

EXHIBIT R-2, RDT&E Budget Item Justification						DATE: February 2007		
APPROPRIATION/BUDGET ACTIVITY						R-1 ITEM NOMENCLATURE		
RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-5						0604269N EA-18G		
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Total PE Cost	379.744	372.315	272.699	135.226	72.273	45.204	36.721	28.289
3063 AEA FOLLOW ON	379.744	370.970	272.699	135.226	72.273	45.204	36.721	28.289
9999 Congressional Add		1.345						

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

The EA-18G is designed to replace the EA-6B aircraft. The EA-18G's electronic attack upgrades will meet EA-6B (ALQ-218, ALQ-99, USQ-113) Airborne Electronic Attack (AEA) capability to detect, identify, locate and suppress hostile emitters; provide enhanced connectivity to National, Theater and Strike assets; and provide organic precision emitter targeting for employment of onboard suppression weapon, High-speed Anti-Radiation Missile (HARM) family of weapons, to fulfill operational requirements. The performance of the aircraft is compatible with the primary strike/fighter aircraft projected to be in the inventory in the 2010 time period, allowing it to be fully integrated into specific strike packages. The EA-18G will have the capability to operate autonomously or as a major node in a network-centric operation and is being designed to perform a range of Electronic Warfare/Electronic Attack functions either simultaneously or independently. This budget starts the process of addressing the Operational Requirement Document core block II requirements to operate autonomously and acting as a major command and control node. Additionally, this budget starts the integration of other sensors within the airborne electronic attack architecture.

B. PROGRAM CHANGE SUMMARY

Funding:	FY 2006	FY 2007	FY 2008	FY 2009
Previous President's Budget:	393.860	372.363	268.095	84.156
Current President's Budget:	379.744	372.315	272.699	135.226
Total Adjustments	-14.116	-0.048	4.604	51.070

Summary of Adjustments

Congressional Reductions				
Congressional Rescissions				
Congressional Undistributed Reductions	-8.438	-1.398		
Congressional Increases	0.440	1.350		
Economic Assumptions			0.800	2.004
Miscellaneous Adjustments	-6.118		3.804	49.066
Subtotal	-14.116	-0.048	4.604	51.070

Schedule: Reflects the addition of the Integrated Broadcast System (IBS) receiver replacement for increased combat power by networking sensors and improved situational awareness.

Technical: The Integrated Broadcast System (IBS) receiver replaces the Multi-mission Advanced Tactical Terminal (MATT) receiver to accommodate changes in waveforms/data, which will be unsupportable in 2010. Development will start in FY08 and completes in FY10.

EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2007			
APPROPRIATION/BUDGET ACTIVITY RDT&E,N / BA-5			PROGRAM ELEMENT NUMBER AND NAME 0604269N EA-18G			PROJECT NUMBER AND NAME 3063 EA-18G DEVELOPMENT				
COST (\$ in Millions)			FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
3063 AEA FOLLOW ON			379.744	370.970	272.699	135.226	72.273	45.204	36.721	28.289
RDT&E Articles Qty										

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: The EA-18G is designed to replace the EA-6B aircraft. The EA-18G's electronic attack upgrades will meet EA-6B (ALQ-218, ALQ-99, USQ-113) Airborne Electronic Attack (AEA) capability to detect, identify, locate and suppress hostile emitters; provide enhanced connectivity to National, Theater and Strike assets; and provide organic precision emitter targeting for employment of onboard suppression weapon, High-speed Anti-Radiation Missile (HARM) family of weapons, to fulfill operational requirements. The performance of the aircraft is compatible with the primary strike/fighter aircraft projected to be in the inventory in the 2010 time period, allowing it to be fully integrated into specific strike packages. The EA-18G will have the capability to operate autonomously or as a major node in a network-centric operation and is being designed to perform a range of Electronic Warfare/Electronic Attack functions either simultaneously or independently. This budget starts the process of addressing the Operational Requirement Document core block II requirements to operate autonomously and acting as a major command and control node. Additionally, this budget starts the integration of other sensors within the airborne electronic attack architecture.

B. ACCOMPLISHMENTS / PLANNED PROGRAM:

EA-18G Design and Avionics Integration	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishments / Effort / Sub-total Cost	311.948	250.060	169.137	104.933
RDT&E Articles Qty				

Continue Air Vehicle design and integration of avionics into the EA-18G.

EA-18G Software Development	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishments / Effort / Sub-total Cost	41.089	47.981	26.019	11.137
RDT&E Articles Qty				

Continue software development of the EA-18G.

EA-18G Developmental & Operational Testing	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishments / Effort / Sub-total Cost	26.707	72.929	77.543	19.156
RDT&E Articles Qty				

Start and complete developmental testing associated with SDD. Begin and complete operational test planning. Begin and complete OPEVAL.

C. OTHER PROGRAM FUNDING SUMMARY:	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Cost
EA-18G APN-1 (P-1 Line Item # 2)	325.431	605.579	1,267.710	1,590.587	1,318.217	697.965	242.585	0.000	0.000	6,048.074
EA-18G Advance Procurement (P-1 Line Item #3)	26.131	39.593	51.117	38.316	17.502	4.461	0.000	0.000	0.000	185.347

D. ACQUISITION STRATEGY:

A sole source contract was awarded to Boeing (the platform manufacturer) for system design and development (SDD) under a Cost-Plus Incentive Fee/Award Fee (CPIF/AF) contract arrangement that provides incentives based on cost, schedule, and technical performance. Boeing has a subcontract with Northrop Grumman to incorporate Electronic Warfare/Electronic Attack systems into the Super Hornet. The contract has been structured to minimize the Navy's up-front investment and cancellation penalty, while reducing costs for the total program life cycle. In FY05, two F/A-18F's started being modified with RDT&E funds to incorporate the Electronic Warfare/Electronic Attack systems for further development, integration, and testing. In FY06, an ECP (using procurement funds) was incorporated into the SDD contract to procure the EA-18G unique airframe changes and Airborne Electronic Attack kits, respectively, for the 4 SDD aircraft. Also during FY06 groundwork for the twelve (12) LRIP aircraft was initiated and an RFP will be released subsequent to the Milestone C authorization with a projected award in the third quarter FY07. Contractual studies are underway for Operational Requirement Document core block II activities and those efforts will be integrated into the overall EA-18G plan/roadmap as resources permit.

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Exhibit R-3 Cost Analysis (page 1)										DATE: February 2007		
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT			PROJECT NUMBER AND NAME							
RDT&E,N / BA-5		0604269N EA-18G			3063 EA-18G DEVELOPMENT							
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost to Complete	Total Cost	Target Value of Contract
PRODUCT DEVELOPMENT												
GFE	VARIOUS	VARIOUS	1.908	.050	VARIOUS	.050	VARIOUS	.064	VARIOUS	.050	2.122	
Primary Hdw Dev (ALQ-99)	WX	NSWC DET, CRANE IN	18.026	3.995	11/06	2.468	11/07	.525	11/08	1.237	26.251	
Primary Hdw Dev (Aircraft)	SS/CPAF	MCDONNELL DOUGLAS CORP, ST LOUIS, MO	643.646	158.858	10/06	96.704	10/07	51.895	10/08	73.260	1,024.363	1,024.363
Primary Hdw Dev (Aircraft)	VARIOUS	VARIOUS	1.842	.675	VARIOUS	.417	VARIOUS	.125	VARIOUS	.368	3.427	
SDD Award Fee	SS/CPAF	MCDONNELL DOUGLAS CORP, SAINT LOUIS, MO	25.300	19.868	11/06	25.346	11/07	17.433	11/08		87.947	87.947
Systems Engineering	WX	NAWCAD, LAKEHURST NJ	2.998	1.675	11/06	1.035	11/07	.250	11/08	.987	6.945	
Systems Engineering	WX	NAWCAD, PATUXENT RIVER MD	18.555	3.854	11/06	2.381	11/07	.822	11/08	10.577	36.189	
Systems Engineering	WX	NAWCAD, CHINA LAKE CA	26.308	30.628	11/06	19.120	11/07	10.120	11/08	11.294	97.470	
Systems Engineering	WX	NAWCAD, PT MUGU CA	22.896	12.325	11/06	7.814	11/07	6.930	11/08	5.766	55.731	
Systems Engineering	WX	NSWC DET, CRANE IN	9.007	1.035	11/06	1.039	11/07	1.490	11/08	1.505	14.076	
SUBTOTAL PRODUCT DEVELOPMENT			770.486	232.963		156.374		89.654		105.044	1,354.521	

Remarks: To date, all award fee pool funds have been awarded. The Target Value of Contract for the McDonnell Douglas (Boeing) contract for Primary Hardware development is based on the current value of the SDD contract plus a projection of additional future planned requirements.

SUPPORT												
Integrated Logistics Support	WX	VARIOUS	2.266	.902	11/06	.649	11/07	.204	11/08	.718	4.739	
Software Development	SS/CPFF	MCDONNELL DOUGLAS CORP, SAINT LOUIS, MO	109.171	49.374	11/06	25.324	11/07	9.402	11/08	24.143	217.414	217.414
SUBTOTAL SUPPORT			111.437	50.276		25.973		9.606		24.861	222.153	

Remarks: Target values of contract includes current items on contract and projected additions.

TEST & EVALUATION												
Dev Test & Eval	MIPR	NASA AMES	3.016								3.016	
Dev Test & Eval	MIPR	VARIOUS	1.750	.240	11/06	.245	11/07	.147	11/08		2.382	
Developmental Test & Eval	WX	NAWCAD, PATUXENT RIVER MD	36.580	59.097	11/06	14.463	11/07	4.657	11/08	9.486	124.283	
Developmental Test & Eval	WX	NAWCAD, CHINA LAKE CA		12.535	11/06	61.975	11/07	15.755	11/08	28.071	118.336	
Operational Test & Evaluation	WX	OPER T & E FOR CD 30, NORFOLK VA	1.378	1.057	11/06	1.555	11/07	10.332	11/08	1.325	15.647	
SUBTOTAL TEST & EVALUATION			42.724	72.929		78.238		30.891		38.882	263.664	

Remarks:

MANAGEMENT												
Contractor Engineering Support	VARIOUS	VARIOUS	6.343	2.100	11/06	2.250	10/07	1.900	11/08	2.668	15.261	
Government Engineering Support	WX	NAWCAD, PATUXENT RIVER MD	12.954	7.627	11/06	5.726	11/07	1.876	11/08	6.685	34.868	
Government Engineering Support	WX	VARIOUS	1.191								1.191	
Program Management Support	WX	NAWCAD, PATUXENT RIVER MD	11.108	4.575	11/06	3.778	11/07	1.186	11/08	3.936	24.583	
Travel	WX	VARIOUS	.898	.500	VARIOUS	.360	VARIOUS	.113	VARIOUS	.411	2.282	
SUBTOTAL MANAGEMENT			32.494	14.802		12.114		5.075		13.700	78.185	

Remarks:

Total Cost			957.141	370.970		272.699		135.226		182.487	1,918.523	
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Remarks:

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EXHIBIT R4, Schedule Profile																								DATE: February 2007									
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5												PROGRAM ELEMENT NUMBER AND NAME 0604269N EA-18G								PROJECT NUMBER AND NAME 3063 EA-18G DEVELOPMENT													
Fiscal Year	2006				2007				2008				2009				2010				2011				2012				2013				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Acquisition Milestones								MS C △												FRP △	IOC ☆												
Development Phases					System Development & Demonstration												Full Rate Production																
													Integrated Broadcast System (IBS) Development & Demonstration																				
EA-1 and 2 Full System Delivery				EA-1 ▲	EA-2 ▲																												
Test & Evaluation Milestones	Aeromechanical/LAB/M&S				Development Test/ Combined DT/OT								IBS Devel Test																				
Development Test																																	
Operational Test				DT Assi ▲				OA △				OT-C1 △								SDD OPEVAL ▭												IBS OT ▭	
Production Milestones	SDD Aircraft Contract Award																																
SDD FY 06																																	
LRIP I FY 07								LRIP I ▲				LRIP I AEA Kit AWARD																					
LRIP II FY 08												LRIP II ▲				LRIP II AEA KIT AWARD																	
FRP FY 09																FRP ACC ▲				FRP AEA Kit AWARD													
Deliveries								SDD(4) Deliveries								LRIP I (12) Deliveries				LRIP II (18) Deliveries				FRP (50) Deliveries									

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Exhibit R-4a, Schedule Detail					DATE: February 2007			
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5	PROGRAM ELEMENT 0604269N EA-18G				PROJECT NUMBER AND NAME 3063 EA-18G DEVELOPMENT			
Schedule Profile	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
System Development & Demonstration Phase (SDD)	1Q-4Q	1Q-4Q	1Q-4Q	1Q-3Q				
Developmental Testing	1Q-4Q	1Q-4Q	1Q-3Q					
Full Rate Production				3Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-3Q
SDD Aircraft Contract Award (APN-1 Funded)	1Q							
Development Test (DT) Assist	2Q							
SDD AEA Contract Award (APN-1 Funded)	3Q							
EA-1 Delivery	4Q							
EA-2 Delivery		1Q						
LRIP I Aircraft Contract Award (Funded in APN-1)		1Q						
Operational Assessment (OA)		2Q						
Milestone C (MSC)		3Q						
Integrated Broadcast System (IBS) receiver development phase			2Q-4Q	1Q-4Q	1Q-4Q			
Start Low-Rate Initial Production II (LRIP II)			1Q					
Operational Testing (OT-C1)			1Q					
SDD Production Delivery (funded in APN-1)			1Q-2Q					
Operational Evaluation (OPEVAL)			4Q	1Q-2Q				
Integrated Broadcast System (IBS) receiver Development Test(DT)				1Q-4Q				
FRP Aircraft Contract Award				1Q				
Low-Rate Initial Production I Delivery				1Q-4Q				
Full Rate Production (FRP) Decision				3Q				
FRP AEA Contract Award				4Q				
IOC				4Q				
LRIP II Delivery					1Q-4Q			
Full Rate Production (FRP) Delivery						1Q-4Q	1Q-4Q	1Q-3Q
Integrated Broadcast System (IBS) receiver Operational Testing					2Q			

EXHIBIT R-2a, RDT&E Project Justification							DATE:		
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME			PROJECT NUMBER AND NAME				
RDT&E,N / BA-5		0604269N EA-18G			9999 Congressional Add				
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
9999 Congressional Add			1.345						
RDT&E Articles Qty									

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

Congressional Add.

B. ACCOMPLISHMENTS / PLANNED PROGRAM:

9A33N Next Generation Electronic Warfare Simu	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishments / Effort / Sub-total Cost		1.345		
RDT&E Articles Qty				

Provides Radio Frequency (RF) threat generation capabilities for the F/A-18 & EA-18G Advanced Weapons Laboratory team to validate and verify the performance of mission critical Electronic Warfare systems."

Provides Radio Frequency (RF) threat generation capabilities for the EA-18G.