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Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Navy	Date: February 2015
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Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0604366N / <i>Standard Missile Improvements</i>
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COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
Total Program Element	2,125.423	60.933	36.698	129.649	-	129.649	114.759	123.382	76.188	19.560	Continuing	Continuing
0439: <i>Standard Missile Improvement</i>	1,091.601	25.776	11.814	19.626	-	19.626	11.698	11.990	12.335	12.599	Continuing	Continuing
3092: <i>Standard Missile 6 Program</i>	1,033.822	35.157	24.884	110.023	-	110.023	103.061	111.392	63.853	6.961	Continuing	Continuing

Program MDAP/MAIS Code:
Project MDAP/MAIS Code(s): 197, 391

A. Mission Description and Budget Item Justification

Standard Missile (SM) is the Navy's premier Anti-Air Warfare (AAW) missile, providing both area air defense for the fleet and self defense for individual AEGIS CGs and DDGs, as required by the Joint Theater Air Missile Defense (TAMD), Mission Need Statement (MNS), Defense Planning Guidance (DPG), Quadrennial Defense Review (QDR), and Ship Class AAW Self Defense Capstone Requirements Document. Agility, fuzing, and computer modifications to SM are in development to restore performance in the near term against a specific existing proliferating Anti-Ship Cruise Missile (ASCM) threat. Continuous analysis of missile capabilities vs. ever-evolving and proliferating aircraft and ASCM threats and long-range planning are required to keep pace with the threat.

<u>B. Program Change Summary (\$ in Millions)</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016 Base</u>	<u>FY 2016 OCO</u>	<u>FY 2016 Total</u>
Previous President's Budget	67.082	53.198	67.682	-	67.682
Current President's Budget	60.933	36.698	129.649	-	129.649
Total Adjustments	-6.149	-16.500	61.967	-	61.967
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-16.500			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-3.999	-			
• SBIR/STTR Transfer	-2.150	-			
• Program Adjustments	-	-	0.420	-	0.420
• Rate/Misc Adjustments	-	-	61.547	-	61.547

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Change Summary Explanation SBIR reduction (\$2.150) in FY14. Reprogramming reduction \$3.999M in FY14. Congressional Reduction \$16.5M in FY15. A portion of FY16 increase to K3092 (\$0.420) is for the Naval Integrated Fire Control - Counter Air (NIFC-CA) integration increment 2 program. The remainder of the increase in FY16 is for the future capabilities demonstration project. This funding will be used to prepare for and support an at sea demonstration event, Operational Test (OT)-5/15, and Tri-Capable Missile Regression Flight Tests, collection of data, performance of analysis and reliability assessments. Additional details are held at a higher classification.		

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy										Date: February 2015		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0604366N / Standard Missile Improvements				Project (Number/Name) 0439 / Standard Missile Improvement			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
0439: Standard Missile Improvement	1,091.601	25.776	11.814	19.626	-	19.626	11.698	11.990	12.335	12.599	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		
Project MDAP/MAIS Code: 197												
A. Mission Description and Budget Item Justification												
Modifications to SM-2 BLK IIIA are required for use on DDG-1000 class destroyers. The Joint Universal Waveform Link (JUWL) will be integrated with the Evolved Sea Sparrow Missile (ESSM) and Standard Missile (SM) to communicate with the DDG-1000 SPY-3 radar. SM-2 missile software will be updated with Interrupted Continuous Wave Illumination (ICWI) in order to allow operation with DDG-1000.												
Missile integration with Air and Missile Defense S-Band Radar (AMDR-S) for DDG 51 Flight III ships will include requirements review/updates and analysis, verification; technical documentation, design review and working group SME support, missile/radar integration, missile test hardware procurement, risk assessment, safety, test and evaluation planning, analysis, data collection. Deliverables include interface specs and engineering documents to support AMDR Preliminary Design Reviews (PDRs) Hardware and Software (HW&SW) (FY13) and Critical Design Reviews (CDRs) HW&SW (FY14); Engineering Development Model (EDM) testing (FY15), interface specs and engineering documents to support AMDR/AEGIS Configuration Baseline (ACB) 20 for DDG 51 Flight III Electromagnetic Environmental Effects (E3) Testing, Analysis and Reports. Missile variants: ESSM Block I; SM-2 Blk IIIB MU2, SM-6 Block I (Current Aegis Configuration).												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)							FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	
Title: DDG-1000 Pre Plan Product Improvement (P3I) Link Integration/ICWI							12.706	8.825	0.170	-	0.170	
							Articles: -	-	-	-	-	
FY 2014 Accomplishments: Completed ESSM Electromagnetic Environmental Effects (E3) testing. Delivered ESSM inert operational missile (IOM) to DDG 1000 for ship interface checkout and integration testing; Conducted SM-2 Plate 3 qualification testing; Conducted SM-2 JUWL Critical Design Review in 3rd quarter 2014; Assembled/integrated SM-2 modules and software into a functional missile guidance section.												
FY 2015 Plans: Conduct SM guidance and round level qualification testing and Electromagnetic Interface (EMI)/E3 testing. Deliver Production Representative Missiles (PRM) IOM to DDG 1000 class destroyers.												
FY 2016 Base Plans:												

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Appropriation/Budget Activity 1319 / 5		R-1 Program Element (Number/Name) PE 0604366N / Standard Missile Improvements		Project (Number/Name) 0439 / Standard Missile Improvement		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Prepare and conduct flight tests from Self Defense Test Ship and DDG-1000. Complete Engineering Change Proposal (ECP) for qualified SM-2 BLK IIIAZ configuration.						
FY 2016 OCO Plans: N/A						
Title: Air and Missile Defense Radar (AMDR) Integration		13.070	2.989	19.456	-	19.456
Articles:		-	-	-	-	-
FY 2014 Accomplishments: Hardware (IOM/Spare parts) procurement - (QTY of 2 SM-2 IOMs and QTY of 2 SM-6 IOMs); Design review participation with radar prime contractor, facilitate design that complies with existing interfaces (including NIFC-CA); Analysis to include examination of new radar in natural and threat RF environments; performance analysis; model updates. Successful JUWL Critical Design Review (CDR) achieved Jun 2014.						
FY 2015 Plans: Complete ESSM missile test hardware procurement; developing and updating missile interface documentation to support the detailed requirements development for ACB Next and integration with AMDR; updating missile models with AMDR and Combat System (CS) elements as available; generating missile fly out data; configuring missile communication test set for radar risk reduction testing; design and program review support with radar and CS prime contractors; engineering studies as required.						
FY 2016 Base Plans: Support and prepare for land based testing, provide engineering studies for integration of SM and ESSM with AMDR. Perform Electromagnetic environmental effects and Hazard of Electromagnetic Radiation to Ordnance (HERO) testing. Review E3/HERO design, analyses, and qualification tests. Develop new missile Interface Control Documents (ICDs) for SM-2, SM-6, and ESSM. Participate in and provide analysis to support the radar design evolution. Provide Principal for Safety (PFS) and systems safety engineering support. Interface with Weapon System Explosive Safety Review Board (WSESRB) board members and review safety documentation as required.						
FY 2016 OCO Plans: N/A						
Accomplishments/Planned Programs Subtotals		25.776	11.814	19.626	-	19.626

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C. Other Program Funding Summary (\$ in Millions) N/A Remarks D. Acquisition Strategy Production representative missiles will be built for ESSM between FY12 and 14 and for SM-2 FY13 and FY17. Engineering and integration testing for ESSM in FY14- FY15 and SM-2 in FY14- FY15. 67 ESSM missiles and 34 SM missiles are required to support Developmental Test & Operational Test (DT & OT) FY15-FY17 and continue follow-on ship integration and design update effort in FY18. This budget reflects the procurement of the initial SM Flight Test Rounds (FTRs) in FY13. Follow-on SM/ESSM FTRs, missile integration and test efforts and ship fill records are not funded within this budget. The 67 ESSM and 27 SM missiles are to be funded by NAVSEA. SM Development, integration, and test is expected to conclude by FY18 for the X-band JUWL and ICWI.		
E. Performance Metrics ESSM initial engineering design for X-Band JUWL capability was completed and Engineering Development Models (EDMs) were built and tested. ESSM ordered material/parts and assembled proof of design units. Design verification tests are complete (FY12). ESSM conducted its Critical Design Review (CDR) in April 2012 (FY12). JUWL conducted its SM-2 PDR during fourth quarter FY13. SM-2 integration testing and datalink qualification for JUWL testing is planned for FY14. SM-2 JUWL CDR conducted Jun 2014. SM-2 Design verification of component, plate, guidance section, and all up round with a final qualification test in June 2015 Conduct SM-2 Software System Safety Technical Review Panel (SSSTRP) and Weapon System Explosive Review Board (WSESRB) in FY 15 Develop AMDR new missile ICDs for SM-2, SM-6, and ESSM in FY 15. AMDR IOM testing is planned for FY 16.		

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Perform E3/HERO design, analyses, E3/HERO qualification tests for AMDR in FY 16. AMDR WSESRB in FY 16.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy												Date: February 2015			
Appropriation/Budget Activity 1319 / 5						R-1 Program Element (Number/Name) PE 0604366N / <i>Standard Missile Improvements</i>				Project (Number/Name) 0439 / <i>Standard Missile Improvement</i>					
Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Design and Analysis1	SS/CPAF	RAYTHEON : Tucson, AZ	255.106	22.878	Mar 2014	9.552	Nov 2014	3.440	Nov 2015	-		3.440	Continuing	Continuing	Continuing
Design and Analysis2	C/CPFF	JHU/APL : Laurel, MD	6.306	1.500	Mar 2014	0.310	Nov 2014	3.781	Nov 2015	-		3.781	-	11.897	-
Design and Analysis3	MIPR	MIT/Lin Lab : Lexington, MA	0.050	-		-		-		-		-	-	0.050	-
Design and Analysis4	WR	NSWC : Dahlgren	788.347	0.320	Mar 2014	0.601	Nov 2014	0.784	Nov 2015	-		0.784	-	790.052	-
Design and Analysis5	WR	NSWC : Indian Head	0.940	-		-		-		-		-	-	0.940	-
Design and Analysis6	WR	NAWC : China Lake	3.655	0.570	Mar 2014	0.474	Nov 2014	1.109	Nov 2015	-		1.109	-	5.808	-
Design and Analysis7	Various	LOCKHEED MARTIN : Moorestown, NJ	17.775	-		-		-		-		-	-	17.775	-
Design and Analysis8	WR	CNO : Washington, DC	0.010	-		-		-		-		-	-	0.010	-
Design and Analysis9	WR	CMDP : Phoenix, AZ	4.795	-		-		-		-		-	-	4.795	-
Design and Analysis11	WR	NSWC : Crane	0.257	-		-		-		-		-	-	0.257	-
Design and Analysis12	WR	DOI&CNAP : Washington, DC	0.487	-		-		-		-		-	-	0.487	-
Design and Analysis13	WR	COMPTEVFOR : Norfolk, VA	0.100	-		-		-		-		-	-	0.100	-
Design and Analysis14	C/CPFF	LOCKHEED MARTIN : Moorestown, NJ	2.000	-		-		-		-		-	-	2.000	-
Design and Analysis15	WR	CARDEROCK : Bethesda, MD	0.050	-		-		-		-		-	-	0.050	-
Design and Analysis16	WR	NWAS : Corona	0.385	-		0.351	Nov 2014	-		-		-	-	0.736	-
Design and Analysis17	C/CPFF	CORVID : Mooresville, NC	0.100	-		-		-		-		-	-	0.100	-
Design and Analysis18	C/CPFF	BAE : Rockville, MD	0.101	0.030	Mar 2014	0.041	Nov 2014	-		-		-	-	0.172	-
Design and Analysis19	MIPR	MDA : Dahlgren,VA	1.257	-		-		-		-		-	-	1.257	-

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Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Design and Analysis20	WR	IWS3D : ARLINGTON, VA	1.500	-		-		-		-		-	-	1.500	-
Design and Analysis21	WR	VARIOUS : IWS 1.0	0.000	-		-		10.052	Nov 2015	-		10.052	-	10.052	-
Subtotal			1,083.221	25.298		11.329		19.166		-		19.166	-	-	-
Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
DEVELOPMENTAL TEST & EVALUATION1	WR	NSWC : Port Hueneme	0.185	-		-		-		-		-	-	0.185	-
DEVELOPMENTAL TEST & EVALUATION2	WR	WSMR : New Mexico	1.600	-		-		-		-		-	-	1.600	-
DEVELOPMENTAL TEST & EVALUATION3	WR	NAWC : Pt Mugu	0.098	-		-		-		-		-	-	0.098	-
DEVELOPMENTAL TEST & EVALUATION4	WR	PMRF : Hawaii	0.338	-		-		-		-		-	-	0.338	-
DEVELOPMENTAL TEST & EVALUATION5	WR	NSWC : PHD/ Techrep	0.567	-		-		-		-		-	-	0.567	-
Subtotal			2.788	-		-		-		-		-	-	2.788	-
Management Services (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
CONTRACTOR ENGINEERING SUPPORT	C/CPAF	VARIOUS : VARIOUS	2.630	-		-		-		-		-	-	2.630	-
PROGRAM MANAGEMENT SUPPORT	C/CPAF	VARIOUS : VARIOUS	2.831	0.415	Mar 2014	0.423	Nov 2014	0.400	Nov 2015	-		0.400	-	4.069	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy												Date: February 2015			
Appropriation/Budget Activity 1319 / 5						R-1 Program Element (Number/Name) PE 0604366N / <i>Standard Missile Improvements</i>						Project (Number/Name) 0439 / <i>Standard Missile Improvement</i>			

Management Services (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
TRAVEL	Allot	IWS3 : Arlington, VA	0.131	0.063	Mar 2014	0.062	Nov 2014	0.060	Nov 2015	-		0.060	-	0.316	-
Subtotal			5.592	0.478		0.485		0.460		-		0.460	-	7.015	-
Project Cost Totals			1,091.601	25.776		11.814		19.626		-		19.626	-	-	-

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Navy

Date: February 2015

Appropriation/Budget Activity

1319 / 5

R-1 Program Element (Number/Name)

PE 0604366N / Standard Missile
Improvements

Project (Number/Name)

0439 / Standard Missile Improvement

	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	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
Proj 0439																												
PDR	■																											
SSSTRP		■																										
WSESRB			■																									
CDR			■																									
SSSTRP 2							■																					
WSESRB 2							■																					
IOC															■													
SSSTRP 3												■																
WSESRB 3												■																
AMDR MISSILE MODELS		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
JUWL Guidance and Round Level Testing							■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
EMV Test/Analysis and Uplink/Downlink Verification																												
JUWL		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
WIETC			■																									
AMDR Land Based Testing																												
SDTS INCO Firing												■																
ITB 3												■																
IOM Award				■																								
IOM Delivery												■																

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Navy			Date: February 2015
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604366N / <i>Standard Missile Improvements</i>	Project (Number/Name) 0439 / <i>Standard Missile Improvement</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 0439				
PDR	1	2014	1	2014
SSSTRP	2	2014	2	2014
WSESRB	3	2014	3	2014
CDR	3	2014	3	2014
SSSTRP 2	3	2015	3	2015
WSESRB 2	3	2015	3	2015
IOC	4	2016	4	2016
SSSTRP 3	3	2016	3	2016
WSESRB 3	3	2016	3	2016
AMDR MISSILE MODELS	2	2014	4	2015
JUWL Guidance and Round Level Testing	2	2015	3	2015
EMV Test/Analysis and Uplink/Downlink Verification	1	2016	4	2017
JUWL	1	2014	1	2017
WIETC	3	2014	3	2014
AMDR Land Based Testing	1	2017	4	2019
SDTS INCO Firing	4	2015	4	2015
ITB 3	4	2015	4	2015
IOM Award	4	2014	4	2014
IOM Delivery	4	2015	4	2015

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COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
3092: Standard Missile 6 Program	1,033.822	35.157	24.884	110.023	-	110.023	103.061	111.392	63.853	6.961	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		
Project MDAP/MAIS Code: 391												
A. Mission Description and Budget Item Justification												
This program leverages existing missile technology and advanced missile technology. It aligns missile technology roadmaps across the services (NAVSEA, NAVAIR, USAF, USMC and USA) and missile variants within the services, taking advantage of the Navy's investment in the AEGIS Weapons System (AWS), Cooperative Engagement Capability (CEC), and airborne early warning systems. This missile will provide an extended range engagement capability to provide the air superiority and the umbrella of protection for joint U.S. forces and allies against the full spectrum of manned-fixed and rotary-wing aircraft, unmanned aerial vehicles, and land attack and anti-ship cruise missiles in flight, thereby contributing to the continuous protection of forward deployed ground maneuver forces as well as theater rear assets as discussed in the Joint Theater Air Missile Defense (TAMD) Mission Need Statement (MNS), Defense Planning Guide (DPG), Quadrennial Defense Review (QDR), TAMD Capstone Requirements Document, Forward From the Sea, Joint Vision 2010/2020, the 2002/2003 Naval Transformational Roadmap, the Operational Requirements Document for SM-6 BLK 1, and the SM-6 Capability Production Document.												
SM-6 portion of Joint and Naval Integrated Fire Control is to support the integration, land-based and at-sea test, and analysis in support of the NIFC-CA test and evaluation strategy. The JROC directed Joint Land Attack Elevated Netted Sensor (JLENS) integration into the NIFC-CA kill chain was successfully live fire tested as well as the first land-based NIFC-CA SoS live fire test. The first at-sea NIFC-CA System of Systems (SoS) live fire at-sea test with AEGIS Baseline 9 commenced in the 4th Quarter of FY13 with subsequent Land-Based and At-Sea tests taking place in FY14. NIFC-CA Increment 2 commences in FY 16. It integrates sensor, SM-6 BLK 1A and AWS ACB 16 into an advanced from the sea (FTS) Kill chain. Efforts include support for the WSMR upgrade, Trackex events, and Live Fire test at land based and at-sea tests.												
Insensitive Munitions (IM) efforts support transition of technology associated with ONR HARDKILL Future Naval Capabilities reflected in a signed, level B, Technology Transition Agreement (TTA), endorsed by PEO IWS 3.0, OPNAV N96C, ONR and MDA AX.												
Portable All Up Round Bit Tester (PABTs) eliminates the need for missiles to be removed from the ship and transported to the Intermediate Logistics Maintenance Facility (ILMF) to undergo testing, reprogramming, and maintenance checks. PABTs development and subsequent delivery in FY16 will increase missile/asset availability to the fleet and result in significant maintenance savings over the SM-6 lifecycle.												
Future capabilities demonstration project supports SM demonstrations, captive flight tests, data collection, and analysis tasks.												

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title: Insensitive Munitions (IM) Articles: FY 2014 Accomplishments: The prime contractor continued to develop Electronic Arm-Fire Device (EAFD)/ISD technology at the subscale level. Safety plans and reviews with the safety community are planned. The bi-annual IM Program Objective and Memorandum (POA&M) (for FY15/16) was socialized and endorsed. The IM tech team continued to participate and collaborate with the ONR HARDKILL effort. FY 2015 Plans: The prime contractor will complete development of EAFD/ISD technology proof-of-concept. Safety plans and reviews with the safety community are planned. The IM tech team will continue to participate and collaborate with the ONR HARDKILL effort. FY 2016 Base Plans: Safety plans and reviews with the safety community are planned. The IM tech team will continue to participate and collaborate with the ONR HARDKILL effort. FY 2016 OCO Plans: N/A		4.114 -	1.000 -	1.000 -	- -	1.000 -
Title: Portable All-Up Round Bit Tester (PABTs) Articles: FY 2014 Accomplishments: Continued detailed design and development. FY 2015 Plans: Complete hardware/software Preliminary Design review (PDR) and interface development and support efforts for hardware/software Critical Design Review (CDR). FY 2016 Base Plans: N/A FY 2016 OCO Plans: N/A		5.000 -	1.000 -	- -	- -	- -
Title: Naval Integrated Fire Control - Counter Air (NIFC-CA)		5.775	1.943	2.106	-	2.106

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Articles:		-	-	-	-	-
FY 2014 Accomplishments: Successful execution of Live-Fire NIFC-CA tests at White Sands Missile Range (WSMR) (LFT-1) and successful execution of three at-sea live fire NIFC-CA tests at Point Mugu Test Center (PMTC). Successful execution of integration trackex events.						
FY 2015 Plans: Capabilities and limitations development. Analysis based on federated 6-DOF (Degrees of Freedom) and live fire test events to support IFC runs for the record. Execution of two live fire test at WSMR to include two trackex events. Simulation updates to NIFC-CA Federation.						
FY 2016 Base Plans: Requirements definition and generation of requirements for WSMR combat system upgrades. Support of WSMR combat system upgrade and integration. Support for development of NIFC-CA Increment 2 test strategy. Simulation updates for NIFC-CA end to end federation.						
FY 2016 OCO Plans: N/A						
Title: Future Capability Demonstration		20.268	20.941	106.917	-	106.917
Articles:		-	-	-	-	-
FY 2014 Accomplishments: Land Based Testing to support: Lethality test assessments, captive carry flight test, data collections, performance analysis tasks, reliability assessment, AEGIS Systems Requirement Review (SRR), and AEGIS Systems Functional Review (SFR).						
Studies to support: Network element trade study, weapon capability characterization study, inherent sensor capability study, and combat system implementation study.						
FY 2015 Plans: Control test vehicle tests at White Sands Missile Range, data collections, performance analysis tasks, reliability assessment, PDR for ABC, and Combat Systems Integration Test (CSIT). Integration testing of the entire architecture interfaces missile, data network, AEGIS, and airborne sensor.						
FY 2016 Base Plans:						

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy					Date: February 2015	
Appropriation/Budget Activity 1319 / 5			R-1 Program Element (Number/Name) PE 0604366N / <i>Standard Missile Improvements</i>		Project (Number/Name) 3092 / <i>Standard Missile 6 Program</i>	

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Prepare for and support an at sea demonstration event, Operational Test (OT)-5/15, and Tri-Capable Missile Regression Flight Tests. Collection of data, performance analysis and reliability assessments. Additional details are held at a higher classification.					
<i>FY 2016 OCO Plans:</i> N/A					
Accomplishments/Planned Programs Subtotals	35.157	24.884	110.023	-	110.023

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
• WPN 2234: <i>Standard Missile</i>	300.185	436.498	435.352	-	435.352	508.303	517.902	530.276	539.772	3,614.120	8,018.838
• Standard Missile: <i>QTY</i>	93.000	110.000	113.000	-	113.000	125.000	125.000	125.000	125.000	717.000	1,800.000

Remarks

D. Acquisition Strategy
SM-6 Acquisition Strategy signed by OSD AT&L 14 March 2012.

E. Performance Metrics
Accomplishments

- Development Test Flight Tests at PMRF - Jan 11
- Operational Test (OT) TRR - May 11
- OT Flight Tests at PMRF - Jul 11
- Low Rate Initial Production (LRIP) III Option II Contract Award - Jul 11
- LRIP IV Unfinitized Contract Agreement Contract Award - May 12
- Full Rate Production (FRP) Decision - April 13
- SM-6 SD&D Contract SPI is currently at 1.00 and CPI is at 1.00
- PRP Flight Test July 13
- FRP - 1st contract awarded Sept 13
- IOC Nov 13

Upcoming Milestones

- DT/OT DI - Jan 14 - Sept 14

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy		Date: February 2015
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- Integrated Fire Control (IFC) Apr 12 - Jul 16 - FRP 2 awarded June 14		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy												Date: February 2015			
Appropriation/Budget Activity 1319 / 5						R-1 Program Element (Number/Name) PE 0604366N / <i>Standard Missile Improvements</i>				Project (Number/Name) 3092 / <i>Standard Missile 6 Program</i>					
Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Design & Analysis	C/CPIF	RAYTHEON : Tucson, AZ	678.963	7.309	Mar 2014	4.091	Feb 2015	38.798	Nov 2015	-		38.798	Continuing	Continuing	Continuing
Design & Analysis	C/CPFF	JHU/APL : Laurel MD	46.013	3.049	Mar 2014	1.270	Feb 2015	4.535	Nov 2015	-		4.535	-	54.867	-
Design & Analysis	MIPR	MIT/Lin Lab : Lexington, MA	0.550	-		-		-		-		-	-	0.550	-
Design & Analysis	WR	NAWC : China Lake	4.587	0.050	Mar 2014	-		1.350	Nov 2015	-		1.350	-	5.987	-
Design & Analysis	WR	NSWC : Dahlgren	11.150	0.175	Mar 2014	0.054	Feb 2015	0.100	Nov 2015	-		0.100	-	11.479	-
Design & Analysis	WR	NSWC : Indian Head	3.562	0.300	Mar 2014	0.025	Feb 2015	0.070	Nov 2015	-		0.070	-	3.957	-
Design & Analysis	WR	NSWC : PHD	9.232	0.050	Mar 2014	0.560	Feb 2015	0.500	Nov 2015	-		0.500	-	10.342	-
Design & Analysis	WR	NSWC : Crane	1.256	-		-		-		-		-	-	1.256	-
Design & Analysis	MIPR	JSPO : Eglin AFB	24.049	-		-		-		-		-	-	24.049	-
Design & Analysis	C/CPFF	LOCKHEED Martin : Moorestown, NJ	6.074	-		-		-		-		-	-	6.074	-
Design & Analysis	WR	NSWC : Corona	16.559	0.100	Mar 2014	0.989	Feb 2015	0.500	Nov 2015	-		0.500	-	18.148	-
Design & Analysis	Reqn	ONR : Arlington, VA	5.320	-		-		-		-		-	-	5.320	-
Design & Analysis	Reqn	NRL : Washington, DC	0.090	-		-		-		-		-	-	0.090	-
Design & Analysis	WR	COMPTEVFOR : Norfolk, VA	2.155	-		0.100	Nov 2014	0.100	Nov 2015	-		0.100	-	2.355	-
Design & Analysis	WR	CARDEROCK : Philadelphia, PA	2.549	-		0.250	Feb 2015	0.660	Nov 2015	-		0.660	-	3.459	-
Design & Analysis	WR	NSWC : Pt Mugu	0.613	-		-		-		-		-	-	0.613	-
Design & Analysis	C/CPFF	BAE : Rockville, MD	6.446	-		-		-		-		-	-	6.446	-
Design & Analysis	MIPR	ARMY : Redstone	0.050	-		0.300	Feb 2015	0.500	Nov 2015	-		0.500	-	0.850	-
Design & Analysis	WR	NAWCAD : Pax River, MD	0.392	-		0.230	Feb 2015	1.704	Nov 2015	-		1.704	-	2.326	-
Design & Analysis	C/CPFF	CORVID : Mooresville, NC	2.900	-		0.500	Nov 2014	2.300	Nov 2015	-		2.300	-	5.700	-
Design & Analysis	C/CPFF	RNB : Arlington, VA	0.010	-		-		-		-		-	-	0.010	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy												Date: February 2015			
Appropriation/Budget Activity 1319 / 5						R-1 Program Element (Number/Name) PE 0604366N / <i>Standard Missile Improvements</i>				Project (Number/Name) 3092 / <i>Standard Missile 6 Program</i>					
Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Design & Analysis	WR	SPAWAR : Arlington, VA	0.007	-		-		-		-		-	-	0.007	-
Design & Analysis	WR	ARMY : Cecom	0.066	-		-		-		-		-	-	0.066	-
Design & Analysis	C/FP	GENERAL DYNAMICS : Falls Church, VA	1.660	-		-		-		-		-	-	1.660	-
Design & Analysis	WR	VARIOUS : (IWS 1A)	59.773	9.790	Mar 2014	4.702	Feb 2015	19.100	Nov 2015	-		19.100	-	93.365	-
Design & Analysis	WR	VARIOUS : (VLS)	24.877	0.050	Mar 2014	-		1.200	Nov 2015	-		1.200	-	26.127	-
Design & Analysis	WR	NSWC : WSMR	0.000	0.100	Mar 2014	-		0.500	Nov 2015	-		0.500	-	0.600	-
Design & Analysis	WR	PMRF : Hawaii	0.000	-		0.772	Feb 2015	0.600	Nov 2015	-		0.600	-	1.372	-
Design & Analysis	WR	DOI : Washington D.C.	0.000	-		0.342	Nov 2014	0.400	Nov 2015	-		0.400	-	0.742	-
Subtotal			908.903	20.973		14.185		72.917		-		72.917	-	-	-
Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Developmental Test & Evaluation	WR	NSWC : Port Hueneme	1.365	0.700	Mar 2014	1.591	Feb 2015	0.975	Nov 2015	-		0.975	-	4.631	-
Developmental Test & Evaluation	WR	NSWC : WSMR	24.142	1.900	Mar 2014	0.250	Feb 2015	0.375	Nov 2015	-		0.375	-	26.667	-
Developmental Test & Evaluation	WR	PMRF : Hawaii	38.201	-		2.099	Feb 2015	2.000	Nov 2015	-		2.000	-	42.300	-
Developmental Test & Evaluation	WR	NAWC : Pt Mugu	0.769	2.000	Mar 2014	0.300	Feb 2015	3.000	Nov 2015	-		3.000	-	6.069	-
Developmental Test & Evaluation	C/CPAF	RAYTHEON : Tucson, AZ	17.107	1.854	Mar 2014	1.668	Feb 2015	11.000	Nov 2015	-		11.000	-	31.629	-
Developmental Test & Evaluation	C/CPFF	JHU/APL : Laurel, MD	5.806	1.630	Mar 2014	0.875	Feb 2015	3.950	Nov 2015	-		3.950	-	12.261	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy												Date: February 2015			
Appropriation/Budget Activity 1319 / 5						R-1 Program Element (Number/Name) PE 0604366N / <i>Standard Missile Improvements</i>				Project (Number/Name) 3092 / <i>Standard Missile 6 Program</i>					
Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Developmental Test & Evaluation	WR	NSWC : Corona	5.098	1.620	Mar 2014	0.300	Feb 2015	1.485	Nov 2015	-		1.485	-	8.503	-
Developmental Test & Evaluation	WR	NSWC : Dahlgren	0.958	0.550	Mar 2014	-		0.800	Nov 2015	-		0.800	-	2.308	-
Developmental Test & Evaluation	WR	VLS : Arlington, VA	1.894	0.150	Mar 2014	0.150	Nov 2014	0.325	Nov 2015	-		0.325	-	2.519	-
Developmental Test & Evaluation	WR	COMPTEVFOR : Norfolk, Va	1.364	-		-		0.300	Nov 2015	-		0.300	-	1.664	-
Developmental Test & Evaluation	WR	VARIOUS : (IWS 1A)	0.902	-		1.330	Feb 2015	4.800	Nov 2015	-		4.800	-	7.032	-
Developmental Test & Evaluation	WR	NSWC : Carderock	0.000	2.000	Mar 2014	-		0.200	Nov 2015	-		0.200	-	2.200	-
Developmental Test & Evaluation	WR	NAWC : China Lake	0.000	-		-		1.130	Nov 2015	-		1.130	-	1.130	-
Developmental Test & Evaluation	WR	ONR : Arlington, Va	0.000	-		0.536	Feb 2015	2.000	Nov 2015	-		2.000	-	2.536	-
Developmental Test & Evaluation	WR	DOI : Washington D.C.	0.000	-		-		0.864	Nov 2015	-		0.864	-	0.864	-
Subtotal			97.606	12.404		9.099		33.204		-		33.204	-	152.313	-
Management Services (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Contractor Engineering Services	C/CPAF	VARIOUS : Various	25.051	1.730	Mar 2014	1.500	Feb 2015	3.851	Nov 2015	-		3.851	-	32.132	-
Travel	Various	IWS3 : Arlington, VA	1.132	0.050	Mar 2014	0.100	Feb 2015	0.051	Nov 2015	-		0.051	-	1.333	-
DAWDF	C/FP	Not Specified : Not Specified	1.130	-		-		-		-		-	-	1.130	-
Subtotal			27.313	1.780		1.600		3.902		-		3.902	-	34.595	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy										Date: February 2015				
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	Prior Years	FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals	1,033.822	35.157		24.884		110.023		-		110.023	-	-	-	
Remarks														

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Navy

Date: February 2015

Appropriation/Budget Activity

1319 / 5

R-1 Program Element (Number/Name)

PE 0604366N / Standard Missile
Improvements

Project (Number/Name)

3092 / Standard Missile 6 Program

	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	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
Proj 3092																												
IOC	■																											
Full Operational Capability (FOC)								■																				
DT/OT DI (FOT&E)		■	■	■	■	■	■	■																				
Runs for the Record					■	■																						
Runs for the Record Final Report								■																				
Future Capability Demonstration Captive Flight Test (CFT) 1		■	■																									
Future Capability Demonstration Base Test (LBT) 1																	■	■										
Future Capability Demonstration At-Sea test 1						■	■																					
Future Capability Demonstration SRR	■	■																										
Future Capability Demonstration SFR			■	■																								
Future Capability Demonstration PDR								■	■																			
Integrated Fire Control	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
NIFC-CA LFT -2		■	■																									
NIFC-CA AS-2			■	■																								
NIFC-CA LIVE FIRE (WSMR)						■	■																					
NIFC-CA LIVE FIRE 2 (WSMR)									■	■																		
NIFC-CA LIVE FIRE											■	■																
NIFC-CA CDR													■	■														
NIFC-CA I&T																	■	■										
NIFC-CA Increment 2 Live Firing Testing																					■	■						
Integrated Fire Control Increment 2																								■	■	■	■	■

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Navy

Date: February 2015

Appropriation/Budget Activity

1319 / 5

R-1 Program Element (Number/Name)

PE 0604366N / Standard Missile
Improvements

Project (Number/Name)

3092 / Standard Missile 6 Program

	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	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
Low-Rate Initial Production III Deliveries																												
Low-Rate Initial Production IV Deliveries																												
Full Rate Production (FRP) 1 Deliveries																												
Full Rate Production (FRP) 2 Deliveries																												
Full Rate Production (FRP) 3 Deliveries																												
Full Rate Production (FRP) 4 Deliveries																												
Full Rate Production (FRP) 5 Deliveries																												
Full Rate Production (FRP) 2 Award																												
Full Rate Production (FRP) 3 Award																												
Full Rate Production (FRP) 4 Award																												
Full Rate Production (FRP) 5 Award																												
Full Rate Production (FRP) 6 Award																												
OT-5/15 Flight Test																												
Future Capability Tri-Capable Missile Regression Flight Tests																												
Future Capability Demonstration Captive Flight Test (CFT) 2																												
Future Capability Demonstration Captive Flight Test (CFT) 3																												
Future Capability Demonstration Base Test (LBT) 2																												
Future Capability Demonstration At-Sea test 2																												
Future Capability Demonstration At-Sea test 3																												
Future Capability Demonstration At-Sea test 4																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Navy			Date: February 2015
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604366N / <i>Standard Missile Improvements</i>	Project (Number/Name) 3092 / <i>Standard Missile 6 Program</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 3092				
IOC	1	2014	1	2014
Full Operational Capability (FOC)	4	2015	4	2015
DT/OT DI (FOT&E)	2	2014	2	2015
Runs for the Record	1	2015	1	2015
Runs for the Record Final Report	4	2015	4	2015
Future Capability Demonstration Captive Flight Test (CFT) 1	2	2014	2	2014
Future Capability Demonstration Base Test (LBT) 1	2	2018	2	2018
Future Capability Demonstration At-Sea test 1	2	2015	2	2015
Future Capability Demonstration SRR	1	2014	1	2014
Future Capability Demonstration SFR	3	2014	3	2014
Future Capability Demonstration PDR	3	2015	3	2015
Integrated Fire Control	1	2014	3	2018
NIFC-CA LFT -2	2	2014	2	2014
NIFC-CA AS-2	3	2014	3	2014
NIFC-CA LIVE FIRE (WSMR)	2	2015	2	2015
NIFC-CA LIVE FIRE 2 (WSMR)	1	2016	1	2016
NIFC-CA LIVE FIRE	4	2016	4	2016
NIFC-CA CDR	1	2017	1	2017
NIFC-CA I&T	2	2018	2	2018
NIFC-CA Increment 2 Live Firing Testing	4	2018	4	2018
Integrated Fire Control Increment 2	4	2018	4	2020

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Navy			Date: February 2015		
Appropriation/Budget Activity 1319 / 5		R-1 Program Element (Number/Name) PE 0604366N / Standard Missile Improvements		Project (Number/Name) 3092 / Standard Missile 6 Program	
		Start		End	
Events by Sub Project		Quarter	Year	Quarter	Year
Low-Rate Initial Production III Deliveries		1	2014	2	2014
Low-Rate Initial Production IV Deliveries		3	2014	2	2015
Full Rate Production (FRP) 1 Deliveries		3	2015	2	2016
Full Rate Production (FRP) 2 Deliveries		3	2016	2	2017
Full Rate Production (FRP) 3 Deliveries		3	2017	2	2018
Full Rate Production (FRP) 4 Deliveries		3	2018	2	2019
Full Rate Production (FRP) 5 Deliveries		3	2019	2	2020
Full Rate Production (FRP) 2 Award		4	2014	4	2014
Full Rate Production (FRP) 3 Award		2	2015	2	2015
Full Rate Production (FRP) 4 Award		2	2016	2	2016
Full Rate Production (FRP) 5 Award		2	2017	2	2017
Full Rate Production (FRP) 6 Award		2	2018	2	2018
OT-5/15 Flight Test		2	2016	3	2016
Future Capability Tri-Capable Missile Regression Flight Tests		2	2016	4	2016
Future Capability Demonstration Captive Flight Test (CFT) 2		2	2015	4	2015
Future Capability Demonstration Captive Flight Test (CFT) 3		2	2017	4	2017
Future Capability Demonstration Base Test (LBT) 2		4	2018	4	2018
Future Capability Demonstration At-Sea test 2		2	2016	2	2016
Future Capability Demonstration At-Sea test 3		3	2018	3	2018
Future Capability Demonstration At-Sea test 4		3	2019	3	2019