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

APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0605500N: <i>Multi-mssn Maritime Aircraft (MMA) (P-8A)</i>
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	1,138.681	929.240	622.713	-	622.713	334.551	266.849	274.887	202.262	Continuing	Continuing
2696: <i>Multi-Mission Maritime Aircraft</i>	1,116.479	923.258	544.666	-	544.666	227.739	125.088	80.126	-	0.000	3,017.356
3181: <i>P-8A Spiral One Development</i>	9.256	3.995	59.832	-	59.832	85.379	57.952	56.941	30.690	Continuing	Continuing
3218: <i>P-8A Spiral 2 Development</i>	-	1.987	18.215	-	18.215	21.433	83.809	137.820	171.572	Continuing	Continuing
9999: <i>Congressional Adds</i>	12.946	-	-	-	-	-	-	-	-	0.000	12.946

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, "Broad Area Maritime and Littoral Armed Intelligence, Surveillance and Reconnaissance" and the requirements for the program are defined in the MMA Operational Requirements Document/Capability Development Document, validated and approved by JROC on 08 December 2003. A successful Critical Design Review (CDR) 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 Interim Program Review (IPR) was completed on 7 April 2009 based on release of Acquisition Decision Memorandum. The first flight of P-8A occurred on 25 Apr 2009.

The primary objectives of SDD are to: perform the system detailed design, develop and produce Systems Integration Labs, develop and build ground and flight test articles and prepare for Milestone (MS) C. 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 (IOC) of Increment 1 in CY13. P-8A entered Production and Deployment development phase in the 4th quarter of FY10 after completing MS-C Defense Acquisition Board (DAB).

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 through 2020. In order to pace the threat, Increment 2, the Next Phase of Capabilities, will incorporate the following capabilities into the P-8A: Multi-Static Active Coherent (MAC), Automatic Identification System, Aircraft Rapid Commercial-Off-The-Shelf Insertion (ARCI), 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. The scope of this effort includes the integration, design, and test of the capability enhancements to the P-8A and associated TOC ground support facilities and initial trainers. Integration of these capabilities will be accomplished incrementally, based on the scope of the integration effort. Fleet introduction is planned to be completed in FY16.

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As part of the P-8A evolutionary strategy, Increment 3 will focus on attaining cost wise effectiveness for winning major combat operations through FY2020. In order to pace the threat, the Increment 3 will incorporate the following capabilities into the P-8A: MAC, ARCI, updates to the TOC, as well as additional ASW, ASuW and ISR capabilities. These capabilities and other emergent capability requirements will be investigated during the Technology Development phase of Increment 3 for the P-8A and TOC (ground support facility). Increment 3 will capitalize on existing planned P-8A DABs to serve as decision points for entering future phases of work.

B. Program Change Summary (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	1,170.527	929.240	430.643	-	430.643
Current President's Budget	1,138.681	929.240	622.713	-	622.713
Total Adjustments	-31.846	-	192.070	-	192.070
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	3.306	-			
• SBIR/STTR Transfer	-33.896	-			
• Program Adjustments	-	-	195.210	-	195.210
• Section 219 Reprogramming	-1.221	-	-	-	-
• Rate/Misc Adjustments	-	-	-3.140	-	-3.140
• Congressional General Reductions Adjustments	-0.035	-	-	-	-

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: 9999: *Congressional Adds*

Congressional Add: *Small Business Technology Insertion*

	FY 2010	FY 2011
Congressional Add Subtotals for Project: 9999	12.946	-
Congressional Add Totals for all Projects	12.946	-

Change Summary Explanation

Technical:

Schedule:

Project 2696: Due to additional time required to complete Navy Cost Estimate MS-C, Advanced Procurement (AP) Low Rate Initial Production (LRIP) #2 Contract Award, Production and Deployment and LRIP changed from 3Q FY10 to 4Q. Planned IOC 4Q FY13 is now depicted on the schedule. Due to extended contract

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APPROPRIATION/BUDGET ACTIVITY

1319: *Research, Development, Test & Evaluation, Navy*
BA 5: *Development & Demonstration (SDD)*

R-1 ITEM NOMENCLATURE

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

negotiations delaying contract award, LRIP #1 and LRIP moved to 2Q FY11. On delivery schedule, LRIP 3 changed from 1 aircraft in 3Q FY14 to 2, 2 aircraft in 4Q FY14 to 3, and 2 aircraft in 2Q FY15 to 1.

Project 3181: MS-B, MS-C, Program Design Review, CDR, and IOC removed from schedule due to Baseline Program MS-C DAB approval that future capabilities will be managed as Engineering Change Proposal (ECP). Changed Risk Reduction to Technology Development/Risk Reduction and extended effort to 2Q FY12. Changed Contract Award Increment to Contract Award Integration/Engineering Manufacturing and Development (EMD): Award date moved from 3Q FY11 to 1Q FY12. Changed EMD to Integration/EMD and moved from 3Q FY11 to 1Q FY12. Operational Test and Evaluation, Production and Deployment, and Retrofit Kits added to schedule. Added ECP Decision, Early Operational Capability, and IOC.

Project 3218: Based on current program development, MS-A changed from 2Q FY12 to 3Q FY12, MS-B changed from 3Q FY14 to 2Q FY14 and Preliminary Design Review moved from 2Q FY14 to 3Q FY13: Due to MS-B move from 3Q FY14 to 2Q FY14, Contract Award (EMD) moved from 3Q FY14 to 2Q FY14, EMD moved from 3Q FY14 to 2Q FY14. Added CDR 4Q FY15. Added Integrated Test 3Q FY16.

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy									DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>				R-1 ITEM NOMENCLATURE PE 0605500N: <i>Multi-mssn Maritime Aircraft (MMA) (P-8A)</i>				PROJECT 2696: <i>Multi-Mission Maritime Aircraft</i>			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
2696: <i>Multi-Mission Maritime Aircraft</i>	1,116.479	923.258	544.666	-	544.666	227.739	125.088	80.126	-	0.000	3,017.356
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

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The primary objectives of SDD are to: perform the system detailed design, develop and produce Systems Integration Labs (SILs), develop and build ground and flight test articles and prepare for Milestone (MS) C. Six flight test aircraft have been built during SDD. These test aircraft will be grouped into two stages based on which phase of the test program the aircraft support. SDD Stage I flight test aircraft (FY06/Qty-3) support Integrated Test and Evaluation (IT&E). This was previously called combined Developmental/Operational Testing (DT/OT). SDD Stage II flight test aircraft (FY09/Qty-3) support the completion of combined DT/OT and Initial Operational Test and Evaluation (IOT&E). The SDD contract includes the development and initial builds of training devices to support IOT&E. P-8A entered the Production and Deployment development phase in the 4th quarter of FY10 after completing the MS-C Defense Acquisition Board.

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

	FY 2010	FY 2011	FY 2012
Title: Continue System Development & Demonstration	1,048.709	869.436	496.078
Articles:	0	0	0
FY 2010 Accomplishments: SDD phase. Scope of effort included: design, develop, build, and test P-8A aircraft, avionics, mission systems, SILs, wind tunnel test models, 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) updates, and development and initial builds of training devices to support IOT&E. Conduct the periodic cost and schedule performance reviews associated with Earned Value Management (EVM) and prepare and conduct technical, test and logistic reviews.			
FY 2011 Plans: SDD phase. Scope of effort includes: design, develop, build, and test P-8A aircraft, avionics, mission systems, SILs, wind tunnel test models, ground and flight test articles (SDD Stage I, FY06, Qty-3; SDD Stage II, FY09, Qty-3), other test articles, associated			

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy		DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0605500N: <i>Multi-mssn Maritime Aircraft (MMA) (P-8A)</i>	PROJECT 2696: <i>Multi-Mission Maritime Aircraft</i>		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2010	FY 2011	FY 2012
<p>TOC updates, and development and initial builds of training devices to support IOT&E. Conduct the periodic cost and schedule performance reviews associated with EVM and prepare and conduct technical, test and logistic reviews.</p> <p>FY 2012 Plans: SDD phase. Scope of effort includes: design, develop, build, and test P-8A aircraft, avionics, mission systems, SILs, wind tunnel test models, ground and flight test articles (SDD Stage I, FY06, Qty-3; SDD Stage II, FY09, Qty-3), other test articles, associated TOC updates, and development and initial builds of training devices to support IOT&E. Conduct the periodic cost and schedule performance reviews associated with EVM and prepare and conduct technical, test and logistic reviews.</p>				
<p>Title: Continue Engineering and Technical Development and Test for Sys Dev & Demonstration contracts</p> <p align="right">Articles:</p> <p>FY 2010 Accomplishments: Test, Government Furnished Equipment (GFE), Engineering and Technical Development for the SDD contract: Effort included: analysis of contracted deliverables; direct technical and logistic support of system development and delivery; assessment of contractors readiness to proceed in design/development; evaluate contract cost, schedule, and performance; test preparations, provide necessary government furnished equipment and test articles, risk assessment/mitigation; program control; performance status; and plan and prepare for future Milestone/Decision Reviews and develop associated documentation. Modeling & Simulation tools will be developed to assess proposed risk mitigations. Conduct and support IT&E and Live Fire Test and Evaluation (LFT&E).</p> <p>FY 2011 Plans: Test, GFE, Engineering and Technical Development for the SDD contract: Effort included: analysis of contracted deliverables; direct technical and logistic support of system development and delivery; assessment of contractors readiness to proceed in design/development; evaluate contract cost, schedule, and performance; test preparations, provide necessary government furnished equipment and test articles, risk assessment/mitigation; program control; performance status; and plan and prepare for future Milestone/Decision Reviews and develop associated documentation. Modeling & Simulation tools will be developed to assess proposed risk mitigations. Conduct and support IT&E and LFT&E.</p> <p>FY 2012 Plans: Test, GFE, Engineering and Technical Development for the SDD contract: Effort includes: analysis of contracted deliverables; direct technical and logistic support of system development and delivery; assessment of contractors readiness to proceed in design/development; evaluate contract cost, schedule, and performance; test preparations, provide necessary government furnished equipment and test articles, risk assessment/mitigation; program control; performance status; and plan and prepare</p>		67.770 0	53.822 0	48.588 0

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
for future Milestone/Decision Reviews and develop associated documentation. Modeling & Simulation tools will be developed to assess proposed risk mitigations. Conduct and support IT&E and LFT&E.			
Accomplishments/Planned Programs Subtotals	1,116.479	923.258	544.666

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

Line Item	FY 2010	FY 2011	FY 2012			FY 2013	FY 2014	FY 2015	FY 2016	Cost To	
			Base	OCO	Total					Complete	Total Cost
• APN1/0193: <i>P-8A MMA</i>	1,797.352	1,990.590	2,275.445	0.000	2,275.445	2,770.310	3,672.919	4,599.174	5,646.193	2,259.703	25,121.913
• APN6/0605: <i>P-8A Initial Spares</i>	105.738	72.422	98.307	0.000	98.307	100.987	14.527	16.974	16.815	38.574	464.344
• MILCON: <i>P-8A MILCON</i>	5.917	0.000	31.747	0.000	31.747	0.000	123.338	288.691	114.989	0.000	564.682

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 JROC validated MNS, "Broad Area Maritime and Littoral Armed Intelligence, Surveillance and Reconnaissance" and the requirements for the program are defined in the MMA ORD/CDD, validated and approved by JROC on 08 December 2003. P-8A Initial Operational Capability objective is FY 2013.

E. Performance Metrics

Milestone C completed 4th quarter 2010.

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

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Product Development (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Award Fee for Primary HW	C/CPAF	Boeing:Seattle, WA	210.329	38.699	Oct 2010	49.399	Oct 2011	-		49.399	4.587	303.014	303.014
Info. Assurance	WR	NAWC AD:Pax River, MD	1.381	0.450	Oct 2010	-	Oct 2011	-		-	0.000	1.831	
Primary HW Dev - Boeing	C/CPAF	Boeing:Seattle, WA	5,037.657	822.037	Oct 2010	441.979	Oct 2011	-		441.979	374.730	6,676.403	6,676.403
Primary HW Dev - SPAWAR	WR	SPAWAR:San Diego, CA	29.896	6.000	Feb 2011	3.000	Feb 2012	-		3.000	0.000	38.896	
Sys Eng (gov)	WR	NAWC AD:Pax River, MD	55.444	2.250	Nov 2010	1.700	Nov 2011	-		1.700	0.000	59.394	
All other PY Product Dev.	Various	Various:Various	70.538	-		-		-		-	0.000	70.538	
Subtotal			5,405.245	869.436		496.078		-		496.078	379.317	7,150.076	

Remarks

The total award fee issued to date was 2.1% of the total budget.

Support (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Int. Log Gov	WR	NAWC AD:Pax River, MD	34.397	5.957	Nov 2010	4.006	Nov 2011	-		4.006	2.125	46.485	
Int Log Gov	WR	NAWC TSD:Orlando, FL	9.574	1.900	Nov 2010	0.961	Nov 2011	-		0.961	0.000	12.435	
Tech Dev Gov	WR	NAWC AD:Pax River, MD	70.909	3.052	Nov 2010	2.756	Nov 2011	-		2.756	0.000	76.717	
All other PY Support Cost	Various	Various:Various	15.362	-		-		-		-	0.000	15.362	
Subtotal			130.242	10.909		7.723		-		7.723	2.125	150.999	

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

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Test and Evaluation (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Dev T&E - Gov	WR	NAWC AD:Pax River, MD	41.621	16.200	Nov 2010	15.430	Nov 2011	-		15.430	36.333	109.584	
GFE & GFI	WR	NAWC AD:Pax River, MD	39.931	18.500	Nov 2010	10.956	Nov 2011	-		10.956	2.000	71.387	
LFT&E - Gov	WR	NAWC WD:China Lake	17.342	2.808	Nov 2010	-	Nov 2011	-		-	0.000	20.150	
Oper Test & Eval	WR	NAWC AD:Pax River, MD	-	-	Nov 2010	9.184	Nov 2011	-		9.184	6.680	15.864	
All other PY T&E Cost	Various	Various:Various	5.187	-		-		-		-	0.000	5.187	
Subtotal			104.081	37.508		35.570		-		35.570	45.013	222.172	

Management Services (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Mgmt Suppt Serv (NON-FFRDC)	C/CPFF	RBC INC:Alexandria, VA	21.943	1.743	Nov 2010	0.233	Nov 2011	-		0.233	0.498	24.417	24.417
Program Mgmt Support	WR	NAWC AD:Pax River, MD	30.464	3.362	Nov 2010	5.062	Nov 2011	-		5.062	6.000	44.888	
Travel	Various	NAWC AD:Pax River, MD	2.771	0.300	Nov 2010	-	Nov 2011	-		-	0.000	3.071	
All other PY Support Cost	Various	Various:Various	20.060	-		-		-		-	0.000	20.060	
Subtotal			75.238	5.405		5.295		-		5.295	6.498	92.436	

	Total Prior Years Cost	FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals		5,714.806	923.258		544.666		-	544.666	432.953	7,615.683	

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Navy		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0605500N: <i>Multi-mssn Maritime Aircraft (MMA) (P-8A)</i>	PROJECT 2696: <i>Multi-Mission Maritime Aircraft</i>

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

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Multi-Mission Maritime Aircraft				
Acquisition Milestones: Milestones: Milestone (MS) C	4	2010	4	2010
Acquisition Milestones: Milestones: Full Rate Production (FRP) Decision	3	2013	3	2013
Acquisition Milestones: Milestones: Initial Operating Capability (IOC)	4	2013	4	2013
Systems Development: Hardware/Software Development: System Development & Demonstration (SDD)	1	2010	3	2013
Systems Development: Hardware/Software Development: Production and Deployment	4	2010	4	2016
Systems Development: Hardware/Software Development: Ground Testing	1	2010	4	2010
Test & Evaluation: Technical Evaluation: Integrated Test & Evaluation (Flight Test)	1	2010	3	2012
Test & Evaluation: Operational Evaluation: Initial Operational Test and Evaluation (IOT&E)	3	2012	2	2013
Test & Evaluation: Operational Evaluation: Follow-on Test & Evaluation	3	2015	4	2015
Production Milestones: Low Rate Initial Production (LRIP)	2	2011	4	2015
Production Milestones: Full Rate Production (FRP)	3	2013	4	2016
Production Milestones: Contract Awards: Advance Procurement (AP) LRIP#2 Contract award	4	2010	4	2010
Production Milestones: Contract Awards: LRIP Lot #1 (Aircraft Procurement Navy (APN))	2	2011	2	2011
Production Milestones: Contract Awards: LRIP Lot #2 (APN) and AP LRIP#3 Contract award	3	2011	3	2011
Production Milestones: Contract Awards: LRIP Lot #3 (APN) and AP FRP Contract award	3	2012	3	2012
Production Milestones: Contract Awards: FRP Contract Award	3	2013	3	2013
Deliveries: SDD Stage I Aircraft (RDT&E): SDD Stage I Aircraft (RDT&E) Q2 2010	2	2010	2	2010

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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Deliveries: SDD Stage I Aircraft (RDT&E): SDD Stage I Aircraft (RDT&E) Q3 2010	3	2010	3	2010
Deliveries: SDD Stage II Aircraft (RDT&E): SDD Stage II Aircraft (RDT&E) Q3 2011	3	2011	3	2011
Deliveries: SDD Stage II Aircraft (RDT&E): SDD Stage II Aircraft (RDT&E) Q1 2012	1	2012	1	2012
Deliveries: SDD Stage II Aircraft (RDT&E): SDD Stage II Aircraft (RDT&E) Q2 2012	2	2012	2	2012
Deliveries: LRIP 1: LRIP Aircraft (APN) Q2 2012	2	2012	2	2012
Deliveries: LRIP 1: LRIP Aircraft (APN) Q3 2012	3	2012	3	2012
Deliveries: LRIP 1: LRIP Aircraft (APN) Q4 2012	4	2012	4	2012
Deliveries: LRIP 1: LRIP Aircraft (APN) Q1 2013	1	2013	1	2013
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: FRP 1: FRP Aircraft (APN) Q3 2015	3	2015	3	2015
Deliveries: FRP 1: FRP Aircraft (APN) Q4 2015	4	2015	4	2015
Deliveries: FRP 1: FRP Aircraft (APN) Q1 2016	1	2016	1	2016
Deliveries: FRP 1: FRP Aircraft (APN) Q2 2016	2	2016	2	2016
Deliveries: FRP 2: FRP Aircraft (APN) Q3 2016	3	2016	3	2016
Deliveries: FRP 2: FRP Aircraft (APN) Q4 2016	4	2016	4	2016

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

APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0605500N: <i>Multi-mssn Maritime Aircraft (MMA) (P-8A)</i>	PROJECT 3181: <i>P-8A Spiral One Development</i>
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
3181: <i>P-8A Spiral One Development</i>	9.256	3.995	59.832	-	59.832	85.379	57.952	56.941	30.690	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

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 through 2020. In order to pace the threat, 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, Aircraft Rapid Commercial-Off-The-Shelf Insertion (ARCI), 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. Program will be executed as an Engineering Change Proposal to the baseline program at the Milestone C Decision.

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

	FY 2010	FY 2011	FY 2012
<p>Title: Perform technology demonstrations and analyses of proposed new capabilities</p> <p align="right">Articles:</p> <p>FY 2010 Accomplishments: Commenced development of integration design of new P-8A capabilities.</p> <p>FY 2011 Plans: Continue development of integration design of new P-8A capabilities. Prepare for ECP 1 Program Design Review (PDR).</p> <p>FY 2012 Plans: Continue development of integration design of new P-8A capabilities. Complete ECP 1 PDR & Critical Design Review. Conduct laboratory and preliminary development testing.</p>	6.903 0	0.537 0	53.029 0
<p>Title: Conduct technical, cost, risk and logistics analysis of proposed technologies</p> <p align="right">Articles:</p> <p>FY 2010 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.</p> <p>FY 2011 Plans:</p>	2.353 0	3.458 0	6.803 0

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy	DATE: February 2011
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APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0605500N: <i>Multi-mssn Maritime Aircraft (MMA) (P-8A)</i>	PROJECT 3181: <i>P-8A Spiral One Development</i>
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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
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.			
<i>FY 2012 Plans:</i> 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.			
Accomplishments/Planned Programs Subtotals	9.256	3.995	59.832

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

Line Item	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
• APN5/0586: <i>P-8 Series</i>	0.000	0.000	2.930	0.000	2.930	5.305	7.178	21.634	22.005	3,965.041	4,024.093

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 through 2020. In order to pace the threat, the NPC-1 will incorporate the following capabilities into the P-8A: MAC, ARCI, updates to the TOC, as well as additional ASW, ASuW and ISR capabilities. Fleet introduction is planned to be completed in FY16.

E. Performance Metrics
Approval of Increment 2 ECP(s).

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

APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0605500N: <i>Multi-mssn Maritime Aircraft (MMA) (P-8A)</i>	PROJECT 3181: <i>P-8A Spiral One Development</i>
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Product Development (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Primary HW Dev - Risk Reduction/Preliminary Design II	C/CPFF	Boeing:Seattle, WA	1.975	-		5.291	Nov 2011	-		5.291	0.000	7.266	7.266
Primary HW Dev - Integration/EMD	C/CPAF	Boeing:Seattle, WA	-	-		37.763	Dec 2011	-		37.763	148.736	186.499	186.499
Primary HW Dev - Integration EMD Award Fee	C/CPAF	Boeing:Seattle, WA	-	-		3.596	Dec 2011	-		3.596	6.971	10.567	10.567
Sys Eng (gov)	WR	NAWC AD:Pax River, MD	8.088	0.537	Nov 2010	6.379	Nov 2011	-		6.379	23.565	38.569	
All other PY Product Dev	Various	Various:Various	7.918	-		-		-		-	0.000	7.918	7.918
Subtotal			17.981	0.537		53.029		-		53.029	179.272	250.819	

Support (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Integrated Logistics Sup	WR	NAWC AD:Pax River, MD	0.727	0.600	Nov 2010	0.668	Nov 2011	-		0.668	4.896	6.891	
All other PY Support	Various	Various:Various	0.542	-		-		-		-	0.000	0.542	
Subtotal			1.269	0.600		0.668		-		0.668	4.896	7.433	

Test and Evaluation (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Dev Test & Eval	WR	NAWC AD:Pax River, MD	0.363	1.500	Nov 2010	2.295	Nov 2011	-		2.295	13.666	17.824	
GFE/GFI/GFP	WR	NAWC AD:Pax River, MD	-	0.050	Nov 2010	1.072	Nov 2011	-		1.072	14.075	15.197	
Oper Test & Eval	WR	NAWC AD:Pax River, MD	-	-		-		-		-	5.573	5.573	

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Navy		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0605500N: <i>Multi-mssn Maritime Aircraft (MMA) (P-8A)</i>	PROJECT 3181: <i>P-8A Spiral One Development</i>

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

APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0605500N: <i>Multi-mssn Maritime Aircraft (MMA) (P-8A)</i>	PROJECT 3181: <i>P-8A Spiral One Development</i>
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>P-8A Spiral One Development</i>				
Acquisition Milestones: Milestones: Engineering Change Proposal (ECP) Decision	4	2010	4	2010
Acquisition Milestones: Milestones: Early Operational Capability (EOC)	3	2014	3	2014
Acquisition Milestones: Milestones: Initial Operational Capability (IOC)	1	2016	1	2016
Systems Development: Acquisition Phases: Technology Development (TD)/Risk Reduction	2	2010	2	2012
Systems Development: Acquisition Phases: Integration/EMD	1	2012	2	2015
Systems Development: Acquisition Phases: Production & Deployment	3	2014	4	2016
Test & Evaluation: Technical Evaluation: Developmental Testing (Integration Testing)	1	2012	2	2015
Test & Evaluation: Operational Evaluation: Operational Test & Evaluation (OT&E)	4	2014	2	2015
Production Milestones: Contract Awards: Contract Award - Acoustics Processor Technology Refreshment (APTR)	2	2010	2	2010
Production Milestones: Contract Awards: Contract Award Integration/ Engineering, Manufacturing, and Development (EMD)	1	2012	1	2012
Production Milestones: Contract Awards: Retrofit Kits	3	2014	3	2014
Deliveries: Kit Deliveries (APN)	1	2016	4	2016

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

APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0605500N: <i>Multi-mssn Maritime Aircraft (MMA) (P-8A)</i>	PROJECT 3218: <i>P-8A Spiral 2 Development</i>
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
3218: <i>P-8A Spiral 2 Development</i>	-	1.987	18.215	-	18.215	21.433	83.809	137.820	171.572	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

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 through 2020. In order to pace the threat, Increment 3 may include the following capabilities: Net-Ready Key Performance Parameters (KPP) implementation, integration of a network enabled Anti-Surface Warfare (ASuW) weapon, Survivability Upgrades, Precision Targeting improvements, and Aircraft Rapid Commercial-Off-The-Shelf Insertion (ARCI) Capabilities, 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 Technology Development phase of Increment 3 for the P-8A and Tactical Operations Center (TOC)(ground support facility).

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

	FY 2010	FY 2011	FY 2012
<p>Title: Perform technology demonstrations and analyses of proposed new capabilities</p> <p align="right">Articles:</p> <p>FY 2011 Plans: Multiple studies and analyses of the proposed new P-8A capabilities to ascertain the most affordable, military useful, most mature technological solution.</p> <p>FY 2012 Plans: Multiple studies and analyses of the proposed new P-8A capabilities to ascertain the most affordable, military useful, most mature technological solution. Initiate design for integrating new capabilities into P-8A TOC.</p>	-	0.496 0	14.538 0
<p>Title: Conduct technical, cost, risk and logistics analysis of proposed technologies</p> <p align="right">Articles:</p> <p>FY 2011 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.</p> <p>FY 2012 Plans:</p>	-	1.491 0	3.677 0

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy	DATE: February 2011
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APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0605500N: <i>Multi-mssn Maritime Aircraft (MMA) (P-8A)</i>	PROJECT 3218: <i>P-8A Spiral 2 Development</i>
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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
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.			
Accomplishments/Planned Programs Subtotals	-	1.987	18.215

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

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 through 2020. In order to pace the threat, Increment 3 may include the following capabilities: Net-Ready KPP implementation, integration of a network enabled ASuW weapon, Survivability Upgrades, Precision Targeting improvements, and ARCI Capabilities, as well as additional ASW, ASuW and ISR capabilities. The scope of this effort includes the integration design and test of capability enhancements to the P-8A. Fleet introduction is planned to be accomplished incrementally based on the scope of change, with a planned completion in FY19. These capabilities and other emergent capability requirements will be investigated during the Technology Development phase of Increment 3 for the P-8A and TOC (ground support facility).

E. Performance Metrics
Milestone A to be completed 3rd quarter 2012; Milestone B to be completed 2nd quarter 2014.

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

APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0605500N: <i>Multi-mssn Maritime Aircraft (MMA) (P-8A)</i>	PROJECT 3218: <i>P-8A Spiral 2 Development</i>
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Product Development (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Primary Hdw Dev - Technology Development	C/CPFF	TBD:TBD	-	-		10.317	Jan 2012	-		10.317	17.950	28.267	28.267
Primary HW Dev - EMD	C/CPFF	TBD:TBD	-	-		-		-		-	348.098	348.098	348.098
Sys Eng (gov)	WR	NAWC AD:Pax River, MD	-	0.496	Mar 2011	4.221	Nov 2011	-		4.221	123.374	128.091	
Subtotal			-	0.496		14.538		-		14.538	489.422	504.456	

Support (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Integrated Logistics Sup	WR	NAWC AD:Pax River, MD	-	-		0.400	Feb 2012	-		0.400	34.350	34.750	
Studies & Analysis	C/CPFF	TBD:TBD	-	0.187	Mar 2011	0.877	Dec 2011	-		0.877	0.891	1.955	1.955
Subtotal			-	0.187		1.277		-		1.277	35.241	36.705	

Test and Evaluation (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Dev Test & Eval	WR	NAWC AD:Pax River, MD	-	-		0.400	Dec 2011	-		0.400	91.561	91.961	
GFE/GFI/GFP	WR	NAWC AD:Pax River, MD	-	-		-		-		-	18.341	18.341	
Oper Test & Eval	WR	NAWC AD:Pax River, MD	-	-		-		-		-	44.000	44.000	
Test Assets	WR	NAWC AD:Pax River, MD	-	-		-		-		-	23.000	23.000	
Subtotal			-	-		0.400		-		0.400	176.902	177.302	

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Navy		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0605500N: <i>Multi-mssn Maritime Aircraft (MMA) (P-8A)</i>	PROJECT 3218: <i>P-8A Spiral 2 Development</i>

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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Navy		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0605500N: <i>Multi-mssn Maritime Aircraft (MMA) (P-8A)</i>	PROJECT 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 A	3	2012	3	2012
Acquisition Milestones: Milestones: Increment 3 MS B	2	2014	2	2014
Systems Development: Technology Development	3	2012	4	2014
Systems Development: Contract Award (EMD)	2	2014	4	2016
Systems Development: Reviews: Preliminary Design Review (PDR)	3	2013	3	2013
Systems Development: Reviews: Critical Design Review (CDR)	4	2015	4	2015
Test & Evaluation: Integrated Test (IT)	3	2016	4	2016
Production Milestones: Contract Awards: Contract Award - Technology Devevelopment	3	2012	3	2012
Production Milestones: Contract Awards: Engineering Manufacturing & Development (EMD)	2	2014	2	2014

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

APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0605500N: <i>Multi-mssn Maritime Aircraft (MMA) (P-8A)</i>	PROJECT 9999: <i>Congressional Adds</i>
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
9999: <i>Congressional Adds</i>	12.946	-	-	-	-	-	-	-	-	0.000	12.946
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

Congressional Add.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2010	FY 2011
Congressional Add: Small Business Technology Insertion	12.946	-
FY 2010 Accomplishments: The Small Business Technology Insertion activities funded innovative and creative small business efforts that allow the P-8 to keep pace with the rapid pace of changing technology.		
Congressional Adds Subtotals	12.946	-

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

N/A

D. Acquisition Strategy

Not required for Congressional Adds.

E. Performance Metrics

Not required for Congressional Adds.