CLASSIFICATION:

UNCLASSIFIED

EXHIBIT R-2, RDT&E Budget Item Justification							DATE:	
							Februa	ry 2004
APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMEN	ICLATURE	•	
RESEARCH DEVELOPMENT TEST & EVALUATI	ON, NAVY /	BA-5	· · · · · · · · · · · · · · · · · · ·		0604269N EA-18	SQUADRONS	1	
COST (\$ in Millions)		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Total PE Cost			215.431	357.502	407.106	368.688	266.305	81.046
E3063 EA-18G			215.431	357.502	407.106	368.688	266.305	81.046
Note: FY03 and FY04 Excuted under 0604270N, E3063	3.	17.756						
		1			1			

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 (HARM) to fullfill 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.

R-1 SHOPPING LIST - Item No.

97

SIFIEDExhibit R-2, RDTEN Budget Item Justification
(Exhibit R-2, page 1 of 9)

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE:	
							Februar	y 2004
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMI	ENT NUMBER AND	NAME		PROJECT NUMBE	R AND NAME		
RDT&E, N / BA-5	0604269N EA-18 S	SQUADRONS			E3063 EA-18G			
COST (\$ in Millions)		FY 2003*	FY 2004*	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Project Cost		17.756	215.431	357.502	407.106	368.688	266.305	81.046
RDT&E Articles Qty								

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

(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 or exceed 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 (HARM) to fullfill 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.

*Note: FY03 was under PE 0604270N, E3063 AEA Follow On

R-1 SHOPPING LIST - Item No.

97

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justificati	on		DATE:
PPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME	February 2004
DT&E, N / BA-5	0604269N EA-18 SQUADRONS	E3063 EA-18G	
DIGE, IT 7 DA 0	0004203N EA 10 OQUADNONO	20000 E/V 100	
. Accomplishments/Planned Program			
AEA Follow On	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	16.256	185.196	308.849
RDT&E Articles Quantity			
- (U) Continue Air Vehicle Design and Integra	tion of ICAP III Avionics into the EA-18G.		
AEA Follow On	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	1.500	25.500	44.679
RDT&E Articles Quantity	1.500	20.000	44.073
- (U) Continue Software Development of the E	EA-18G.		
	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	1100	4.735	3.974
RDT&E Articles Quantity		4.755	3.914
-(U) Start developmental testing for the EA-18	3G.		
	P-1 SHOPPING LIST - Item	n No. 97	

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification					DATE:		
						February	2004
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER A	ND NAME		PROJECT NUMBER AND	NAME		
RDT&E, N / BA-5	0604269N EA-18 SQUADRONS			E3063 E/A-18G			
C. PROGRAM CHANGE SUMMARY:							
Funding:		FY 2003	FY 2004	FY 2005			
Previous President's Budget:		9.78	204.822	350.768			
Current BES/President's Budget		17.756	215.431	357.502			
Total Adjustments		7.976	10.609	6.734			
Summary of Adjustments							
Congressional program reductions							
Congressional undistributed reductions			-2.314				
Congressional rescissions							
SBIR/STTR Transfer							
Economic Assumptions				-1.047			
Reprogrammings		7.976	40.000	7 704			
Reprioritization			12.923	7.781			
Congressional increases Subtotal		7.976	10.609	6.734			
Schedule:							
Not Applicable							
Technical:							
Not Applicable							

R-1 SHOPPING LIST - Item No. 97

CLASSIFICATION:

DPRIATION/BUDGET ACTIVITY PROGRAM ELEMENT NUMBER AND NAME PROJECT NUMBER AND NAME		E Project Justification							DATE:	Februar	v 2004
D. OTHER PROGRAM FUNDING SUMMARY: To Total Line Item No. & Name FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2008 FY 2008 FY 2009 Complete Cost P-1 LINE ITEM 2: EA-18G APN-1 (EA-18G) 8.243 333.980 882.315 1292.063 1568.357 Related RDT&E (U) 060427ON E0556 EW Counter Repsonse Congress earmarked \$5M for Pre-System Development and Demonstration (SDD) Phase I and \$2.M BTRs provided funding for EA-6B Follow-on efforts in FY02. (U) 060427ON E3063 AEA Follow On FY03 \$10M Congressional Add for pre-SDD Phase II risk reduction activity. 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 will go under contract with Northrop Grumman to incorporate Electronic Warfare/Electronic Attack systems into the Super Hornet. The contract will be 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 2005 two F/A-18F's will be modified with RDT&E to incorporate the Electronic	OPRIATION/BUDGE	T ACTIVITY	PROGRAM E	LEMENT NUM	BER AND NAM	МЕ	PROJECT NU	JMBER AND N	AME	i coi uai	, 2007
Line Item No. & Name P-1 LINE ITEM 2: EA-18G APN-1 (EA-18G) Related RDT&E (U) 0604270N E0556 EW Counter Repsonse Congress earmarked \$5M for Pre-System Development and Demonstration (SDD) Phase I and \$2.M BTRs provided funding for EA-6B Follow-on efforts in FY02. (U) 0604270N E3063 AEA Follow On FY03 \$10M Congressional Add for pre-SDD Phase II risk reduction activity. 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 will go under contract with Northrop Grumman to incorporate Electronic Warfare/Electronic Attack systems into the Super Hornet. The contract will be structured to minimize the Navy's up-front investment and cancellation penalty while reducing costs for the total program life cycle. The Color Suskamen to incorporate the Electronic (CPAF) contract arrangement provides incentives based on cost, schedule, and technical performance. Starting in 2005 two F/A-18F's will be modified with RDT&E to incorporate the Electronic	&E, N /	BA-5	0604269N EA	-18 SQUADRO	ONS		E3063 EA-1	8G			
Line Item No. & Name P-1 LINE ITEM 2: EA-18G APN-1 (EA-18G) Related RDT&E (U) 0604270N E0556 EW Counter Repsonse Congress earmarked \$5M for Pre-System Development and Demonstration (SDD) Phase I and \$2.M BTRs provided funding for EA-6B Follow-on efforts in FY02. (U) 0604270N E3063 AEA Follow On FY03 \$10M Congressional Add for pre-SDD Phase II risk reduction activity. 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 will go under contract with Northrop Grumman to incorporate Electronic Warfare/Electronic Attack systems into the Super Hornet. The contract will be structured to minimize the Navy's up-front investment and cancellation penalty while reducing costs for the total program life cycle. The Color Suskamen to incorporate the Electronic (CPAF) contract arrangement provides incentives based on cost, schedule, and technical performance. Starting in 2005 two F/A-18F's will be modified with RDT&E to incorporate the Electronic	D OTHER PROCE	AM FUNDING CUMMADY.									
Line Item No. & Name P-1 LINE ITEM 2: EA-18G APN-1 (EA-18G) Related RDT&E (U) 0604270N E0556 EW Counter Repsonse Congress earmarked \$5M for Pre-System Development and Demonstration (SDD) Phase I and \$2.M BTRs provided funding for EA-6B Follow-on efforts in FY02. (U) 0604270N E3063 AEA Follow On FY03 \$10M Congressional Add for pre-SDD Phase II risk reduction activity. 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 will go under contract with Northrop Grumman to incorporate Electronic Warfare/Electronic Attack systems into the Super Hornet. The contract will be 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 2005 two F/A-18F's will be modified with RDT&E to incorporate the Electronic	D. OTHER PROGR.	AM FUNDING SUMMARY:								To	Total
APN-1 (EA-18G) 8.243 333.980 882.315 1292.063 1568.357 Related RDT&E (U) 0604270N E0556 EW Counter Repsonse Congress earmarked \$5M for Pre-System Development and Demonstration (SDD) Phase I and \$2.M BTRs provided funding for EA-6B Follow-on efforts in FY02. (U) 0604270N E3063 AEA Follow On FY03 \$10M Congressional Add for pre-SDD Phase II risk reduction activity. 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 will go under contract with Northrop Grumman to incorporate Electronic Warfare/Electronic Attack systems into the Super Hornet. The contract will be 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 2005 two F/A-18F's will be modified with RDT&E to incorporate the Electronic	Line Item No. & N	<u>ame</u>	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009		
Related RDT&E (U) 0604270N E0556 EW Counter Repsonse Congress earmarked \$5M for Pre-System Development and Demonstration (SDD) Phase I and \$2.M BTRs provided funding for EA-6B Follow-on efforts in FY02. (U) 0604270N E3063 AEA Follow On FY03 \$10M Congressional Add for pre-SDD Phase II risk reduction activity. 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 will go under contract with Northrop Grumman to incorporate Electronic Warfare/Electronic Attack systems into the Super Hornet. The contract will be 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 2005 two F/A-18F's will be modified with RDT&E to incorporate the Electronic		A-18G									
(U) 0604270N E0556 EW Counter Repsonse Congress earmarked \$5M for Pre-System Development and Demonstration (SDD) Phase I and \$2.M BTRs provided funding for EA-6B Follow-on efforts in FY02. (U) 0604270N E3063 AEA Follow On FY03 \$10M Congressional Add for pre-SDD Phase II risk reduction activity. 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 will go under contract with Northrop Grumman to incorporate Electronic Warfare/Electronic Attack systems into the Super Hornet. The contract will be 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 2005 two F/A-18F's will be modified with RDT&E to incorporate the Electronic	APN-1 (EA-18G)				8.243	333.980	882.315	1292.063	1568.357		
the Super Hornet. The contract will be 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 2005 two F/A-18F's will be modified with RDT&E to incorporate the Electronic	(U) 0604270N E306 FY03 \$10M Congress E. ACQUISITION STR	63 AEA Follow On sional Add for pre-SDD Phase II risk RATEGY: * t of EA-18G is based on the findi	reduction activity.	, Analysis of Alte	ernatives and a	ı Navy sponso	red Refinemen	t of Alternatives	s study. A sole		
	the Super Horne (CPAF) contract	et. The contract will be structured arrangement provides incentive	d to minimize the Navy's up es based on cost, schedule	-front investme , and technical	ent and cancel	lation penalty	while reducing	costs for the to	tal program life	cycle. The Cost	-Plus Award Fee

R-1 SHOPPING LIST - Item No. 97

CLASSIFICATION:

								DATE:				
Exhibit R-3 Cost Analysis (pag	e 1)									February 20	04	
APPROPRIATION/BUDGET ACTIVI	TY	PROGRAM E	LEMENT			PROJECT NU	MBER AND N	IAME				
RDT&E, N / BA-5		0604269N EA	-18 SQUADRO	NS		E3063 EA-18	3G					
Cost Categories	Contract	Performing	Total		FY 03		FY 04		FY 05			
		Activity &	PY s	FY 03	Award	-	Award	FY 05	Award	Cost to	Total	Target Value
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract
Primary Hdw Development(Aircraft)	SS/CPAF	MDA- ST LOUIS	5.108	13.388	04/03	156.166	12/03	261.804	12/04	695.012	1,131.478	1,131.478
SDD Award Fee	SS	MDA- ST LOUIS						13.077	12/04	74.104	87.181	87.181
Primary Hdw Development(Aircraft)	Various	Various				0.315	12/03	0.922	12/04	1.871	3.108	
Primary Hdw Development(ALQ-99)	WX	NSWC CRANE				3.027	12/03	3.403	12/04	6.665	13.095	
Systems Engineering	WX	NAWCWD-CHINA LAKE	0.210	0.420	05/03	3.399	11/03	9.157	11/04	47.510	60.696	
Systems Engineering	WX	NSWC CRANE	0.250	0.301	05/03	0.861	12/03	1.533	12/04	6.820	9.765	
Systems Engineering	WX	NAWCWD-POINT MUGU	0.250	0.250	05/03	5.701	12/03	6.640	12/04	23.796	36.637	
GFE	Various	Various				2.800	Various	0.600	Various		3.400	
											0.000	
											0.000	
											0.000	
Subtotal Product Development			5.818	14.359		172.269		297.136		855.778	1,345.360	

Remarks:

											0.000	
Software Development	SS/CPAF	MDA- ST LOUIS		1.500	06/03	25.500	01/04	44.679	01/05	112.160	183.839	183.839
Integrated Logistics	WX	Various		0.069	05/03	0.611	01/04	0.706	01/05	2.491	3.877	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
Subtotal Support			0.000	1.569		26.111		45.385		114.651	187.716	

Remarks:

Prior Years costs were under PE 0604270N, E0556, EW Counter Response and PE 0604270N, E3063 AEA Follow On.

CLASSIFICATION:

·								DATE:				
Exhibit R-3 Cost Analysis (pag	ge 2)									February 20	04	
APPROPRIATION/BUDGET ACTIV	ITY	PROGRAM E	LEMENT			PROJECT NU	JMBER AND N	NAME				
RDT&E, N / BA-5		0604269N EA	-18 SQUADRO	NS		E3063 EA-18	8G					
Cost Categories	Contract	Performing	Total		FY 03		FY 04		FY 05			
	Method	Activity &	PY s	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Target Value
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract
Developmental Test & Evaluation	WX	NAWCAD-PAX RIVER				1.505	01/04	4.427	01/05	94.792	100.724	
Developmental Test & Evaluation	WX	NAWCWD-CHINA LAKE								5.093	5.093	1
Developmental Test & Evaluation	MIPR	ADEC				1.700	01/04				1.700	
Developmental Test & Evaluation	TBD	NASA AMES				3.761	05/04				3.761	
Operational Test & Evaluation	WX	OPTEVOR , NORFOLK VA				0.186	03/04	0.240	03/05	10.756	11.182	
											0.000)
											0.000)
Subtotal T&E			0.000	0.000		7.152		4.667		110.641	122.460	

Remarks:

Contractor Engineering Support	Various	Various	0.220	0.247	05/03	2.121	12/03	2.175	12/04	8.042	12.805	
Program Management Support	WX	NAWCAD-PAX RIVER	0.936	1.500	05/03	2.747	11/03	2.831	11/04	13.190	21.204	
Government Engineering Support	WX	NAWCAD-PAX RIVER				4.695	12/03	4.968	12/04	19.643	29.306	
Travel	WX	NAVAIR, PAX RIVER MD	0.050	0.081	VAR	0.336	VAR	0.340	VAR	1.200	2.007	
											0.000	
											0.000	
Subtotal Management			1.206	1.828		9.899		10.314		42.075	65.322	

Remarks:

Prior Years costs were under PE 0604270N, E0556, EW Counter Response and PE 0604270N, E3063 AEA Follow On.

Total Cost 7 024 17 756 215 431 357 502 1 123 145 1 720 858								
17.750 7.750.000 7.720.000	Total Cost		7.024	17.756	215.431	357.502	1,123.145	

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.

R-1 SHOPPING LIST - Item No. 97

CLASSIFICATION:

EXHIBIT R4, Schedule	e Profile	9																							DATE	:	F	ebrua	ry 2	004	
APPROPRIATION/BUDGE RDT&E, N /	T ACTIV									GRAM 269N E				R AND	MAN C	E					PROJ E306			ER AN	D NAM	1E					
Fiscal Year		20	002			20	003			200	04			20	05			20	06			20	07			20	800			20	09
	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
Acquisition Milestones								MS	В	PDR			DR										мs с 							FR	
Development Phases					I	Pre	SDD										Syst	em De	evelopr	ment &	Demo	nstrati	on								
EA-1 and 2 Full System Delivery																		E	A-1	EA-2											
Test & Evaluation Milestones																															
Development Test									Ae	eromed	hanica	al/LAB	/M&S				ı	ı	Develo	pment	t Test/	Comb	ined [OT/OT				l			
Operational Test																ı	EOA	\triangle			OA	\triangle		от-с	ı 🛆			OPI	VAL		
Production Milestones																	_														
SDD FY 06																	/\s	DD	г^_	AEA E	CP Av	vard			П						
LRIPI FY 07																					\triangle	LRIP	1	l I		I	1			l I	
LRPII FY 08 FRP FY 09																									LF	PII				FRP A	C FRP A
Deliveries																								SDD(4	↓ Deli	veries		LRIP I		liveries	

^{*} Not required for Budget Activities 1, 2, 3, and 6

CLASSIFICATION:

	ELEMENT A-18 SQUADRO			PROJECT NU		ebruary 200	<u> </u>
0604269N E					IMBER AND N	AME	
		NS		E3063 EA-18			
	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
·SDD)	1Q-4Q	1Q					
		1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-3Q
		1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-2Q	
		1Q					
		2Q					
		4Q					
		·		1Q-4Q	1Q-4Q	1Q-2Q	
				2Q			
				3Q			
				3Q			
				4Q			
					1Q-4Q	1Q-4Q	1Q-4Q
					2Q		
					3Q		
						1Q	
						1Q	
						1Q-2Q	
						4Q	1Q-2Q
							1Q
							1Q-4Q
							3Q
							3Q
							4Q
			1Q-4Q 1Q 2Q	1Q-4Q 1Q-4Q 1Q 2Q	1Q-4Q	1Q-4Q 2Q 2Q	1Q-4Q 1Q-4Q 1Q-4Q 1Q-4Q 1Q-2Q 1Q-4Q

R-1 SHOPPING LIST - Item No.

97