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

<b>Appropriation/Budget Activity</b>					<b>R-1 Program Element (Number/Name)</b>							
1319: <i>Research, Development, Test &amp; Evaluation, Navy / BA 5: System Development &amp; Demonstration (SDD)</i>					PE 0604522N / (U) <i>Air and Missile Defense Radar (AMDR) System</i>							
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
Total Program Element	0.000	126.525	232.677	144.395	-	144.395	31.923	172.217	47.050	37.805	Continuing	Continuing
3186: <i>Air and Missile Defense Radar</i>	0.000	126.525	232.677	144.395	-	144.395	31.923	172.217	47.050	37.805	Continuing	Continuing

**A. Mission Description and Budget Item Justification**

Air and Missile Defense Radar (AMDR): (NOTE: FY14 and prior year funding is in PE 0604501N) The AMDR suite is being developed to fulfill Integrated Air and Missile Defense requirements for multiple ship classes. This suite consists of an S-Band radar (AMDR-S), an X-band radar and a Radar Suite Controller (RSC). Funding will develop AMDR-S and RSC, and integrate these components with an available X band radar. AMDR will provide multi-mission capabilities, simultaneously supporting both long range, exoatmospheric detection, tracking and discrimination of ballistic missiles, as well as Area and Self Defense against air and surface threats. For the Ballistic Missile Defense (BMD) capability, increased radar sensitivity and bandwidth over current radar systems are needed to detect, track and support engagements of advanced ballistic missile threats at the required ranges, concurrent with Area and Self Defense against Air and Surface threats. For the Area Air Defense and Self Defense capability, increased sensitivity and clutter capability is needed to detect, react to, and engage stressing Very Low Observable/Very Low Flyer (VLO/VLF) threats in the presence of heavy land, sea, and rain clutter. This effort provides for the development of an active phased array radar with the required capabilities to address the evolving threat. The AMDR suite will obtain performance and technology enhancements throughout its service life based upon an approach that includes modularity of hardware and software, a scalable design and Open Architecture (OA) compliance.

**B. Program Change Summary (\$ in Millions)**

	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Previous President's Budget	129.706	241.754	151.870	-	151.870
Current President's Budget	126.525	232.677	144.395	-	144.395
Total Adjustments	-3.181	-9.077	-7.475	-	-7.475
• Congressional General Reductions	-	-0.077			
• Congressional Directed Reductions	-	-9.000			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-3.181	0.000			
• Program Adjustments	0.000	0.000	-6.079	-	-6.079
• Rate/Misc Adjustments	0.000	0.000	-1.396	-	-1.396

**Change Summary Explanation**

FY17: Decrease in Air and Missile Defense Radar RDTEN by \$6.079M as required for the Department of the Navy to comply with the Bipartisan Budget Act of 2015.

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Note: The funding increase in FY19-FY21 is to support long lead hardware procurement for unmanned self-defense test ship at-sea testing in support of DDG 51 FLT III and AEGIS ACB20 requirements.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Navy										<b>Date:</b> February 2016		
<b>Appropriation/Budget Activity</b> 1319 / 5					<b>R-1 Program Element (Number/Name)</b> PE 0604522N / (U)Air and Missile Defense Radar (AMDR) System				<b>Project (Number/Name)</b> 3186 / Air and Missile Defense Radar			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
3186: Air and Missile Defense Radar	0.000	126.525	232.677	144.395	-	144.395	31.923	172.217	47.050	37.805	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

**A. Mission Description and Budget Item Justification**

Air and Missile Defense Radar (AMDR): (NOTE: FY14 and prior year funding is in PE 0604501N) The AMDR suite is being developed to fulfill Integrated Air and Missile Defense requirements for multiple ship classes. This suite consists of an S-Band radar (AMDR-S), an X-band radar and a Radar Suite Controller (RSC). Funding will develop AMDR-S and RSC, and integrate these components with an available X band radar. AMDR will provide multi-mission capabilities, simultaneously supporting both long range, exoatmospheric detection, tracking and discrimination of ballistic missiles, as well as Area and Self Defense against air and surface threats. For the Ballistic Missile Defense (BMD) capability, increased radar sensitivity and bandwidth over current radar systems are needed to detect, track and support engagements of advanced ballistic missile threats at the required ranges, concurrent with Area and Self Defense against Air and Surface threats. For the Area Air Defense and Self Defense capability, increased sensitivity and clutter capability is needed to detect, react to, and engage stressing Very Low Observable/Very Low Flyer (VLO/VLF) threats in the presence of heavy land, sea, and rain clutter. This effort provides for the development of an active phased array radar with the required capabilities to address the evolving threat. The AMDR suite will obtain performance and technology enhancements throughout its service life based upon an approach that includes modularity of hardware and software, a scalable design and Open Architecture (OA) compliance.

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

	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
<b>Title:</b> AMDR HARDWARE (RAYTHEON)	16.893	3.864	0.490	0.000	0.490
<b>Articles:</b>	-	-	-	-	-
<b>FY 2015 Accomplishments:</b>					
- Procured Engineering Development Model (EDM) material					
- Initiated procurement of generators for land-based test site to support DT-3 testing					
<b>FY 2016 Plans:</b>					
- Continue procurement of EDM material					
- Complete procurement of generators for land-based test site to support DT-3 testing					
<b>FY 2017 Base Plans:</b>					
- Complete procurement of EDM material					
<b>FY 2017 OCO Plans:</b>					
N/A					
<b>Title:</b> AMDR SOFTWARE (RAYTHEON)	13.782	34.767	8.164	0.000	8.164

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<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
<p align="right"><b>Articles:</b></p> <p><b>FY 2015 Accomplishments:</b> - Designed, coded, tested, and integrated software builds to support conduct of DT-2</p> <p><b>FY 2016 Plans:</b> - Design, code, test, and integrate software builds to support conduct of DT-3</p> <p><b>FY 2017 Base Plans:</b> - Complete design, code, test, and integration to support completion of DT-3</p> <p><b>FY 2017 OCO Plans:</b> N/A</p>	-	-	-	-	-
<p><b>Title:</b> AMDR DESIGN, SUPPORT, INTEGRATION, TEST AND EVALUATION (RAYTHEON)</p> <p align="right"><b>Articles:</b></p> <p><b>FY 2015 Accomplishments:</b> - Supported working groups (WGs) to facilitate successful integration of the radar with the ship and combat system - Conducted Hardware Critical Design Review (CDR) - Conducted System CDR - Conducted Test Readiness Review (TRR) and AMDR-S String testing (DT-2) - Delivered the AMDR-S/RSC simulator</p> <p><b>FY 2016 Plans:</b> - Support WGs to facilitate successful integration of the radar with the ship and combat system - Deliver the EDM to the Pacific Missile Range Facility (PMRF) - Deliver generators to PMRF - Conduct set up, integration and checkout of the EDM and generators at PMRF - Install and integrate AN/SPQ-9B at PMRF - Conduct DT-3 TRR and begin System Integration tests (DT-3) at PMRF</p> <p><b>FY 2017 Base Plans:</b> - Continue and complete System Integration tests (DT-3) at PMRF</p>	41.603	83.318	30.130	0.000	30.130

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<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>						
		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
- Conduct System Verification Review/Functional Configuration Audit/Production Readiness Review (SVR/FCA/PRR) <b>FY 2017 OCO Plans:</b> N/A						
<b>Title:</b> DESIGN, SUPPORT, AND INTEGRATION		20.676	20.167	19.362	0.000	19.362
<b>Articles:</b>		-	-	-	-	-
<b>FY 2015 Accomplishments:</b> - Supported Hardware and System CDRs - Supported delivery of the AMDR-S/RSC simulator - Supported contractor TRR and witnessed DT-2 testing						
<b>FY 2016 Plans:</b> - Support delivery of the EDM to PMRF - Support delivery and installation of the SPQ-9B to PMRF - Conduct the DT-3 TRR and support the DT-3 test activities at PMRF						
<b>FY 2017 Base Plans:</b> - Support the SVR/FCA/PRR - Develop documentation in support of Milestone C (MS C) - Support completion of DT-3 test activities at PMRF						
<b>FY 2017 OCO Plans:</b> N/A						
<b>Title:</b> TEST AND EVALUATION OPERATIONS AND ANALYSIS		8.724	17.231	43.130	0.000	43.130
<b>Articles:</b>		-	-	-	-	-
<b>FY 2015 Accomplishments:</b> - Continued test planning in support of test site requirements - Supported contractor TRR and witnessed contractor DT-2 testing						
<b>FY 2016 Plans:</b> - Complete test planning in support of test site requirements - Support the installation of the generators and delivery and integration of the EDM at PMRF						

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<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>						
		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
- Support DT-3 TRR and begin System Integration tests (DT-3) at PMRF						
<b>FY 2017 Base Plans:</b>						
- Increase due to support operations of the Military Sealift Command launch platform and developing documentation in support of MS C.						
- Continue and complete DT-3 testing						
<b>FY 2017 OCO Plans:</b>						
N/A						
<b>Title:</b> TEST AND EVALUATION ASSETS AND FACILITIES		22.643	68.978	39.033	0.000	39.033
		<b>Articles:</b>	-	-	-	-
<b>FY 2015 Accomplishments:</b>						
- Procured material for simple and complex separating ballistic missile targets and other test assets to support DT-3 test efforts						
- Maintained PMRF test site facility						
- Provided engineering services for required modifications to DT-3 targets						
<b>FY 2016 Plans:</b>						
- Continue to procure material for simple and complex separating ballistic missile targets and other test assets to support DT-3 test efforts						
- Maintain PMRF test site facility						
- Provide engineering services for required modifications to DT-3 targets						
- Modify Military Sealift Command launch platform to support test events at PMRF						
<b>FY 2017 Base Plans:</b>						
- Provide PMRF range services in support of DT-3 test efforts						
- Provide engineering services in support of DT-3 flight testing						
<b>FY 2017 OCO Plans:</b>						
N/A						
<b>Title:</b> PROGRAM MANAGEMENT		2.204	4.352	4.086	0.000	4.086
		<b>Articles:</b>	-	-	-	-
<b>FY 2015 Accomplishments:</b>						

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<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>					
	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
<ul style="list-style-type: none"> <li>- Provided support to Integrated Product Teams (IPTs) and working groups (WGs) required for program execution of the E&amp;MD contract</li> <li>- Analyzed and assessed contractor deliverables</li> <li>- Conducted regular Program Management Reviews</li> <li>- Assisted in cost, schedule and performance management, contract management and oversight, earned value assessment, and risk identification and mitigation</li> <li>- Provided support to the Hardware CDR and System CDR</li> <li>- Provided support to the TRR to facilitate the start of DT-2 testing</li> <li>- Provided support to technical interchange meetings</li> </ul> <p><b>FY 2016 Plans:</b></p> <ul style="list-style-type: none"> <li>- Provide support to IPT and WGs required for program execution of the E&amp;MD contract</li> <li>- Support DT-2 and DT-3 test activities</li> <li>- Analyze and assess contractor deliverables</li> <li>- Conduct regular Program Management Reviews</li> <li>- Assist in cost, schedule and performance management, contract management and oversight, earned value assessment, and risk identification and mitigation</li> <li>- Provide support to the TRR to facilitate the start of DT-3 testing</li> <li>- Provide support to technical interchange meetings</li> </ul> <p><b>FY 2017 Base Plans:</b></p> <ul style="list-style-type: none"> <li>- Provide support to IPT and WGs required for program execution of the E&amp;MD contract</li> <li>- Analyze and assess contractor deliverables</li> <li>- Conduct regular Program Management Reviews</li> <li>- Assist in cost, schedule and performance management, contract management and oversight, earned value assessment, and risk identification and mitigation</li> <li>- Provide support to the SVR/FCA/PRR</li> <li>- Provide support to technical interchange meetings</li> <li>- Support DT-3 test activities</li> <li>- Support MS C</li> </ul> <p><b>FY 2017 OCO Plans:</b> N/A</p>					
<b>Accomplishments/Planned Programs Subtotals</b>	126.525	232.677	144.395	0.000	144.395

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<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604522N / (U)Air and Missile Defense Radar (AMDR) System	<b>Project (Number/Name)</b> 3186 / Air and Missile Defense Radar

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

<u>Line Item</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>			<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Cost To</u>	
			<u>Base</u>	<u>OCO</u>	<u>Total</u>					<u>Complete</u>	<u>Total Cost</u>
• SCN/2122: DDG 51	2,924.381	4,207.664	3,227.251	-	3,227.251	3,532.909	3,545.913	3,595.403	3,665.113	Continuing	Continuing

**Remarks**

**D. Acquisition Strategy**

AMDR: Plans for the Air and Missile Defense Radar are to leverage research and development investments, integrate sufficiently matured advanced technologies from technology risk reduction efforts, and incorporate Open Architecture approaches to develop a scalable radar design with major improvements in power, sensitivity, resistance to natural and man-made environments over current radar systems for simultaneous multi-mission BMD, Area and Self Defense Anti-Air Warfare (AAW). System design will be accomplished by employing proven technologies and commercial standards to lower schedule risk and develop a product with the lowest life-cycle cost.

Program scope consists of the following phases: a Concept Studies phase; a Technology Development phase, which included competitive prototyping; an E&MD phase, which includes completion of a full Engineering Development Model (EDM) for land-based testing; and transition to production. The detailed scope of this acquisition is defined in the approved Milestone B AMDR Acquisition Strategy (AS).

**E. Performance Metrics**

- Complete Technology Development (TD) phase System Requirements Review, Test Readiness Review, TD Prototype testing, TD System Functional Review, and TD Preliminary Design Review (PDR)
- Achieve Milestone B decision to proceed into E&MD phase
- Award E&MD contract
- Conduct E&MD Phase Integrated Baseline Review
- Conduct Hardware Delta PDR and System Delta PDR
- Conduct Hardware and System CDRs
- Complete Engineering Development Model (EDM) testing
- Achieve Milestone C decision to proceed into production and exercise Low Rate Initial Production (LRIP) options

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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 0604522N / (U)Air and Missile Defense Radar (AMDR) System				Project (Number/Name) 3186 / Air and Missile Defense Radar							
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
Engineering and Manufacturing Development	C/CPIF	Raytheon : Sudbury, MA	0.000	72.278	Mar 2015	121.949	Oct 2015	38.784	Oct 2016	-		38.784	Continuing	Continuing	Continuing
<b>Subtotal</b>			0.000	72.278		121.949		38.784		-		38.784	-	-	-
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
Systems Engineering	MIPR	GTRI : Atlanta, GA	0.000	0.568	Feb 2015	0.360	Feb 2016	0.346	Jan 2017	-		0.346	Continuing	Continuing	Continuing
Systems Engineering	SS/CPFF	JHU/APL : Baltimore, MD	0.000	6.599	Jan 2015	6.113	Feb 2016	5.876	Jan 2017	-		5.876	Continuing	Continuing	Continuing
Systems Engineering	MIPR	MIT : Cambridge, MD	0.000	0.887	Mar 2015	0.841	Feb 2016	0.809	Jan 2017	-		0.809	Continuing	Continuing	Continuing
Systems Engineering	WR	NRL : Washington, DC	0.000	0.943	Feb 2015	1.014	Dec 2015	0.975	Oct 2016	-		0.975	Continuing	Continuing	Continuing
Systems Engineering	WR	NSWC/CR : Crane, IN	0.000	1.782	Feb 2015	1.861	Feb 2016	1.789	Oct 2016	-		1.789	Continuing	Continuing	Continuing
Systems Engineering	WR	NSWC/DD : Dahlgren, VA	0.000	5.230	Jan 2015	4.084	Feb 2016	3.929	Oct 2016	-		3.929	Continuing	Continuing	Continuing
Systems Engineering	WR	NSWC/PHD : Port Hueneme, CA	0.000	1.271	Mar 2015	1.941	Nov 2015	1.866	Oct 2016	-		1.866	Continuing	Continuing	Continuing
Systems Engineering	C/CPIF	SPA (SEAPORT) : Washington, DC	0.000	1.958	Apr 2015	0.000		0.000		-		0.000	0.000	1.958	-
Systems Engineering	MIPR	ARL : Adelphi, MD	0.000	0.382	Feb 2015	0.314	Dec 2015	0.324	Nov 2016	-		0.324	Continuing	Continuing	Continuing
Systems Engineering	WR	NSWC/CD : Carderock, MD	0.000	0.289	Jan 2015	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Systems Engineering	WR	NSWC/Corona : Corona, CA	0.000	0.230	Jan 2015	0.247	Nov 2015	0.237	Oct 2016	-		0.237	Continuing	Continuing	Continuing
Systems Engineering	Allot	DISA : Scott AFB, Illinois	0.000	0.004	Nov 2014	0.003	Oct 2015	0.004	Oct 2016	-		0.004	Continuing	Continuing	Continuing

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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
Systems Engineering	C/CPIF	TBD : TBD	0.000	0.000		0.000		2.529	Jan 2017	-		2.529	Continuing	Continuing	Continuing
Systems Engineering	WR	NSWC IH : Indian Head, MD	0.000	0.339	Mar 2015	0.227	Feb 2016	0.219	Jan 2017	-		0.219	Continuing	Continuing	Continuing
Systems Engineering	SS/FFP	Northrop Grumman : Baltimore, MD	0.000	0.000		0.444	Feb 2016	0.459	Jan 2017	-		0.459	Continuing	Continuing	Continuing
Systems Engineering	C/FFP	DRS Power & Control Technologies, Inc. : Milwaukee, WI	0.000	0.194	Aug 2015	0.000		0.000		-		0.000	0.000	0.194	-
Systems Engineering	SS/CPIF	SPA : Washington, DC	0.000	0.000		2.718	Feb 2016	0.000		-		0.000	0.000	2.718	-
<b>Subtotal</b>			0.000	20.676		20.167		19.362		-		19.362	-	-	-
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
Test and Evaluation	WR	COMOPTEVFOR : Norfolk, VA	0.000	0.249	Apr 2015	0.685	Feb 2016	0.587	Jan 2017	-		0.587	Continuing	Continuing	Continuing
Test and Evaluation	MIPR	GTRI : Atlanta, GA	0.000	0.000		0.000		0.000		-		0.000	0.000	0.000	-
Test and Evaluation	SS/CPFF	JHU/APL : Baltimore, MD	0.000	4.901	Jan 2015	5.742	Feb 2016	2.858	Jan 2017	-		2.858	Continuing	Continuing	Continuing
Test and Evaluation	MIPR	MIT : Cambridge, MD	0.000	0.256	Mar 2015	0.402	Feb 2016	1.520	Jan 2017	-		1.520	Continuing	Continuing	Continuing
Test and Evaluation	WR	NAWC WD : Pt. Mugu, CA	0.000	0.788	Dec 2014	2.937	Jan 2016	2.622	Dec 2016	-		2.622	0.000	6.347	-
Test and Evaluation	WR	NRL : Washington, DC	0.000	0.000		1.121	Dec 2015	1.431	Oct 2016	-		1.431	Continuing	Continuing	Continuing
Test and Evaluation	WR	NSWC/DD : Dahlgren, VA	0.000	0.917	Jan 2015	4.716	Jan 2016	5.391	Oct 2016	-		5.391	Continuing	Continuing	Continuing
Test and Evaluation	WR	NSWC/PHD : Port Hueneme, CA	0.000	1.530	Mar 2015	1.967	Nov 2015	10.424	Oct 2016	-		10.424	Continuing	Continuing	Continuing

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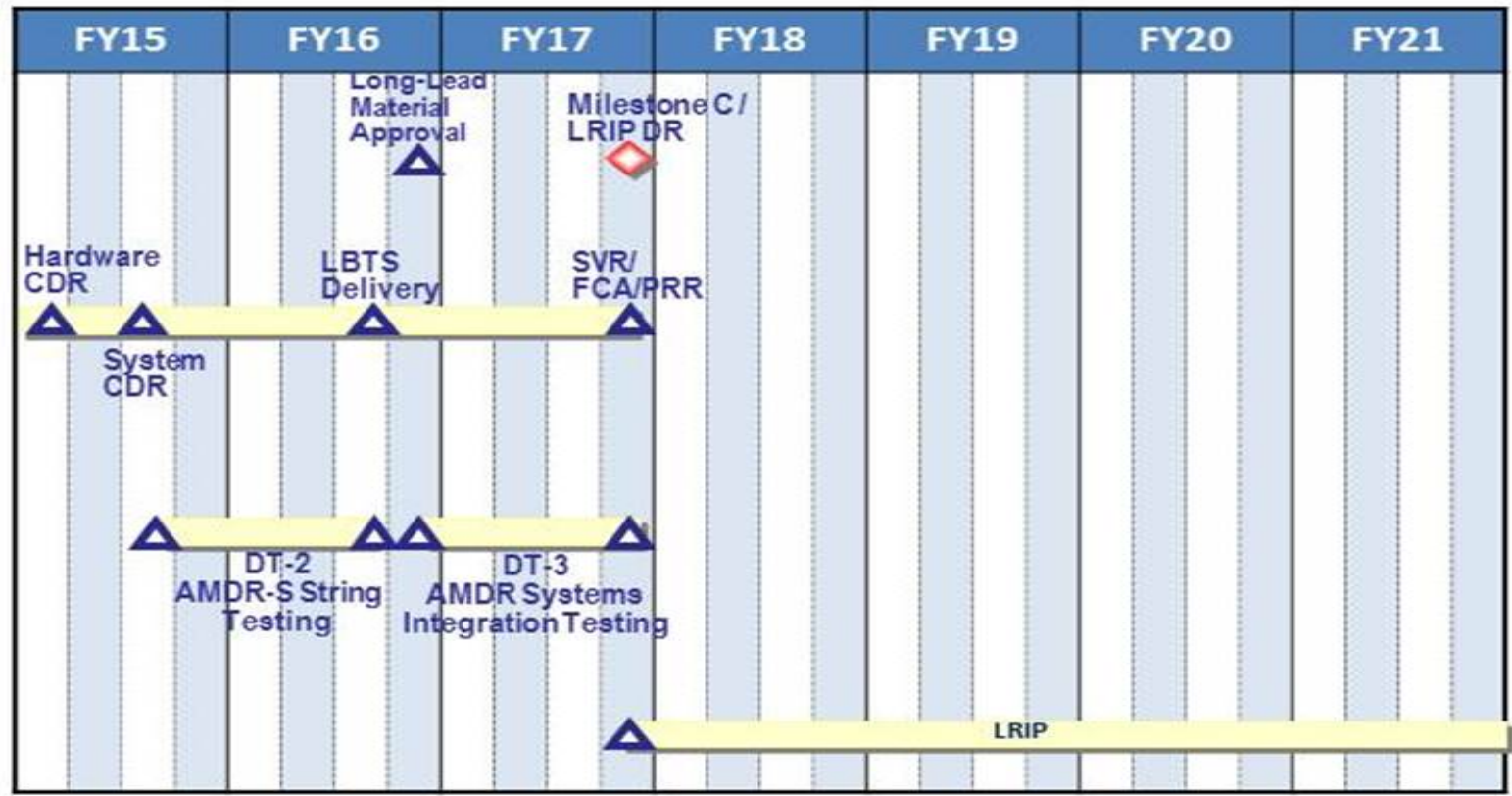
<b>Test and Evaluation (\$ in Millions)</b>				<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017 Base</b>		<b>FY 2017 OCO</b>		<b>FY 2017 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Test and Evaluation	WR	PMRF : Kekaha, HI	0.000	0.821	Dec 2014	1.640	Feb 2016	18.220	Dec 2016	-		18.220	Continuing	Continuing	Continuing
Test and Evaluation	C/CPIF	SPA (SEAPORT) : Washington, DC	0.000	0.816	Apr 2015	0.000		0.000		-		0.000	0.000	0.816	-
Test and Evaluation	WR	SCSC Wallops : Wallops Island, VA	0.000	0.000		0.000		0.000		-		0.000	0.000	0.000	-
Test and Evaluation	WR	SPAWAR : San Diego, CA	0.000	0.000		0.000		0.000		-		0.000	0.000	0.000	-
Test and Evaluation	WR	NSWC/PHD WS : Port Hueneme, CA	0.000	17.327	Mar 2015	55.538	Oct 2015	15.516	Oct 2016	-		15.516	Continuing	Continuing	Continuing
Test and Evaluation	C/CPFF	TBD : TBD	0.000	0.000		0.000		1.270	Dec 2016	-		1.270	Continuing	Continuing	Continuing
Test and Evaluation	WR	NSWC Corona : Corona, CA	0.000	3.707	Jan 2015	1.798	Dec 2015	2.675	Oct 2016	-		2.675	Continuing	Continuing	Continuing
Test and Evaluation	WR	Military Sealift Command (MSC) : Washington, DC	0.000	0.000		7.065	Feb 2016	19.121	Jan 2017	-		19.121	Continuing	Continuing	Continuing
Test and Evaluation	WR	CNA-ONR : Arlington, VA	0.000	0.055	May 2015	0.060	Feb 2016	0.060	Jan 2017	-		0.060	Continuing	Continuing	Continuing
Test and Evaluation	C/BA	MDA : Redstone Arsenal, AL	0.000	0.000		0.518	Jan 2016	0.468	Dec 2016	-		0.468	0.000	0.986	-
Test and Evaluation	SS/CPIF	SPA : Washington, DC	0.000	0.000		2.020	Feb 2016	0.000		-		0.000	0.000	2.020	-
<b>Subtotal</b>			0.000	31.367		86.209		82.163		-		82.163	-	-	-

<b>Management Services (\$ in Millions)</b>				<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017 Base</b>		<b>FY 2017 OCO</b>		<b>FY 2017 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Support Management Services	C/CPIF	SPA (SEAPORT) : Washington, DC	0.000	1.102	Apr 2015	0.000		0.000		-		0.000	0.000	1.102	-
Travel	Allot	PEOIS2 : Washington, DC	0.000	0.117	Feb 2015	0.115	Feb 2016	0.114	Dec 2016	-		0.114	Continuing	Continuing	Continuing



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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2017 Navy		<b>Date:</b> February 2016
<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604522N / (U)Air and Missile Defense Radar (AMDR) System	<b>Project (Number/Name)</b> 3186 / Air and Missile Defense Radar



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CDR	Critical Design Review	FCA	Functional Configuration Audit	PRR	Production Readiness Review
DR	Decision Review	LBTS	Land Based Test Site	SVR	System Verification Review
DT	Developmental Test	LRIP	Low-Rate Initial Production		

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2017 Navy		<b>Date:</b> February 2016
<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604522N / (U)Air and Missile Defense Radar (AMDR) System	<b>Project (Number/Name)</b> 3186 / Air and Missile Defense Radar

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Proj 3186</b>				
E&MD HW Critical Design Review (CDR)	1	2015	1	2015
E&MD System CDR	3	2015	3	2015
E&MD AMDR-S String Testing (DT-2)	3	2015	3	2016
Engineering Development Model delivered to Land Based Test Site	3	2016	3	2016
LRIP Long Lead Material Approval	4	2016	4	2016
E&MD AMDR System Integration Testing (DT-3)	4	2016	4	2017
System Verification Review/Functional Configuration Audit/Production Readiness Review	4	2017	4	2017
Milestone C/Low Rate Initial Production (LRIP) Decision Review (DR)	4	2017	4	2017
LRIP Production	4	2017	4	2021