

EXHIBIT R-2, RDT&E Budget Item Justification	DATE: February 2005
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APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-5					R-1 ITEM NOMENCLATURE 0604269N EA-18G			
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Total PE Cost	203.737	353.679	409.097	372.023	268.309	82.264	84.089	85.738
3063 EA-18G DEVELOPMENT	203.737 *	353.679	409.097	372.023	268.309	82.264	84.089	85.738

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 (with LR-700, 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 weapons High-speed Anti-Radiation Missile (HARM) to fulfill operational requirements. The EA-18G will have the capability to operate autonomously or as a major node in a network-centric operation. 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. It will also have the capacity to provide broad area coverage for extended periods of time to support numerous strikes or other air operations in a federated context. The EA-18G is a scaleable, flexible solution that facilitates "Task Organized" force structures. The task organized force structures employ adequate forces to accomplish a specific task while maintaining the operation and personnel tempo at acceptable levels. The EA-18G is being designed to perform a range of Electronic Warfare/Electronic Attack functions either simultaneously or independently. The man in the loop operation and advanced information display system will allow real time assessment of the tactical situation and the appropriate response executed in accordance with the rules of engagement.

* The FY 2004 funding was executed under PE 0604270N PU 3063.

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EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2005	
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 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost	203.737*	353.679	409.097	372.023	268.309	82.264	84.089	85.738
RDT&E Articles Qty								

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

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B. Accomplishments/Planned Program

AEA Follow On	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	173.270	302.793	320.268	268.242
RDT&E Articles Quantity				

- Continue Air Vehicle Design and Integration of ICAP III Avionics into the EA-18G.

AEA Follow On	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	24.069	43.219	49.939	45.734
RDT&E Articles Quantity				

- Continue Software Development of the EA-18G.

AEA Follow On	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	6.398	7.667	38.890	58.047
RDT&E Articles Quantity				

- Start developmental testing/operational testing and planning for the EA-18G.

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C. PROGRAM CHANGE SUMMARY:					
Funding:		FY 04	FY 05	FY 06	FY 07
Previous President's Budget:		215.431	357.502	407.106	368.688
Current BES/President's Budget		203.737	353.679	409.097	372.023
Total Adjustments		-11.694	-3.823	1.991	3.335
Summary of Adjustments					
Congressional program reductions					
Congressional undistributed reductions			-3.347		
Congressional rescissions					
SBIR/STTR Transfer					
Other adjustments			-0.476	-2.313	-1.903
Economic Assumptions		-0.200		4.304	5.238
Reprogrammings		-11.494			
Congressional increases					
Subtotal		-11.694	-3.823	1.991	3.335
Schedule:					
PDR and CDR was moved at MS B decision to account for subsystem PDR and IBR schedule.					
Technical:					
Not Applicable					

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RDT&E, N / BA-5	0604269N EA-18G	3063 EA-18G DEVELOPMENT

D. OTHER PROGRAM FUNDING SUMMARY:

<u>Line Item No. & Name</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>To Complete</u>	<u>Total Cost</u>
P-1 LINE ITEM 2 & 3: EA-18G APN-1 (EA-18G Weapons System Cost)		8.211	336.661	891.507	1,308.289	1,627.333	1,469.445	1,083.602	0.000	6,725.048

Related RDT&E
 (U) 0604270N E0556 EW Counter Repsonse
 (U) 0604270N E3063 AEA Follow On

E. ACQUISITION STRATEGY:

Development of EA-18G is based on the findings of an OSD sponsored Analysis of Alternatives and a Navy sponsored Refinement of Alternatives study. A sole source contract has been awarded to Boeing (the platform manufacturer) for system design and development. Boeing is under contract 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. The Cost-Plus Award Fee (CPAF) contract arrangement provides incentives based on cost, schedule, and technical performance. Starting in FY05 two F/A-18F's will be modified with RDT&E to incorporate the Electronic Warfare/Electronic Attack systems for further development, integration, and testing.

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Exhibit R-3 Cost Analysis (page 1)								DATE: February 2005				
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 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hdw Development(Aircraft)	SS/CPAF	MDA- ST LOUIS	159.155	229.149	10/04	244.085	10/05	165.519	10/06	209.840	1,007.748	1,007.748
SDD Award Fee	SS/CPAF	MDA- ST LOUIS		13.100	10/04	12.200	12/05	19.180	12/06	42.718	87.198	87.198
Primary Hdw Development(Aircraft)	Various	Various	0.320	0.922	12/04	0.600	12/05	0.675	12/06	0.300	2.817	
Primary Hdw Development(ALQ-99)	WX	NSWC CRANE	3.028	8.403	11/04	8.096	11/05	8.766	11/06	8.095	36.388	
Systems Engineering	WX	NAWCWD-CHINA LAKE	6.822	11.157	10/04	14.129	10/05	29.873	10/06	39.791	101.772	
Systems Engineering	WX	NSWC CRANE	1.242	6.848	11/04	5.530	11/05	3.500	11/06	5.156	22.276	
Systems Engineering	WX	NAWCWD-POINT MUGU	4.878	8.640	11/04	10.673	11/05	11.332	11/06	15.535	51.058	
System Engineering	WX	NAWCAD- PAX RIVER	2.081	9.200	11/04	9.200	11/05	8.400	11/06	20.304	49.185	
System Engineering	WX	NAWCAD- LAKEHURST	2.198	0.600	12/04	0.200	11/05	3.200	11/06	3.780	9.978	
GFE	Various	Various	1.308	0.600	Various	0.100	12/05	0.200	11/06	0.150	2.358	
Subtotal Product Development			181.032	288.619		304.813		250.645		345.669	1,370.778	
Remarks:												
											0.000	
Software Development	SS/CPFF	MDA- ST LOUIS	25.569	43.219	10/04	49.939	10/05	45.734	10/06	42.951	207.412	207.412
Integrated Logistics	WX	Various	0.498	0.860	11/04	0.908	11/05	0.902	11/06	2.686	5.854	
											0.000	
											0.000	
											0.000	
											0.000	
Subtotal Support			26.067	44.079		50.847		46.636		45.637	213.266	
Remarks: Note 1: FY02 costs were under PE 0604270N, E0556, EW Counter Response Note2: FY03 and FY04 costs were under PE 0604270N, E3063 AEA Follow On.												

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Exhibit R-3 Cost Analysis (page 2)										DATE: February 2005		
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 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	WX	NAWCAD-PAX RIVER	2.034	6.427	10/04	38.350	11/05	48.186	11/06	57.972	152.969	
Developmental Test & Evaluation	WX	NAWCWD-CHINA LAKE						9.046	11/06	11.216	20.262	
Developmental Test & Evaluation	MIPR	AEDC, TN	0.750	1.000	11/04						1.750	
Developmental Test & Evaluation	MIPR	NASA AMES	3.016								3.016	
Operational Test & Evaluation	WX	OPTEVFOR , NORFOLK VA	0.598	0.240	12/04	0.540	11/05	0.815	11/06	11.987	14.180	
											0.000	
											0.000	
Subtotal T&E			6.398	7.667		38.890		58.047		81.175	192.177	
Remarks:												
Contractor Engineering Support	Various	Various	2.673	2.175	12/04	2.095	11/05	2.148	11/06	9.042	18.133	
Program Management Support	WX	NAWCAD-PAX RIVER	3.238	3.831	11/04	5.152	11/05	5.247	11/06	13.789	31.257	
Government Engineering Support	WX	NAWCAD-PAX RIVER	1.627	6.968	12/04	6.800	11/05	8.800	11/06	23.733	47.928	
Travel	WX	NAVAIR, PAX RIVER MD	0.458	0.340	VAR	0.500	VAR	0.500	VAR	1.355	3.153	
Non-Add											0.000	
											0.000	
Subtotal Management			7.996	13.314		14.547		16.695		47.919	100.471	
Remarks:												
Total Cost			221.493	353.679		409.097		372.023		520.400	1,876.692	
Remarks: Note 1: FY02 costs were under PE 0604270N, E0556, EW Counter Response Note2: FY03 and FY04 costs were under PE 0604270N, E3063 AEA Follow On.												

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EXHIBIT R4, Schedule Profile																								DATE: February 2005								
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	2004				2005				2006				2007				2008				2009				2010				2011			
	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 B ▲				PDR ▲				CDR △				MS C △				FRP △				IOC ☆											
Development Phases	Pre SDD				System Development & Demonstration								System Development & Demonstration								Full Rate Production											
EA-1 and 2 Full System Delivery									EA-1 △				EA-2 △																			
Test & Evaluation Milestones	Aeromechanical/LAB/M&S																															
Development Test	Aeromechanical/LAB/M&S				Development Test/ Combined DT/OT																											
Operational Test					DT Assist △				OA △				OT-C1 △				OPEVAL															
Production Milestones																																
SDD FY 06					Aircraft Contract Award				AEA ECP Award																							
LRIP I FY 07									LRIP I				LRIP I AEA Kit AWARD																			
LRPII FY 08													LRIP II				LRIP II AEA KIT AWARD															
FRP FY 09																	FRP ACC				FRP AEA Kit AWARD											
Deliveries													SDD(4) Deliverie				LRIP I (12) Deliveries				LRIP II (18) Deliveries				FRP (22) Deliveries							

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Exhibit R-4a, Schedule Detail						DATE: February 2005		
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5	PROGRAM ELEMENT 0604269N EA-18G				PROJECT NUMBER AND NAME 3063 EA-18G DEVELOPMENT			
Schedule Profile	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Pre System Development & Demonstration Phase(Pre-SDD)	1Q							
System Development & Demonstration Phase(SDD)	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q				
Developmental Testing	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q				
Milestone B (MSB)	1Q							
Preliminary Design Review (PDR)		1Q						
Critical Design Review (CDR)		3Q						
SDD Aircraft & Contract Award	1Q		1Q					
Development Test(DT) Assist			2Q					
SDD Production (AEA) Contract Award			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				
Start Low-Rate Initial Production II (LRIP II)								
Operational Testing (OT-C1)								
SDD Production Delivery (funded in APN-1)								
Operational Evaluation (OPEVAL)								
FRP Aircraft Contract Award								
Low-Rate Initial Production I Delivery								
Full Rate Production (FRP) Decision								
FRP AEA Contract Award								
IOC								
Low-Rate Initial Production II Delivery								
Full Rate Production (FRP) Delivery								

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Exhibit R-2, RD TEN Budget Item Justification
(Exhibit R-2, page 9 of 10)

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 Termination Liability Funding
 For Major Defense Acquisition Programs,
 RDT&E Funding
 (\$000)

Program	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
3063 EA-18G Development	0	0	0	0	0	0	0	0

This program does not budget/fund termination liability separately. A Limitation of Funds (LoF) clause (FAR 52.232-22) is inserted in all incrementally funded R&D contracts. This clause is designed to limit the government's legal liability to the amount obligated.

Instructions:

1. For all ACAT I programs with RDT&E funding, indicate the funds, by year, budgeted for termination liability.
2. If not budgeted, provide the appropriate waiver authority.
3. For programs with waiver authority, identify the amounts on the contract, by year.