PE NUMBER: 0207590F

<u> </u>	L. Occk Lagic										
	Exhibit R-2, RDT&E Budget Item Justification									February 2	2005
	ET ACTIVITY perational System Development					BER AND TITLE OF Seek Ea ç					
	Cost (\$ in Millions)	FY 2004 Actual	FY 2005 Estimate	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	18.482	22.955	19.510	16.620	19.953	20.209	20.632	20.816	Continuing	TBD
4037	SEEK EAGLE Certifications	18 482	22 955	19 510	16 620	19 953	20 209	20.632	20.816	Continuing	TRD

(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), Joint Standoff Weapon (JSOW), AIM-9X, AIM-120 C7 (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/A-22, F-35, MQ-9 (Predator), and the Joint Unmanned Combat A

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 2004</u>	FY 2005	FY 2006	FY 2007
(U) Previous President's Budget	19.421	23.159	21.152	18.319
(U) Current PBR/President's Budget	18.482	22.955	19.510	16.620
(U) Total Adjustments	-0.939	-0.204		
(U) Congressional Program Reductions		-0.204		
Congressional Rescissions				
Congressional Increases				
Reprogrammings	-0.352			
SBIR/STTR Transfer	-0.587			
(U) Significant Program Changes:				

Exhibit R-2 (PE 0207590F)

	Exhibit R-2a, RDT&E Project Justification										2005
	T ACTIVITY erational System Development					BER AND TITLE OF Seek Eag			OJECT NUMBEI 37 SEEK EA		ations
	Cost (\$ in Millions)	FY 2004 Actual	FY 2005 Estimate	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	18.482	22.955	19.510	16.620	19.953	20.209	20.632	20.816	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), Joint Standoff Weapon (JSOW), AIM-9X, AIM-120 C7 (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/A-22, F-35, MQ-9 (Predator), and the Joint Unmanned Combat A

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

(U)	B. Accomplishments/Planned Program (\$ in Millions)					FY 20	<u>)04 </u>	FY 2005	FY 2006	FY 2007
(U)	Continue development of F/A-22 data and engineering models to use for follow-on F/A-22 weapons					0.5	500	1.000	0.500	0.500
	certification									
(U)	Conduct various automation projects and autor	nated Technica	l Orders/mission	on planning pro	ojects using	3.3	300	3.300	3.200	3.000
	CWDS									
(U)	Continue/complete various technology process	improvement j	projects and air	craft load/sepa	aration	2.8	300	3.000	3.000	2.600
	prediction capabilities using ACFD (Applied C	Computational I	Fluid Dynamics	s)						
(U)	Conduct various aircraft-store certifications on	USAF fighter	and bomber air	craft		11.882		15.655	12.810	10.520
(U)	Total Cost					18.4	182	22.955	19.510	16.620
(U)	C. Other Program Funding Summary (\$ in M	(Aillions								
	<u>FY 2004</u>	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to	Total Cost
	<u>Actual</u>	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Complete	Total Cost
(U)	AF RDT&E									
(U)	Other APPN									
Pro	ect 4037		R-1 Shoppir	ng List - Item No.	156-3 of 156-7				Exhibit R-2a (F	PE 0207590F)

		Exhibit I	R-2a, RDT	&E Project	Justification	on			DATE February 20	05	
BUDGET ACTIVITY 07 Operational System Development									PROJECT NUMBER AND TITLE 4037 SEEK EAGLE Certifications		
(U)	C. Other Program Funding Sum	ımary (\$ in Mi	llions)								
(U)	Proc of Ammunition, AF*										
(U)	- JDAM (PE 0207583F)	0.143	0.000	0.000	0.105	0.000	0.000		Continuing	TBD	
(U)	- WCMD (PE 0207600F)	0.133	0.000	0.000	0.000	0.000	0.000		Continuing	TBD	
(U)	Missile Procurement, AF*										
(U)	- JSOW (PE 0207324F)	0.000	0.000	0.971	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		Continuing	TBD	
(U)	- AIM-9X (PE 0207161F)	0.000	0.000	0.000	0.000	0.000	0.000		Continuing	TBD	
(U)	- JASSM (PE 0207325F)	0.000	2.826	0.000	2.899	0.000	0.000		Continuing	TBD	
	* Note: The SEEK EAGLE procu	rement dollars	shown above a	re appropriated	l in each weapo	on'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.

Project 4037 R-1 Shopping List - Item No. 156-4 of 156-7 Exhibit R-2a (PE 0207590F)

	Exhib	it R-3, RD	T&E Proj	ect Co	st Anal	ysis					DATE		uary 200)5
BUDGET ACTIVITY 07 Operational System Develop	ment						ND TITLE eek Eag					BER AND		
(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2004 Cost	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost to Complete	Total Cost	Target Value of Contract
(U) Product Development Lockheed Martin Leigh Aerosystems Subtotal Product Development Remarks:	C/CPFF FFP	Marietta, GA Carlsbad, CA	3.560 0.943 4.503	0.500 0.000 0.500		1.000 0.000 1.000		0.500 0.000 0.500		0.500 0.000 0.500		0.500 0.000 0.500	6.560 0.943 7.503	0.000
(U) <u>Support</u> Mission Support	PO/REO	Eglin AFB, FL	11.854	1.050		1.100		1.150		1.200		Continuing	TBD	
Subtotal Support Remarks:			11.854	1.050		1.100		1.150		1.200		Continuing	TBD	0.000
(U) <u>Test & Evaluation</u> 46th Test Wing	PO/REO	Eglin AFB, FL	126.719	11.857		14.600		11.600		9.660		Continuing	TBD	
AEDC	PO/REO	Arnold Engineering Dev Center TN	17.766	0.000		0.000		2.000		2.000		Continuing	TBD	
Various	PO/REO/ MIPR	Multiple other for	64.968	5.075		6.255		4.260		3.260		Continuing	TBD	
Subtotal Test & Evaluation Remarks:		T&E Support	209.453	16.932		20.855		17.860		14.920		Continuing	TBD	0.000
(U) Management Subtotal Management			0.000	0.000		0.000		0.000		0.000		0.000	0.000 0.000	0.000
Remarks: (U) Total Cost			225.810	18.482		22.955		19.510		16.620		Continuing	TBD	0.000
Project 4037			R-1 Sh	opping Lis	t - Item No.	156-5 of 1	156-7					Exhibi	t R-3 (PE 02	207590F)

	Exhibit R-4, RDT&E Schedule P	Profile		February 2005
BUDGET ACTIVITY		PE NUMBER AND TITLE	PROJEC [*]	T NUMBER AND TITLE
07 Operational System Development		0207590F Seek Eagle	4037 SI	EEK 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.

Project 4037

R-1 Shopping List - Item No. 156-6 of 156-7

Exhibit R-4 (PE 0207590F)

	UNCLASSIFIED				
Exhibit R-4a, RDT	&E Schedule Detail		DATE Februa i	ry 2005	
BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0207590F Seek Eagle		PROJECT NUMBER AND TITLE 4037 SEEK EAGLE Certifications		
(U) Schedule Profile (U) JDAM (U) WCMD	<u>FY 2004</u> 1-4Q 1-4Q	FY 2005	FY 2006	<u>FY 2007</u> 1-4Q	
 (U) JSOW (U) JASSM Note: The SEEK EAGLE program does not execute in accordance goes through the SEEK EAGLE process by the designated user price 		1-4Q aircraft-store con	1-4Q nfiguration requested	1-4Q by the user	

Exhibit R-4a (PE 0207590F)

Project 4037