

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)

DATE

February 2003

BUDGET ACTIVITY

PE NUMBER AND TITLE

PROJECT

07 - Operational System Development

0207590F Seek Eagle

4037

COST (\$ in Thousands)	FY 2002 Actual	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost
4037 SEEK EAGLE Certifications	16,521	16,792	19,587	23,220	21,210	18,357	21,722	22,013	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	0

(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/A-22 and the Joint Strike Fighter (JSF).

(U) **FY 2002 (\$ in Thousands)**

(U) \$0	Accomplishments/Planned Program
(U) \$500	Continue development of F/A-22 data and engineering models to use for follow-on F/A-22 weapons certification
(U) \$2,963	Conduct various automation projects and automated Technical Orders/mission planning projects using CWDS
(U) \$2,559	Continue/complete various technology improvement projects and aircraft load/separation prediction capabilities using Applied Computational Fluid Dynamics (ACFD)
(U) \$10,499	Conduct various aircraft-store certifications on USAF fighter and bomber aircraft
(U) \$16,521	Total

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07 - Operational System Development**0207590F Seek Eagle****4037**(U) **A. Mission Description Continued**(U) **FY 2003 (\$ in Thousands)**

(U) \$0	Accomplishments/Planned Program
(U) \$500	Continue development of F/A-22 data and engineering models to use for follow-on F/A-22 weapons certification
(U) \$3,082	Conduct various automation projects and automated Technical Orders/mission planning projects using CWDS
(U) \$2,661	Continue/complete various technology improvement projects and aircraft load/separation prediction capabilities using ACFD
(U) \$10,549	Conduct various aircraft-store certifications on USAF fighter and bomber aircraft
(U) \$16,792	Total

(U) **FY 2004 (\$ in Thousands)**

(U) \$0	Accomplishments/Planned Program
(U) \$1,500	Continue development of F/A-22 data and engineering models to use for follow-on F/A-22 weapons certification
(U) \$3,205	Conduct various automation projects and automated Technical Orders/mission planning projects using CWDS
(U) \$2,768	Continue/complete various technology improvement projects and aircraft load/separation prediction capabilities using ACFD
(U) \$12,114	Conduct various aircraft-store certifications on USAF fighter and bomber aircraft
(U) \$19,587	Total

(U) **B. Budget Activity Justification**

The RDT&E Budget Activity is 7, Operational Systems Development, because the program supports fielded systems.

(U) **C. Program Change Summary (\$ in Thousands)**

	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>Total Cost</u>
(U) Previous President's Budget	17,654	16,792	20,965	TBD
(U) Appropriated Value	17,833	16,972		
(U) Adjustments to Appropriated Value				
a. Congressional/General Reductions	-179	-180		
b. Small Business Innovative Research	-575			
c. Omnibus or Other Above Threshold Reprogram				
d. Below Threshold Reprogram	-477			
e. Rescissions	-81			
(U) Adjustments to Budget Years Since FY 2003 PBR			-1,378	

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BUDGET ACTIVITY

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PROJECT

07 - Operational System Development**0207590F Seek Eagle****4037**(U) **C. Program Change Summary (\$ in Thousands) Continued**

	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>Total Cost</u>
(U) Current Budget Submit/FY 2004 PBR	16,521	16,792	19,587	TBD

(U) **Significant Program Changes:**(U) **D. Other Program Funding Summary (\$ in Thousands)**

	<u>FY 2002</u> <u>Actual</u>	<u>FY 2003</u> <u>Estimate</u>	<u>FY 2004</u> <u>Estimate</u>	<u>FY 2005</u> <u>Estimate</u>	<u>FY 2006</u> <u>Estimate</u>	<u>FY 2007</u> <u>Estimate</u>	<u>FY 2008</u> <u>Estimate</u>	<u>FY 2009</u> <u>Estimate</u>	<u>Cost to</u> <u>Complete</u>	<u>Total Cost</u>
(U) AF RDT&E										
(U) Other APPN										
(U) Proc of Ammunition, AF*										
(U) - P-1 Line JDAM	147	300	144	0	0	103	0	0	Continuing	965
(U) - P-1 Line WCMD	0	0	134	0	0	96	0	0	Continuing	4,144
(U) Missile Procurement, AF*										
(U) - P-1 Line JSOW	1,032	0	999	0	996	0	0	0	Continuing	22,735
(U) - P-1 Line AIM-120 C5	0	0	0	0	0	0	0	0	Continuing	15,137
(U) (AMRAAM)										
(U) - P-1 Line AIM-9X,	5,378	1,751	0	0	0	0	0	0	Continuing	TBD
(U) (Sidewinder)										
(U) - P-1 Line JASSM	744	3,735	1,485	2,966	0	2,939	0	0	Continuing	11,869

* 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**FY 2002FY 2003FY 2004

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(U) F. Schedule Profile Continued

						<u>FY 2002</u>				<u>FY 2003</u>				<u>FY 2004</u>			
						1	2	3	4	1	2	3	4	1	2	3	4
(U)	JDAM					*	*	*	*	*	X	X	X	X	X	X	X
(U)	WCMD													X	X	X	X
(U)	AIM-9X (Sidewinder)					*	*	*	*	*	X	X	X				
(U)	JSOW					*	*	*	*					X	X	X	X
(U)	JASSM					*	*	*	*	*	X	X	X	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 2003			
BUDGET ACTIVITY					PE NUMBER AND TITLE			PROJECT		
07 - Operational System Development					0207590F Seek Eagle			4037		
(U) <u>A. Project Cost Breakdown (\$ in Thousands)</u>										
						<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>		
(U)	Process Sustainment					1,004	1,044	1,096		
(U)	F/A-22 Data & Engineering Models					500	500	1,500		
(U)	Engineering Analysis					5,400	5,400	5,600		
(U)	Flight Testing					5,663	5,166	6,286		
(U)	Wind Tunnel Testing					191	750	1,000		
(U)	Other					2,963	3,082	3,205		
(U)	- Ballistic/ Safe Escape Analysis									
(U)	- Tech Order/P.C. Floppy Disk									
(U)	- Loading Process Development/Verification									
(U)	Mission Support					800	850	900		
(U)	Total					16,521	16,792	19,587		
(U) <u>B. Budget Acquisition History and Planning Information (\$ in Thousands)</u>										
(U) <u>Performing Organizations:</u>										
<u>Contractor or</u>	<u>Contract</u>									
<u>Government</u>	<u>Method/Type</u>	<u>Award or</u>	<u>Performing</u>	<u>Project</u>						
<u>Performing</u>	<u>or Funding</u>	<u>Obligation</u>	<u>Activity</u>	<u>Office</u>	<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
<u>Activity</u>	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>	<u>to FY 2002</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>Complete</u>	<u>Program</u>
<u>Product Development Organizations</u>										
Lockheed Martin	C/CPFF	Jul 98	15,648	15,648	4,545	500	500	1,500	8,603	15,648
Leigh Aerosystems	FFP	Jan 00	943	943	943	0	0	0	0	943
<u>Support and Management Organizations</u>										
Mission Support	PO/REO	Continuous	N/A	N/A	10,654	800	850	900	Continuing	TBD
<u>Test and Evaluation Organizations</u>										
46th Test Wing	PO/REO	Continuous	N/A	N/A	107,848	9,500	9,592	10,687	Continuing	TBD
AEDC	PO/REO	Continuous	N/A	N/A	16,666	191	750	1,000	Continuing	TBD
Various	PO/REO	Continuous	N/A	N/A	54,038	5,530	5,100	5,500	Continuing	TBD

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)					DATE February 2003	
BUDGET ACTIVITY		PE NUMBER AND TITLE				PROJECT
07 - Operational System Development		0207590F Seek Eagle				4037
		<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>
		<u>to FY 2002</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>Complete</u>
<u>Subtotals</u>						<u>Total</u>
Subtotal Product Development		5,488	500	500	1,500	8,603
Subtotal Support and Management		10,654	800	850	900	TBD
Subtotal Test and Evaluation		178,552	15,221	15,442	17,187	TBD
Total Project		194,694	16,521	16,792	19,587	TBD

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