PE NUMBER: 0207590F
PE TITLE: Seek Eagle

Exhibit R-2, RDT&E Budget Item Justification

DATE: February 2008

BUDGET ACTIVITY: 07 Operational System Development

PE NUMBER AND TITLE: 0207590F Seek Eagle

Cost ($ in Millions)	FY 2007 Actual	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	16.299	22.823	21.645	24.521	23.675	23.210	23.601	Continuing	TBD
4037 SEEK EAGLE Certifications	16.299	22.823	21.645	24.521	23.675	23.210	23.601	Continuing	TBD

(U) A. Mission Description and Budget Item Justification

The Air Force operates a variety of combat aircraft that carry numerous and varied stores (munitions, missiles, fuel tanks, targeting pods, range pods, electronic countermeasures pods, etc.). Stores are carried in countless different loading combinations determined by operational and training scenarios, missions, and tactics. Aircraft stores combinations change as operational plans and tactics change and as new stores are developed and fielded. Before operational or training 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 certification recommendations through any combination of engineering analysis, wind tunnel testing, modeling and simulation, and ground and flight test and evaluation. The program recommends over 1000 aircraft/store combinations for flight each year, and depending upon the complexity, analysis and testing in support of certification may take from weeks to years. The program is also responsible for inserting 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 for combat aircrew weapon delivery planning problems are developed and provided to combat forces via Combat Weapons Delivery Software (CWDS). Planning and capability development efforts are in progress for future certifications of weapons on F-22A, F-35, and the MQ-9 (Reaper).

SEEK EAGLE funds are currently budgeted to support certification testing and analysis for new weapons programs (and all new variants) including (but not limited to): Small Diameter Bomb I/II (SDB), Laser Joint Direct Attack Munitions (JDAM), Joint Air-to-Surface Standoff Missile (JASSM), AIM-9X, AIM-120 (AMRAAM), Miniature Air-Launched Decoy (MALD), BRU-57 (Smart Bomb Racks), low collateral damage warheads for Precision Guided Munitions, Sniper Targeting Pod with video data link, LITENING Targeting Pod with video data link, GBU-51, GBU-54, Airborne Installation System (AIS) pods, and many other inventory stores on inventory aircraft. Procurement funding to obtain munitions in support of SEEK EAGLE testing is included within a particular munitions' procurement documentation (see R-2A section C for additional details).

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

Exhibit R-2, RDT&E Budget Item Justification	DATE February 2008
BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0207590F Seek Eagle

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

		FY 2007	FY 2008	FY 2009
(U)	Previous President's Budget	16.364	22.969	21.900
(U)	Current PBR/President's Budget	16.299	22.823	21.645
(U)	Total Adjustments	-0.065	-0.146	
(U)	Congressional Program Reductions			
	Congressional Rescissions		-0.146	
	Congressional Increases			
	Reprogrammings			
	SBIR/STTR Transfer	-0.065		
(U)	Significant Program Changes:			

Exhibit R-2a, RDT&E Project Justification	DATE: February 2008
BUDGET ACTIVITY: 07 Operational System Development	PE NUMBER AND TITLE: 0207590F Seek Eagle
PROJECT NUMBER AND TITLE: 4037 SEEK EAGLE Certifications	

Cost ($ in Millions)	FY 2007 Actual	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	16.299	22.823	21.645	24.521	23.675	23.210	23.601	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 operates a variety of combat aircraft that carry numerous and varied stores (munitions, missiles, fuel tanks, targeting pods, range pods, electronic countermeasures pods, etc.). Stores are carried in countless different loading combinations determined by operational and training scenarios, missions, and tactics. Aircraft stores combinations change as operational plans and tactics change and as new stores are developed and fielded. Before operational or training 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 certification recommendations through any combination of engineering analysis, wind tunnel testing, modeling and simulation, and ground and flight test and evaluation. The program recommends over 1000 aircraft/store combinations for flight each year, and depending upon the complexity, analysis and testing in support of certification may take from weeks to years. The program is also responsible for inserting 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 for combat aircrew weapon delivery planning problems are developed and provided to combat forces via Combat Weapons Delivery Software (CWDS). Planning and capability development efforts are in progress for future certifications of weapons on F-22A, F-35, and the MQ-9 (Reaper).

SEEK EAGLE funds are currently budgeted to support certification testing and analysis for new weapons programs (and all new variants) including (but not limited to): Small Diameter Bomb I/II (SDB), Laser Joint Direct Attack Munitions (JDAM), Joint Air-to-Surface Standoff Missile (JASSM), AIM-9X, AIM-120 (AMRAAM), Miniature Air-Launched Decoy (MALD), BRU-57 (Smart Bomb Racks), low collateral damage warheads for Precision Guided Munitions, Sniper Targeting Pod with video data link, LITENING Targeting Pod with video data link, GBU-51, GBU-54, Airborne Installation System (AIS) pods, and many other inventory stores on inventory aircraft. Procurement funding to obtain munitions in support of SEEK EAGLE testing is included within a particular munitions' procurement documentation (see R-2A section C for additional details).

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

(U) B. Accomplishments/Planned Program ($ in Millions)	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	3.500	1.800
(U) Develop mission planning software including CWDS	2.800	3.300	3.500
(U) Continue/complete various technology/ process improvement projects such as store separation prediction capabilities using ACFD (Applied Computational Fluid Dynamics).	2.600	2.700	2.900
(U) Conduct various aircraft-store certifications on USAf fighter, bomber, and USA aircraft.	10.399	13.323	13.445
(U) Total Cost	16.299	22.823	21.645

Exhibit R-2a, RDT&E Project Justification		DATE: February 2008
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)

		FY 2007 Actual	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost
(U)	AF RDT&E									
(U)	Other APPN									
(U)	Proc of Ammunition, AF*									
(U)	- JDAM (PE 0207583F)	0.107	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
(U)	Missile Procurement, AF*									
(U)	- JASSM (PE 0207325F)	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.

Exhibit R-3, RDT&E Project Cost Analysis

DATE: February 2008

BUDGET ACTIVITY: 07 Operational System Development

PE NUMBER AND TITLE: 0207590F Seek Eagle

PROJECT NUMBER AND TITLE: 4037 SEEK EAGLE Certifications

(U) Cost Categories (Tailor to WBS, or System/Item Requirements) ($ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2007 Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost to Complete	Total Cost	Target Value of Contract
(U) Product Development												
Lockheed Martin	C/CPFF	Marietta, GA	4.825	0.375		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			5.768	0.375		0.500		0.500		Continuing	TBD	0.000
Remarks:												
(U) Support												
Mission Support	PO/REO	Eglin AFB, FL	15.154	0.900		5.000		3.500		Continuing	TBD	
Subtotal Support			15.154	0.900		5.000		3.500		Continuing	TBD	0.000
Remarks:												
(U) Test & Evaluation												
46th Test Wing	PO/REO	Eglin AFB, FL	164.472	11.485		11.100		10.900		Continuing	TBD	
AEDC	PO/REO	Arnold Engineering Dev Center TN	19.166	1.375		1.500		1.000		Continuing	TBD	
Various	PO/REO/MIPR	Multiple other for T&E Support	81.156	2.164		4.723		5.745		Continuing	TBD	
Subtotal Test & Evaluation			264.794	15.024		17.323		17.645		Continuing	TBD	0.000
Remarks:												
(U) Management												
											0.000	
Subtotal Management			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) Total Cost			285.716	16.299		22.823		21.645		Continuing	TBD	0.000

Exhibit R-4, RDT&E Schedule Profile		DATE February 2008
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.

Exhibit R-4a, RDT&E Schedule Detail		DATE February 2008
BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0207590F Seek Eagle	PROJECT NUMBER AND TITLE 4037 SEEK EAGLE Certifications

(U) Schedule Profile	FY 2007	FY 2008	FY 2009
(U) JDAM	1-4Q	1-4Q	1-4Q
(U) JASSM	1-4Q	1-4Q	1-2Q
(U) SDB	1-4Q	1-4Q	1-4Q
(U) AIM-9X	1-4Q	1-4Q	1-4Q
(U) AIM-120	1-4Q	1-4Q	1-4Q
(U) WCMD	1-4Q	1-4Q	1-4Q
(U) MALD	1-4Q	1-4Q	1-4Q
(U) SNIPER VDL	1-4Q	1-4Q	1-4Q
(U) LITENING GEN 4	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.