CLASSIFICATION: UNCLASSIFIED

EXHIBIT R-2, RDT&E Budget Item Justification						DATE:	
						Februa	ry 2004
APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMEN	CLATURE		
RESEARCH DEVELOPMENT TEST & EVALUATION, NA	AVY / BA-7			0207163N AMRAA	M		
COST (\$ in Millions)	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Total PE Cost	7.650	8.973	9.085	3.556	6.602	2.475	1.498
E0981 AMRAAM	7.650	8.973	9.085	3.556	6.602	2.475	1.498
	•	•					

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

This joint Navy/Air Force program is structured in response to the Joint Service Operational Requirement and Mission Element Need Statement to develop an air superiority air-to-air missile with significant improvements in operational utility and combat effectiveness. This program supports the integration of the AMRAAM into Navy aircraft with analysis of Navy unique applications, simulation capability development, aircraft missile integration tasks, pre-planned product improvement (P3I) efforts, and procurement of hardware to support Navy test and evaluation tasks.

R-1 SHOPPING LIST - Item No. 186

UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED

EXHIBIT R-2a, RDT&E Project Justification	on						DATE:	
							Februa	ry 2004
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEM	ENT NUMBER AND	O NAME		PROJECT NUMBE	R AND NAME		-
RDT&E, N / BA-7	0207163N AME	RAAM			E0981 AMRAAM			
COST (\$ in Millions)		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Project Cost		7.650	8.973	9.085	3.556	6.602	2.475	1.49
RDT&E Articles Qty								

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

This joint Navy/Air Force program is structured in response to the Joint Service Operational Requirement and Mission Element Need Statement to develop an air superiority air-to-air missile with significant improvements in operational utility and combat effectiveness. This program supports the integration of the AMRAAM into Navy aircraft with analysis of Navy unique applications, simulation capability development aircraft missile integration tasks, pre-planned product improvement (P3I) efforts, and procurement of hardware to support Navy test and evaluation tasks.

R-1 SHOPPING LIST - Item No.

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UNCLASSIFIED

CLASSIFICATION:

	ation		DATE: February 2004	
PROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND	-	
DT&E, N / BA-7	0207163N AMRAAM	E0981 AMRAAM		
B. Accomplishments/Planned Program				
	FY 03	FY 04	FY 05	
Accomplishments/Effort/Subtotal Cost	5.020	6.350	5.203	
RDT&E Articles Quantity	0.020	0.000	0.200	
		sta and aircraft intagration/campatibil	lity roquiromonto Efforto in conc	DUADLE WILL USA
integration activities in AMRAAM P3I program funding of \$39.334 in FY03, \$32.154 in FY04		nts and aircraft integration/compatibil	ity requirements. Efforts in cons	oriance with con-
		nts and aircraft integration/compatibil	ity requirements. Efforts in cons	mande with eg/t
funding of \$39.334 in FY03, \$32.154 in FY04 Accomplishments/Effort/Subtotal Cost	, and \$33.266 in FY05.			Shance with 66%
funding of \$39.334 in FY03, \$32.154 in FY04 Accomplishments/Effort/Subtotal Cost RDT&E Articles Quantity	, and \$33.266 in FY05.	FY 04 2.273	FY 05 2.332	
funding of \$39.334 in FY03, \$32.154 in FY04 Accomplishments/Effort/Subtotal Cost RDT&E Articles Quantity	, and \$33.266 in FY05. FY 03 2.331	FY 04 2.273	FY 05 2.332	

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CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification				DATE:	
				February 20)04
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME		PROJECT NUMBER AND	NAME	
RDT&E, N / BA-7	0207163N AMRAAM		E0981 AMRAAM		
C. PROGRAM CHANGE SUMMARY:					
Funding:	FY 2003	FY 2004	FY 2005		
Previous President's Budget:	7.928	9.297	7.972		
Current BES/President's Budget	7.650	8.973	9.085		
Total Adjustments	-0.278	-0.324	1.113		
Summary of Adjustments					
Congressional program reductions					
Congressional undistributed reductions		-0.104			
Congressional rescissions					
SBIR/STTR Transfer	-0.185				
OSD					
Reprioritization		-0.220	1.135		
Economic Assumtions			-0.022		
Reprogrammings	-0.093				
Congressional increases					
Subtotal	-0.278	-0.324	1.113		

Schedule:

Phase 3: The P3I Phase 3 EMD program was re-baselined in April 2003 to reduce flight test execution risk and to establish a high confidence overall program execution schedule (all with approved program baseline commitments). In consonance with this re-baselined EMD completion the F/A-18 IOC also had to be adjusted to coincide with execution of the re-baselined DT and OT completion schedules. CNO concurred with the new IOC date.

Phase 4: Prior to awarding the Phase 4 P3I SDD contract (in January 2004) testing schedules were adjusted jointly by Air Force and Navy to reflect a higher confidence of successful program execution. This was done in collaboration with CNO, USAF ACC/Commander Operational Test and Evaluation Force, and USAF/AFOTEC.

Technical:

Not Applicable.

CLASSIFICATION: UNCLASSIFIED

									Febru	ary 2004
PPROPRIATION/BUDGE	T ACTIVITY	PROGRAM E	LEMENT NUM	BER AND NAN	ΛE	PROJECT NU	MBER AND N	AME		
DT&E, N /	BA-7	0207163N	AMRAAM			E0981 AMF	RAAM			
(U) D. OTHER PRO	OGRAM FUNDING SUMMARY:									
		E) / 0000	51,000,1	E) / 000E	E) / 0000	E) / 000E	= 1,0000	5 1,0000	То	Total
Line Item No. & N	<u>lame</u>	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Cost
WPN/P1#6 \$		49.962	37.368	33.914	82.522	100.602	85.090	87.015	104.104	1,711.800
Quantity		76	42	46	101	150	140	150	122	2,419
Related RDT&I	=									
PE 0207130F										
PE 0204126N	F/A-18 Squadrons									
PE 0207163F	AMRAAM P3I									
PE 0207133F	F-16									
PE 0604239F	F-22									
PE 0207134F	F-15E									

With the December 1997 merger of Raytheon and Hughes into the Raytheon Systems Company, the government implemented a new acquisition strategy labeled AMRAAM Vision 2000. The Vision 2000 strategy capitalizes on a multi-year hardware pricing agreement between Raytheon and the government under the auspices of the Department of Justice which supported the Raytheon/Hughes merger and a shift in government business practices toward a more "commercial" business arrangement. The lot 16 procurement contract award again includes an overarching price control strategy with Total System Performance Responsibility (TSPR) with the prime contractor, Raytheon Defense Systems Segment in Tucson, Arizona. The purchase includes missiles, warranties, spares, missile performance tracking, and reliability tests. Raytheon assumes responsibility for all specifications below missile performance. Also included in the Lot 16 contract are pre-priced options for Lots 17 thru 21 (FY2003 thru FY2007).

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Exhibit R-2a, RDTEN Project Justification (Exhibit R-2a, page 5 of 9)

CLASSIFICATION:

								DATE:				
Exhibit R-3 Cost Analysis (pag	je 1)									February 20	04	
APPROPRIATION/BUDGET ACTIV		PROGRAM E	LEMENT			PROJECT NU	JMBER AND N	IAME		-		
RDT&E, N / BA-7		0207163N	AMRAAM			E0981 AMF	RAAM					
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
Primary Hardware Development	SS/CPAF	Raytheon, Tucson AZ	26.090	4.16	8 11/02	5.303	12/03	4.326	11/04	1.85	7 41.744	41.744
Primary Hardware Development	WX	NAWC-AD Patuxent River M	ID	0.02	0 11/02	0.020	11/03	0.021	11/04		0.061	
Primary Hardware Development	WX	NAWC-WD Pt Mugu CA		0.07	3 11/02	0.070	11/03	0.072	11/04		0.215	5
Primary Hardware Development	WX	NSWC Dahlgren VA		0.02	0 11/02	0.021	11/03	0.021	11/04		0.062	2
Award Fees	SS/CPAF	Raytheon, Tucson AZ	3.095	0.73	9 11/02	0.936	12/03	0.763	11/04	0.32	5.861	5.861
Prior Years Development/Acft Integ	Various	Various	19.650								19.650)
Subtotal Product Development			48.835	5.02	0	6.350		5.203		2.18	67.593	3
	1	IL.		3.02	- 1	2.000		1.200	1		27,000	1

Remarks: Percentage of award fees actually awarded in past award fee periods is 15%.

Development Support	SS/FFP	JHU/APL Laurel MD		0.284	01/03	0.384	01/04	0.390	01/05	0.600	1.658	1.658
Development Support	RX	NSMA VA		1.131	12/02	0.900	12/03	0.926	12/04	1.050	4.007	
Development Support	WX	NAWC-WD Pt Mugu CA	8.577	0.040	10/02	0.050	10/03	0.050	10/04		8.717	
Subtotal Support			8.577	1.455		1.334		1.366		1.650	14.382	

Remarks:

R-1 SHOPPING LIST - Item No. 186

LIST - ILEITING. 100

CLASSIFICATION:

									DATE:				
Exhibit R-3 Cost Analysis (pag	je 2)										February 200	04	
APPROPRIATION/BUDGET ACTIV	ITY		AM ELEME					JMBER AND	NAME				
RDT&E, N / BA-7	1.	0207163			1		E0981 AM	RAAM	_	1		•	
Cost Categories	Contract	Performing	Total		EV 00	FY 03	E) (0.4	FY 04	E)/ 05	FY 05	0	T-1-1	T()/-
	Method & Type	Activity & Location	PY s Cost		FY 03 Cost	Award Date	FY 04 Cost	Award Date	FY 05 Cost	Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	WX	NAWC WD Pt Mugu C		0.956			0.35		0.350		4.025		
Developmental Test & Evaluation	MIPR	Raytheon, Tucson AZ	, ,	0.000	0.13		0.00	1 1700	0.000	11,01	1.020	0.131	
Developmental Test & Evaluation	WX	NAWC WD Pt Mugu C	A						1.200	11/04	4.100		
		g								,		5.555	
Subtotal T&E				0.956	0.29	9	0.35)	1.550)	8.125	11.280	
Program Management Support	WX	NAWC-AD Patuxent R	iver M	2.188	0.67	6 10/02	0.68	10/03	0.703	10/04	1.377	5.624	
Travel	MIPR	PMA-259 Eglin AFB Fl		0.950			0.25		0.263		0.794		
Subtotal Management				3.138	0.87	6	0.93	9	0.966	5	2.171	8.090	
Remarks:													
Total Cost				61.506	7.65	0	8.97	3	9.085	5	14.131	101.345	
Remarks:													

CLASSIFICATION:

EXHIBIT R4, Schedule																									DATE		F	ebrua	ary 20	04		
APPROPRIATION/BUDGE RDT&E, N /	F ACTIV BA-7				_				PRO0 02071				UMBE	R AND	NAMI						PROJ E0981		NUMBE MRAAM		D NAM	1E						
Fiscal Year		2	002			20	03			20	04			200	05			200	06			20	07			20	80			200	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	4
Pre-Planned Product Improvement (P3I) Phase 3																																
EMD Completion										<u> </u>																						
Test Readiness Reviews							,		A	Δ																						
Development Test Flight Test	Start (Captive	e Flight		A	Launc	hes		A	\triangle																						
IOC C7																				T LAWS												
Pre-Planned Product Improvement (P3I) Phase 4										A				.,,					-			^										
SDD SYSTEM DT/OT Start									Start						Captive	e	Free F	\ light			OT Sta	Compl		OT Co	mplete		ollow-d	n				
IOC															Di		Di				(E/F)	וו		(6/7)		B E/F		^ '	/ F/A18	C/D		
Phase 4 SWUP																				Start								C	omplete)		<u> </u>
Production Milestones																																
Contract awards			Lot 16				Lot 17			Lot 18					Lot 19				Lot 20				Lot 21				Lot 22				Lot 23	
Deliveries	24	55	12	8	16	16	23	0	2	19	24	16	18	18	20	17	9	10	12	11	12	12	12	17	27	25	24	28	36	37	39	38

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE:		
							February 200)4
APPROPRIATION/BUDGET ACTIVITY	PROGRAM EL	EMENT			PROJECT NUM	BER AND NAM	1E	
RDT&BA-7	0207163N A	MRAAM			E0981 AMR/	AAM		
Schedule Profile	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
EMD Completion Phase 3			2nd Qtr					
First P3I Phase 3 Delivery			1st Qtr					
Test Readiness Reviews		1st,2nd,4th Qtr	1st,2nd Qtr					
DevelopmentTest/Flight Test	3rd Qtr	1st,2nd,4th Qtr	1st ,2nd Qtr					
F/A-18 IOC of AIM120C7				2nd Qtr				
F-22 IOC of AIM120C7					1st Qtr			
CLAWS IOC of AIM120C7					3rd Qtr			
SDD Start Phase 4			2nd Qtr					
SDD Completion Phase 4						2nd Qtr		
Phase 4 SWUP Start					4th Qtr			
Phase 4 SWUP Complete							4th Qtr	
System DT (Captive) Start				3rd Qtr				
System DT (Free flight) Start					1st Qtr			
System OT (F/A-18 E/F) Start						1st Qtr		
System OT (F/A-18 E/F) Complete						4th Qtr		
IÓC F/A18 E/F							1st Qtr	
IOC F/A18 C/D								1st Qtr
P3I Follow-on Efforts						2nd-4th Qtr	1st-4th Qtr	1st-4th Qtr
Production Lot 16 Contract Award	3rd Qtr							
Production Lot 17 Contract Award		2nd Qtr						
Production Lot 18 Contract Award			2nd Qtr					
Production Lot 19 Contract Award				2nd Qtr				
Production Lot 20 Contract Award					2nd Qtr			
Production Lot 21 Contract Award						2nd Qtr		
Production Lot 22 Contract Award							2nd Qtr	
Production Lot 23 Contract Award								2nd Qtr
					1			