

UNCLASSIFIED

PE NUMBER: 0207590F

PE TITLE: Seek Eagle

Exhibit R-2, RDT&E Budget Item Justification

DATE

February 2006

BUDGET ACTIVITY

07 Operational System Development

PE NUMBER AND TITLE

0207590F Seek Eagle

Cost (\$ in Millions)	FY 2005 Actual	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	22.316	19.232	16.426	19.948	20.118	20.481	20.612	Continuing	TBD
4037 SEEK EAGLE Certifications	22.316	19.232	16.426	19.948	20.118	20.481	20.612	Continuing	TBD

(U) **A. Mission Description and Budget Item Justification**

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 analyses. Over 2000 aircraft/store combinations are recommended for flight testing each year. Depending upon the complexity, certification takes from weeks to years. The SEEK EAGLE program is also responsible for insertion of new and emerging technologies into the SEEK EAGLE process, and for providing resources for sustainment of a viable Air Force aircraft/store certification capability. Integrated solutions to combat aircrew weapon delivery planning problems are developed and provided to the warfighters via Combat Weapons Delivery Software (CWDS). This includes the development of electronic technical orders (TOs), which results in cost savings by eliminating paper TOs. SEEK EAGLE funds are currently budgeted to support certification for new weapons programs including Small Diameter Bomb (SDB), Joint Direct Attack Munition (JDAM), Joint Air-to-Surface Standoff Missile (JASSM), AIM-9X, AIM-120 (AMRAAM), Miniature Air-Launched Decoy (MALD), BRU-57 (Smart Bomb Racks), and many other inventory stores on inventory aircraft. Planning and budgeting estimates are in progress for future certifications of weapons on F-22A, F-35, MQ-9 (Predator), and the Joint Unmanned Combat Aerial System (J-UCAS).

The RDT&E Budget Activity is 07, Operational System Development, because the program supports fielded systems.

(U) **B. Program Change Summary (\$ in Millions)**

	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Previous President's Budget	22.955	19.510	16.620
(U) Current PBR/President's Budget	22.316	19.232	16.426
(U) Total Adjustments	-0.639	-0.278	
(U) Congressional Program Reductions			
Congressional Rescissions	-0.018	-0.278	
Congressional Increases			
Reprogrammings	-0.383		
SBIR/STTR Transfer	-0.238		
(U) <u>Significant Program Changes:</u>			

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Exhibit R-2a, RDT&E Project Justification

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0207590F Seek Eagle

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4037 SEEK EAGLE Certifications

Cost (\$ in Millions)	FY 2005 Actual	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
4037 SEEK EAGLE Certifications	22.316	19.232	16.426	19.948	20.118	20.481	20.612	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0		

(U) **A. Mission Description and Budget Item Justification**

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 analyses. Over 2000 aircraft/store combinations are recommended for flight testing each year. Depending upon the complexity, certification takes from weeks to years. The SEEK EAGLE program is also responsible for insertion of new and emerging technologies into the SEEK EAGLE process, and for providing resources for sustainment of a viable Air Force aircraft/store certification capability. Integrated solutions to combat aircrew weapon delivery planning problems are developed and provided to the warfighters via Combat Weapons Delivery Software (CWDS). This includes the development of electronic technical orders (TOs), which results in cost savings by eliminating paper TOs. SEEK EAGLE funds are currently budgeted to support certification for new weapons programs including Small Diameter Bomb (SDB), Joint Direct Attack Munition (JDAM), Joint Air-to-Surface Standoff Missile (JASSM), AIM-9X, AIM-120 (AMRAAM), Miniature Air-Launched Decoy (MALD), BRU-57 (Smart Bomb Racks), and many other inventory stores on inventory aircraft. Planning and budgeting estimates are in progress for future certifications of weapons on F-22A, F-35, MQ-9 (Predator), and the Joint Unmanned Combat Aerial System (J-UCAS).

The RDT&E Budget Activity is 07, Operational System Development, because the program supports fielded systems.

(U) **B. Accomplishments/Planned Program (\$ in Millions)**

	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Continue development of F-22A data and engineering models to use for follow-on F-22A weapons certification and follow-on technical support from the contractor.	1.000	0.500	0.500
(U) Conduct various automation projects and automated Technical Orders/mission planning projects using CWDS	3.300	3.100	2.800
(U) Continue/complete various technology process improvement projects and aircraft load/separation prediction capabilities using ACFD (Applied Computational Fluid Dynamics)	3.000	2.800	2.600
(U) Conduct various aircraft-store certifications on USAF fighter and bomber aircraft	15.016	12.832	10.526
(U) Total Cost	22.316	19.232	16.426

(U) **C. Other Program Funding Summary (\$ in Millions)**

	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</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									

Project 4037

R-1 Shopping List - Item No. 157-2 of 157-6

Exhibit R-2a (PE 0207590F)

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Exhibit R-2a, RDT&E Project Justification

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(U) **C. Other Program Funding Summary (\$ in Millions)**

(U) Proc of Ammunition, AF*

(U) - JDAM (PE 0207583F)	0.000	0.000	0.107	0.000	0.000	Continuing	TBD
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(U) - WCMD (PE 0207600F)	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
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(U) Missile Procurement, AF*

(U) - JSOW (PE 0207324F)	0.000	0.958	0.000	0.000	0.000	Continuing	TBD
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(U) - AIM-120 C7 (AMRAAM) (PE 0207163F)	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
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(U) - AIM-9X (PE 0207161F)	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
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(U) - JASSM (PE 0207325F)	2.826	0.000	2.974	0.000	0.000	Continuing	TBD
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* Note: The SEEK EAGLE procurement dollars shown above are appropriated in each weapon's P-1 line.

(U) **D. 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.

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Exhibit R-3, RDT&E Project Cost Analysis

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(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior to FY 2005 Cost</u>	<u>FY 2005 Cost</u>	<u>FY 2005 Award Date</u>	<u>FY 2006 Cost</u>	<u>FY 2006 Award Date</u>	<u>FY 2007 Cost</u>	<u>FY 2007 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
(U) <u>Product Development</u>												
Lockheed Martin	C/CPFF	Marietta, GA	3.975	0.350		0.500		0.500		Continuing	TBD	
Leigh Aerosystems	FFP	Carlsbad, CA	0.943	0.000		0.000		0.000		0.000	0.943	
Subtotal Product Development			4.918	0.350		0.500		0.500		Continuing	TBD	0.000
Remarks:												
(U) <u>Support</u>												
Mission Support	PO/REO	Eglin AFB, FL	12.904	1.100		1.150		1.200		Continuing	TBD	
Subtotal Support			12.904	1.100		1.150		1.200		Continuing	TBD	0.000
Remarks:												
(U) <u>Test & Evaluation</u>												
46th Test Wing	PO/REO	Eglin AFB, FL	138.661	14.611		11.600		10.660		Continuing	TBD	
AEDC	PO/REO	Arnold Engineering Dev Center TN	17.766	0.000		1.250		0.806		Continuing	TBD	
Various	PO/REO/M IPR	Multiple other for T&E Support	70.043	6.255		4.732		3.260		Continuing	TBD	
Subtotal Test & Evaluation			226.470	20.866		17.582		14.726		Continuing	TBD	0.000
Remarks:												
(U) <u>Management</u>											0.000	
Subtotal Management			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) Total Cost			244.292	22.316		19.232		16.426		Continuing	TBD	0.000

Exhibit R-4, RDT&E Schedule Profile

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4037 SEEK EAGLE Certifications

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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Exhibit R-4a, RDT&E Schedule Detail

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4037 SEEK EAGLE Certifications

(U) Schedule ProfileFY 2005FY 2006FY 2007

(U) JDAM

1-4Q

(U) JSOW

1-4Q

(U) JASSM

1-4Q

1-4Q

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.