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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy										Date: March 2014		
Appropriation/Budget Activity 1319: Research, Development, Test & Evaluation, Navy / BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0605500N / Multi-mssn Maritime Aircraft (MMA) (P-8A)							
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	7,232.670	391.364	272.352	308.037	-	308.037	257.692	227.845	202.416	194.355	Continuing	Continuing
2696: Multi-Mission Maritime Aircraft	7,154.707	306.383	185.211	150.550	-	150.550	115.768	39.386	18.120	-	-	7,970.125
3181: P-8A Spiral One Development	61.934	52.280	54.144	68.458	-	68.458	20.385	-	-	-	-	257.201
3218: P-8A Spiral 2 Development	6.029	19.212	27.997	89.029	-	89.029	120.018	186.373	181.223	184.115	Continuing	Continuing
3368: P-8 Improvements	0.000	-	-	-	-	-	1.521	2.086	3.073	10.240	Continuing	Continuing
9999: Congressional Adds	10.000	13.489	5.000	-	-	-	-	-	-	-	-	28.489
MDAP/MAIS Code: 334												
# The FY 2015 OCO Request will be submitted at a later date.												
A. Mission Description and Budget Item Justification												
The P-8A Multi-mission Maritime Aircraft will replace the aging P-3 aircraft. The P-8A program was initiated in response to the Joint Requirements Oversight Council (JROC) validated Mission Needs Statement, "Broad Area Maritime and Littoral Armed Intelligence, Surveillance and Reconnaissance" and the requirements for the program are defined in the P-8A Capability Production Document #791-88-09, validated and approved on 22 June 2009. A successful Critical Design Review was completed in June 2007. In August 2007 the Design Readiness Review was conducted and resulted in approval to obligate funding for the fabrication of the Stage II flight test aircraft. The first flight of P-8A occurred on 25 Apr 2009. Milestone (MS) C was successfully completed on 11 August 2010. The program completed Initial Operational Test and Evaluation (IOT&E) in March 2013 and achieved Initial Operational Capability (IOC) in November 2013. The Acquisition Decision Memorandum for the Full Rate Production review was approved on January 3, 2014.												
The primary objectives of Systems Development and Demonstration (SDD) are to perform the system detailed design, develop and produce Systems Integration Labs, develop and build ground and flight test articles, and conduct ground and flight tests to sucessfully achieve program milestones. Ground testing includes the conduct of static testing, fatigue testing and Live Fire Test and Evaluation. Six flight test aircraft have been built during SDD. These test aircraft are grouped into two stages based on which phase of the test program the aircraft will support. SDD Stage I flight test aircraft (FY06/Qty-3) support Integrated Test and Evaluation (IT&E). SDD Stage II flight test aircraft (FY09/Qty-3) support the completion of IT&E and Initial Operational Test and Evaluation (IOT&E) after being updated to the production configuration. The SDD contract includes the development and initial building of training devices to support IOT&E. The scope of SDD includes activities necessary to facilitate an efficient transition of the fleet to achieve the P-8A Initial Operational Capability (IOC) of Increment 1 in CY13. The scope of SDD also includes the engineering and verification of correction of deficiencies identified in testing and Fleet operational use. P-8A entered Production and Deployment phase in the 4th quarter of FY10 after completing MS-C Defense Acquisition Board.												

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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 0605500N / <i>Multi-mssn Maritime Aircraft (MMA) (P-8A)</i>
P-8A program is based on an evolutionary acquisition strategy consisting of sequential incremental enhancements to system capabilities that will retain cost-wise effectiveness for winning major combat operations beyond 2020. In order to pace the threat, Spiral One (Increment 2), the Next Phase of Capabilities, will incorporate the following capabilities into the P-8A: Multi-Static Active Coherent (MAC), Automatic Identification System, Rapid Capabilities Insertion (RCI), updates to the Tactical Operations Center (TOC), as well as additional Anti-Submarine Warfare (ASW), Anti-Surface Warfare (ASuW) and Intelligence Surveillance and Reconnaissance capabilities as Engineering Change Proposals (ECPs). The scope of this effort includes the integration, design, and test of the capability enhancements to the P-8A and associated Tactical Operations Center ground support facilities and initial trainers. Integration and test of these capabilities as well as integration of Advanced Airborne Sensor (AAS) capability will be accomplished incrementally, based on the scope of the integration effort. As part of the P-8A evolutionary acquisition strategy, Spiral 2 (Increment 3) will incorporate the capabilities defined in the Capability Development Document approved by JROC on 25 June 2010. In order to pace the threat, the Spiral 2 (Increment 3) will incorporate the following capabilities into the P-8A: MAC Enhancement, RCI ECP's including ECP3 (early delivery of HAAWC Datalink), updates to the TOC, as well as additional ASW, ASuW and Intelligence Surveillance and Reconnaissance capabilities. These capabilities and other emergent capability requirements will be investigated during the Pre-Engineering Manufacturing Development phase of Spiral 2 (Increment 3) for the P-8A and Tactical Operations Center (ground support facility). Acquisition Decision Memorandum, dated 18 October 2013, approved Pre-Engineering Development activities leading up to MS-B. The P-8A Multi-mission Maritime Aircraft (MMA) program is based on an evolutionary acquisition strategy including a sequence of Rapid Capability Insertions (RCI) that will retain cost-wise effectiveness for winning major combat operations beyond 2020. In order to pace the threat, RCIs will incorporate incremental software and hardware improvements to existing sensors, communications systems and weapons capabilities to build on the P-8A Spiral 2 (Increment 3) Applications Based Architecture (ABA) and capability baseline. These capabilities, and other emergent capability requirements, will be prioritized through the Navy Integration and Interoperability (I&I)-aligned Capability Prioritization Process (CPP) and P-8A Tier 3 Capability Roadmap. The CPP process will be supported by detailed analysis and the maturation of developing technologies. Budget Activity 5. JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under SYSTEM DEVELOPMENT AND DEMONSTRATION because it includes those projects that have passed Milestone B approval and are conducting engineering and manufacturing development tasks aimed at meeting validated requirement prior to full-rate production decision.		

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Appropriation/Budget Activity 1319: Research, Development, Test & Evaluation, Navy / BA 5: System Development & Demonstration (SDD)		R-1 Program Element (Number/Name) PE 0605500N / Multi-mssn Maritime Aircraft (MMA) (P-8A)				
B. Program Change Summary (\$ in Millions)		FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget		421.102	317.358	356.817	-	356.817
Current President's Budget		391.364	272.352	308.037	-	308.037
Total Adjustments		-29.738	-45.006	-48.780	-	-48.780
• Congressional General Reductions		-	-0.006			
• Congressional Directed Reductions		-	-50.000			
• Congressional Rescissions		-	-			
• Congressional Adds		-	5.000			
• Congressional Directed Transfers		-	-			
• Reprogrammings		-	-			
• SBIR/STTR Transfer		-12.390	-			
• Program Adjustments		-	-	66.438	-	66.438
• Rate/Misc Adjustments		-	-	-115.218	-	-115.218
• Congressional General Reductions Adjustments		-32.348	-	-	-	-
• Congressional Add Adjustments		15.000	-	-	-	-
Congressional Add Details (\$ in Millions, and Includes General Reductions)						
Project: 9999: Congressional Adds						
Congressional Add: Small Business Technology Insertion						
Congressional Add: P-8A Sensor Development - Cong						
Congressional Add Subtotals for Project: 9999						
Congressional Add Totals for all Projects						
Change Summary Explanation						
Technical: Not applicable.						
Schedule:						
Project 2696: Initial Operational Test & Evaluation was completed on 25 March 2013. At a 26 June 2013 DAB, the program received approval to change the program strategy to include an LRIP Lot 4 in FY13 and to defer the Full Rate Production (FRP) DAB until FY14. LRIP Lot 4 contract was awarded in July 2013. Initial Operational Capability (IOC) was achieved in November 2013 and the FRP decision was approved on January 3, 2014. IT&E extended through 2Q FY18. FOT&E 3 (VCD) start moved from 2Q FY18 to 4Q FY16 and end date moved from 3Q FY18 to 1Q FY17. FRP Contract Award moved from 4Q FY13 to 2Q FY14. LRIP task end date moved from 3Q FY15 to 3Q FY16.						

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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 0605500N / <i>Multi-mssn Maritime Aircraft (MMA) (P-8A)</i>
Project 3181: Technology Development (TD)/Risk Reduction Phase extended to 4Q FY13, OT&E (EOC) shifted from 4Q FY13 start to 3Q FY14 start to correct software deficiencies. Retrofit Kits (ECP1) moved from 1Q FY14 to 3Q FY14. Kit Delivery start date moved from 3Q FY14 to 2Q FY15 and end date moved from 4Q FY17 to 1Q FY18. Project 3218: Scheduling adjustments reflect signed Acquisition Strategy and current funding profile. The Acquisition Strategy signed by OSD on 18 October 2013, authorizes execution of Pre-EMD activities leading up to a MS B, eliminating MS A. Based on current program profile: MS B moved from 3Q FY16 to 2Q FY17. MS C changed from 2Q FY18 to 2Q FY19. Prototyping task end date extended from 2Q FY16 to 2Q FY17. EMD start date moved from 3Q FY16 to 2Q FY17 and end date moved from 1Q FY18 to 2Q FY19. Preliminary Design Review changed from 1Q FY16 to 4Q FY 16, Critical Design Review changed from 1Q FY17 to 2Q FY18. Lab Testing start date moved from 2Q FY15 to 1Q FY16, and the end date moved from 1Q FY17 to 4Q FY18. IT start date moved from 2Q FY17 to 1Q FY18. To add further fidelity to the schedule the following changes were made: Tech Dev / Risk Reduction task became separate lines named H/W Dev and Risk Reduction with the end date extended from 3Q FY16 to 2Q FY17. Tech Dev/Risk Reduction contract award became separate actions named H/W Dev ABA and Risk Reduction with the award shifting from 2QFY14 to 3Q FY14 for Risk Reduction and 4Q FY14 for ABA; Engineering and Manufacturing Development (EMD) Contract Award was separated to become EMD ABA and EMD Platform Integration and moved from 3Q FY16 to 2Q F17; and added Capability Development & Integration task.		

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy										Date: March 2014		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0605500N / Multi-mssn Maritime Aircraft (MMA) (P-8A)				Project (Number/Name) 2696 / Multi-Mission Maritime Aircraft			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
2696: Multi-Mission Maritime Aircraft	7,154.707	306.383	185.211	150.550	-	150.550	115.768	39.386	18.120	-	-	7,970.125
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
A. Mission Description and Budget Item Justification												
The P-8A Multi-mission Maritime Aircraft (MMA) will replace the aging P-3 aircraft. The P-8A program was initiated in response to the Joint Requirements Oversight Council (JROC) validated Mission Needs Statement (MNS), "Broad Area Maritime and Littoral Armed Intelligence, Surveillance and Reconnaissance" and the requirements for the program are defined in the P-8A Capability Production Document (CPD) #791-88-09, validated and approved on 22 June 2009. A successful Critical Design Review was completed in June 2007. In August 2007 the Design Readiness Review was conducted and resulted in approval to obligate funding for the fabrication of the Stage II flight test aircraft. The first flight of P-8A occurred on 25 Apr 2009. Milestone (MS) C was successfully completed on 11 August 2010. The program completed Initial Operational Test and Evaluation (IOT&E) in March 2013 and achieved Initial Operational Capability (IOC) in November 2013. The Acquisition Decision Memorandum for the Full Rate Production review was approved on January 3, 2014.												
The primary objectives of System Development and Demonstration (SDD) are to: perform the system detailed design, develop and produce Systems Integration Labs, develop and build ground and flight test articles, conduct ground and flight tests and prepare for milestones. Ground testing includes the conduct of static testing, fatigue testing and Live Fire Test and Evaluation. Six flight test aircraft have been built during SDD. These test aircraft are grouped into two stages based on which phase of the test program the aircraft will support. SDD Stage I flight test aircraft (FY06/Qty-3) support Integrated Test and Evaluation (IT&E). SDD Stage II flight test aircraft (FY09/Qty-3) support the completion of IT&E and Initial Operational Test and Evaluation (IOT&E) after being updated to the production configuration. The SDD contract includes the development and initial builds of training devices to support IOT&E. The scope of SDD includes activities necessary to facilitate an efficient transition of the fleet to achieve the P-8A Initial Operational Capability of Increment 1 in CY13. The scope of SDD also includes the engineering and verification of correction of deficiencies identified in testing and Fleet operational use. P-8A entered Production and Deployment phase in the 4th quarter of FY10 after completing MS-C Defense Acquisition Board.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2013	FY 2014	FY 2015	
Title: Continue System Development & Demonstration									258.855	161.874	129.318	
									Articles: -	-	-	
FY 2013 Accomplishments:												
SDD phase. Scope of effort included: design and test P-8A SIL, ground and flight test articles (SDD Stage I, FY06, Qty-3; SDD Stage II, FY09, Qty-3), other test articles, associated Tactical Operations Center (TOC) systems, and training devices to support continuation of engineering for correction of deficiencies, completion of Initial Operational Test & Evaluation (IOT&E) and start of Follow-on Operational Test & Evaluation/Verification Corrected Deficiencies (FOT&E/VCD) and verification of correction of												

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014		
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605500N / Multi-mssn Maritime Aircraft (MMA) (P-8A)	Project (Number/Name) 2696 / Multi-Mission Maritime Aircraft		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014	FY 2015
deficiencies. Conducted periodic cost and schedule performance reviews associated with Earned Value Management (EVM) and prepared and conducted technical, test and logistic reviews.				
FY 2014 Plans: SDD phase. Scope of effort includes: ground and flight test articles (SDD Stage I, FY06, Qty-3; SDD Stage II, FY09, Qty-3), other test articles, associated TOC Systems, and training devices to support continuation of engineering for correction of deficiencies and FOT&E/VCD and verification of correction of deficiencies. Conduct the periodic cost and schedule performance reviews associated with EVM and prepare and conduct technical, test and logistic reviews.				
FY 2015 Plans: SDD phase. Scope of effort includes: engineering for identified deficiencies, support and update to ground and flight test articles (Stage I and II), conduct of fatigue testing, updates and test of TOC Systems and training systems, conduct of Integrated Test and Evaluation (IT&E) and FOT&E/VCD. Conduct of periodic cost and schedule performance reviews associated with EVM and preparation and conduct of technical, test and logistic reviews.				
Title: Continue Engineering and Technical Development and Test for Sys Dev & Demonstration contracts		47.528	23.337	21.232
Articles:		-	-	-
FY 2013 Accomplishments: Continued analysis of contracted deliverables; directed technical and logistic support of system development and delivery; assessment of contractors readiness to proceed in design/development; evaluated contract cost, schedule, and performance; test preparations, provided necessary government furnished equipment and test articles, risk assessment/mitigation; program control; performance status; and planned and prepared for future Milestone/Decision Reviews and developed associated documentation. Modeling & Simulation tools developed to assess proposed risk mitigations. Conducted and supported IT&E, IOT&E, Live Fire Test & Evaluation (LFT&E) and Follow-On Test & Evaluation/Verification Corrected Deficiencies (FOT&E/VCD).				
FY 2014 Plans: Continue analysis of contracted deliverables; direct technical and logistic support of system development test aircraft; engineering for correction of deficiencies; verification of correction of deficiencies; evaluate contract cost, schedule, and performance; test preparations, provide necessary government furnished equipment and test articles, risk assessment/mitigation; program control; and performance status. Conduct and support IT&E and FOT&E/VCD				
FY 2015 Plans: Continue analysis of contracted deliverables; direct technical and logistic support of system development test aircraft; engineering for correction of deficiencies; verification of correction of deficiencies; evaluate contract cost, schedule, and performance; test				

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy										Date: March 2014		
Appropriation/Budget Activity 1319 / 5				R-1 Program Element (Number/Name) PE 0605500N / Multi-mssn Maritime Aircraft (MMA) (P-8A)				Project (Number/Name) 2696 / Multi-Mission Maritime Aircraft				
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)										FY 2013	FY 2014	FY 2015
preparations, provide necessary government furnished equipment and test articles, risk assessment/mitigation; program control; and performance status. Conduct and support IT&E and FOT&E/VCD.												
Accomplishments/Planned Programs Subtotals										306.383	185.211	150.550
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost	
• APN1/0193: P-8A MMA	2,585.181	3,359.525	2,051.784	-	2,051.784	3,205.188	2,587.718	2,597.225	1,713.216	57.075	24,002.463	
• APN6/0605: P-8A Initial Spares	151.170	21.858	0.204	-	0.204	9.802	16.206	16.504	-	-	471.554	
• MILCON: P-8A MILCON	-	105.919	27.826	-	27.826	126.694	-	-	-	-	367.873	
Remarks												
D. Acquisition Strategy												
The MMA Milestone 0 was approved 22 March 2000 and the resulting Acquisition Decision Memorandum directed P-8A to begin the Concept Exploration phase consisting of an Analysis of Alternatives and industry concept studies. These activities began 3Q/01 and were funded under Program Element 0702207N Project Unit W2737. Approval to enter Component Advance Development (CAD) was attained from the Overarching Integrated Product Team on 18 Jan 2002 and the Milestone Decision Authority Under Secretary of Defense for Acquisition, Technology, & Logistics approved the program Acquisition Strategy on 8 Feb 2002. The CAD was a competitive award to multiple contractors to define alternative MMA concept system architectures and evaluate associated risks and proposed mitigations. Selection of MMA concept and approval to enter SDD phase occurred at MS B decision review on 28 May 2004. The contract was awarded to Boeing on 14 June 2004. The SDD phase is being used to design, develop and test the P-8A system. The P-8A program was initiated in response to the Joint Requirements Oversight Council validated Mission Needs Statement, "Broad Area Maritime and Littoral Armed Intelligence, Surveillance and Reconnaissance" and the requirements for the program are defined in the Capability Production Document. MS C was successfully completed on 11 August 2010 approving entry into the Production and Deployment Phase. P-8A Initial Operational Capability achieved in November 2013.												
E. Performance Metrics												
Completed Initial Operational Test & Evaluation 2nd quarter 2013												

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Navy **Date:** March 2014

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605500N / Multi-mssn Maritime Aircraft (MMA) (P-8A)	Project (Number/Name) 2696 / Multi-Mission Maritime Aircraft
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Product Development (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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
Award Fee for Primary HW	C/CPAF	Boeing : Seattle, WA	195.505	10.826	Jun 2013	-		-		-		-	-	206.331	206.331
Primary HW Dev - Boeing	C/CPAF	Boeing : Seattle, WA	6,384.241	245.442	Oct 2012	157.180	Oct 2013	124.868	Oct 2014	-		124.868	130.225	7,041.956	7,041.956
Primary HW Dev - SPAWAR	WR	SPAWAR : San Diego, CA	41.245	1.081	Nov 2012	-		-		-		-	-	42.326	-
Sys Eng (gov)	WR	NAWC AD : Pax River, MD	63.655	1.506	Nov 2012	4.694	Nov 2013	4.450	Nov 2014	-		4.450	9.197	83.502	-
Prior year Prod Dev cost no longer funded in the FYDP	Various	Various : Various	71.469	-		-		-		-		-	-	71.469	-
Subtotal				6,756.115	258.855		161.874		129.318		-	129.318	139.422	7,445.584	-

Remarks

Due to sequestration and other budget uncertainties, program office slowed work and subsequently received an underexecution mark in FY15. This underexecution mark is not apparent due to the increase received for correction of deficiencies. The total award fee issued to date was 2.4% of the total budget. No award fee is planned for FY 2014 based on current contract.

Support (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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
Int. Log Gov	WR	NAWC AD : Pax River, MD	41.824	1.538	Nov 2012	1.335	Nov 2013	0.643	Nov 2014	-		0.643	1.170	46.510	-
Int. Log Gov	WR	NAWC TSD : Orlando, FL	15.030	0.709	Nov 2012	-		0.135	Nov 2014	-		0.135	-	15.874	-
Tech Dev Gov	WR	NAWC AD : Pax River, MD	69.835	1.004	Nov 2012	1.000	Nov 2013	1.584	Nov 2014	-		1.584	1.298	74.721	-
Prior year Support cost no longer funded in the FYDP	Various	Various : Various	16.082	-		-		-		-		-	-	16.082	-
Subtotal				142.771	3.251		2.335		2.362		-	2.362	2.468	153.187	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Navy **Date:** March 2014

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605500N / Multi-mssn Maritime Aircraft (MMA) (P-8A)	Project (Number/Name) 2696 / Multi-Mission Maritime Aircraft
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Test and Evaluation (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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
Dev T&E - Gov	WR	NAWC AD : Pax River, MD	69.233	10.582	Nov 2012	7.250	Nov 2013	7.261	Nov 2014	-		7.261	11.757	106.083	-
GFE & GFI	WR	NAWC AD : Pax River, MD	56.093	16.023	Nov 2012	4.933	Nov 2013	4.000	Nov 2014	-		4.000	10.592	91.641	-
LFT&E - Gov	WR	NAWC WD : China Lake	25.971	2.946	Nov 2012	0.111	Nov 2013	-		-		-	-	29.028	-
Oper Test & Eval	WR	NAWC AD : Pax River, MD	2.286	6.680	Nov 2012	3.000	Nov 2013	3.000	Nov 2014	-		3.000	3.900	18.866	-
Prior year T&E cost no longer funded in the FYDP	Various	Various : Various	10.487	-		-		-		-		-	-	10.487	-
Subtotal			164.070	36.231		15.294		14.261		-		14.261	26.249	256.105	-

Remarks

Funding increased in FY15 for correction of deficiencies identified during IOT&E and FOT&E.

Management Services (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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
Mgmt Suppt Serv (NON-FFRDC)	C/CPFF	RBC INC : Alexandria, VA	24.213	2.901	Nov 2012	0.628	Nov 2013	0.622	Nov 2014	-		0.622	1.866	30.230	30.230
Eng Tech Serv (NON-FFRDC)	C/CPFF	ASEC : Lexington Park MD	6.512	1.113	Nov 2012	0.404	Nov 2013	0.400	Nov 2014	-		0.400	1.200	9.629	9.629
Program Mgmt Support	WR	NAWC AD : Pax River, MD	37.567	3.805	Nov 2012	4.551	Nov 2013	3.462	Nov 2014	-		3.462	1.821	51.206	-
Travel	Various	NAWC AD : Pax River, MD	3.399	0.227	Oct 2012	0.125	Oct 2013	0.125	Nov 2014	-		0.125	0.248	4.124	-
Prior year Mgmt cost no longer funded in the FYDP	Various	Various : Various	20.060	-		-		-		-		-	-	20.060	-
Subtotal			91.751	8.046		5.708		4.609		-		4.609	5.135	115.249	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Navy										Date: March 2014				
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0605500N / <i>Multi-mssn Maritime Aircraft (MMA) (P-8A)</i>					Project (Number/Name) 2696 / <i>Multi-Mission Maritime Aircraft</i>				
	Prior Years	FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals	7,154.707	306.383		185.211		150.550		-		150.550	173.274	7,970.125	-	
Remarks														

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PE 0605500N: *Multi-mssn Maritime Aircraft (MMA) (P-8A)*
Navy

R-1 Line #142

1319 / 5

PE 0605500N / Multi-mssn Maritime Aircraft
(MMA) (P-8A)

2696 / Multi-Mission Maritime Aircraft



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Exhibit R-4, RDT&E Schedule Profile: PB 2015 Navy																				Date: March 2014				
Appropriation/Budget Activity										R-1 Program Element (Number/Name)										Project (Number/Name)				
1319 / 5										PE 0605500N / Multi-mssn Maritime Aircraft (MMA) (P-8A)										2696 / Multi-Mission Maritime Aircraft				
FRP 2										2										1				
FRP 3										2										2				
FRP 4										1										2				
2015PB - 0605500N - 2696										3										3				

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Exhibit R-4A, RDT&E Schedule Details: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605500N / <i>Multi-mssn Maritime Aircraft (MMA) (P-8A)</i>	Project (Number/Name) 2696 / <i>Multi-Mission Maritime Aircraft</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Multi-Mission Maritime Aircraft</i>				
Acquisition Milestones: Milestones: Full Rate Production (FRP) Decision	1	2014	1	2014
Acquisition Milestones: Milestones: Initial Operating Capability (IOC)	1	2014	1	2014
Systems Development: Hardware/Software Development: System Development & Demonstration (SDD)	1	2013	3	2013
Systems Development: Hardware/Software Development: Production and Deployment	1	2013	4	2018
Systems Development: Hardware/Software Development: Correction of Deficiencies Engineering	1	2013	4	2018
Test & Evaluation: Technical Evaluation: Integrated Test & Evaluation (Flight Test)	1	2013	2	2018
Test & Evaluation: Operational Evaluation: Initial Operational Test and Evaluation (IOT&E)	1	2013	2	2013
Test & Evaluation: Operational Evaluation: Fatigue Testing	1	2013	4	2018
Test & Evaluation: Operational Evaluation: Follow-on Test & Evaluation 1 (Defferals & High Priority Correction of Deficiencies)	3	2013	1	2014
Test & Evaluation: Operational Evaluation: Follow-on Test & Evaluation 2 (Verification of Correction of Deficiencies)	2	2015	3	2015
Test & Evaluation: Operational Evaluation: Follow-on Test & Evaluation 3 (Verification of Correction of Deficiencies)	4	2016	1	2017
Production Milestones: Low Rate Initial Production (LRIP)	1	2013	3	2016
Production Milestones: Full Rate Production (FRP)	3	2014	4	2019
Production Milestones: Contract Awards: LRIP Lot #4 (APN)	4	2013	4	2013
Production Milestones: Contract Awards: FRP Contract Award	2	2014	2	2014
Deliveries: LRIP 1: LRIP Aircraft (APN) Q1 2013	1	2013	1	2013
Deliveries: LRIP 1: LRIP Aircraft (APN) Q2 2013	2	2013	2	2013

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Exhibit R-4A, RDT&E Schedule Details: PB 2015 Navy			Date: March 2014	
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605500N / Multi-mssn Maritime Aircraft (MMA) (P-8A)		Project (Number/Name) 2696 / Multi-Mission Maritime Aircraft	
	Start		End	
Events by Sub Project	Quarter	Year	Quarter	Year
Deliveries: LRIP 2: LRIP Aircraft (APN) Q2 2013	2	2013	2	2013
Deliveries: LRIP 2: LRIP Aircraft (APN) Q3 2013	3	2013	3	2013
Deliveries: LRIP 2: LRIP Aircraft (APN) Q4 2013	4	2013	4	2013
Deliveries: LRIP 2: LRIP Aircraft (APN) Q1 2014	1	2014	1	2014
Deliveries: LRIP 3: LRIP Aircraft (APN) Q3 2014	3	2014	3	2014
Deliveries: LRIP 3: LRIP Aircraft (APN) Q4 2014	4	2014	4	2014
Deliveries: LRIP 3: LRIP Aircraft (APN) Q1 2015	1	2015	1	2015
Deliveries: LRIP 3: LRIP Aircraft (APN) Q2 2015	2	2015	2	2015
Deliveries: LRIP 3: LRIP Aircraft (APN) Q3 2015	3	2015	3	2015
Deliveries: LRIP 4: LRIP Aircraft (APN) Q3 2015	3	2015	3	2015
Deliveries: LRIP 4: LRIP Aircraft (APN) Q4 2015	4	2015	4	2015
Deliveries: LRIP 4: LRIP Aircraft (APN) Q1 2016	1	2016	1	2016
Deliveries: LRIP 4: LRIP Aircraft (APN) Q2 2016	2	2016	2	2016
Deliveries: LRIP 4: LRIP Aircraft (APN) Q3 2016	3	2016	3	2016
Deliveries: FRP 1: FRP Aircraft (APN) Q3 2016	3	2016	3	2016
Deliveries: FRP 1: FRP Aircraft (APN) Q4 2016	4	2016	4	2016
Deliveries: FRP 1: FRP Aircraft (APN) Q1 2017	1	2017	1	2017
Deliveries: FRP 1: FRP Aircraft (APN) Q2 2017	2	2017	2	2017
Deliveries: FRP 1: FRP Aircraft (APN) Q3 2017	3	2017	3	2017
Deliveries: FRP 2: FRP Aircraft (APN) Q3 2017	3	2017	3	2017
Deliveries: FRP 2: FRP Aircraft (APN) Q4 2017	4	2017	4	2017
Deliveries: FRP 2: FRP Aircraft (APN) Q1 2018	1	2018	1	2018
Deliveries: FRP 2: FRP Aircraft (APN) Q2 2018	2	2018	2	2018
Deliveries: FRP 2: FRP Aircraft (APN) Q3 2018	3	2018	3	2018
Deliveries: FRP 3: FRP Aircraft (APN) Q3 2018	3	2018	3	2018

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Exhibit R-4A, RDT&E Schedule Details: PB 2015 Navy			Date: March 2014		
Appropriation/Budget Activity 1319 / 5		R-1 Program Element (Number/Name) PE 0605500N / Multi-mssn Maritime Aircraft (MMA) (P-8A)		Project (Number/Name) 2696 / Multi-Mission Maritime Aircraft	
		Start		End	
Events by Sub Project		Quarter	Year	Quarter	Year
Deliveries: FRP 3: FRP Aircraft (APN) Q4 2018		4	2018	4	2018
Deliveries: FRP 3: FRP Aircraft (APN) Q1 2019		1	2019	1	2019
Deliveries: FRP 3: FRP Aircraft (APN) Q2 2019		2	2019	2	2019
Deliveries: FRP 3: FRP Aircraft (APN) Q3 2019		3	2019	3	2019
Deliveries: FRP 4: FRP Aircraft (APN) Q3 2019		3	2019	3	2019
Deliveries: FRP 4: FRP Aircraft (APN) Q4 2019		4	2019	4	2019

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy										Date: March 2014		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0605500N / Multi-mssn Maritime Aircraft (MMA) (P-8A)				Project (Number/Name) 3181 / P-8A Spiral One Development			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
3181: P-8A Spiral One Development	61.934	52.280	54.144	68.458	-	68.458	20.385	-	-	-	-	257.201
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
A. Mission Description and Budget Item Justification												
The P-8A Multi-mission Maritime Aircraft (MMA) program is based on an evolutionary acquisition strategy consisting of sequential incremental enhancements to system capabilities that will retain cost-wise effectiveness for winning major combat operations beyond 2020. In order to pace the threat, Spiral One (Increment 2), the Next Phase of Capabilities (NPC-1), will incorporate the following capabilities into the P-8A: Multi-Static Active Coherent (MAC), Automatic Identification System (AIS), Rapid Capabilities Insertion (RCI), updates to the Tactical Operations Center (TOC), as well as additional Anti-Submarine Warfare (ASW), Anti-Surface Warfare (ASuW) and Intelligence Surveillance and Reconnaissance (ISR) capabilities. Spiral One (Increment 2) will be executed as an Engineering Change Proposal (ECP) to the baseline program.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)										FY 2013	FY 2014	FY 2015
Title: Perform technology demonstrations and analyses of proposed new capabilities Articles: FY 2013 Accomplishments: Continued development of integration design of new P-8A capabilities. Conducted ECP2 design review. Conducted laboratory and preliminary development testing. Awarded primary Integration/Engineering & Manufacturing Development (EMD) contract for comprehensive design, installation, test and initial fielding of all Spiral One (Increment 2) capabilities. FY 2014 Plans: Continue development of integration design of new P-8A capabilities. Achieve MAC Early Operational Capability. Conduct laboratory and development testing. Incrementally fund primary Integration/EMD contract for comprehensive design, installation, test and initial fielding of all Spiral One (Increment 2) capabilities such as MAC, AIS, and RCI. Maintain integration alignment with external development programs. FY 2015 Plans: Continue development of integration design of new P-8A capabilities. Conduct laboratory and development testing. Incrementally fund primary Integration/EMD contract for comprehensive design, installation, test and initial fielding of all Spiral One (Increment 2) capabilities such as MAC, AIS, and RCI. Maintain integration alignment with external development programs.										36.683	38.712	45.316
										-	-	-
Title: Conduct technical, cost, risk and logistics analysis of proposed technologies Articles:										15.597	15.432	23.142
										-	-	

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy										Date: March 2014		
Appropriation/Budget Activity 1319 / 5			R-1 Program Element (Number/Name) PE 0605500N / Multi-mssn Maritime Aircraft (MMA) (P-8A)				Project (Number/Name) 3181 / P-8A Spiral One Development					
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)										FY 2013	FY 2014	FY 2015
FY 2013 Accomplishments: Conducted technical, cost, risk and logistics analysis of proposed technologies. Provided technical and management support for the development of acquisition documentation. Provided engineering and management of technical development effort. Conducted flight testing of Spiral One (Increment 2) capabilities. Provided technical and management support for the development of training courseware.												
FY 2014 Plans: Conduct technical, cost, risk and logistics analysis of proposed technologies. Provide technical and management support for the development of acquisition documentation. Provide engineering and management of technical development effort. Conduct flight testing of Spiral One (Increment 2) capabilities. Provide technical and management support for the development of training courseware.												
FY 2015 Plans: Conduct technical, cost, risk and logistics analysis of proposed technologies. Provide technical and management support for the development of acquisition documentation. Provide engineering and management of technical development effort. Conduct flight testing of Spiral One (Increment 2) capabilities. Provide technical and management support for the development of training courseware.												
Accomplishments/Planned Programs Subtotals										52.280	54.144	68.458
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost	
• APN5/0586: P-8 Series	4.895	9.485	29.797	-	29.797	30.042	20.372	21.532	208.514	2,389.538	2,714.175	
Remarks												
D. Acquisition Strategy												
The P-8A MMA program is based on an evolutionary acquisition strategy consisting of sequential incremental enhancements to system capabilities that will retain cost-wise effectiveness for winning major combat operations beyond 2020. As part of the P-8A evolutionary acquisition strategy, Spiral One (Increment 2) will incorporate the capabilities defined in the Capability Development Document approved by JROC on 25 June 2010. Next Phase of Capabilities (NPC-1) will incorporate the following capabilities into the P-8A: Multi-Static Active Coherent, Rapid Capabilities Insertion, updates to the Tactical Operations Center, as well as additional Anti-Submarine Warfare, Anti-Surface Warfare and Intelligence Surveillance and Reconnaissance capabilities.												
E. Performance Metrics												
Approval of Spiral One (Increment 2) Engineering Change Proposals (ECPs).												

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Navy												Date: March 2014			
Appropriation/Budget Activity 1319 / 5						R-1 Program Element (Number/Name) PE 0605500N / Multi-mssn Maritime Aircraft (MMA) (P-8A)				Project (Number/Name) 3181 / P-8A Spiral One Development					
Product Development (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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 HW Dev - Integration/EMD	C/CPFF	Boeing : Seattle, WA	0.000	31.271	Nov 2012	33.443	Nov 2013	39.189	Nov 2014	-		39.189	13.502	117.405	117.405
Sys Eng (gov)	WR	NAWC AD : Pax River, MD	19.364	5.412	Nov 2012	5.269	Nov 2013	6.127	Nov 2014	-		6.127	4.666	40.838	-
Prior year Prod Dev cost no longer funded in the FYDP	Various	Various : Various	23.455	-		-		-		-		-	-	23.455	-
Subtotal			42.819	36.683		38.712		45.316		-		45.316	18.168	181.698	-
Support (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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
Integrated Logistics Sup	WR	NAWC AD : Pax River, MD	2.192	0.561	Nov 2012	0.509	Nov 2013	0.728	Nov 2014	-		0.728	0.723	4.713	-
Prior year Support cost no longer funded in the FYDP	Various	Various : Various	0.742	-		-		-		-		-	-	0.742	-
Subtotal			2.934	0.561		0.509		0.728		-		0.728	0.723	5.455	-
Test and Evaluation (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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
Dev Test & Eval	WR	NAWC AD : Pax River, MD	2.728	4.384	Nov 2012	7.561	Nov 2013	5.920	Nov 2014	-		5.920	-	20.593	-
GFE/GFI/GFP	WR	NAWC AD : Pax River, MD	2.983	8.457	Nov 2012	3.598	Nov 2013	6.400	Nov 2014	-		6.400	-	21.438	-
Oper Test & Eval	WR	NAWC AD : Pax River, MD	0.000	-		2.100	Nov 2013	8.405	Nov 2014	-		8.405	-	10.505	-
Subtotal			5.711	12.841		13.259		20.725		-		20.725	-	52.536	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Navy												Date: March 2014			
Appropriation/Budget Activity 1319 / 5						R-1 Program Element (Number/Name) PE 0605500N / Multi-mssn Maritime Aircraft (MMA) (P-8A)				Project (Number/Name) 3181 / P-8A Spiral One Development					
Management Services (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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 Services	C/CPFF	ASEC : Lexington Park, MD	1.288	0.127	Nov 2012	0.200	Nov 2013	-		-		-	-	1.615	1.615
Mgmt Suppt Serv (NON-FFRDC)	C/CPFF	RBC INC : Alexandria, VA	5.592	0.539	Nov 2012	0.752	Nov 2013	0.729	Nov 2014	-		0.729	0.728	8.340	8.340
Program Mgmt Support	WR	NAWC AD : Pax River, MD	3.424	1.498	Nov 2012	0.662	Nov 2013	0.910	Nov 2014	-		0.910	0.716	7.210	-
Travel	WR	NAWC AD : Pax River, MD	0.166	0.031	Oct 2012	0.050	Oct 2013	0.050	Oct 2014	-		0.050	0.050	0.347	-
Subtotal			10.470	2.195		1.664		1.689		-		1.689	1.494	17.512	-
			Prior Years	FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			61.934	52.280		54.144		68.458		-		68.458	20.385	257.201	-
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2015 Navy

Date: March 2014

Appropriation/Budget Activity

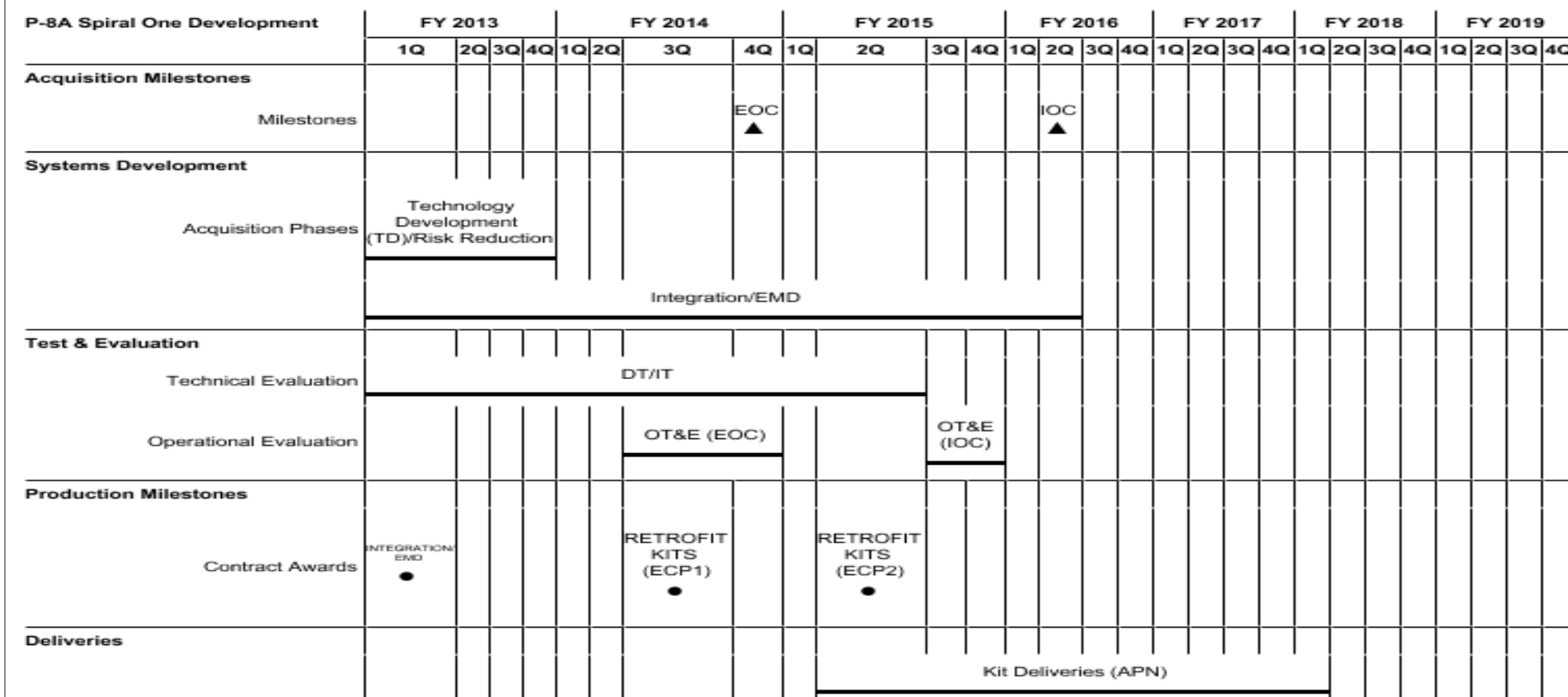
1319 / 5

R-1 Program Element (Number/Name)

PE 0605500N / Multi-mssn Maritime Aircraft (MMA) (P-8A)

Project (Number/Name)

3181 / P-8A Spiral One Development



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Exhibit R-4A, RDT&E Schedule Details: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605500N / <i>Multi-mssn Maritime Aircraft (MMA) (P-8A)</i>	Project (Number/Name) 3181 / <i>P-8A Spiral One Development</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>P-8A Spiral One Development</i>				
Acquisition Milestones: Milestones: Early Operational Capability (EOC)	4	2014	4	2014
Acquisition Milestones: Milestones: Initial Operational Capability (IOC)	2	2016	2	2016
Systems Development: Acquisition Phases: Technology Development (TD)/Risk Reduction	1	2013	4	2013
Systems Development: Acquisition Phases: Integration/EMD	1	2013	2	2016
Test & Evaluation: Technical Evaluation: Developmental Testing (Integration Testing)	1	2013	2	2015
Test & Evaluation: Operational Evaluation: Operational Test & Evaluation (OT&E) (EOC)	3	2014	4	2014
Test & Evaluation: Operational Evaluation: Operational Test & Evaluation (OT&E) (IOC)	3	2015	4	2015
Production Milestones: Contract Awards: Contract Award Integration/ Engineering, Manufacturing, and Development (EMD)	1	2013	1	2013
Production Milestones: Contract Awards: Retrofit Kits (ECP1)	3	2014	3	2014
Production Milestones: Contract Awards: Retrofit Kits (ECP2)	2	2015	2	2015
Deliveries: Kit Deliveries (APN)	2	2015	1	2018

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy										Date: March 2014		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0605500N / Multi-mssn Maritime Aircraft (MMA) (P-8A)				Project (Number/Name) 3218 / P-8A Spiral 2 Development			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
3218: P-8A Spiral 2 Development	6.029	19.212	27.997	89.029	-	89.029	120.018	186.373	181.223	184.115	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
A. Mission Description and Budget Item Justification												
The P-8A Multi-mission Maritime Aircraft (MMA) program is based on an evolutionary acquisition strategy consisting of sequential increments that will retain cost-wise effectiveness for winning major combat operations beyond 2020. In order to pace the threat, Spiral 2 (Increment 3) will incorporate improvements in aircraft systems, such as Architecture Upgrades, Net-Ready Key Performance Parameters (KPP) implementation, integration of a network enabled Anti-Surface Warfare (ASuW) weapon, Survivability Upgrades, Precision Targeting improvements, and Rapid Capabilities Insertion (RCI), as well as additional Anti-Submarine Warfare (ASW), ASuW and Intelligence Surveillance and Reconnaissance (ISR) capabilities. These capabilities and other emergent capability requirements will be investigated during the Pre-Engineering Manufacturing Development phase of Spiral 2 (Increment 3) for the P-8A and Tactical Operations Center (TOC)(ground support facility). Acquisition Decision Memorandum, dated 18 October 2013, approved Pre-Engineering Development activities leading up to MS-B.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2013	FY 2014	FY 2015	
Title: Perform technology demonstrations and analyses of proposed new capabilities									15.331	22.991	80.084	
									Articles: -	-	-	
FY 2013 Accomplishments:												
Initiated design for integrating new capabilities into P-8A TOC. Completed engineering studies and prepared Spiral 2 (Increment 3) technology development system specifications. Continued government led competitive prototyping efforts.												
FY 2014 Plans:												
Continue government led competitive prototyping efforts for Spiral 2 (Increment 3) Architecture. Award development contracts for Spiral 2 (Increment 3) Architecture and other Spiral 2 (Increment 3) capabilities such as Multi-Static Active Coherent (MAC) Enhancement development. Begin Risk Reduction Interface for architecture to include development of system interfaces. Continue P-8A TOC design and integration efforts.												
FY 2015 Plans:												
Increase government led Lead System Integrator (LSI) Spiral 2 (Increment 3) architecture prototyping, capability application prototyping, and integration analysis efforts. Ramp up initial Spiral 2 (Increment 3) execution of Applications Based Architecture competitive software development contracts. Continue execution of Spiral 2 (Increment 3) Risk Reduction Interface contracting efforts. Initiate execution of Risk Reduction Capabilities Analysis contract effort to identify capability Size Weight Power												

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy							Date: March 2014				
Appropriation/Budget Activity 1319 / 5			R-1 Program Element (Number/Name) PE 0605500N / Multi-mssn Maritime Aircraft (MMA) (P-8A)			Project (Number/Name) 3218 / P-8A Spiral 2 Development					
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)							FY 2013	FY 2014	FY 2015		
and Cooling (SWAP-C) efficiencies. Continued ramp up of Capability Development and Integration efforts to include MAC Enhancements, Net Enabled Weapon, and Sensor Upgrades. Continue P-8A TOC design and integration efforts.											
Title: Conduct technical, cost, risk and logistics analysis of proposed technologies							3.881	5.006	8.945		
Articles:							-	-	-		
FY 2013 Accomplishments: Conducted technical, cost, risk and logistics analysis of proposed technologies. Evaluated system requirements through cost/performance trade-off analysis. Provided technical and management support for the development of acquisition documentation. Provided engineering and management of technical development effort.											
FY 2014 Plans: Conduct technical, cost, risk and logistics analysis of proposed technologies. Evaluate system requirements through cost/performance trade-off analysis. Provide technical and management support for the development of acquisition documentation. Provide engineering and management of technical development effort. Continue government prototyping.											
FY 2015 Plans: Conduct technical, cost, risk and logistics analysis of proposed technologies. Evaluate system requirements through cost/performance trade-off analysis. Provide technical and management support for the development of acquisition documentation. Provide engineering and management of technical development effort. Increase in government led prototyping.											
Accomplishments/Planned Programs Subtotals							19.212	27.997	89.029		
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
• APN5/0586: P-8 Series	4.895	9.485	29.797	-	29.797	30.042	20.372	21.532	208.514	2,389.538	2,714.175
Remarks											
D. Acquisition Strategy											
The P-8A MMA program is based on an evolutionary acquisition strategy consisting of sequential increments that will retain cost-wise effectiveness for winning major combat operations beyond 2020. As part of the P-8A evolutionary acquisition strategy, Spiral 2 (Increment 3) will incorporate the capabilities defined in the Capability Development Document approved by JROC on 25 June 2010. In order to pace the threat, Spiral 2 (Increment 3) will incorporate improvements in aircraft systems such as Architecture Upgrades, Net-Ready Key Performance Parameters (KPP) implementation, integration of a network enabled Anti-Surface Warfare (ASuW) weapon, Survivability Upgrades, Precision Targeting improvements, and Rapid Capabilities Insertion Capabilities, as well as additional Anti-Submarine Warfare, ASuW and Intelligence Surveillance and Reconnaissance capabilities. The scope of this effort includes the integration design and test of capability enhancements to the P-8A.											

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605500N / <i>Multi-mssn Maritime Aircraft (MMA) (P-8A)</i>	Project (Number/Name) 3218 / <i>P-8A Spiral 2 Development</i>

Fleet introduction is planned to be accomplished, based on the scope of change, in FY21. These capabilities and other emergent capability requirements will be investigated during the Pre-Engineering Manufacturing Development phase of Spiral 2 (Increment 3) for the P-8A and Tactical Operation Center (ground support facility).

E. Performance Metrics

The Acquisition Strategy signed by OSD on 18 October 2013, authorizes execution of Pre-EMD activities leading up to a MS B, eliminating MS A; Milestone B to be completed 2nd quarter 2017.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Navy												Date: March 2014			
Appropriation/Budget Activity 1319 / 5						R-1 Program Element (Number/Name) PE 0605500N / Multi-mssn Maritime Aircraft (MMA) (P-8A)				Project (Number/Name) 3218 / P-8A Spiral 2 Development					
Product Development (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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 HW Dev - Engineering Studies	C/FP	Various : Various	1.000	2.665	Nov 2012	-		-		-		-	-	3.665	3.665
Primary Hdw Dev - R/R (Interface)	C/CPIF	Boeing : Seattle	0.000	-		3.344	May 2014	5.532	Nov 2014	-		5.532	5.803	14.679	14.679
Primary HW Dev - R/R (Capability Analysis)	C/CPIF	Boeing : Seattle	0.000	-		-		5.599	Nov 2014	-		5.599	9.257	14.856	14.856
Primary HW Dev - ABA (Vendor A)	C/CPIF	TBD : TBD	0.000	-		0.625	Aug 2014	11.834	Nov 2014	-		11.834	13.184	25.643	25.643
Primary HW Dev - ABA (Vendor B)	C/CPIF	TBD : TBD	0.000	-		0.625	Aug 2014	11.834	Nov 2014	-		11.834	13.184	25.643	25.643
Primary HW Dev - EMD ABA	TBD	TBD : TBD	0.000	-		-		-		-		-	85.864	85.864	85.864
Primary HW Dev - EMD Platform Integration	TBD	TBD : TBD	0.000	-		-		-		-		-	95.864	95.864	95.864
Primary HW Dev - Prototyping	Various	Various : Various	0.000	-		2.642	Nov 2013	2.642	Nov 2014	-		2.642	3.519	8.803	-
Primary HW Dev - MAC Enhancements	Various	Various : Various	0.000	4.723	Jun 2013	7.000	Nov 2013	11.000	Nov 2014	-		11.000	70.589	93.312	-
RCI2 - ECP3	C/CPIF	Boeing : Seattle	0.000	-		-		7.716	Nov 2014	-		7.716	39.317	47.033	-
Capability Development & Integration	Various	Various : Various	0.000	-		1.110	Nov 2013	11.505	Nov 2014	-		11.505	271.799	284.414	-
Sys Eng (gov)	WR	NAWC AD : Pax River, MD	2.227	7.943	Nov 2012	7.645	Nov 2013	12.422	Nov 2014	-		12.422	75.612	105.849	-
Subtotal			3.227	15.331		22.991		80.084		-		80.084	683.992	805.625	-
Remarks															
Scheduling adjustments reflect signed Acquisition Strategy and current funding profile. \$33M reduction in FY15 due to underexecution of FY13 funding. To provide further clarification of Product Development activities, a decomposition of specific contracting actions has been provided.															

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Navy												Date: March 2014			
Appropriation/Budget Activity 1319 / 5						R-1 Program Element (Number/Name) PE 0605500N / Multi-mssn Maritime Aircraft (MMA) (P-8A)				Project (Number/Name) 3218 / P-8A Spiral 2 Development					
Support (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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
Integrated Logistics Sup	WR	NAWC AD : Pax River, MD	0.504	0.243	Nov 2012	0.489	Nov 2013	0.757	Nov 2014	-		0.757	5.175	7.168	-
Studies & Analysis	C/CPFF	JHU : Pax River, MD	0.644	0.373	Dec 2012	0.413	Dec 2013	0.762	Nov 2014	-		0.762	1.642	3.834	3.834
Subtotal			1.148	0.616		0.902		1.519		-		1.519	6.817	11.002	-
Test and Evaluation (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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
Dev Test & Eval	WR	NAWC AD : Pax River, MD	0.000	0.328	Nov 2012	0.370	Nov 2013	2.295	Nov 2014	-		2.295	Continuing	Continuing	Continuing
GFE/GFI/GFP	WR	NAWC AD : Pax River, MD	0.000	-		-		-		-		-	22.622	22.622	-
Oper Test & Eval	WR	NAWC AD : Pax River, MD	0.000	-		-		-		-		-	62.332	62.332	-
Test Assets	WR	NAWC AD : Pax River, MD	0.000	-		-		-		-		-	32.832	32.832	-
Subtotal			0.000	0.328		0.370		2.295		-		2.295	-	-	-
Management Services (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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
Eng Tech Serv (NON-FFRDC)	C/CPFF	Various : Various	0.204	1.031	Nov 2012	1.181	Nov 2013	1.868	Nov 2014	-		1.868	4.387	8.671	8.671
Mgmt Suppt Serv (NON-FFRDC)	C/CPFF	RBC : Alexandria, VA	1.102	0.959	Nov 2012	1.163	Nov 2013	1.824	Nov 2014	-		1.824	11.511	16.559	16.559
Program Mgmt Support	WR	NAWC AD : Pax River, MD	0.348	0.947	Nov 2012	1.290	Nov 2013	1.339	Nov 2014	-		1.339	7.783	11.707	-
Travel	WR	NAWC AD : Pax River, MD	0.000	-		0.100	Oct 2013	0.100	Oct 2014	-		0.100	0.600	0.800	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Navy												Date: March 2014		
Appropriation/Budget Activity 1319 / 5						R-1 Program Element (Number/Name) PE 0605500N / <i>Multi-mssn Maritime Aircraft (MMA) (P-8A)</i>				Project (Number/Name) 3218 / <i>P-8A Spiral 2 Development</i>				

Management Services (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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	Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			1.654	2.937		3.734		5.131		-		5.131		24.281	37.737	-

Remarks
Continued engineering and management support reflected in FY15 profile are necessary to mature prototyping efforts.

	Prior Years	FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	6.029	19.212		27.997		89.029		-		89.029	-	-	-

Remarks

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PE 0605500N: *Multi-mssn Maritime Aircraft (MMA) (P-8A)*
Navy

R-1 Line #142

R-1 Program Element (Number/Name) PE 0605500N / <i>Multi-mssn Maritime Aircraft (MMA) (P-8A)</i>
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3218 / P-8A Spiral 2 Development

(MMA) (P-8A)



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Exhibit R-4A, RDT&E Schedule Details: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605500N / <i>Multi-mssn Maritime Aircraft (MMA) (P-8A)</i>	Project (Number/Name) 3218 / <i>P-8A Spiral 2 Development</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>P-8A Spiral 2 Development</i>				
Acquisition Milestones: Milestones: Increment 3 MS B	2	2017	2	2017
Acquisition Milestones: Milestones: Increment 3 MS C	2	2019	2	2019
Systems Development: Hardware Development	2	2013	2	2017
Systems Development: Risk Reduction	2	2013	2	2017
Systems Development: Prototyping	2	2013	2	2017
Systems Development: Capability Development & Integration	4	2014	4	2019
Systems Development: Engineering Manufacturing & Development (EMD)	2	2017	2	2019
Systems Development: Engineering Studies	1	2013	2	2013
Systems Development: Reviews: Preliminary Design Review (PDR)	4	2016	4	2016
Systems Development: Reviews: Critical Design Review (CDR)	2	2018	2	2018
Test & Evaluation: Integrated Test (IT)	1	2018	4	2019
Test & Evaluation: Lab Testing	1	2016	4	2017
Production Milestones: Contract Awards: Contract Award - Hardware Development ABA	4	2014	4	2014
Production Milestones: Contract Awards: Contract Award - Risk Reduction	3	2014	3	2014
Production Milestones: Contract Awards: Engineering Manufacturing & Development (EMD) ABA	2	2017	2	2017
Production Milestones: Contract Awards: Engineering Manufacturing & Development (EMD) Platform Integration	2	2017	2	2017

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy										Date: March 2014		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0605500N / Multi-mssn Maritime Aircraft (MMA) (P-8A)				Project (Number/Name) 3368 / P-8 Improvements			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
3368: P-8 Improvements	-	-	-	-	-	-	1.521	2.086	3.073	10.240	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
A. Mission Description and Budget Item Justification												
The P-8A Multi-mission Maritime Aircraft (MMA) program is based on an evolutionary acquisition strategy including a sequence of Rapid Capability Insertions (RCI) that will retain cost-wise effectiveness for winning major combat operations beyond 2020. In order to pace the threat, RCIs will incorporate incremental software and hardware improvements to existing sensors, communications systems and weapons capabilities to build on the P-8A Spiral 2 (Increment 3) Applications Based Architecture (ABA) and capability baseline. These capabilities, and other emergent capability requirements, will be prioritized through the Navy Integration and Interoperability (I&I)-aligned Capability Prioritization Process (CPP) and P-8A Tier 3 Capability Roadmap. The CPP process will be supported by detailed analysis and the maturation of developing technologies.												
B. Accomplishments/Planned Programs (\$ in Millions)												
N/A												
C. Other Program Funding Summary (\$ in Millions)												
N/A												
Remarks												
D. Acquisition Strategy												
The P-8A Multi-mission Maritime Aircraft (MMA) program is based on an evolutionary acquisition strategy including a sequence of Rapid Capability Insertions (RCI) that will retain cost-wise effectiveness for winning major combat operations beyond 2020. In order to pace the threat, RCIs will incorporate incremental software and hardware improvements to existing sensors, communications systems and weapons capabilities to build on the P-8A Spiral 2 (Increment 3) Applications Based Architecture (ABA) and capability baseline. These capabilities, and other emergent capability requirements, will be prioritized through the Navy Integration and Interoperability (I&I)-aligned Capability Prioritization Process (CPP) and P-8A Tier 3 Capability Roadmap. The CPP process will be supported by detailed analysis and the maturation of developing technologies.												
E. Performance Metrics												
RCI4 contract award scheduled for 2nd quarter 2019.												

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy										Date: March 2014																										
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0605500N / Multi-mssn Maritime Aircraft (MMA) (P-8A)				Project (Number/Name) 9999 / Congressional Adds																											
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost																								
9999: <i>Congressional Adds</i>	10.000	13.489	5.000	-	-	-	-	-	-	-	-	28.489																								
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-																										
# The FY 2015 OCO Request will be submitted at a later date. <u>A. Mission Description and Budget Item Justification</u> Congressional Add. <u>B. Accomplishments/Planned Programs (\$ in Millions)</u> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th align="center">FY 2013</th> <th align="center">FY 2014</th> </tr> </thead> <tbody> <tr> <td><i>Congressional Add:</i> Small Business Technology Insertion</td> <td align="right">13.489</td> <td align="center">-</td> </tr> <tr> <td><i>FY 2013 Accomplishments:</i> N/A</td> <td></td> <td></td> </tr> <tr> <td><i>FY 2014 Plans:</i> N/A</td> <td></td> <td></td> </tr> <tr> <td><i>Congressional Add:</i> P-8A Sensor Development - Cong</td> <td align="center">-</td> <td align="right">5.000</td> </tr> <tr> <td><i>FY 2013 Accomplishments:</i> N/A</td> <td></td> <td></td> </tr> <tr> <td><i>FY 2014 Plans:</i> N/A</td> <td></td> <td></td> </tr> <tr> <td align="right">Congressional Adds Subtotals</td> <td align="right">13.489</td> <td align="right">5.000</td> </tr> </tbody> </table> <u>C. Other Program Funding Summary (\$ in Millions)</u> N/A <u>Remarks</u> <u>D. Acquisition Strategy</u> Not required for Congressional Adds. <u>E. Performance Metrics</u> Not required for Congressional Adds.														FY 2013	FY 2014	<i>Congressional Add:</i> Small Business Technology Insertion	13.489	-	<i>FY 2013 Accomplishments:</i> N/A			<i>FY 2014 Plans:</i> N/A			<i>Congressional Add:</i> P-8A Sensor Development - Cong	-	5.000	<i>FY 2013 Accomplishments:</i> N/A			<i>FY 2014 Plans:</i> N/A			Congressional Adds Subtotals	13.489	5.000
	FY 2013	FY 2014																																		
<i>Congressional Add:</i> Small Business Technology Insertion	13.489	-																																		
<i>FY 2013 Accomplishments:</i> N/A																																				
<i>FY 2014 Plans:</i> N/A																																				
<i>Congressional Add:</i> P-8A Sensor Development - Cong	-	5.000																																		
<i>FY 2013 Accomplishments:</i> N/A																																				
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Congressional Adds Subtotals	13.489	5.000																																		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Navy												Date: March 2014			
Appropriation/Budget Activity 1319 / 5						R-1 Program Element (Number/Name) PE 0605500N / Multi-mssn Maritime Aircraft (MMA) (P-8A)				Project (Number/Name) 9999 / Congressional Adds					
Product Development (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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 HW Dev - NAWCAD	WR	NAWC AD : Patuxent River, MD	0.048	0.012	Dec 2013	-		-		-		-	-	0.060	-
Primary HW Dev - Progeny	C/CPFF	PROGENY : Manassas, VA	8.417	4.700	Nov 2013	-		-		-		-	-	13.117	13.117
Primary HW Dev - SBIR - Various	Various	Various : Various	0.583	2.846	Dec 2013	-		-		-		-	-	3.429	-
Primary HD Dev - Prototyping - Various	Various	Various : Various	0.000	4.600	Nov 2013	-		-		-		-	-	4.600	-
Primary HD Dev - Sensor Development	Various	Various : Various	0.000	-		5.000	May 2014	-		-		-	-	5.000	-
Subtotal			9.048	12.158		5.000		-		-		-	-	26.206	-
Management Services (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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 Services	WR	NAWC AD : Paxtuxent River, MD	0.061	0.061	Apr 2014	-		-		-		-	-	0.122	-
Mgmt Suppt Serv (NONFFRDC)	C/CPFF	RBC INC : Alexandria,	0.891	1.270	Mar 2014	-		-		-		-	-	2.161	2.161
Subtotal			0.952	1.331		-		-		-		-	-	2.283	-
			Prior Years	FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			10.000	13.489		5.000		-		-		-	-	28.489	-
Remarks															