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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)								DATE February 2000		
BUDGET ACTIVITY 07 - Operational System Development				PE NUMBER AND TITLE 0207590F Seek Eagle				PROJECT 674037		
COST (\$ in Thousands)		FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
674037	SEEK EAGLE Certifications	17,680	22,851	19,472	17,799	17,013	18,946	18,556	Continuing	TBD
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0
<p>(U) <u>A. Mission Description</u> 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 F-22, Joint Strike Fighter (JSF), Sensor Fuzed Weapon (SFW), 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.</p> <p>(U) <u>FY 1999 (\$ in Thousands)</u></p> <p>(U) \$1,300 Continued development of F-22 data and engineering models to use for follow-on F-22 weapons certification</p> <p>(U) \$2,400 Initiated/continued/completed various automation projects and automated Technical Orders/mission planning projects using CWDS</p> <p>(U) \$2,150 Continued/completed various technology improvement projects and aircraft load/separation prediction capabilities using Applied Computational Fluid Dynamics (ACFD)</p> <p>(U) \$10,404 Initiated/continued/completed various aircraft-store certifications on USAF fighter and bomber aircraft</p> <p>(U) \$1,426 Munitions Effectiveness Evaluation of extended range CBU-87 using strap-on wing kit (LongShot)</p> <p>(U) \$17,680 Total</p>										
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(U)	<u>A. Mission Description Continued</u>				
(U)	<u>FY 2000 (\$ in Thousands)</u>				
(U)	\$1,800	Continue development of F-22 data and engineering models to use for follow-on F-22 weapons certification			
(U)	\$2,450	Initiate/continue/complete various automation projects and automated Technical Orders/mission planning projects using CWDS			
(U)	\$2,400	Continue/complete various technology improvement projects and aircraft load/separation prediction capabilities using ACFD			
(U)	\$16,201	Initiate/continue/complete various aircraft-store certifications on USAF fighter and bomber aircraft			
(U)	\$22,851	Total			
(U)	<u>FY 2001 (\$ in Thousands)</u>				
(U)	\$3,100	Continue development of F-22 data and engineering models to use for follow-on F-22 weapons certification			
(U)	\$2,550	Initiate/continue/complete various automation projects and automated Technical Orders/mission planning projects using CWDS			
(U)	\$2,500	Continue/complete various technology improvement projects and aircraft load/separation prediction capabilities using ACFD			
(U)	\$11,322	Initiate/continue/complete various aircraft-store certifications on USAF fighter and bomber aircraft			
(U)	\$19,472	Total			
(U)	<u>B. Budget Activity Justification</u>				
	The RDT&E Budget Activity is 7, Operational Systems Development, because the program supports fielded systems.				
(U)	<u>C. Program Change Summary (\$ in Thousands)</u>				
		<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Total Cost</u>
(U)	Previous President's Budget (FY 2000 PBR)	18,767	23,133	19,645	TBD
(U)	Appropriated Value	19,090	23,133		
(U)	Adjustments to Appropriated Value				
	a. Congressional/General Reductions	-269	-12		
	b. Small Business Innovative Research	-495			
	c. Omnibus or Other Above Threshold Reprogram		-126		
	d. Below Threshold Reprogram	-493			
	e. Rescissions	-153	-144		
	f. Other				TBD
(U)	Adjustments to Budget Years Since FY 2000 PBR			-173	
(U)	Current Budget Submit/FY 2001 PBR	17,680	22,851	19,472	TBD
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(U) C. Program Change Summary (\$ in Thousands) Continued									
(U) Significant Program Changes:									
FY99: \$1,500 Congressional plus-up for Longshot testing.									
Note: Of the \$493 BTR amount in FY 1999 above, \$158 paid canceled year bills									
(U) D. Other Program Funding Summary (\$ in Thousands)									
	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U) AF RDT&E									
(U) Other APPN									
(U) Proc of Ammunition, AF*									
(U) - P-1 Line JDAM	0	0	0	146	0	144	0	0	290
(U) - P-1 Line WCMD	0	0	0	0	0	134	0	0	4,146
(U) Missile Procurement, AF*									
(U) - P-1 Line JSOW	9,511	1,150	0	1,023	1,175	1,269	1,267	Continuing	TBD
(U) - P-1 Line AIM-120 C5 (AMRAAM)	0	0	612	0	0	0	0	0	15,137
(U) - P-1 Line AIM-9X, (Sidewinder)	0	0	2,918	5,331	1,944	0	4,266	Continuing	TBD
(U) - P-1 Line JASSM	0	0	0	744	2,896	3,607	2,882	Continuing	TBD
* Note: The SEEK EAGLE procurement dollars shown above are appropriated in each weapon's P-1 line.									
(U) E. Acquisition Strategy									
Budget authorization for procurement funds are given directly to the weapon system program offices, who then procure the required certification test articles through the weapon production contract.									
(U) F. Schedule Profile									
	<u>FY 1999</u>			<u>FY 2000</u>			<u>FY 2001</u>		

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(U) **F. Schedule Profile Continued**

	<u>FY 1999</u>				<u>FY 2000</u>				<u>FY 2001</u>			
	1	2	3	4	1	2	3	4	1	2	3	4
(U) AIM-120 C5 (AMRAAM)									X	X	X	X
(U) AIM-9X (Sidewinder)									X	X	X	X
(U) JSOW	*	*	*	*	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.

* = Completed Event

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

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 2000			
BUDGET ACTIVITY 07 - Operational System Development					PE NUMBER AND TITLE 0207590F Seek Eagle			PROJECT 674037		
(U) A. Project Cost Breakdown (\$ in Thousands)										
						<u>FY 1999</u>		<u>FY 2000</u>		<u>FY 2001</u>
(U)	Process Sustainment					2,150		2,400		2,500
(U)	F-22 Data & Engineering Models					1,300		1,800		3,100
(U)	Engineering Analysis					3,600		4,000		4,250
(U)	Flight Testing					5,004		9,101		5,222
(U)	Extended Range JDAM Testing (Longshot)					1,426		0		0
(U)	Wind Tunnel Testing					1,000		2,200		900
(U)	Other					2,400		2,450		2,550
(U)	- Ballistic/ Safe Escape Analysis									
(U)	- Tech Order/P.C. Floppy Disk									
(U)	- Loading Process Development/Verification									
(U)	Mission Support					800		900		950
(U)	Total					17,680		22,851		19,472
(U) B. Budget Acquisition History and Planning Information (\$ in Thousands)										
(U) Performing Organizations:										
<u>Contractor or Government</u>	<u>Contract Method/Type</u>	<u>Award or Obligation Date</u>	<u>Performing Activity EAC</u>	<u>Project Office EAC</u>	<u>Total Prior to FY 1999</u>	<u>Budget FY 1999</u>	<u>Budget FY 2000</u>	<u>Budget FY 2001</u>	<u>Budget to Complete</u>	<u>Total Program</u>
<u>Product Development Organizations</u>										
Lockheed Martin	C/CPFF	Jul 98	15,648	15,648	600	1,300	1,800	3,100	8,848	15,648
Leigh Aerosystems	FFP	Jan 00	1,000	1,000	0	1,000	0	0	0	1,000
<u>Support and Management Organizations</u>										
Mission Support	PO/REO	Continuous	N/A	N/A	9,067	800	900	950	Continuing	TBD
<u>Test and Evaluation Organizations</u>										
46th Test Wing	PO/REO	Continuous	N/A	N/A	89,351	9,840	12,351	10,022	Continuing	TBD
AEDC	PO/REO	Continuous	N/A	N/A	13,738	1,000	2,200	900	Continuing	TBD
46th Test Wing	REO	Nov 99	426	426	0	426	0	0	0	426
Various	PO/REO	Continuous	N/A	N/A	38,392	3,314	5,600	4,500	Continuing	TBD
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BUDGET ACTIVITY		PE NUMBER AND TITLE			PROJECT	
07 - Operational System Development		0207590F Seek Eagle			674037	
		<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>
		<u>to FY 1999</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Complete</u>
						<u>Total</u>
<u>Subtotals</u>						<u>Program</u>
Subtotal Product Development		600	2,300	1,800	3,100	8,848
Subtotal Support and Management		9,067	800	900	950	TBD
Subtotal Test and Evaluation		141,481	14,580	20,151	15,422	TBD
Total Project		151,148	17,680	22,851	19,472	TBD