	RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)									June 2001			
BUDGET ACTIVITY 07 - Operational System Development			PE NUMBER AND TITLE 0207590F Seek Eagle										
	COST (\$ in Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost		
4037	SEEK EAGLE Certifications	22,093	19,294	17,833	17,273	21,403	24,091	22,279	19,417	Continuing	TBD		
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	0		

This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

(U) A. Mission Description

The Air Force has a variety of combat aircraft and numerous stores (munitions, missiles, fuel tanks, electronic countermeasures pods, etc.). Aircraft carry these stores in countless different loading combinations determined by operational scenarios, missions, and tactics. Loading configurations change as operational plans and tactics change, and as new aircraft and stores are developed and produced. Before operational use, the Air Force must certify these configurations for safe loading, carriage, and separation (jettison and normal release), and must verify ballistics accuracy under the user-certified carriage and employment parameters. The Air Force SEEK EAGLE program completes these certifications through any combination of ground and flight testing, wind tunnel testing, modeling and simulation, and engineering analysis. Over 700 aircraft-store combinations exist to be certified, with new ones added on a regular basis. Depending upon the complexity, certification takes from months to years. The SEEK EAGLE program is also responsible for insertion of new and emerging technologies into the SEEK EAGLE process and providing resources for sustainment of a viable Air Force aircraft-store certification capability. Electronic Technical Orders are developed through the Combat Weapons Delivery Software (CWDS), creating cost savings by eliminating paper technical orders. SEEK EAGLE funds are currently budgeted to support certification for new weapons programs including Wind Corrected Munitions Dispenser (WCMD), Joint Direct Attack Munition (JDAM), Joint Air to Surface Standoff Missile (JASSM), Joint Standoff Weapon (JSOW), AIM-9X, AIM-120 C5 (AMRAAM), and many other inventory stores on inventory aircraft. Planning and budgeting estimations are in progress for future certifications of weapons on F-22 and the Joint Strike Fighter (JSF).

(U) <u>FY 2000 (\$ in Thousands)</u>

(II)	\$1,645	Continue development of F-22 data and engineering models to use for follow-on F-22 weapons certification

- (U) \$2,835 Conduct various automation projects and automated Technical Orders/mission planning projects using CWDS
- (U) \$2,124 Continue/complete various technology improvement projects and aircraft load/separation prediction capabilities using Applied Computational
 - Fluid Dynamics (ACFD)
- (U) \$15,489 Conduct various aircraft-store certifications on USAF fighter and bomber aircraft
- (U) \$22.093 Total

Note: The following net transaction is not reflected in the FY00 program total: BTR=-103K. This transaction is reflected in other sections of the R-Docs where an FY00 total is shown.

Project 4037 Page 1 of 6 Pages Exhibit R-2 (PE 0207590F)

	RDT&E BUDGET ITEM JUSTIFI	CATION SHEET (R-2 Exhib	oit)	DATE June	e 2001
BUDGET ACTIV D7 - Opera	AITY Ational System Development	PE NUMBER AND TITLE 0207590F Seek Eag	le	-	PROJECT 4037
U) A. Miss	sion Description Continued				
U) \$1,600 U) \$2,971 U) \$2,442 U) \$12,281 U) \$19,294 Note: T	Conduct various automation projects and Continue/complete various technology in Conduct various aircraft-store certification	•	ing projects using ation prediction ca	CWDS pabilities using ACFD	in other sections c
U) FY 200 U) \$1,655 U) \$3,108 U) \$2,551 U) \$10,519 U) \$17,833	Conduct various automation projects and Continue/complete various technology in Conduct various aircraft-store certification	engineering models to use for follow-on F-2 automated Technical Orders/mission plant approvement projects and aircraft load/separ ons on USAF fighter and bomber aircraft	ing projects using	CWDS	
	get Activity Justification T&E Budget Activity is 7, Operational Systems Develo	pment, because the program supports fielde	d systems.		
U) Previou U) Approp U) Adjustr a. Cong b. Smal c. Omn d. Belo e. Resc.	as President's Budget (FY 2001 PBR) riated Value ments to Appropriated Value gressional/General Reductions 1 Business Innovative Research ibus or Other Above Threshold Reprogram w Threshold Reprogram issions ments to Budget Years Since FY 2001 PBR	FY 2000 22,851 23,133 -156 -661 -133 -90	FY 2001 19,472 19,472 -136	<u>FY 2002</u> 17,799	<u>Total Co</u> TBI
Project 40	-	Page 2 of 6 Pages			(PE 0207590F)

	RDT&E BU	DGET IT	TEM JUS	STIFICA	TION SH	IEET (R	-2 Exhib	it)		June 2	2001
	GET ACTIVITY Operational System D	evelopme	ent			NUMBER AND 07590F		e	•		PROJECT 4037
(U)	C. Program Change Summa	ry (\$ in Tho	usands) Con	<u>tinued</u>		Т	V 2000	EV 2001	EX	v 2002	Tatal Cast
(U)	Current Budget Submit/FY 20	02 PBR				_	<u>Y 2000</u> 22,093	<u>FY 2001</u> 19,294		<u>Y 2002</u> 17,833	<u>Total Cost</u> TBD
(U)	Significant Program Changes: NONE										
(U)	D. Other Program Funding S										
		FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to	<u>Total Cost</u>
(U) (U) (U)	AF RDT&E Other APPN Proc of Ammunition, AF*	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U)	- P-1 Line JDAM	0	0	147	302	145	0	0	105	Continuing	970
(U)	- P-1 Line WCMD Missile Procurement, AF*	0	0	0	0	135	0	0	97 0	Continuing	4,146
(U) (U)	- P-1 Line JSOW	1,150	0	1,032	0	1,010	0	1,013	0	Continuing	22,763
(U)	- P-1 Line AIM-120 C5 (AMRAAM)	0	607	0	0	0	0	0	0	Continuing	15,137
(U)	- P-1 Line AIM-9X, (Sidewinder)	0	2,892	5,378	1,760	0	0	0	0	Continuing	TBD
(U)	- P-1 Line JASSM * Note: The SEEK EAGLE pro	0 ocurement do	0 ollars shown	744 above are ap	3,754 propriated in	1,501 each weapor	3,003 a's P-1 line.	0	2,998	Continuing	12,000
, ,	E. Acquisition Strategy Budget authorization for procur weapon production contract.	rement funds	are given dir	ectly to the v	veapon syste	m program o	ffices, who th	nen procure tl	ne required c	ertification test arti	icles through the
(U)	F. Schedule Profile					FY 2000		FY 20	<u>001</u>	FY	2002
Р	roject 4037				Page 3 of	f 6 Pages				Exhibit R-2 (F	PE 0207590F)

	RDT&E BUDGET ITEM JUSTIA	FICATION	SHE	ET (R	-2 Ex	hibit))		DAT		June 2	001	
BUDGET / 07 - O p	ACTIVITY Derational System Development			MBER AN 590F		Eagle						PRO- 403	JECT 37
(U) <u>F. S</u>	Schedule Profile Continued												
			<u>FY</u>	2000	_		<u>FY 2</u>	<u>2001</u>			<u>FY 2</u>	<u>2002</u>	
l		1	2	3	4	1	2	3	4	1	2	3	4
(U) JDA	AM									X	X	X	X
(U) AIN	M-120 C5 (AMRAAM)					*	*	*	X				
(U) AIN	M-9X (Sidewinder)					*	*	*	X	X	X	X	X
(U) JSC	OW	*	*	*	*					X	X	X	X
(U) JAS	SSM									X	X	X	X

Note: The SEEK EAGLE program does not execute in accordance with established acquisition program milestones. Each aircraft-store configuration requested by the user goes through the SEEK EAGLE process by the designated user priority.

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^{* =} Completed Event

X = Planned hardware buy in support of upcoming certification activities.

	RDT&E PRO	OGRAM ELE	MENT/P	ROJECT C	OST BI	REAKDO	WN (R-3))	DATE	June 200)1
	GET ACTIVITY Operational System	m Developme	nt			er and title 90F Seek I	Eagle				PROJECT 4037
(U)	A. Project Cost Breakdo	own (\$ in Thousand	<u>ls</u>)								
							<u>FY 2</u>		FY 20		FY 2002
(U)	Process Sustainment							124	2,4		2,551
(U)	F-22 Data & Engineering	Models						645	1,6		1,655
(U)	Engineering Analysis							000	4,2		4,400
(U)	Flight Testing							236	6,5		4,194
(U)	Wind Tunnel Testing							428		00	1,000
(U)	Other						2,	835	2,9	71	3,108
(U)	- Ballistic/ Safe Es										
(U)	- Tech Order/P.C.	110									
(U)	- Loading Process	Development/Verif	ication								
(U)	Mission Support							825		75	925
(U)	Total						22,	093	19,2	94	17,833
(U)	B. Budget Acquisition H	istory and Plannin	g Information	(\$ in Thousand	<u>ls</u>)						
(U)	Performing Organization	ns:									
	Contractor or	Contract									
	Government	Method/Type	Award or	Performing	Project						
	Performing	or Funding	Obligation	Activity	Office Property of the Indiana.	Total Prior	Budget	Budget	<u>Budget</u>	Budget to	<u>Total</u>
	Activity	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>	to FY 2000	FY 2000	FY 2001	FY 2002	Complete	<u>Program</u>
	Product Development Org	anizations									
	Lockheed Martin	C/CPFF	Jul 98	15,648	15,648	1,900	1,645	1,600	1,655	8,848	
	Leigh Aerosystems	FFP	Jan 00	943	943	943	0	0	0	0	943
	Support and Management										
	Mission Support	PO/REO	Continuous	N/A	N/A	9,067	825	875	925	Continuing	TBD
	Test and Evaluation Organ										
	46th Test Wing	PO/REO	Continuous	N/A	N/A	89,777	8,510	9,158	8,404	Continuing	
	AEDC	PO/REO	Continuous	N/A	N/A	13,738	2,428	700	1,000	Continuing	
	Various	PO/REO	Continuous	N/A	N/A	38,392	8,685	6,961	5,849	Continuing	TBD
Р	roject 4037			Pac	ge 5 of 6 Pag	pes			Fyhil	oit R-3 (PE ()207590F)

RDT&E PROGRAM ELEMENT/PR	DATE	DATE June 2001						
BUDGET ACTIVITY 07 - Operational System Development	PE NUMBER AND TITLE 0207590F Seek E	PE NUMBER AND TITLE 0207590F Seek Eagle						
Subtotals Subtotal Product Development Subtotal Support and Management Subtotal Test and Evaluation Total Project		Budget FY 2000 1,645 825 19,623 22,093	Budget FY 2001 1,600 875 16,819 19,294	Budget FY 2002 1,655 925 15,253 17,833		PROJECT 4037 Total Program 16,591 TBD TBD TBD		
Project 4037	Page 6 of 6 Pages			Exhib	it R-3 (PE 02	207590F)		