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

<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0204136N: <i>F/A-18 Squadrons</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	114.132	148.438	151.030	2.000	153.030	121.201	56.502	34.286	34.833	Continuing	Continuing
1662: <i>F/A-18 Improvement</i>	97.357	133.033	93.047	2.000	95.047	57.006	54.671	34.286	34.833	Continuing	Continuing
2065: <i>F/A-18 Radar Upgrade</i>	13.907	15.405	57.983	-	57.983	64.195	1.831	-	-	0.000	153.321
9999: <i>Congressional Adds</i>	2.868	-	-	-	-	-	-	-	-	0.000	2.868

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

The F/A-18 is required to perform multiple missions. Capabilities of the F/A-18 weapon system and ancillary equipment can be upgraded to accommodate and incorporate new or enhanced weapons as well as advances in technology to respond effectively to emerging future threats. Continued F/A-18 E/F and EA-18G "Flight Plan" spiral capability development is critical to the baseline of the Super Hornet next generation mission system capability and maintaining tactical relevance in support of NAVPLAN 2030. Additionally, continued advanced development engineering for improvements in reliability and maintainability are required to ensure maximum benefit is achieved through reduced cost of ownership and to provide enhanced availability.

Congressional Add:

10C181 Fighter Jet Noise Reduction Under Carrier Deck Operational Environment. Fighter Jet Noise, especially on aircraft carrier flight decks, has led to permanent hearing loss of aircraft handling personnel. Development and testing of alternate configurations of Variable Exhaust Nozzle (VEN) seals incorporating corrugations is planned.

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<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>
Previous President's Budget	121.093	148.438	115.392	-	115.392
Current President's Budget	114.132	148.438	151.030	2.000	153.030
Total Adjustments	-6.961	-	35.638	2.000	37.638
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-3.910	-			
• SBIR/STTR Transfer	-1.853	-			
• Program Adjustments	-	-	37.597	2.000	39.597
• Section 219 Reprogramming	-1.190	-	-	-	-
• Rate/Misc Adjustments	-	-	-1.959	-	-1.959
• Congressional General Reductions Adjustments	-0.008	-	-	-	-

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

**Project:** 9999: *Congressional Adds*

Congressional Add: *Fighter Jet Noise Reduction Under Carrier Deck Operational Environment*

Congressional Add Subtotals for Project: 9999

Congressional Add Totals for all Projects

	FY 2010	FY 2011
	2.868	-
	2.868	-
	2.868	-

**Change Summary Explanation**

Technical:

1662: Not Applicable

2065: Not Applicable

Schedule:

1662: Automatic Ground Collision Avoidance System will be a new start development effort in FY 2012. The schedule changes to the Infrared Search and Track program are due to funding reductions in FY 2010. The updated schedule plans for Milestone B in 2nd Quarter 2011, Milestone C in 3rd Quarter 2014, and achievement of Fleet Initial Operational Capability in 4th Quarter 2016. The Distributed Targeting System is an ACAT III program that entered the acquisition

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1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	PE 0204136N: <i>F/A-18 Squadrons</i>

cycle at post MS B and is currently on schedule for Fleet Initial Operational Capability in 4th Quarter 2012. Schedule adjustments reflect this change to the program. Schedule updates to Multi-Sensor Integration Phase II program reflect incorporation of this capability into SCS H10E Software Build.

2065: Schedule adjustments to this program are a result of technical difficulties related to the Anti-Tamper configuration of APG-79 Radar System.

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

<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0204136N: <i>F/A-18 Squadrons</i>	<b>PROJECT</b> 1662: <i>F/A-18 Improvement</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
1662: <i>F/A-18 Improvement</i>	97.357	133.033	93.047	2.000	95.047	57.006	54.671	34.286	34.833	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

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

F/A-18 Improvements (1662): The F/A-18 is a multi-mission strike fighter aircraft that is used in Air-to-Air strike, surveillance, reconnaissance and tanking roles through selected use of external equipment (fuel tanks, tactical and reconnaissance pods, and various ordnance launching racks). Additional capabilities are required for interoperability in a network-centric tactical environment. In order to respond effectively to emerging future threats, F/A-18 aircraft capabilities are being upgraded to incorporate new/enhanced weapons systems and avionics including Dual Mode Weapons, an Infra-red Search and Track (IRST), Integrated Defensive Electronic Counter Measures (IDECM) integrated with the Active Electronically Scanned Array (AESA) to provide Narrow Band High Gain Electronic Attack (NBHGEA), Distributed Targeting precision strike capability through a Distributed Targeting System (DTS), and Sensor Integration through Multi-Sensor Integration (MSI) Phase I capability. Continued advanced development engineering and analysis of hardware/software is required to successfully optimize fleet F/A-18 weapon systems for interoperability in a network centric tactical environment, to include: enhanced software capabilities, potential new hardware development, enhanced existing hardware, and enhanced network centric capabilities. Additionally, continued effort is needed to perform technical evaluations, modeling and simulations, investigative flight testing, and enhanced software modifications based on reported fleet deficiencies. Funding has been added starting in FY 2012 for the Auto Ground Collision Avoidance System (AGCAS) which will integrate currently implemented manual methodologies to provide not only aural and visual cues/advisories but also automatic initiation of aircraft recovery and subsequent return of control to the pilot following recovery. Currently employed Controlled Flight into Terrain (CFIT) Avoidance System technologies within the Department of Defense Fighter/Attack (F/A) aircraft communities are advisory only (aural and visual cues/warnings to aircrew), thus requiring manually implemented corrective measures by the aircrew to preclude incident (greater lag time to initiation of recovery and not feasible in the event of pilot G-induced loss of consciousness). This funding line continues F/A-18E/F "Flight Plan" spiral capability development, which includes Sensor Integration - Multi-Ship Emitter Geo-Location capability and Sensor Integration - MSI Phase II capability. This budget also continues funding for F/A-18A-F Test Wing Maintenance support and funding development efforts needed for integration of air launched laser guided rockets on F/A-18 A+/C/D.

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

	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
<p><b>Title:</b> Sensor Integration - IDECM with AESA</p> <p align="right"><b>Articles:</b></p> <p><b>Description:</b> In order to respond effectively to emerging future threats, F/A-18 aircraft capabilities are being upgraded to incorporate new/enhanced weapons systems and avionics including IDECM integrated with the AESA to provide High Gain Electronic Support Measures (HGESM). Advanced development engineering and analysis of hardware/software is required to optimize fleet F/A-18 weapon systems for interoperability in a network centric tactical environment.</p>	6.398 0	-	-	-	-

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2012 Navy			<b>DATE:</b> February 2011			
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0204136N: <i>F/A-18 Squadrons</i>	<b>PROJECT</b> 1662: <i>F/A-18 Improvement</i>				
<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>						
		<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>
<b><i>FY 2010 Accomplishments:</i></b> Continue software development for IDECM integration with AESA to provide HGESM capability and to prove the concept of NBHGEA.						
<b><i>Title:</i></b> Distributed Targeting System						
	<b><i>Articles:</i></b>	35.650 0	39.620 0	5.698 0	-	5.698 0
<b><i>Description:</i></b> Funds are supporting development of a distributed targeting precision strike capability through a hardware and software solution. Hardware (H/W) - Distributed Targeting Processor (DTP), Mass Storage Unit (MSU), and Mission Planning Transit Case. Software (S/W) - DTP/MSU Operational Flight Program (OFP), Mission Computer OFP, and Mission Planning OFP.						
<b><i>FY 2010 Accomplishments:</i></b> Completed the Integrated Baseline Review, Technical Readiness Review, and the Critical Design Review - Assessment. Thirteen Engineering and Manufacturing Development (EMD) units have been developed and are currently in Qualification and Reliability testing at vendor facilities. Software Test and Integration at a Boeing facility has been initiated.						
<b><i>FY 2011 Plans:</i></b> Enter Developmental Testing Flight testing, conduct Milestone (MS) C review, award Engineering Change Proposal (ECP) for Low-Rate Initial Production I.						
<b><i>FY 2012 Base Plans:</i></b> Continue Integrated Test and Evaluation and begin Initial Operational Test and Evaluation. Complete Operational Test, conduct Physical Configuration Audit and Full Rate Production review.						
<b><i>Title:</i></b> Electro-Optical Infra-red - IRST Phase I						
	<b><i>Articles:</i></b>	12.780 0	39.602 0	49.283 0	-	49.283 0
<b><i>Description:</i></b> Technology development and engineering and manufacturing development of an IRST sensor for the F/A-18 E/F.						
<b><i>FY 2010 Accomplishments:</i></b> Conducted System Requirements Review II in 1st Quarter and closed all actions prior to conducting System Functional Review. Preliminary Design Review is scheduled for 4th Quarter.						
<b><i>FY 2011 Plans:</i></b>						

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<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>						
		<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>
Scheduled to achieve MS B in 2nd Quarter and enter Engineering and Development Phase.						
<b>FY 2012 Base Plans:</b> Continue Engineering and Development Phase and complete Critical Design Review and Design Readiness Review.						
<b>Title:</b> Sensor Integration - SSG/SEI, HGEA/HGESM/IDECM	<b>Articles:</b>	14.900 0	14.782 0	11.320 0	-	11.320 0
<b>Description:</b> In order to respond effectively to emerging future threats, F/A-18 aircraft capabilities are being upgraded to incorporate new/enhanced weapons systems and avionics. This funding line includes F/A-18E/F "Flight Plan" spiral capability development, Single Ship Geolocation (SSG) and Specific Emitter Identification (SEI).						
<b>FY 2010 Accomplishments:</b> Continue software algorithm development to enhance target identification and location (SSG and SEI).						
<b>FY 2011 Plans:</b> Continue software algorithm development to enhance target identification and location (SSG and SEI).						
<b>FY 2012 Base Plans:</b> Continue software algorithm development to enhance target identification and location (SSG and SEI).						
<b>Title:</b> Sensor Integration - MSI Phase I	<b>Articles:</b>	-	4.622 0	-	-	-
<b>Description:</b> In order to respond effectively to emerging future threats, F/A-18 aircraft capabilities are being upgraded to incorporate new/enhanced weapons systems and avionics including, Multi-Sensor Integration (MSI) Phase I capability. Advanced development engineering and analysis of hardware/software is required to optimize fleet F/A-18 weapon systems for interoperability in a network centric tactical environment.						
<b>FY 2011 Plans:</b> Continue software algorithm development to correlate multiple ground and surface tracks from on-ship to off-ship sensor sources and to begin integration with the Common Tactical Picture and Blue Force Track information.						
<b>Title:</b> Sensor Integration - A/A, A/G and Maritime MSI Phase II	<b>Articles:</b>	9.020 0	15.566 0	11.927 0	-	11.927 0

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<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>
<p><b>Description:</b> Funding supports maintenance of aircraft at NAVAIR Test Wing used to support Program Office objectives.</p> <p><b>FY 2010 Accomplishments:</b> Perform aircraft maintenance on Test Wing Aircraft.</p> <p><b>FY 2011 Plans:</b> Perform aircraft maintenance on Test Wing Aircraft.</p> <p><b>FY 2012 Base Plans:</b> Perform aircraft maintenance on Test Wing Aircraft.</p>					
<p><b>Title:</b> Automatic Ground Collision Avoidance System</p> <p align="right"><b>Articles:</b></p> <p><b>Description:</b> AGCAS will preserve force structure by reducing attrition of pilots and aircraft that result from CFIT. CFIT occurs at greater rates on fighter attack aircraft and is a leading cause of loss of life and loss of combat capability within the DoD aviation community. At full implementation, AGCAS is forecasted to result in a total DoD savings of approximately 78 pilots and \$6.7B in aircraft assets. AGCAS will integrate currently implemented manual methodologies to provide not only aural and visual cues/advisories, but also automatic initiation of aircraft recovery and subsequent return of control to the pilot following recovery.</p> <p><b>FY 2012 Base Plans:</b> Conduct study and analysis and develop functional requirements.</p>	-	-	5.707 0	-	5.707 0
<p><b>Title:</b> Advanced Precision Kill Weapons System II</p> <p align="right"><b>Articles:</b></p> <p><b>Description:</b> Development efforts needed for integration of air launched laser guided rockets on F/A-18 A+/C/D at stations 2, 3, 7, and 8.</p> <p><b>FY 2012 Base Plans:</b> N/A</p> <p><b>FY 2012 OCO Plans:</b></p>	-	-	- 0	2.000 0	2.000 0

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<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Perform and complete developmental testing needed to integrate air launched laser guided rockets on F/A-18 A +/C/D.					
<b>Accomplishments/Planned Programs Subtotals</b>	97.357	133.033	93.047	2.000	95.047

**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
• APN/0145: <i>F/A-18E/F</i>	1,499.876	1,784.894	2,366.752	0.000	2,366.752	2,284.560	1,012.842	0.000	0.000	0.000	42,500.014
• APN/0145C: <i>F/A-18EF AP</i>	51.271	2.295	64.962	0.000	64.962	25.300	0.000	0.000	0.000	0.000	1,647.253
• APN/0143: <i>EA-18G</i>	1,606.833	1,028.801	1,079.364	0.000	1,079.364	1,007.386	6.442	8.199	0.000	0.000	8,765.816
• APN/0143C: <i>EA-18G AP</i>	20.496	55.081	28.119	0.000	28.119	0.000	0.000	0.000	0.000	0.000	275.089
• APN/05250: <i>F-18 SERIES MOD</i>	536.631	536.071	499.597	46.992	546.589	685.413	1,044.070	921.625	967.151	1,845.245	11,005.701
• RDTEN/3063: <i>EA-18G DEVELOPMENT</i>	53.939	22.042	17.100	0.000	17.100	13.136	15.619	16.374	16.507	10.454	1,869.397

**D. Acquisition Strategy**

The F/A-18 Improvements program consists of extensive spiral development efforts mapped out in the capability-based approach F/A-18 E/F "Flight Plan." These efforts are critical to the baseline of the Super Hornet next generation mission system capability and maintaining tactical relevance in support of NAVPLAN 2030. The major programs within the F/A-18 Improvements project are based on six Weapon System Capabilities: Distributed Targeting Air to Ground (A/G) and Maritime, Distributed Targeting Air to Air (A/A), Net Centric Operations/Battle Space Management, Sensor Integration, A/G and Maritime Attack, and A/A Attack. The major efforts included in this project are: Dual Mode Weapons integration; an IRST; IDECM integrated with the AESA to provide Narrow Band High Gain Electronic Attack; Distributed Targeting capability through a DTS; Sensor Integration through Multi-Ship Emitter Geo-Location capability and MSI Phase I and Phase II capability; continued advanced development and F/A-18E/F Flight Plan engineering and analysis; continued enhanced software capabilities development; and engineering support to perform technical evaluations, modeling and simulations, and investigative flight testing.

- IRST. The IRST Phase I program is a Navy program entering the Systems Design and Development phase at Milestone B in FY 2011. A Phase I system will be developed by the Navy that will meet requirements for a counter electronic attack capability. This capability will reach Initial Operational Capability (IOC) in FY 2016.
- DTS. Distributed Targeting development is provided on a sole source cost plus incentive fee contract for EMD activities. The program is a new start ACAT III FY 2009 effort, with a post MS B entry and an IOC in FY 2012. The program is leveraging previous ECP efforts and is designated for all domestic Super Hornets.
- Sensor Integration. Sensor Integration development is provided on a sole source cost plus fixed fee contract on an Research and Development Basic Ordering Agreement to Raytheon.
- Integration of AGCAS is envisioned to require only changes to Software Configuration Set. Studies and analyses are needed to identify the appropriate implementation method.

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**E. Performance Metrics**

The DTS Program will achieve IOC in FY2012. IRST Program is scheduled to achieve MS B in 2nd Quarter of FY2011, MS C in 3rd Quarter of FY2014, and IOC in 4th Quarter of FY2016.

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

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<b>Product Development (\$ in Millions)</b>				<b>FY 2011</b>		<b>FY 2012 Base</b>		<b>FY 2012 OCO</b>		<b>FY 2012 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Total Prior Years Cost</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Primary Development EW Sensor	Various	Various:Various	-	1.813	Jan 2011	1.500	Jan 2012	-		1.500	2.405	5.718	
Primary Development EW Sensor	Various	Boeing:St. Louis, MO	5.730	0.600	Apr 2011	0.750	Apr 2012	-		0.750	0.175	7.255	
Primary Development EW Sensor	WR	NAWCWD:China Lake, CA	0.230	1.755	Jan 2011	1.500	Dec 2011	-		1.500	0.313	3.798	
Primary Hardware Dev IRST1	C/CPFF	Boeing:St. Louis, MO	21.506	11.250	Nov 2010	-		-		-	0.000	32.756	32.756
Primary Hardware Dev DTS	C/FFP	Boeing:St. Louis, MO	27.144	9.002	May 2011	-		-		-	1.479	37.625	37.625
Sensor Integration APSC	WR	NAWCWD:China Lake, CA	1.785	0.486	Jan 2011	-		-		-	0.080	2.351	
Sensor Integration APSC	Various	Raytheon:Goleta, CA	4.141	2.200	Mar 2011	-		-		-	0.000	6.341	
Dev Sensor Integration (SSG/SEI)	WR	NAWCWD:China Lake, CA	0.523	1.574	Jan 2011	1.220	Dec 2011	-		1.220	2.886	6.203	
Dev Sensor Integration (SSG/SEI)	Various	Boeing:St. Louis, MO	2.960	2.050	Mar 2011	1.161	Mar 2012	-		1.161	0.264	6.435	
Dev Sensor Integration (SSG/SEI)	Various	Various:Various	-	2.868	Jan 2011	0.486	Dec 2011	-		0.486	3.035	6.389	
SW Dev IDECM - HGESM	Various	Boeing:St. Louis, MO	1.482	0.914	Mar 2011	0.551	Mar 2012	-		0.551	0.203	3.150	
SW Dev IDECM - HGESM	WR	NAWCWD:China Lake, CA	0.390	1.522	Jan 2011	1.260	Dec 2011	-		1.260	0.244	3.416	
SW Dev IDECM - HGESM	Various	Raytheon:Goleta, CA	-	2.542	Jan 2011	1.421	Jan 2012	-		1.421	3.161	7.124	
Development Sensor Integration (Multi Ship Geo)	WR	NAWCWD:China Lake, CA	-	2.779	Jan 2011	-		-		-	4.569	7.348	
Development Sensor Integration (Multi Ship Geo)	Various	Raytheon:Goleta, CA	-	1.310	Jan 2011	-		-		-	2.665	3.975	
Development Sensor Integration (Multi Ship Geo)	Various	Boeing:St. Louis, MO	-	1.315	Jan 2011	-		-		-	2.665	3.980	
AGCAS Systems Engineering	Various	Various:Various	-	-		-		-		-	5.000	5.000	
Primary Hardware Dev IRST2	C/CPIF	Boeing:St. Louis, MO	-	19.900	Mar 2011	37.604	Nov 2011	-		37.604	63.480	120.984	120.984
Primary Hardware Dev MSI Phase II	Various	Various:Various	-	-		1.000	Dec 2011	-		1.000	0.000	1.000	

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<b>Product Development (\$ in Millions)</b>				<b>FY 2011</b>		<b>FY 2012 Base</b>		<b>FY 2012 OCO</b>		<b>FY 2012 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Total Prior Years Cost</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Prior Year cost no longer funded in FYDP	Various	Various:Various	456.920	-		-		-		-	0.000	456.920	
<b>Subtotal</b>			522.811	63.880		48.453		-		48.453	92.624	727.768	

**Remarks**  
 "Primary Hardware Development IRST" (C/CPFF) in FY11 was reduced from 31.150 to 11.250 with the remaining 19.900 put on "Primary Hardware Development IRST" C/CPIF. The reason for the change was to show the two different contracting actions now required for the IRST effort.

<b>Support (\$ in Millions)</b>				<b>FY 2011</b>		<b>FY 2012 Base</b>		<b>FY 2012 OCO</b>		<b>FY 2012 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Total Prior Years Cost</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Software Development IRST	WR	NAWCWD:China Lake, CA	-	-		2.860	Dec 2011	-		2.860	3.000	5.860	
Software Dev IDECM - HGESM	WR	NAWCWD:China Lake, CA	10.421	0.158	Dec 2010	0.148	Dec 2011	-		0.148	0.000	10.727	
Development Support IRST	WR	NAWCWD:China Lake, CA	4.727	0.995	Nov 2010	0.500	Dec 2011	-		0.500	1.000	7.222	
Development Support IRST	WR	NAWCAD:Pax River, MD	5.340	1.197	Nov 2010	1.960	Dec 2011	-		1.960	1.367	9.864	
Development Support IRST	WR	NAWCAD:Lakehurst, NJ	0.182	0.382	Feb 2011	0.800	Dec 2011	-		0.800	0.200	1.564	
Development Support IRST	WR	FRC Southeast:Jacksonville, FL	1.111	0.945	Nov 2010	1.350	Dec 2011	-		1.350	1.000	4.406	
Development Support IRST	WR	FRC Southwest:North Island, CA	0.082	0.075	Nov 2010	0.325	Dec 2011	-		0.325	0.075	0.557	
Software Dev (SCS) DTS	Various	Boeing:St. Louis, MO	21.066	7.937	May 2011	0.224	Feb 2012	-		0.224	30.770	59.997	59.997
Development Support - Sensor Integration (SSG/SEI)	WR	NAWCWD:China Lake, CA	1.500	0.138	Dec 2010	0.148	Dec 2011	-		0.148	0.000	1.786	
Development Support - Sensor Integration (MSI Ph II)	Various	NAWCWD:China Lake, CA	1.533	2.688	Jan 2011	-		-		-	3.470	7.691	

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

<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0204136N: <i>F/A-18 Squadrons</i>	<b>PROJECT</b> 1662: <i>F/A-18 Improvement</i>
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<b>Support (\$ in Millions)</b>				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
Development Support - Sensor Integration (MSI Ph II)	Various	Boeing:St. Louis, MO	4.998	8.757	Jan 2011	-		-		-	10.410	24.165	24.165
Development Support - Sensor Integration (Multi Ship Geo)	WR	NAWCWD:China Lake, CA	6.745	0.826	Jan 2011	-		-		-	1.288	8.859	
Development Support EW Sensor MSI Phase I	WR	NAWCWD:China Lake, CA	0.058	0.424	Jan 2011	-		-		-	0.500	0.982	
AGCAS Development Support	Various	Various:Various	-	-		-		-		-	4.203	4.203	
AGCAS Software Development	C/CPFF	Boeing:St. Louis, MO	-	-		2.815	Nov 2011	-		2.815	23.000	25.815	
AGCAS Configuration Management	Various	Various:Various	-	-		-		-		-	1.000	1.000	
AGCAS Technical Data	C/CPFF	Boeing:St. Louis, MO	-	-		0.300	Nov 2011	-		0.300	0.000	0.300	
AGCAS Studies & Analysis	C/CPFF	Boeing:St. Louis, MO	-	-		1.100	Nov 2011	-		1.100	0.000	1.100	
Development Support - Sensor Integration MSI Phase II	WR	FRC Southwest:North Island, CA	-	-		0.060	Jan 2012	-		0.060	0.000	0.060	
Development Support - Sensor Integration MSI Phase II	WR	PMA205:Pax River, MD	-	-		0.638	Jan 2012	-		0.638	0.000	0.638	
Prior Year costs no longer funded in FYDP	Various	Various:Various	2,907.041	-		-		-		-	0.000	2,907.041	
<b>Subtotal</b>			2,964.804	24.522		13.228		-		13.228	81.283	3,083.837	

<b>Test and Evaluation (\$ in Millions)</b>				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
DT&E IRST	WR	NAWCAD:Pax River, MD	2.923	0.675	Nov 2010	0.700	Dec 2011	-		0.700	0.600	4.898	
DT&E IRST	WR	NAWCWD:China Lake, CA	0.759	0.200	Nov 2010	2.500	Dec 2011	-		2.500	1.800	5.259	

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

<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0204136N: <i>F/A-18 Squadrons</i>	<b>PROJECT</b> 1662: <i>F/A-18 Improvement</i>
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<b>Test and Evaluation (\$ in Millions)</b>				<b>FY 2011</b>		<b>FY 2012 Base</b>		<b>FY 2012 OCO</b>		<b>FY 2012 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Total Prior Years Cost</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
ODT&E IRST	WR	OPTEVFOR:VX-9	0.013	0.005	Feb 2011	1.052	Dec 2011	-		1.052	1.700	2.770	
DT&E Dist Targeting DTS 1	WR	NAWCWD:China Lake, CA	5.956	10.584	Jan 2011	0.093	Dec 2011	-		0.093	1.808	18.441	
DT&E Dist Targeting DTS 2	WR	NAWCWD:China Lake, CA	0.150	6.903	Jan 2011	0.693	Dec 2011	-		0.693	0.045	7.791	
OT&E Dist Targeting DTS	WR	OPTEVFOR:Norfolk, VA	0.450	0.400	Jan 2011	0.398	Dec 2011	-		0.398	3.000	4.248	
OT&E Sensor Integration - SSG/SEI/MSI Ph I	WR	OPTEVFOR:Norfolk, VA	1.027	0.030	Apr 2011	-		-		-	0.032	1.089	
DT&E Sensor Integration - MSI Ph II-3	WR	NAWCAD:Pax River, MD	1.830	2.737	Jan 2011	-		-		-	3.670	8.237	
DT&E Sensor Integration - MSI Ph II-4	WR	FRC Southwest:North Island, CA	-	-		-		-		-	0.390	0.390	
Weapons Integration	WR	NAWCAD:Pax River, MD	-	-		-		2.000	Jun 2012	2.000	0.000	2.000	
DT&E Sensor Integration - MSI Phase II	WR	NAWCWD:China Lake, CA	-	-		6.648	Feb 2012	-		6.648	0.000	6.648	
DT&E Sensor Integration - MSI Phase II	WR	Various:Various	-	-		2.005	Jan 2012	-		2.005	0.000	2.005	
Prior Year costs no longer funded in FYDP	Various	Various:Various	79.642	-		-		-		-	0.000	79.642	
<b>Subtotal</b>			92.750	21.534		14.089		2.000		16.089	13.045	143.418	

<b>Management Services (\$ in Millions)</b>				<b>FY 2011</b>		<b>FY 2012 Base</b>		<b>FY 2012 OCO</b>		<b>FY 2012 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Total Prior Years Cost</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Program Mgmt Support DTS	WR	NAVAIR:Pax River, MD	2.048	1.819	Jan 2011	0.522	Dec 2011	-		0.522	0.448	4.837	
Govt Eng Support DTS	WR	NAWCAD:Pax River, MD	4.315	1.451	Jan 2011	1.825	Dec 2011	-		1.825	0.050	7.641	
Program Mgmt Sup (MISC)	Various		0.733	1.342	Jan 2011	-		-		-	16.843	18.918	

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

<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0204136N: <i>F/A-18 Squadrons</i>	<b>PROJECT</b> 1662: <i>F/A-18 Improvement</i>
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<b>Management Services (\$ in Millions)</b>				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
		NAWCAD:Pax River, MD											
Program Mgmt Sup (PMMAC-MSS)	C/CPFF	NAWCAD:Pax River, MD	6.854	2.500	Nov 2010	-		-		-	8.000	17.354	17.354
Travel	Various	NAWCAD:Pax River, MD	2.550	1.000	Feb 2011	-		-		-	3.200	6.750	
Flight Plan Engineering	Various	NAWCAD:Pax River, MD	2.900	1.260	Jan 2011	1.175	Dec 2011	-		1.175	3.515	8.850	
Flight Plan Engineering	Various	NAWCWD:China Lake, CA	6.400	2.940	Jan 2011	1.850	Jan 2012	-		1.850	8.203	19.393	
Gov Eng Support MSI PH II	WR	NAWCAD:Pax River, MD	0.260	0.327	Jan 2011	1.667	Dec 2011	-		1.667	0.510	2.764	
Gov Eng Support IRST	WR	NAWCAD:Pax River, MD	-	0.750	Dec 2010	-		-		-	0.000	0.750	
Test Wing Maintenance Conversion	WR	NAWCAD:Pax River, MD	11.808	4.854	Jan 2011	4.318	Jan 2012	-		4.318	57.871	78.851	
Test Wing Maintenance Conversion	WR	NAWCWD:China Lake, CA	11.808	4.854	Jan 2011	4.317	Jan 2012	-		4.317	0.000	20.979	
AGCAS Contractor Engineering Support	Various	Various:Various	-	-		0.403	Nov 2011	-		0.403	1.493	1.896	
AGCAS Government Engineering Support	Various	Various:Various	-	-		0.700	Nov 2011	-		0.700	3.200	3.900	
AGCAS Program Management Support	Various	Various:Various	-	-		0.500	Dec 2011	-		0.500	3.200	3.700	
AGCAS Travel	Various	Various:Various	-	-		-		-		-	0.800	0.800	
Prior Year costs no longer funded in FYDP	Various	Various:Various	23.156	-		-		-		-	0.000	23.156	
<b>Subtotal</b>			72.832	23.097		17.277		-		17.277	107.333	220.539	

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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2012 Navy</b>		<b>DATE:</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0204136N: <i>F/A-18 Squadrons</i>	<b>PROJECT</b> 1662: <i>F/A-18 Improvement</i>

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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2012 Navy		<b>DATE:</b> February 2011
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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2012 Navy</b>		<b>DATE:</b> February 2011
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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2012 Navy		<b>DATE:</b> February 2011
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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2012 Navy		<b>DATE:</b> February 2011
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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2012 Navy		<b>DATE:</b> February 2011
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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2012 Navy		<b>DATE:</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0204136N: <i>F/A-18 Squadrons</i>	<b>PROJECT</b> 1662: <i>F/A-18 Improvement</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Distributed Targeting System (DTS)</i></b>				
Acquisition Milestones: Milestones: Milestone C	2	2011	2	2011
Acquisition Milestones: Milestones: Initial Operational Capability	4	2012	4	2012
System Development: Hardware Development: DTP/MSU HW Development	1	2010	4	2010
System Development: Hardware Development: Mission Planning Interface (MPI) Case Development	1	2010	3	2010
System Development: Software Development: Distributed Targeting Processor (DTP) SW Development	1	2010	4	2010
System Development: Software Development: Mission Computer SW Development	1	2010	4	2010
System Development: Software Development: Mission Planning Interface (MPI) Transit DAOP SW Development	1	2010	4	2010
System Development: Reviews: DTP Test Readiness Review/Fleet Readiness Review	4	2010	4	2010
Test and Evaluation: Qual Testing	1	2010	4	2010
Test and Evaluation: Reliability Development Testing (RDT)	1	2010	3	2010
Test and Evaluation: Geo-reg Integration Testing	3	2010	2	2011
Test and Evaluation: Developmental Testing: DT Flight Testing	4	2010	1	2012
Test and Evaluation: Operational Testing: OT Flight Testing	2	2012	4	2012
Production Milestone: Engineering Change Proposal (ECP) Level III Maintenance	3	2010	4	2011
Production Milestone: Contract Awards: Low Rate Initial Production (LRIP 1) RDTEN	3	2011	3	2011
Production Milestone: Contract Awards: LRIP 2 RDTEN	2	2012	2	2012
Production Milestone: Contract Awards: Full Rate Production (FRP)	4	2012	4	2012
Production Milestone: Deliveries: LRIP 1 (Lot 1 - Qty 30)	3	2012	1	2013
Production Milestone: Deliveries: LRIP 2 (Lot 2 - Qty 60)	2	2013	2	2014

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2012 Navy		<b>DATE:</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0204136N: <i>F/A-18 Squadrons</i>	<b>PROJECT</b> 1662: <i>F/A-18 Improvement</i>

<b>Events by Sub Project</b>	<b>Start</b>		<b>End</b>	
	<b>Quarter</b>	<b>Year</b>	<b>Quarter</b>	<b>Year</b>
Production Milestone: Deliveries: FRP (Lot 3 - Qty 86) (Lot 4 - Qty 80) (Lot 5 - Qty 73)	2	2014	4	2016
<b><i>Infra-Red Search and Track</i></b>				
Acquisition Milestones: Milestones: Milestone B	2	2011	2	2011
Acquisition Milestones: Milestones: Milestone C (MS C)	3	2014	3	2014
Acquisition Milestones: Milestones: Initial Operational Capability (IOC)	4	2016	4	2016
System Development: Engineering and Manufacturing Development: Engineering and Manufacturing Development	2	2011	4	2015
System Development: Engineering and Manufacturing Development: Eng Dev Model (EDM) IRST Delivery - Lab/IT&E (Unit 1)	3	2013	3	2013
System Development: Engineering and Manufacturing Development: Eng Dev Model (EDM) IRST Delivery - Lab/IT&E (Unit 2)	4	2013	4	2013
System Development: Engineering and Manufacturing Development: Eng Dev Model (EDM) IRST Delivery - (Unit 3)	4	2013	4	2013
System Development: Engineering and Manufacturing Development: EDM Conversion	3	2015	4	2015
System Development: Software Development: H10 Fleet Release	4	2014	4	2014
System Development: Software Development: H12 Fleet Release	4	2016	4	2016
System Development: Software Development: IRST Software Build	2	2011	4	2015
System Development: Reviews: System Readiness Review (SRR) 1	1	2010	1	2010
System Development: Reviews: System Functional Review (SFR)	3	2010	3	2010
System Development: Reviews: System Readiness Review (SRR)	4	2010	4	2010
System Development: Reviews: Preliminary Design Review (PDR)	1	2011	1	2011
System Development: Reviews: Integrated Baseline Review (IBR) 1	4	2011	4	2011
System Development: Reviews: Critical Design Review (CDR)	1	2012	1	2012
System Development: Reviews: Fleet Readiness Review (FRR)	3	2012	3	2012
System Development: Reviews: Test Readiness Review (TRR) 1	4	2012	4	2012

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2012 Navy		<b>DATE:</b> February 2011
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<b>Events by Sub Project</b>	<b>Start</b>		<b>End</b>	
	<b>Quarter</b>	<b>Year</b>	<b>Quarter</b>	<b>Year</b>
System Development: Reviews: Test Readiness Review (TRR) 2	2	2014	2	2014
System Development: Reviews: Preproduction Readiness Review (PRR)	2	2014	2	2014
System Development: Reviews: Functional Configuration Audit (FCA)	2	2014	2	2014
System Development: Reviews: Integrated Baseline Review (IBR) 2	4	2014	4	2014
System Development: Reviews: Operational Testing Readiness Review (OTRR)	4	2015	4	2015
System Development: Reviews: Physical Configuration Audit (PCA)	3	2016	3	2016
Test and Evaluation: Integration Testing: Integration Testing (IT-B1)	4	2013	3	2014
Test and Evaluation: Integration Testing: Integration Testing (IT-C1)	3	2014	4	2015
Test and Evaluation: Operational Testing: Operational Assessment (OA)	4	2013	4	2013
Test and Evaluation: Operational Testing: Integrated Operational Test & Evaluation (IOT&E)	4	2015	1	2016
Test and Evaluation: Operational Testing: OPEVAL Report	3	2016	3	2016
Production Milestones: LRIP 1 APN	3	2014	3	2014
Production Milestones: LRIP 2 APN	3	2015	3	2015
Production Milestones: FRP I Start	4	2016	4	2016
Production Milestones: Deliveries: Low Rate Initial Production I (Lot 1 - Qty 6)	1	2016	2	2016
<b>SSG/SEI, HGESM/IDECM</b>				
System Development: Software Development: Software Development	1	2010	2	2011
System Development: Software Development: Software Integration	1	2010	2	2011
System Development: Reviews: Operational Testing Readiness Review (OTRR) 1	1	2012	1	2012
Test and Evaluation: Validation/Verification, IT&E	3	2011	4	2011
Test and Evaluation: Operational Evaluation (OPEVAL)	1	2012	3	2012
Production Milestones: Fleet Release	4	2012	4	2012
<b>MSI Phase I</b>				

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2012 Navy		<b>DATE:</b> February 2011
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<b>Events by Sub Project</b>	<b>Start</b>		<b>End</b>	
	<b>Quarter</b>	<b>Year</b>	<b>Quarter</b>	<b>Year</b>
System Development: Software Development: Software Development MSI	1	2010	2	2011
System Development: Software Development: Software Integration MSI	1	2010	2	2011
System Development: Reviews: Operational Testing Readiness Review (OTRR) 1 MSI	1	2012	1	2012
Test and Evaluation: Validation/Verification, IT&E MSI	3	2011	4	2011
Test and Evaluation: Operational Evaluation (OPEVAL) MSI	1	2012	3	2012
Production Milestones: Fleet Release MSI Ph I	4	2012	4	2012
<b>MSI Phase II</b>				
System Development: Requirements Definition	1	2010	1	2011
System Development: Design & Development	1	2011	1	2012
Test and Evaluation: Integration Testing MSI	2	2012	2	2013
Test and Evaluation: Operational Testing H10	1	2014	3	2014
Production Milestones: Fleet Release MSI Ph II	4	2014	4	2014
<b>Automatic Ground Collision Avoidance System</b>				
System Development: Hardware Development: Statement of Work Development	1	2012	4	2012
System Development: Software Development: System Performance Specification	1	2012	1	2012
System Development: Software Development: H12 Software Development & Delivery	1	2012	3	2016
System Development: Software Development: H14 Software Development & Delivery	4	2013	4	2016
System Development: Software Development: Integrated Readiness Review	4	2011	4	2011
System Development: Reviews: System Software Review (SSR)	2	2012	2	2012
System Development: Reviews: Critical Design Review (CDR) (AGCAS)	1	2013	1	2013
System Development: Reviews: Test Readiness Review (TRR) (AGCAS)	4	2015	4	2015
Test and Evaluation: Developmental Testing (AGCAS)	1	2016	4	2016
Test and Evaluation: TEMP Development	2	2013	1	2014

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

<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0204136N: <i>F/A-18 Squadrons</i>	<b>PROJECT</b> 2065: <i>F/A-18 Radar Upgrade</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
2065: <i>F/A-18 Radar Upgrade</i>	13.907	15.405	57.983	-	57.983	64.195	1.831	-	-	0.000	153.321
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

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

F/A-18 Radio Detection and Ranging (RADAR) Upgrade: The F/A-18 RADAR Upgrade, Active Electronically Scanned Array (AESA) development program, which began in FY 1999, is the last of three pre-planned upgrades to the F/A-18 Type/Model/Series RADAR. The AESA system corrects operational test deficiencies noted in the AN/APG-73. It provides for multi-target tracking, Synthetic Aperture RADAR (SAR) imagery, SAR Target Location Error (TLE), and improved spotlight map resolution. In addition, it provides for greater lethality than previous F/A-18 RADARs by allowing for full tactical support of existing and planned air-to-air (A/A) and air-to-ground (A/G) weapons and it significantly increases A/A and A/G detection and tracking ranges. The AESA system provides greater survivability through self-protection and standoff jamming capabilities, while its greater range allows for reduced detection by enemy radar. This budget continues spiral capability development of AESA by increased efforts to address Phase II Operational Requirements Document requirements such as Electronic Protection (EP) against multiple Radio Frequency emitters (Distributed Targeting - AESA Multi-Jammer EP), Electronic Attack Multiple Targeted Track and Engagement and Aided Target Recognition via minimal hardware/maximum software changes. Higher Order Language Software development and integration is also required for expanded A/A and A/G capabilities while in a tactical A/A and A/G threat Electronic Attack environment.

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

	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
<b>Title:</b> Distributed Targeting - AESA EP Engineering and Manufacturing Development	1.500	2.750	2.457	-	2.457
<b>Articles:</b>	0	0	0		0
<b>Description:</b> The AESA system provides greater survivability through self-protection and standoff jamming capabilities. This budget continues spiral capability development of AESA by increased efforts to address Phase II Operational Requirements Document requirements.					
<b>FY 2010 Accomplishments:</b> Continued Engineering Manufacturing Development efforts. Continue hardware developmental and refinement to the inherent EP efforts that will increase the number of channels within the Receiver to enable Multi-Channel future software Multi-Jammer Electronic Protection (EP) activities.					
<b>FY 2011 Plans:</b> Continue Engineering Manufacturing Development efforts. Continue hardware developmental and refinement to the inherent EP.					
<b>FY 2012 Base Plans:</b>					

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2012 Navy			<b>DATE:</b> February 2011		
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>		<b>R-1 ITEM NOMENCLATURE</b> PE 0204136N: <i>F/A-18 Squadrons</i>		<b>PROJECT</b> 2065: <i>F/A-18 Radar Upgrade</i>	

<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>
Continue Engineering Manufacturing Development efforts. Continue hardware developmental and refinement to the inherent EP.					
<b>Title:</b> Distributed Targeting - AESA EP SW Development, Developmental Testing, Operational Testing, & Integration  <b>Articles:</b>  <b>Description:</b> Funding being utilized to support software capabilities development and associated testing.  <b>FY 2010 Accomplishments:</b> Continued Development Testing, systems integration efforts, and AESA Operational Test and Evaluation inclusive of some Follow-on Test and Evaluation for minimal hardware/software change efforts. Continued Multi-Jammer EP efforts which expands and improves upon current software capability for EP against multiple Radio Frequency emitters, Electronic Attack, and improved Fixed/Ground Mobile Target detection and tracking.  <b>FY 2011 Plans:</b> Continue software development, Development Testing, systems integration efforts, and AESA Operational Test and Evaluation inclusive of some Follow-on Test and Evaluation for minimal hardware/software change efforts. Continue Multi-Jammer EP efforts.  <b>FY 2012 Base Plans:</b> Continue software development, Development Testing, systems integration efforts, and AESA Operational Test and Evaluation inclusive of some Follow-on Test and Evaluation for minimal hardware/software change efforts. Continue Multi-Jammer EP efforts.	12.407 0	12.655 0	55.526 0	-	55.526 0
<b>Accomplishments/Planned Programs Subtotals</b>	13.907	15.405	57.983	-	57.983

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<b>Line Item</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
• APN/0145: <i>F/A-18E/F</i>	1,499.876	1,784.894	2,366.752	0.000	2,366.752	2,284.560	1,012.842	0.000	0.000	0.000	42,500.014
• APN/0145C: <i>F/A-18E/F AP</i>	51.271	2.295	64.962	0.000	64.962	25.300	0.000	0.000	0.000	0.000	1,647.253
• APN/0143: <i>EA-18G</i>	1,606.833	1,028.801	1,079.364	0.000	1,079.364	1,007.386	6.442	8.199	0.000	0.000	8,765.816
• APN/1043C: <i>EA-18G AP</i>	20.496	55.081	28.119	0.000	28.119	0.000	0.000	0.000	0.000	0.000	275.089
	44.013	126.222	68.281	0.000	68.281	76.473	134.538	140.402	143.039	791.420	1,744.484

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2012 Navy	<b>DATE:</b> February 2011
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<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0204136N: <i>F/A-18 Squadrons</i>	<b>PROJECT</b> 2065: <i>F/A-18 Radar Upgrade</i>
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**C. Other Program Funding Summary (\$ in Millions)**

<u>Line Item</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u> <u>Base</u>	<u>FY 2012</u> <u>OCO</u>	<u>FY 2012</u> <u>Total</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• APN/05250: <i>F-18 Series Mod</i> <i>(OSIP 002-07)</i>											

**D. Acquisition Strategy**

The AESA program continues developmental efforts following a successful Full Rate Production milestone decision, after completing a two-phase Acquisition approach during the FY1999 through FY2007 timeframe. This strategy continues utilization of reform initiatives such as: early partnering with industry; leveraging industry investment; optimizing use of Commercial Off-The Shelf software and Non-Developmental Item; using Cost as an Independent Variable; and Electronic Data Deliverables. Basic Ordering Agreement orders for Request for Proposal developments are in place for Boeing, the airframe prime manufacturer/integrator, and Raytheon, the RADAR manufacturer, for focused risk reduction and sustainment of prior developmental activities.

**E. Performance Metrics**

Execute the system engineering process for software delivery and support the design and development of: EP, A/A and A/G Capabilities.

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

<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0204136N: <i>F/A-18 Squadrons</i>	<b>PROJECT</b> 2065: <i>F/A-18 Radar Upgrade</i>
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<b>Product Development (\$ in Millions)</b>				<b>FY 2011</b>		<b>FY 2012 Base</b>		<b>FY 2012 OCO</b>		<b>FY 2012 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Total Prior Years Cost</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Primary Hardware Development1	SS/CPFF	Boeing:St. Louis, MO	453.849	-		-		-		-	0.000	453.849	453.849
GFE	SS/CPFF	Boeing:St. Louis, MO	3.517	-		-		-		-	0.000	3.517	3.517
Primary Hardware Development	WR	NSMA:Arlington, VA	3.910	1.000	Nov 2010	0.894	Feb 2012	-		0.894	0.649	6.453	
Primary Hardware Development2	SS/CPFF	Boeing:St. Louis, MO	-	1.750	Feb 2011	1.564	Dec 2011	-		1.564	1.426	4.740	
Systems Engineering	WR	NAWCWD:China Lake, CA	0.565	0.530	Nov 2010	0.474	Nov 2011	-		0.474	0.465	2.034	
Systems Engineering	WR	NAWCAD:Pax River, MD	0.435	0.611	Nov 2010	0.545	Nov 2011	-		0.545	0.527	2.118	
<b>Subtotal</b>			462.276	3.891		3.477		-		3.477	3.067	472.711	

<b>Support (\$ in Millions)</b>				<b>FY 2011</b>		<b>FY 2012 Base</b>		<b>FY 2012 OCO</b>		<b>FY 2012 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Total Prior Years Cost</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Software Development	WR	NAWCWD:China Lake, CA	27.600	7.014	Nov 2010	5.018	Feb 2012	-		5.018	3.853	43.485	
Integrated Logistics Support	WR	Various:Various	1.511	-		0.267	Nov 2011	-		0.267	0.558	2.336	
Software Development 2	WR	NSMA:Arlington, VA	-	-		45.200	Jun 2012	-		45.200	55.000	100.200	
<b>Subtotal</b>			29.111	7.014		50.485		-		50.485	59.411	146.021	

<b>Test and Evaluation (\$ in Millions)</b>				<b>FY 2011</b>		<b>FY 2012 Base</b>		<b>FY 2012 OCO</b>		<b>FY 2012 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Total Prior Years Cost</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Developmental Test & Evaluation	WR	Various:Various	78.958	-		-		-		-	0.000	78.958	
Operational Test & Evaluation	WR	OPTEVFOR:Norfolk, VA	15.504	0.978	Mar 2011	0.874	Mar 2012	-		0.874	0.817	18.173	

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

<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0204136N: <i>F/A-18 Squadrons</i>	<b>PROJECT</b> 2065: <i>F/A-18 Radar Upgrade</i>
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<b>Test and Evaluation (\$ in Millions)</b>				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
Developmental Test & Evaluation	Various	NAWCWD:China Lake, CA	3.115	2.282	Nov 2010	1.748	Nov 2011	-		1.748	1.753	8.898	
Developmental Test & Evaluation	WR	NSMA:Arlington, VA	0.950	-		0.291	Feb 2012	-		0.291	0.000	1.241	
Developmental Test & Evaluation	MIPR	USAF Test Wing:Eglin AFB, FL	1.440	-		-		-		-	0.000	1.440	
Developmental Test & Evaluation	WR	NAWCAD:Pax River, MD	0.382	-		-		-		-	0.000	0.382	
Developmental Test & Evaluation	C/FFP	Raytheon:El Segundo, CA	5.792	-		-		-		-	0.000	5.792	5.792
<b>Subtotal</b>			106.141	3.260		2.913		-		2.913	2.570	114.884	

<b>Management Services (\$ in Millions)</b>				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
Program Management Support	Various	NAVAIR:Pax River, MD	4.438	0.529	Nov 2010	0.467	Nov 2011	-		0.467	0.428	5.862	
Travel	Various	NAVAIR:Pax River, MD	1.068	0.100	Nov 2010	0.100	Nov 2011	-		0.100	0.079	1.347	
Contractor Engineering Support	Various	Various:Various	0.508	0.611	Nov 2010	0.541	Nov 2011	-		0.541	0.471	2.131	
<b>Subtotal</b>			6.014	1.240		1.108		-		1.108	0.978	9.340	

	Total Prior Years Cost	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>		603.542	15.405	57.983	-	57.983	66.026	742.956

**Remarks**

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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2012 Navy		<b>DATE:</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0204136N: <i>F/A-18 Squadrons</i>	<b>PROJECT</b> 2065: <i>F/A-18 Radar Upgrade</i>

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2012 Navy		<b>DATE:</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0204136N: <i>F/A-18 Squadrons</i>	<b>PROJECT</b> 2065: <i>F/A-18 Radar Upgrade</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>F/A-18 Radar Upgrade</i></b>				
Acquisition Milestones: Milestones: Depot Standup	4	2010	4	2010
Systems Development: Hardware/Software Development: Config B Radar Deployment Window	1	2010	3	2010
Test & Evaluation: Integrated Test & Evaluation: H6 IT&E FOT&E2	1	2010	2	2011
Test & Evaluation: Integrated Test & Evaluation: H8 IT&E FOT&E2	1	2010	3	2012
Test & Evaluation: Integrated Test & Evaluation: H10 IT&E FOT&E2	2	2012	3	2014
Test & Evaluation: Integrated Test & Evaluation: H12 IT&E FOT&E2	3	2014	3	2016
Test & Evaluation: Anti-Tamper Development: IT&E PHASE 2	1	2010	1	2012
Production Milestones: Radar Deliveries: Retrofit Radar Deliveries	1	2010	1	2016
Production Milestones: Radar Deliveries: Full Rate Production (FRP) Deliveries - 46 (Lot 31)	1	2010	3	2010
Production Milestones: Radar Deliveries: FRP Deliveries - 70 (Lot 32)	3	2010	2	2011
Production Milestones: Radar Deliveries: FRP Deliveries - 57 (Lot 33)	2	2011	1	2012
Production Milestones: Radar Deliveries: FRP Deliveries - 40 (Lot 34)	1	2012	4	2012
Production Milestones: Radar Deliveries: FRP Deliveries A - 25 (Lot 35)	1	2013	4	2013
Production Milestones: Radar Deliveries: FRP Deliveries B - 25 (Lot 36)	1	2014	4	2014
Production Milestones: Software Deliveries: H6+ FLEET RELEASE	2	2011	2	2011
Production Milestones: Software Deliveries: H8 FLEET RELEASE	4	2012	4	2012
Production Milestones: Software Deliveries: H10 FLEET RELEASE	3	2014	3	2014
Production Milestones: Software Deliveries: H12 FLEET RELEASE	3	2016	3	2016

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

<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0204136N: <i>F/A-18 Squadrons</i>	<b>PROJECT</b> 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>	2.868	-	-	-	-	-	-	-	-	0.000	2.868
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
<b><i>Congressional Add:</i></b> Fighter Jet Noise Reduction Under Carrier Deck Operational Environment	2.868	-
<b><i>FY 2010 Accomplishments:</i></b> Initiate Jet Noise Reduction activities.		
<b>Congressional Adds Subtotals</b>	2.868	-

**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.