	RDT	T&E BUDGET ITEM .	JUSTI	IFICATION SHEET (R-2 Exhibit)							DATE February 2003				
	GET ACTIVITY Operational S	System Development				UMBER AND 7163F		ed Mediu	ım Rang	e Air-to-	Air Miss	PROJECT ile 3777			
	COST (\$ in Thousands) FY 2002 Actual				FY 2004 te Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost			
3777	77 AMRAAM			35,537	32,429	33,353	35,251	36,205	36,726	37,218	0	753,983			
	Quantity of RDT&E Articles 0			0	0	0	0	0	0	0	0	(
	The Air Force and Navy developed the baseline Advanced Medium Range Air-to-Air Missile (AMRAAM) as a high performance, all weather missile to counter air vehicle threats operating at high or low altitude and having advanced Electronic Protection (EP) capabilities. The AMRAAM Pre-Planned Product Improvem (P3I) program provides for a continuing, Joint Air Force/Navy research and development program which enables AMRAAM to: (1) be compatible with advance fighters, (2) enhance AMRAAM capability and operational flexibility against mid-1990's and beyond threats, (3) incorporate high payoff technology developmen (4) investigate variants and/or alternate missions which may use many baseline missile attributes. Currently, improvements under the P3I program include enhancement and electronic attack (EA) capabilities; improved weapon effectiveness through improved warhead, fuzing, and guidance; and increased kinematics. AMRAAM in the Energy Parameters of the Air Force Parameters									mprovement n advanced velopments, and nde enhanced EF					
(U) (U) (U)	joint Air Force/Navy, Acquisition Category (ACAT) IC program with Air Force as lead service. FY 2002 (\$ in Thousands) \$0										award the Phase				
(U) (U) (U)	\$893 \$1,415 \$53,529	Continue mission support: Provide program management to execute Phase 3 program Continue test and evaluation: Provide Test Wing support to DOT&E testing													
(U) (U) (U) (U) (U)															

Exhibit R-2 (PE 0207163F)

Project 3777

	RDT&E BU	JDGET ITEM JUSTIFIC	ATION SHEET (R-2 Exhi	bit)	DATE Febru	ary 2003
	GET ACTIVITY Operational System	Development	PE NUMBER AND TITLE 0207163F Advance	d Medium Ra	nge Air-to-Air Mi	PROJECT ssile 3777
(U)	A. Mission Description Con	tinued				
(U) (U) (U)	FY 2003 (\$ in Thousands) Co \$248 Contin \$35,537 Total	ontinued nue test and evaluation: Provide Tes	t Wing support to DOT&E testing			
(U) (U) (U) (U) (U) (U) (U)	\$4,500 P3I Pt \$26,178 Condu \$1,231 Contin		t preliminary design review of guidance m management to execute Phase 3 progra		ovements	
(U)	B. Budget Activity Justifica This program is in budget act		opment, providing upgrades to the AIM-1	20C missile current	tly in production.	
(U)	C. Program Change Summ	ary (\$ in Thousands)				
(U) (U) (U)	Previous President's Budget Appropriated Value Adjustments to Appropriated	Value	<u>FY 2002</u> 57,125 57,702	<u>FY 2003</u> 37,008 37,008	<u>FY 2004</u> 33,024	<u>Total Cost</u> 693,833
(0)	 a. Congressional/General Re b. Small Business Innovative c. Omnibus or Other Above d. Below Threshold Reprogr. 	ductions Research Fhreshold Reprogram	-1,315 -1,861 -997	-391 -1,080		
(U) (U)	e. Rescissions Adjustments to Budget Years Current Budget Submit/FY 2	s Since FY 2003 PBR	53,529	35,537	-595 32,429	753,983
(U)	Significant Program Change	<u>u</u>				
l P	roject 3777		Page 2 of 5 Pages		Exhibit R-2	2 (PE 0207163F)

	RDT&E BU	DATE February 2003											
BLID	GET ACTIVITY			71111071		NUMBER ANI		,		PROJECT			
	07 - Operational System Development					0207163F Advanced Medium Range						-	
	D. Other Program Funding S		in Thousand FY 2003	<u>ls)</u> FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost to	<u>Total</u>	Cost	
(U)	Missile Procurement, Budget Activity #2, PE 0207163F,	<u>Actual</u> 100,222	<u>Estimate</u> 87,924	<u>Estimate</u> 105,246	<u>Estimate</u> 107,734	Estimate 105,061	<u>Estimate</u> 102,207	Estimate 103,505	Estimate 105,926	Complete	e 6,948	3,708	
(U)	P-1 Line Item, AMRAAM Replenishment Spares, BP25 and Missile Replacement Equipment	1,253	240	188	270	193	193	195	200		61	,443	
(U)	Initial Spares, BP26	6	89	72	72	72	72	72	74	0	63	3,332	
(U)	Seek Eagle	0	0	0	0	0	0	0	0	0	15	5,132	
	The AMRAAM Pre-Planned Pruser requirements. The Phase 1 Phase 2 AIM-120 C4 missile adfirst Phase 2 AIM-120 C4 missimajor upgrade to the seeker har contract was awarded in Oct FY kinematics.	missile allo lds a new wa lle was delive dware and so	ws internal carhead which ered in Aug confitware to me	arriage on the increases let of FY99. The eet performan	e F-22 and JS hality and the e Phase 2 AII nce requirement	SF with clipp e AIM-120 C M-120 C5 m ents for the F	ped wings and 25 missile has issiles started FY04 and out	fins as well a +5 inch ro delivery in J time-period.	as providing ocket motor: Jul of FY00. The Phase	g some software for kinematic im . The Phase 3 m 3 Cost Plus Aw	enhancements. Inprovements. The hissile is the first ward Fee EMD	The ne	
(U)	F. Schedule Profile												
					•	FY 2002		<u>FY 2</u>			FY 2004		
(U)	P3I Phase 3 Seeker Critical Des	•	(CDR)		1 2	2 3	4 1	2	3 4		2 3	4	
(U)	P3I Phase 3 ACE Flights Comp P3I Phase 3 Test Readiness Rev						*		2	X			
(U) (U)	P3I Phase 3 Functional Config	, ,	it (FCA)				·		•	X			
(U)	P3I Phase 3 Program Complete		it (1 C/1)							X			
(U)	P3I Phase 3 Software Upgrade								X	•			
` ′	P3I Phase 3 Follow On Contrac										X		
Р	roject 3777				Page 3 of	f 5 Pages				Exhibit R-	2 (PE 0207163	BF)	

	RDT&E PROG	DATE F (DATE February 2003								
	GET ACTIVITY Operational System I	Developme	nt			ER AND TITLE 63F Advan	nced Medi	um Range	Air-to-Ai	r Missile	PROJECT 3777
(U)	A. Project Cost Breakdown	(\$ in Thousan	ds)								
							FY 2		FY 20	FY 2004	
(U)	a. Phase 3 EMD Improved Se		nced EP Upda	tes			51,	221	34,23		
(U)	b. Phase 3 Software Upgrade								50	0	4,500
(U)	c. Phase 3 Follow on Improv	ed Guidance an	d Kinematics								26,178
(U)	c. Gov Mission Support							893	55		1,231
(U)	d. Gov Test & Evaluation							415	24		520
(U)	Total						53,	529	35,53	37	32,429
(U)	B. Budget Acquisition Histor	ry and Plannin	g Informatio	n (\$ in Thousand	<u>ls)</u>						
(U)	Performing Organizations:										
	Contractor or	Contract									
	Government	Method/Type	Award or	<u>Performing</u>	Project						
	Performing	or Funding	Obligation	<u>Activity</u>	<u>Office</u>	Total Prior	Budget	Budget	Budget	Budget to	<u>Total</u>
	Activity	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>	to FY 2002	FY 2002	FY 2003	FY 2004	Complete	<u>Program</u>
	Product Development Organiz										
	Misc. Contracts	SS/FFP	Annual	N/A	N/A	10,636	2,135	1,666	1,414	7,070	22,921
	E	SS/FFP	Aug 90	5,200	5,200	5,200	0			0	5,200
	C	SS/CPIF	Mar 91	93,506	93,506	93,506	0			0	93,506
	F08626-93-C-0044 (Phase 2)	SS/CPAF	Jun 94	117,558	117,558	117,558	0			0	117,558
	Hughes										
	Phase 3 Risk Reduction	SS/CPAF	Oct 94	24,484	24,484	24,484	0			0	24,484
	Phase 3 Improved Fuzing Capability	SS/CPAF	Oct 98	3,937	3,937	3,937	0			0	3,937
	Phase 3 Improved Seeker and Advanced EP. Raytheon F08626-98-C-0027	ISS/CPAF	Oct 98	200,121	200,121	118,471	49,086	32,564		0	200,121
	Phase 3 Software Upgrade	SS/CPAF	Jun 03	TBD	TBD	0	0	500	4,500	5,000	10,000
	Phase 3 EMD Follow on Contract	SS/CPAF	Oct 03	TBD	TBD	0	0	0	24,764	159,966	184,730
P	roject 3777			Pag	e 4 of 5 Pag	ges			Exhib	it R-3 (PE 0	207163F)

	RDT&E PR	ROGRAM ELE	MENT/F	PROJECT C	OST BF	REAKDO	DATE February 2003				
	GET ACTIVITY		,		=	ER AND TITLE			PROJECT		
07 -	Operational Syst	em Developme	nt		020716	3F Advar	iced Medii	um Range	Air-to-Ai	r Missile	3777
(U)	Performing Organizat *Note: Hughes became Support and Manageme COEA Contractor Support	part of Raytheon Sys	items effectiv Jan 94 Annual	re Dec 97 N/A N/A	N/A N/A	3,358 18,333	447	0	611	0 3,487	3,358 22,878
	JSPO Operations	PR/IMPAC	Annual	N/A	N/A	19,097	446	559	620	3,130	23,852
	Test and Evaluation Org										
	Government Test	REO/MIPR	Annual	N/A	N/A	36,775	1,415	248	520	100	39,058
(U)	Government Furnished	Contract Method/Type	Award or								
	Item Description Product Development P Not Applicable Support and Manageme Not Applicable Test and Evaluation Pro	nt Property	Obligation Date	<u>Delivery</u> <u>Date</u>		Total Prior to FY 2002	Budget FY 2002	Budget FY 2003	Budget FY 2004	Budget to Complete	<u>Total</u> <u>Program</u>
	TM/ECM Pods Subtotals Subtotal Product Develor Subtotal Support and M Subtotal Test and Evalu Total Project	REO/MIPR opment anagement	Annual			2,380 <u>Total Prior</u> to FY 2002 373,792 40,788 39,155 453,735	Budget FY 2002 51,221 893 1,415 53,529	Budget FY 2003 34,730 559 248 35,537	Budget FY 2004 30,678 1,231 520 32,429	0 <u>Budget to</u> <u>Complete</u> 172,036 6,617 100 178,753	2,380 <u>Total</u> <u>Program</u> 662,457 50,088 41,438 753,983
Р	roject 3777			Pa	ge 5 of 5 Pag	es			Exhib	it R-3 (PE 0	207163F)