Development Testing	WR	OPTEVFOR : Norfolk, VA	0.169	0.050	Jul 2015	0.330	Jan 2016	0.356	Nov 2016	-		0.356	Continuing	Continuing	Continuing
Test and Evaluation	WR	Navy Post Graduate School : Monterey, CA	0.090	0.000		0.000		0.000		-		0.000	0.000	0.090	-
EW UON Test and Evaluation	C/FPAF	SRF Rota : Rota, Spain	1.728	0.000		0.000		0.000		-		0.000	0.000	1.728	-
EW UON Test and Evaluation	WR	NSSA Norfolk : Norfolk, VA	0.018	0.000		0.000		0.000		-		0.000	0.000	0.018	-
EW UON Test and Evaluation	WR	SUPSHIP Bath : Bath, ME	1.166	0.000		0.000		0.000		-		0.000	0.000	1.166	-
Subtotal			6.629	2.558		1.788		1.737		-		1.737	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Navy											Date: February 2016				
Appropriation/Budget Activity 1319 / 5						R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW)					Project (Number/Name) 3316 / Advanced Offboard EW				

Management Services (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	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	6.041	1.825	Feb 2015	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Program Management Support	SS/CPIF	SPA : Washington, DC	0.000	0.000		0.750	Feb 2016	0.000		-		0.000	0.000	0.750	-
Program Management Support	C/CPIF	TMB (SEAPORT) : Washington, DC	0.000	0.455	May 2015	0.600	Feb 2016	0.756	Nov 2016	-		0.756	0.000	1.811	-
Program Management Support	C/CPIF	CACI (SEAPORT) : Washington, DC	0.000	0.065	Jun 2015	0.150	Feb 2016	0.189	Nov 2016	-		0.189	0.000	0.404	-
Program Management Support	C/CPFF	CSC (SEAPORT) : Washington, DC	0.000	0.315	Apr 2015	0.000		0.000		-		0.000	0.000	0.315	-
Program Management Support	TBD	TBD : TBD	0.000	0.000		0.000		0.945	Nov 2016	-		0.945	0.000	0.945	-
Travel	WR	NAVSEA Program Office Travel : Washington, DC	0.073	0.020	Feb 2015	0.070	Jan 2016	0.070	Nov 2016	-		0.070	Continuing	Continuing	Continuing
Subtotal			6.114	2.680		1.570		1.960		-		1.960	-	-	-

Remarks
The TBD for Program Management Support will be competitively awarded in November 2016.

	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	71.261	35.586	32.393	36.080	-	36.080	-	-	-

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2017 Navy		Date: February 2016
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW)	Project (Number/Name) 3316 / Advanced Offboard EW

Fiscal Year	2015				2016				2017				2018				2019				2020				2021			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Acquisition Milestones (TBD)							△ MSB												△ MS C/LRIP DR									
Development									DDE Preliminary Design								DDE/Engineering and Manufacturing Development (E&MD)											
											△ SRR/SFR			△ PDR	△ CDR													
Test & Evaluation Development Test																												
	RRE Test																											

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Exhibit R-4A, RDT&E Schedule Details: PB 2017 Navy		Date: February 2016
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604757N / <i>Ship Self Def (Engage: Soft Kill/EW)</i>	Project (Number/Name) 3316 / <i>Advanced Offboard EW</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 3316				
RRE Test	1	2015	2	2016
Milestone (MS) B	3	2016	3	2016
DDE Preliminary Design	3	2016	3	2017
System Requirements Review (SRR) / System Functional Review (SFR)	4	2016	4	2016
Preliminary Design Review (PDR)	2	2017	2	2017
DDE / E&MD	3	2017	1	2020
Critical Design Review (CDR)	4	2017	4	2017
DDE Test and Certification	1	2018	1	2019
Operational Assessment (OA)	1	2019	1	2019
Milestone (MS) C / LRIP DR	3	2019	3	2019
Initial Operational Test and Evaluation (IOT&E)	3	2020	3	2020

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy										Date: February 2016		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW)				Project (Number/Name) 3321. / SEWIP Block 3			
COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
3321.: SEWIP Block 3	222.155	58.005	60.060	62.560	-	62.560	37.067	37.397	38.147	39.002	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

SEWIP Block 3 is developing an Electronic Attack (EA) capability improvement required for the AN/SLQ-32(V) system to keep pace with the threat. SEWIP Block 3 is developing a common EA capability to all surface combatants (CVN, CG, DDG, LHD) outfitted with the active variant of the AN/SLQ-32, mainly the (V)3 and (V)4, as well as select new-construction platforms.

The SEWIP Block 3 Acquisition leverages technology developed under the Office of Naval Research's (ONR) Integrated Topside (InTop) Science and Technology (S&T) effort. 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. The program builds on the EW Support (ES) capability delivered by SEWIP Blocks 1 and 2. SEWIP Block 3 includes a government software development effort for a SoftKill Coordinator (SKC) to manage EA engagements. SEWIP Block 3 is developing an EW testbed to validate system performance.

SEWIP Block 3 developed and deployed a limited interim capability, starting in 2014, of a focused application of the Naval Research Lab (NRL) Transportable EW Module (TEWM) systems to support CNO Urgent Operational Needs (UON). Block 3T (AN/SLQ-59) is the TEWM system supporting the 7th fleet UON. TEWM Speed to Fleet (STF) (AN/SLQ-62) is the TEWM system supporting the 6th fleet UON.

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

	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Title: SEWIP Block 3 Government Engineering	31.344	21.389	20.460	0.000	20.460
Articles:	-	-	-	-	-
FY 2015 Accomplishments:					
- Awarded Preliminary Design contract.					
- Conducted Integrated Baseline Review (IBR) for Preliminary Design.					
- Supported System Functional Review (SFR) and System Requirements Review (SRR).					
- Supported Preliminary Design Review (PDR).					
- Exercised Engineering and Manufacturing Development (E&MD) option.					
- Commenced EW testbed model development.					
- Supported integrated topside design activities with multiple ship classes.					
- Supported integration activities to ensure compatibility with AEGIS and SSDS Combat Systems.					
- Continued system engineering.					
- Developed end-to-end SKC model for EW testbed.					

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy		Date: February 2016
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604757N / <i>Ship Self Def (Engage: Soft Kill/EW)</i>	Project (Number/Name) 3321. / <i>SEWIP Block 3</i>

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

	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
<ul style="list-style-type: none"> - Continued SKC software development for radar cued engagements. - Conducted SKC subsystem PDR. - Conducted SKC subsystem Critical Design Review (CDR). - Commenced SKC integration activities with AEGIS ACB-16 Combat System. <p>FY 2016 Plans:</p> <ul style="list-style-type: none"> - Complete Preliminary Design. - Support CDR. - Conduct IBR for E&MD. - Continue EW testbed model development and verification/validation of model performance. - Continue systems engineering activities for detailed design. - Continue integrated topside design activities with multiple ship classes. - Support integration activities to ensure compatibility with AEGIS and SSDS Combat Systems. - Commence SKC software development for EA functionality. - Continue SKC integration activities with AEGIS ACB-16 Combat System. - Complete SKC software development for radar cued engagements. <p>FY 2017 Base Plans:</p> <ul style="list-style-type: none"> - Support and oversee Engineering Development Model (EDM) development and integration. - Commence Milestone C acquisition documentation preparation. - Perform test planning for Formal Qualification Testing (FQT), Operational Assessment (OA), Block 3 Stand-Alone Operation, and Threat Engagements. - Perform test facilities planning at Chesapeake Beach Detachment (CBD) and Wallops Island. - Implement test facilities infrastructure improvements (power handling upgrades, cooling infrastructure, antenna mounting platform, cabling, connections, security fencing) - Develop and procure special test equipment (Combat Electromagnetic Environment Simulator, Techniques Generator, command and control test trailer, and referee receiver) - Continue EW testbed model development and verification/validation of model performance. - Continue integrated topside design activities with multiple ship classes. - Perform development and procurement of test assets for Initial Operational Test and Evaluation (IOT&E). - Support integration activities to ensure compatibility with AEGIS and SSDS Combat Systems. - Deliver SKC code to Block 3 system integrator in support of FQT. - Continue SKC integration activities with AEGIS ACB-16. - Continue SKC software development for EA functionality. 					

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy			Date: February 2016		
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW)	Project (Number/Name) 3321. / SEWIP Block 3			
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)					
	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
- Support LRIP LLM authorization.					
FY 2017 OCO Plans:					
- N/A					
Title: SEWIP Block 3 Development	18.341	38.671	41.600	0.000	41.600
Articles:	-	-	-	-	-
FY 2015 Accomplishments:					
- Commenced Preliminary Design.					
- Supported IBR for Preliminary Design.					
- Conducted SFR and SRR.					
- Conducted PDR.					
- Commenced E&MD.					
- Commenced integrated topside design activities with multiple ship classes.					
- Commenced integration activities to ensure compatibility with AEGIS and SSDS Combat Systems.					
FY 2016 Plans:					
- Complete Preliminary Design					
- Continue E&MD					
- Conduct CDR.					
- Support IBR for E&MD.					
- Continue integrated topside design activities with multiple ship classes.					
- Continue integration activities to ensure compatibility with AEGIS and SSDS Combat Systems.					
FY 2017 Base Plans:					
- Continue E&MD.					
- Commence EDM build and integration.					
- Commence test planning for FQT and OA.					
- Continue integrated topside design activities with multiple ship classes.					
- Continue integration activities to ensure compatibility with AEGIS and SSDS Combat Systems.					
- Commence SEWTT development.					
FY 2017 OCO Plans:					
- N/A					
Title: SEWIP Block 3T (AN/SLQ-59) Systems Engineering	7.000	0.000	0.000	0.000	0.000

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy		Date: February 2016
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW)	Project (Number/Name) 3321. / SEWIP Block 3

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
<p align="right">Articles:</p> <p>FY 2015 Accomplishments: - Completed systems engineering and technical support for the installation, verification, and checkout of two Block 3T prototype systems.</p> <p>FY 2016 Plans: - N/A</p> <p>FY 2017 Base Plans: - N/A.</p> <p>FY 2017 OCO Plans: - N/A</p>	-	-	-	-	-
<p>Title: TEWM Speed To Fleet (STF) (AN/SLQ-62) Development</p> <p align="right">Articles:</p> <p>FY 2015 Accomplishments: - Completed development of the TEWM STF system.</p> <p>FY 2016 Plans: - N/A</p> <p>FY 2017 Base Plans: - Complete development of TEWM Speed To Fleet (STF) (AN/SLQ-62) upgrade.</p> <p>FY 2017 OCO Plans: - N/A</p>	0.691 -	0.000 -	0.200 -	0.000 -	0.200 -
<p>Title: TEWM Speed to Fleet (STF) (AN/SLQ-62) Systems Engineering</p> <p align="right">Articles:</p> <p>FY 2015 Accomplishments: - Completed TEWM STF systems engineering and integration.</p> <p>FY 2016 Plans: - N/A</p> <p>FY 2017 Base Plans:</p>	0.629 -	0.000 -	0.300 -	0.000 -	0.300 -

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy		Date: February 2016
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604757N / <i>Ship Self Def (Engage: Soft Kill/EW)</i>	Project (Number/Name) 3321. / <i>SEWIP Block 3</i>

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
- Complete TEWM Speed To Fleet (STF) (AN/SLQ-62) systems engineering, integration, and test.					
<i>FY 2017 OCO Plans:</i> - N/A					
Accomplishments/Planned Programs Subtotals	58.005	60.060	62.560	0.000	62.560

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017 Base</u>	<u>FY 2017 OCO</u>	<u>FY 2017 Total</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• 0204228N/2312: AN/SLQ-32	195.082	296.271	274.892	-	274.892	318.819	379.231	511.281	767.214	Continuing	Continuing

Remarks

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 of work performed under the INTOP program sponsored by ONR, which focused on designing/architecting an integrated Electronic Attack (EA), Information Operations (IO), and Line of Site (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 technique development and active engagement analysis/modeling for Naval surface combatants. TEWM includes Block 3T (AN/SLQ-59) system supporting the 7th fleet UON and TEWM STF (AN/SLQ-62) system supporting the 6th fleet UON.

- E. Performance Metrics**
- Achieve Block 3 Milestone (MS) B.
 - Complete Block 3T and Speed to Fleet (STF) development.
 - Complete Block 3T and STF integration and testing.
 - Award Preliminary Design Contract.
 - Conduct System Functional Review (SFR) and System Requirements Review (SRR).
 - Conduct Preliminary Design Review (PDR).
 - Exercise Engineering & Manufacturing Development (E&MD) option.
 - Conduct Critical Design Review (CDR).
 - Achieve Block 3 MS C / Low Rate Initial Production (LRIP) Decision Review (DR).
 - Complete Formal Qualification Testing (FQT).
 - Complete Operational Assessment (OA).
 - Complete Test Readiness Review (TRR).

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy		Date: February 2016
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604757N / <i>Ship Self Def (Engage: Soft Kill/EW)</i>	Project (Number/Name) 3321. / <i>SEWIP Block 3</i>
Complete TECHEVAL. Complete Initial Operational Test & Evaluation (IOT&E). Achieve Block 3 Full Rate Production (FRP) DR.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Navy **Date:** February 2016

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW)	Project (Number/Name) 3321. / SEWIP Block 3
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Product Development (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Block 3 Technology Demonstration	SS/CPFF	Northrop Grumman: Linthicum, MD : Raytheon: Tewksbury, MA	37.195	0.000		0.000		0.000		-		0.000	0.000	37.195	-
Block 3T Primary Hardware Development	C/CPFF	ITT Exelis : Alexandria, VA	54.624	0.000		0.000		0.000		-		0.000	0.000	54.624	-
Block 3 SEWTT Development	SS/CPFF	EWA-GSI : Fairmont, WV	1.619	0.000		0.000		0.100	Nov 2016	-		0.100	Continuing	Continuing	Continuing
TEWM STF Primary Hardware Development	WR	NRL : Washington, DC	7.000	0.691	Feb 2015	0.000		0.200	Nov 2016	-		0.200	0.000	7.891	-
Block 3 Preliminary Design/E&MD	C/CPIF	Northrop Grumman : Baltimore, MD	0.000	18.341	Feb 2015	38.671	Jan 2016	41.500	Nov 2016	-		41.500	Continuing	Continuing	Continuing
Subtotal			100.438	19.032		38.671		41.800		-		41.800	-	-	-

Remarks
The increase in SEWIP Block 3 Development in FY17 is due to commencement of EDM build and integration, using the material purchased in FY16, commencement of test planning for FQT and OA testing, and full hardware/software integration and testing of the EDMs.

Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Block 3 Integrated Logistics Support	WR	NSWC Crane : Crane, IN	6.101	2.151	Nov 2014	1.859	Jan 2016	1.700	Nov 2016	-		1.700	Continuing	Continuing	Continuing
Block 3 Integrated Logistics Support	WR	NSWC Carderock : Bethesda, MD	0.000	0.133	Nov 2014	0.139	Jan 2016	0.142	Nov 2016	-		0.142	Continuing	Continuing	Continuing
Block 3 Government Engineering Support	WR	NSWC Dahlgren : Dahlgren, VA	13.249	6.551	Nov 2014	5.225	Jan 2016	2.050	Nov 2016	-		2.050	Continuing	Continuing	Continuing
Block 3 Government Engineering Support	WR	NSWC Crane : Crane, IN	5.314	0.799	Oct 2014	1.697	Jan 2016	0.800	Nov 2016	-		0.800	Continuing	Continuing	Continuing
Block 3 Government Engineering Support	WR	NRL : Washington, DC	12.504	4.449	Nov 2014	1.996	Jan 2016	1.983	Nov 2016	-		1.983	0.000	20.932	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Navy **Date:** February 2016

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW)	Project (Number/Name) 3321. / SEWIP Block 3
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Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Block 3 Government Engineering Support	SS/CPFF	APL : Laurel, MD	14.923	6.542	Feb 2015	3.838	Jan 2016	2.140	Nov 2016	-		2.140	Continuing	Continuing	Continuing
Block 3 Government Engineering Support	WR	MIT-LL : Cambridge, MA	3.099	1.582	Jan 2015	0.123	Jan 2016	0.150	Nov 2016	-		0.150	Continuing	Continuing	Continuing
Block 3 Government Engineering Support	WR	GTRI : Atlanta, GA	1.040	0.000		0.000		0.000		-		0.000	0.000	1.040	-
Block 3 Feasibility Studies	C/BA	BIW : Bath, ME	0.000	0.039	Apr 2015	0.000		0.000		-		0.000	0.000	0.039	-
Block 3 Feasibility Studies	C/BA	Norfolk Naval Shipyard (NNSY) : Norfolk, VA	0.000	0.040	Apr 2015	0.000		0.000		-		0.000	0.000	0.040	-
Block 3 Feasibility Studies	C/BA	SUPSHIP Gulf Coast : Pascagoula, MS	0.000	0.062	Mar 2015	0.000		0.000		-		0.000	0.000	0.062	-
Block 3T Systems Engineering	WR	NRL : Washington, DC	13.532	7.000	Apr 2015	0.000		0.000		-		0.000	0.000	20.532	-
TEWM STF Systems Engineering	WR	NRL : Washington, DC	5.391	0.300	Feb 2015	0.000		0.050	Nov 2016	-		0.050	0.000	5.741	-
TEWM STF Systems Engineering	WR	NSWC Crane : Crane, IN	0.000	0.329	Feb 2015	0.000		0.000		-		0.000	0.000	0.329	-
Subtotal			75.153	29.977		14.877		9.015		-		9.015	-	-	-

Remarks
The \$7.000M increase in FY15 under Block 3T systems engineering is associated with the systems engineering and technical support for the installation, verification, and checkout of two Block 3T prototype systems.

Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Block 3 Test Planning/T&E Events	WR	NSWC Dahlgren : Dahlgren, VA	3.024	0.677	Nov 2014	0.193	Jan 2016	1.500	Nov 2016	-		1.500	Continuing	Continuing	Continuing

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Navy **Date:** February 2016

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW)	Project (Number/Name) 3321. / SEWIP Block 3
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Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Block 3 Test Planning/T&E Events	WR	NSWC Crane : Crane, IN	1.701	0.460	Oct 2014	0.337	Jan 2016	1.500	Nov 2016	-		1.500	Continuing	Continuing	Continuing
Block 3 Test Planning/T&E Events	WR	NRL : Washington, DC	5.407	1.961	Nov 2014	2.066	Jan 2016	4.500	Nov 2016	-		4.500	Continuing	Continuing	Continuing
Block 3 Test Planning/T&E Events	WR	COMOPTEVFOR : Norfolk, VA	0.000	0.165	Feb 2015	0.082	Jan 2016	0.150	Nov 2016	-		0.150	Continuing	Continuing	Continuing
TEWM Testing	WR	NRL : Washington, DC	10.641	0.000		0.000		0.000		-		0.000	0.000	10.641	-
TEWM STF Testing	WR	NRL : Washington, DC	4.199	0.000		0.000		0.250	Nov 2016	-		0.250	0.000	4.449	-
Subtotal			24.972	3.263		2.678		7.900		-		7.900	-	-	-

Remarks
The increase in FY17 SEWIP Block 3 Test Planning is due to ramp up of test planning activities including the preparation of the testing facilities infrastructure (Chesapeake Beach Detachment (CBD) Land Based Test Site, test control stations, and test support equipment) and the development and procurement of test assets to support FY18 testing events.

Management Services (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Block 3 Program Management Support	C/CPIF	SPA (SEAPORT) : Washington, DC	14.295	4.588	Feb 2015	0.000		0.000		-		0.000	0.000	18.883	-
Block 3 Program Management Support	C/CPIF	TMB (SEAPORT) : Washington, DC	0.000	0.154	Apr 2015	0.764	Feb 2016	0.753	Nov 2016	-		0.753	Continuing	Continuing	Continuing
Block 3 Program Management Support	SS/CPIF	SPA : Washington, DC	0.000	0.000		2.121	Feb 2016	0.000		-		0.000	0.000	2.121	-
Block 3 Program Management Support	TBD	TBD : TBD	0.000	0.000		0.000		2.091	Nov 2016	-		2.091	Continuing	Continuing	Continuing
Block 3 Program Management Support	WR	NSWC Dahlgren : Dahlgren, VA	3.814	0.237	Nov 2014	0.192	Jan 2016	0.198	Nov 2016	-		0.198	Continuing	Continuing	Continuing

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Navy **Date:** February 2016

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW)	Project (Number/Name) 3321. / SEWIP Block 3
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Management Services (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Block 3 Program Management Support	WR	NRL : Washington, DC	1.518	0.364	Nov 2014	0.362	Jan 2016	0.373	Nov 2016	-		0.373	Continuing	Continuing	Continuing
Block 3 Program Management Support	MIPR	DISA : Laurel, MD	0.227	0.213	Feb 2015	0.212	Jan 2016	0.220	Nov 2016	-		0.220	Continuing	Continuing	Continuing
Block 3 Travel	WR	NAVSEA Program Office : Washington, DC	0.244	0.050	Oct 2014	0.050	Jan 2016	0.080	Nov 2016	-		0.080	Continuing	Continuing	Continuing
Block 3 Program Management Support	WR	NSWC Crane : Crane, IN	1.494	0.127	Oct 2014	0.133	Jan 2016	0.130	Nov 2016	-		0.130	Continuing	Continuing	Continuing
Subtotal			21.592	5.733		3.834		3.845		-		3.845	-	-	-

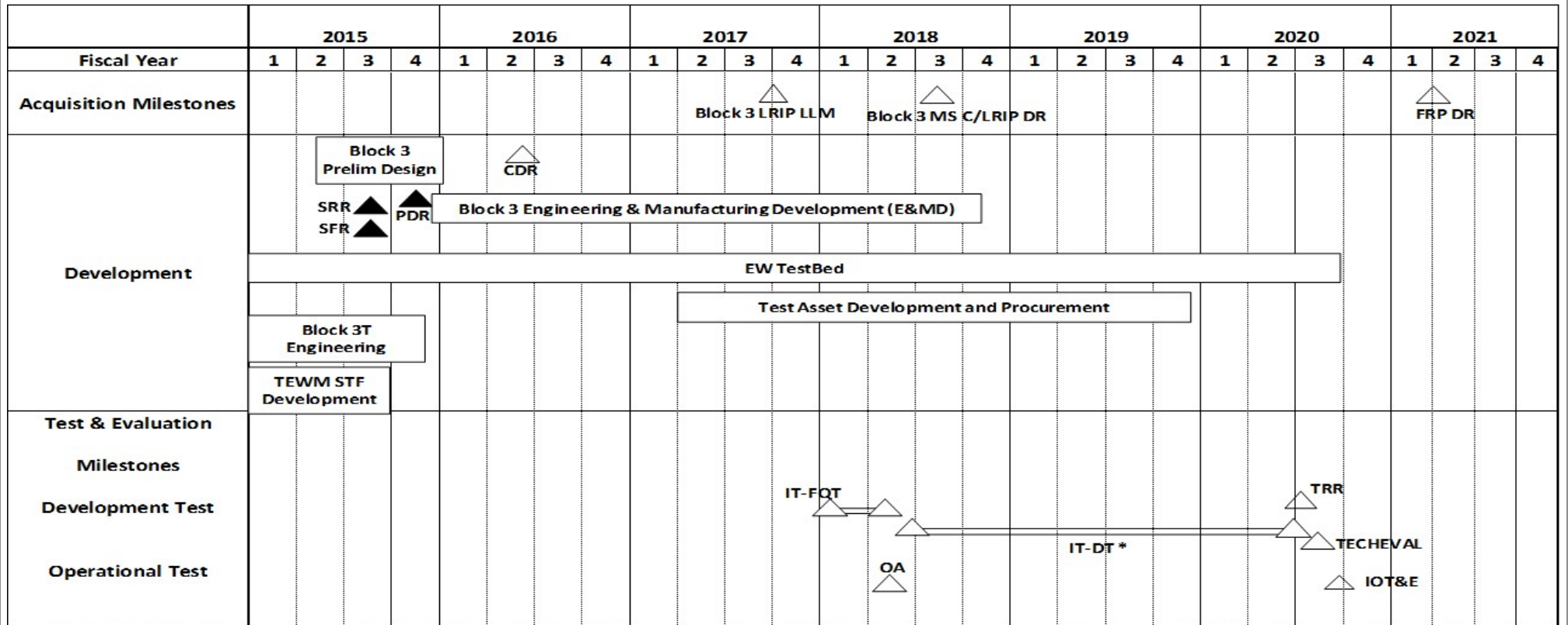
Remarks
The TBD for Program Management Support will be competitively awarded in November 2016.

	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	222.155	58.005	60.060	62.560	-	62.560	-	-	-

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2017 Navy		Date: February 2016
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW)	Project (Number/Name) 3321.1 SEWIP Block 3



* Includes the following test events: : Land Test-Block 3 Stand-Alone Operation, Flight Test-Threat Engagements (over water), IA / Maint Demo (Dry Run), CMS Integration (Aegis), CMS Integration (SSDS), DDG-51 Combat System Certification (Aegis Integration), CVN-78 Combat System Certification (SSDS Integration), Environment, EMI, RCS, and Shock Tests

Acronyms: CDR-Critical Design Review; DR-Decision Review; DT-Developmental Test; FQT-Formal Qualification Testing; FRP-Full Rate Production; IOT&E-Initial Operational Test & Evaluation; IT-Integrated Testing; LLM-Long Lead Material; LRIP-Low Rate Initial Production; MS-Milestone; OA-Operational Assessment; PDR-Preliminary Design Review; SFR-System Functional Review; SRR-System Requirements Review; TRR-Test Readiness Review

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Exhibit R-4A, RDT&E Schedule Details: PB 2017 Navy		Date: February 2016
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604757N / Ship Self Def (Engage: Soft Kill/EW)	Project (Number/Name) 3321. / SEWIP Block 3

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 3321.L24				
TEWM Speed to Fleet Development	1	2015	3	2015
Block 3T Engineering	1	2015	4	2015
Block 3 Preliminary Design	2	2015	2	2015
EW Testbed	1	2015	3	2020
SRR	3	2015	3	2015
SFR	3	2015	3	2015
PDR	4	2015	4	2015
Block 3 Engineering and Manufacturing Development (E&MD)	4	2015	4	2018
CDR	2	2016	2	2016
Test Asset Development and Procurement	2	2017	4	2019
Block 3 LRIP LLM	3	2017	4	2017
Block 3 Integrated Testing	1	2018	3	2020
Block 3 FQT	1	2018	2	2018
Block 3 Operational Assessment	2	2018	2	2018
Block 3 MS C/LRIP DR	3	2018	3	2018
Block 3 TECHEVAL	3	2020	3	2020
Block 3 IOT&E	3	2020	4	2020
Block 3 FRP DR	1	2021	2	2021

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