

**UNCLASSIFIED**

PE NUMBER: 0207590F  
 PE TITLE: Seek Eagle

<b>Exhibit R-2, RDT&amp;E Budget Item Justification</b>	<b>DATE</b> <b>February 2007</b>
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<b>BUDGET ACTIVITY</b> <b>07 Operational System Development</b>	<b>PE NUMBER AND TITLE</b> <b>0207590F Seek Eagle</b>
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Cost (\$ in Millions)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	19.108	16.364	22.969	21.900	24.749	23.901	23.430	23.824	Continuing	TBD
4037 SEEK EAGLE Certifications	19.108	16.364	22.969	21.900	24.749	23.901	23.430	23.824	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), Smart-Triple Ejector Rack (Smart-TER), Sniper Targeting Pod, LITENING Targeting Pod, HARM Targeting System-Release 7 (HTS-R7), Fighter Airborne Communications Enhancement (FACE), 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, and the MQ-9 (Predator).

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 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Previous President's Budget	19.232	16.426	19.948	20.118
(U) Current PBR/President's Budget	19.108	16.364	22.969	21.900
(U) Total Adjustments	-0.124			
(U) Congressional Program Reductions				
Congressional Rescissions		-0.062		
Congressional Increases				
Reprogrammings	-0.048			
SBIR/STTR Transfer	-0.076			

**(U) Significant Program Changes:**

**Exhibit R-2a, RDT&E Project Justification**

DATE  
**February 2007**

BUDGET ACTIVITY <b>07 Operational System Development</b>					PE NUMBER AND TITLE <b>0207590F Seek Eagle</b>			PROJECT NUMBER AND TITLE <b>4037 SEEK EAGLE Certifications</b>		
Cost (\$ in Millions)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
4037 SEEK EAGLE Certifications	19.108	16.364	22.969	21.900	24.749	23.901	23.430	23.824	Continuing	TBD
Quantity of RDT&E Articles	0	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), Smart-Triple Ejector Rack (Smart-TER), Sniper Targeting Pod, LITENING Targeting Pod, HARM Targeting System-Release 7 (HTS-R7), Fighter Airborne Communications Enhancement (FACE), 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, and the MQ-9 (Predator).

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

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

	FY 2006	FY 2007	FY 2008	FY 2009
(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.	0.500	0.500	0.500	0.500
(U) Conduct various automation projects and automated Technical Orders/mission planning projects using CWDS	3.100	2.800	3.300	3.200
(U) Continue/complete various technology process improvement projects and aircraft load/separation prediction capabilities using ACFD (Applied Computational Fluid Dynamics)	2.800	2.600	3.600	3.600
(U) Conduct various aircraft-store certifications on USAF fighter and bomber aircraft	12.708	10.464	15.569	14.600
(U) Total Cost	19.108	16.364	22.969	21.900

## Exhibit R-2a, RDT&amp;E Project Justification

DATE

February 2007

BUDGET ACTIVITY

07 Operational System Development

PE NUMBER AND TITLE

0207590F Seek Eagle

PROJECT NUMBER AND TITLE

4037 SEEK EAGLE Certifications

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

	<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>FY 2012</u>	<u>FY 2013</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Complete</u>							
(U) AF RDT&E										
(U) Other APPN										
(U) Proc of Ammunition, AF*										
(U) - JDAM (PE 0207583F)	0.000	0.107	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
(U) - WCMD (PE 0207600F)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
(U) Missile Procurement, AF*										
(U) - JSOW (PE 0207324F)	0.958	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
(U) - AIM-120 C7 (AMRAAM) (PE 0207163F)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
(U) - AIM-9X (PE 0207161F)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
(U) - JASSM (PE 0207325F)	0.000	2.962	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	TBD

\* 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**

DATE  
**February 2007**

BUDGET ACTIVITY				PE NUMBER AND TITLE						PROJECT NUMBER AND TITLE				
<b>07 Operational System Development</b>				<b>0207590F Seek Eagle</b>						<b>4037 SEEK EAGLE Certifications</b>				
(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method &amp; Type</u>	<u>Performing Activity &amp; Location</u>	<u>Total Prior to FY 2006 Cost</u>	<u>FY 2006 Cost</u>	<u>FY 2006 Award Date</u>	<u>FY 2007 Cost</u>	<u>FY 2007 Award Date</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 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	4.325	0.500		0.500		0.500		0.500		Continuing	TBD	
Leigh Aerosystems	FFP	Carlsbad, CA	0.943	0.000		0.000		0.000		0.000		0.000	0.943	
Subtotal Product Development			5.268	0.500		0.500		0.500		0.500		Continuing	TBD	0.000
Remarks:														
(U) <u>Support</u>														
Mission Support	PO/REO	Eglin AFB, FL	14.004	1.150		1.300		5.000		3.500		Continuing	TBD	
Subtotal Support			14.004	1.150		1.300		5.000		3.500		Continuing	TBD	0.000
Remarks:														
(U) <u>Test &amp; Evaluation</u>														
46th Test Wing	PO/REO	Eglin AFB, FL	153.272	11.200		10.100		11.100		10.900		Continuing	TBD	
AEDC	PO/REO	Arnold Engineering Dev Center TN	17.766	1.400		1.500		1.500		1.000		Continuing	TBD	
Various	PO/REO/ MIPR	Multiple other for T&E Support	76.298	4.858		2.964		4.869		6.000		Continuing	TBD	
Subtotal Test & Evaluation			247.336	17.458		14.564		17.469		17.900		Continuing	TBD	0.000
Remarks:														
(U) <u>Management</u>														
Subtotal Management			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000
Remarks:														
(U) Total Cost			266.608	19.108		16.364		22.969		21.900		Continuing	TBD	0.000

## Exhibit R-4, RDT&amp;E Schedule Profile

DATE

February 2007

BUDGET ACTIVITY

07 Operational System Development

PE NUMBER AND TITLE

0207590F Seek Eagle

PROJECT NUMBER AND TITLE

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.**

<b>Exhibit R-4a, RDT&amp;E Schedule Detail</b>	DATE <b>February 2007</b>
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BUDGET ACTIVITY <b>07 Operational System Development</b>	PE NUMBER AND TITLE <b>0207590F Seek Eagle</b>	PROJECT NUMBER AND TITLE <b>4037 SEEK EAGLE Certifications</b>
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	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) <b><u>Schedule Profile</u></b>				
(U) JDAM	4Q	1-4Q		
(U) JASSM	2-4Q	1-4Q	1-4Q	
(U) SDB	4Q	1-4Q	1-4Q	1-4Q
(U) WCMD	4Q			
(U) AIM-9X	1-4Q	1-4Q	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.