PE TITLE: AIR LAUNCHED CRUISE MISSILE

	Ex	DATE	DATE February 2005								
	PE NUMBER AND TITLE 17 Operational System Development 18 Of Operational System Development 19 Of Operational System Development 10 Of Operational System Development 10 Of Operational System Development 11 Of Operational System Development 12 Of Operational System Development 13 Of Operational System Development										
	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	23.007	11.732	2.250	3.763	5.822	0.395	0.412	0.428	Continuing	TBD
4797	Flight Testing & Navigation Enhancement	23.007	11.732	2.250	3.763	5.822	0.395	0.412	0.428	Continuing	TBD

(U) A. Mission Description and Budget Item Justification

The AGM-86B, Air Launched Cruise Missile (ALCM), is a subsonic, air-to-surface strategic nuclear missile, operational since 1982. Armed with a W-80 warhead, it is designed to evade air and ground-based defenses in order to strike targets at any location within any enemy's territory. The ALCM is designed for B-52H internal and external carriage.

A Service Life Extension Plan (SLEP) was developed to meet an AF Long Range Plan requirement to extend ALCM Service Life to FY30. The results of Service Life Extension Program (SLEP) studies identified system components that cannot be sustained beyond the standard service life. The current system is experiencing obsolescence of parts/components. Missile components and support equipment are becoming non-supportable. Service Life Extension of this critical weapon is essential to meet Air Combat Command (ACC) and United States Strategic Command (USSTRATCOM) commitments (also known as OPLAN 8044).

Initial SLEP assessment required the development and acquisition of new Conventional Air Launched Cruise Missile (CALCM)/ALCM Test Instrumentation Kit (CATIK) flight test payload doors, replacement of the current navigation system, and replacement of Operational Test & Evaluation (OT&E) hardware and software. CATIK commenced in FY00 based on the AF decision to maintain this weapon system beyond its current design life. Previous payload doors were purchased to support the original service life only. CATIK development efforts are driven by depleting test assets, parts obsolescence, Range Command Council 319 (RCC-319) safety requirements and re-certification of the Flight Termination System. Five CATIK RDT&E test articles will be developed to support Developmental Test & Evaluation (DT&E) flight tests. The five test articles will be used to conduct one ALCM Operational Test Launch, one ALCM Joint Test Assembly (JTA) integration test to ensure compatibility with the warhead package, one CALCM Operational Test Launch, one Captive Carry and a backup test asset.

CATIK payload doors, containing range transponder and battery, are required to be replaced due to depleting test assets to continue flight tests beyond FY06. The new CATIK payload doors will provide an inventory of test assets for continued flight testing through FY16, based on current flight test requirements. W-80 LEP (current interface) - CATIK will be designed to a JTA-R1. If the W-80 LEP program changes interface, CATIK will require modification and additional funding/schedule. The CATIK payload door is a critical component for determining Weapon System Reliability (WSR) and for supporting the W-80 Life Extension Program (LEP) (current interface).

Operational Test & Evaluation (OT&E) hardware and software replacement will occur concurrently with the CATIK development effort.

FY04 EMD efforts consist of qualification tests of the CATIK doors. Individual component qualification will have already been completed at the subvendors. FY05 EMD efforts is flight tests finishing up with the flight test report FY06. Contract period of performance ends April 06.

INE - The original ALCM Inertial Navigation Element (INE) service life design expired in 1996. The AF took action to study the INE components and determine

R-1 Shopping List - Item No. 122-1 of 122-10

Exhibit R-2 (PE 0101122F)

Exhibit R-2, RDT&E Budget Item Justification BUDGET ACTIVITY O7 Operational System Development PE NUMBER AND TITLE 0101122F AIR LAUNCHED CRUISE MISSILE

which components were expected to become increasingly difficult to maintain or support. The completed studies indicate the ALCM INE failure rate has remained constant over the past 10 yrs and the INE is sustainable to 2030 with software modifications and Sub-Terminal Map Upgrades, hardware cannibalization and depot support/test equipment replacement. The Sub-Terminal map software upgrade will help maintain the credibility of the ALCM threat for the remainder of its service life.

Cruise Missile Functional Ground Testing (FGT) is required to provide the capability to non-destructively accomplish functional flight simulation of a full-up missile flight profile on the ground to obtain additional reliability data. This capability will provide critical reliability data without the costs of flight test missions and will also retain the missiles in the inventory. This effort will develop the software and hardware for an existing test facility for accomplishment of the ground tests.

The Big Crow Alternative development effort will produce a telemetry relay system mounted in B-52H wings. The Big Crow aircraft are used for Air Force flight testing and ensure continued Air Force conventional and nuclear cruise missile flight test capability at all times. Currently, two Big Crow aircraft provide a telemetry gathering capability for Army, Navy and Air Force requirements. The Big Crow aircraft perform a classified wartime mission, which takes precedence over Air Force cruise missile flight tests. This effort will design, develop, produce and test two aircraft systems (2 Pylons each) worth of equipment to ensure Air Force cruise missile flight testing/telemetry gathering capability when Big Crow is unavailable. The Pylons produced in the development effort will remain operational at the conclusion of the test effort.

The W-80 LEP replaces warhead components to extend its service life. The National Nuclear Security Administration (NNSA) is responsible for most of the refurbishment costs associated with the W-80 warhead. The Air Force is responsible for funding ALCM W-80 integration. Integration includes evaluation of interface control changes as part of the Initial Concept Design (ICD), missile testing, and logistics requirements necessary to support a First Production Unit (FPU) delivery of 2008.

These programs are in Budget Activity 7, Operational System Development, due to efforts supporting a fielded, post Milestone III operational weapon system.

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

	<u>FY 2004</u>	FY 2005	<u>FY 2006</u>	<u>FY 2007</u>
(U) Previous President's Budget	29.466	11.837	2.238	3.693
(U) Current PBR/President's Budget	23.007	11.732	2.250	3.763
(U) Total Adjustments	-6.459	-0.105		
(U) Congressional Program Reductions		-0.105		
Congressional Rescissions				
Congressional Increases				
Reprogrammings	-5.751			
SBIR/STTR Transfer	-0.708			
(II) Significant December Changes				

EX7.200.4

U) Significant Program Changes:

R-1 Shopping List - Item No. 122-2 of 122-10

		DATE	DATE February 2005								
	ET ACTIVITY Derational System Development						NCHED CRU	JISE 47	OJECT NUMBE 97 Flight Tes hancement		gation
	Cost (\$ in Millions)	FY 2004	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
4797	Flight Testing & Navigation Enhancement	23.007	11.732	2.250	3.763	5.822	0.395	0.412		'	TBD
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

(U) A. Mission Description and Budget Item Justification

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INE - The original ALCM Inertial Navigation Element (INE) service life design expired in 1996. The AF took action to study the INE components and determine

Project 4797 R-1 Shopping List - Item No. 122-3 of 122-10

Exhibit R-2a (PE 0101122F)

Exhibit R-2a, RDT&E Project Just	ification	D	February 2005
BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT I	NUMBER AND TITLE
07 Operational System Development	0101122F AIR LAUNCHED CRUISE	4797 Flig	ght Testing & Navigation
	MISSILE	Enhance	ement

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These programs are in Budget Activity 7, Operational System Development, due to efforts supporting a fielded, post Milestone III operational weapon system.

(U)	B. Accomplishments/Planned Program (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007
(U)	- Conducted flight test planning for integration testing	0.180			
(U)	- Continued update of CATIK Interface Control Documents and assembled hardware	0.320			
(U)	CATIK Test and Evaluation/Government costs	4.500			
(U)	Continue CATIK Test & Evaluation/Government costs		3.837		
(U)	Continue INE Software Subterminal Map Development, Testing and Integration		0.500		
(U)	Began Cruise Missile Functional Ground Test (FGT) software design & development	6.113			
(U)	Began Cruise Missile FGT hardware design/development	6.114			
(U)	Began FGT System/Missile Integration & Test	1.244			
(U)	Continue FGT System/Missile Integration & Test		4.300		
(U)	ALCM interface change evaluations and contractor Interface Control Document support for W-80 LEP	1.000			
(U)	Continue ALCM interface change evaluations and contractor Interface Control Document support for		1.255		
	W-80 LEP				
Pro	eject 4797 R-1 Shopping List - Item No. 122-4 of 122-10			Exhibit R-2a (I	PE 0101122F)

		DATE February 2005								
r ACTIVITY Prational System Developm	ent			0101	122F AIR LA		797 Flight Te	Flight Testing & Navigation		
LCM/W-80 integration data dev	elopment			•		0.1	.25			
•	-	test support				0.5	595			
e e	_		support					0.840		
egin ALCM/W-80 Service Syste	em Test and r	epair (Service	STAR) re-desi	gn/modification	n			1.000		
									1.029	
				11					0.097	
•		•	support						1.124	
	-	_	11							1.180
	_									1.750
-	-		ty testing							0.833
_		•				2.8	316			
otal Cost								11.732	2.250	3.763
Other Program Funding Sum	ımary (\$ in N	<u> (Iillions</u>								
	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to	F-4-1 C4
	<u>Actual</u>	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Complete -	Total Cost
PAF, Missile Modifications A 03, PE 0101122F, P-15)	1.967	21.072	24.764	9.708	9.956	10.141	0.000	0.000	Continuing	TBD
PAF, Missile Modifications										
tial Spares (BA 04 PE	1.661	0.374	0.180	0.186	0.189	0.194	0.000	0.000	Continuing	TBD
A 04, PE 0101122F, P-16)	3.785	4.218	4.305	0.288	0.292	0.300	11.010	11.295	Continuing	TBD
PAF, Electronics and elecommunications (BP83) (BA 03, E 0101122F, P-18)	1.305	1.343	1.383	1.423	1.452	1.487	1.554	1.611	Continuing	ТВГ
	crational System Developmental EcM/W-80 integration data develocm/W-80 integration ground to post and a continue ALCM/W-80 integration or gin ALCM/W-80 Service System on the ALCM well integration on the ALCM/W-80 Developmental Continue Contractor and organic regin Big Crow Alternative hardward of the ALCM/W-80 Developm on the Contractor and organic regin Big Crow Alternative hardward well and the AlcM/W-80 Developm on the Contractor and organic regin Big Crow Alternative hardward Cost well as a contractor and organic regin Big Crow Alternative hardward Cost well as a contractor and organic regin Big Crow Alternative hardward Cost well as a contractor and organic regin Big Crow Alternative hardward Cost well as a contractor and contractor and contractor and contractor and contractor and decommunications uipment (BP83) (BA 03,	LCM/W-80 integration data development LCM/W-80 integration ground test and flight continue ALCM/W-80 integration ground test regin ALCM/W-80 Service System Test and resolutions ALCM interface change evaluations/ continue ALCM interface change evaluations/ continue ALCM W-80 integration data development alouted ALCM/W-80 Environmental Flight Test conduct ALCM/W-80 Development Flight Test continue contractor and organic missile interface gin Big Crow Alternative hardware and softential Cost Other Program Funding Summary (\$ in N EY 2004 Actual PAF, Missile Modifications A 03, PE 0101122F, P-15) PAF, Missile Modifications tial Spares (BA 04 PE 1.661 01122F, P-16) PAF, Replenishment Spares A 04, PE 0101122F, P-16) PAF, Electronics and decommunications uipment (BP83) (BA 03,	CCM/W-80 integration data development LCM/W-80 integration ground test and flight test support ontinue ALCM/W-80 integration ground test and flight test segin ALCM/W-80 Service System Test and repair (Service ontinue ALCM interface change evaluations/changes and continue ALCM W-80 integration data development ontinue ALCM W-80 integration ground test and flight test onduct ALCM/W-80 Environmental Flight Test onduct ALCM/W-80 Development Flight Test ontinue contractor and organic missile interface compatibilities in Big Crow Alternative hardware and software developed on the Cost Other Program Funding Summary (\$ in Millions) FY 2004 FY 2005 Actual Estimate PAF, Missile Modifications A 03, PE 0101122F, P-15) PAF, Missile Modifications tial Spares (BA 04 PE 1.661 0.374 01122F, P-16) PAF, Replenishment Spares A 04, PE 0101122F, P-16) PAF, Replenishment Spares A 04, PE 0101122F, P-16) PAF, Electronics and decommunications uipment (BP83) (BA 03,	CCM/W-80 integration data development LCM/W-80 integration ground test and flight test support begin ALCM/W-80 integration ground test and flight test support begin ALCM/W-80 Service System Test and repair (Service STAR) re-design ALCM/W-80 integration data development begin ALCM interface change evaluations/changes and contractor ICD so intinue ALCM W-80 integration data development begin ALCM/W-80 Environmental Flight Test begin and test and flight test support begin and test and flight test support begin Big Crow Alternative hardware and software development begin Big Cro	Actual Estimate Estimate Estimate Estimate Estimate P2AF, Missile Modifications A 03, PE 0101122F, P-15) PAF, Missile Modifications tail Spares (BA 04 PE 1.661 0.374 0.180 0.288 A 04, PE 0101122F, P-16) PAF, Replenishment Spares A 04, PE 0101122F, P-16) PAF, Replenishment Spares A 04, PE 0101122F, P-16) PAF, Replenishment Spares and Ilight test support destand flection ground test and flight test support support for W-8 on the gration ground test and flight test support support support for W-8 on the gration ground test and flight test support support support support for W-8 on the gration ground test and flight test support suppo	Arational System Development LCM/W-80 integration data development LCM/W-80 integration ground test and flight test support ontinue ALCM/W-80 integration ground test and flight test support ontinue ALCM/W-80 Service System Test and repair (Service STAR) re-design/modification ontinue ALCM interface change evaluations/changes and contractor ICD support for W-80 LEP ontinue ALCM W-80 integration ground test and flight test support ontinue ALCM W-80 integration ground test and flight test support ontinue ALCM W-80 integration ground test and flight test support onduct ALCM/W-80 Environmental Flight Test onduct ALCM/W-80 Development Flight Test onduct ALCM/W-80 Development Flight Test ontinue contractor and organic missile interface compatibility testing regin Big Crow Alternative hardware and software developement ontal Cost Other Program Funding Summary (\$ in Millions) FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 Actual Estimate Estimate Estimate Estimate PAF, Missile Modifications A 03, PE 0101122F, P-15) PAF, Missile Modifications tial Spares (BA 04 PE 1.661 0.374 0.180 0.186 0.189 D1122F, P-16) PAF, Replenishment Spares A 04, PE 0101122F, P-16) PAF, Replenishment Spares A 04, PE 0101122F, P-16) PAF, Electronics and lecommunications uipment (BP83) (BA 03, 1.305 1.343 1.383 1.323 1.423 1.452	CCM/W-80 integration data development CCM/W-80 integration ground test and flight test support ontinue ALCM/W-80 integration ground test and flight test support ontinue ALCM/W-80 integration ground test and flight test support ontinue ALCM/W-80 integration ground test and flight test support ontinue ALCM west integration data developement ontinue ALCM west integration data developement ontinue ALCM west integration data developement ontinue ALCM west integration ground test and flight test support onduct ALCM/W-80 integration ground test and flight test support onduct ALCM/W-80 integration data developement ontinue ALCM west integration ground test and flight test support onduct ALCM/W-80 integration ground test and flight test support onduct ALCM/W-80 integration ground test and flight test support onduct ALCM/W-80 integration ground test and flight test support 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ground test and flight test support on the support of west integration ground test and flight test support on the support of west integration ground test and flight test	Actual Estimate Estimate	PE NUMBER AND TITLE 1972 1973 1974 1975 1974 1975 1974 1975 1974 1975 1974 1975 1974 1975 1974 1975 1974 1975 1974 1975 1974 1975 1974 1975 1974 1975 1974 1975 1974 1975 1974 1975 1974 1975 1974 1975 1974 1975	PROJUBER AND TITLE O101122F AIR LAUNCHED CRUISE PROJECT NUMBER AND TITLE 4797 Flight Testing & Navige Inhancement O1015 O1019 O1

The Cruise Missile FGT development will be performed by the prime contractor, utilizing a Firm Fixed Price (FFP) contract.

Project 4797 R-1 Shopping List - Item No. 122-5 of 122-10 Exhibit R-2a (PE 0101122F)

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Exhibit R-2a, RDT&E	Project Justification		DATE February 2005
BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0101122F AIR LAUNCHED CRUISE MISSILE	4797 F	T NUMBER AND TITLE light Testing & Navigation cement
The ALCM/W-80 LEP integration will be performed by the prime contract.	contractor utilizing a Time and Materials (T&M) engineering a	assignmen	t on an existing sustainment
The Big Crow Alternative development will be performed by SAI	C using a CPFF contract.		
Project 4797 R	-1 Shopping List - Item No. 122-6 of 122-10		Exhibit R-2a (PE 0101122F)

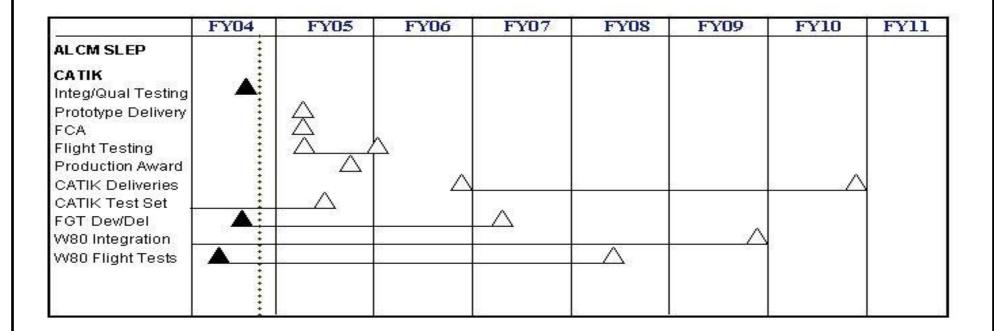
	Exhib	it R-3, RD	T&E Proj	ect Co	st Ana	lysis					DATE		uary 200)5
BUDGET ACTIVITY 07 Operational System Development					PE NUMBER AND TITLE 0101122F AIR LAUNCHED CRUISE MISSILE				4797	PROJECT NUMBER AND TITLE 4797 Flight Testing & Navigation Enhancement				
(U) Cost Categories (Tailor to WBS, or System/Item 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		Target Value of Contract
(U) Product Development Development: CATIK	Eng Agen/	Dosina											0.000	
	Eng Asgn/ CPAF	Seattle, WA.		0.500	Nov-04	1.000	Jan-05					0.050	1.550	
TRW- INE	Eng Asgn/T& M											0.000	0.000	
Boeing-INE	Eng Asgn/ CPAF											0.000	0.000	
	TBD											7.668	7.668	
Functional Ground Test (FGT)	FFP	Raytheon, Tuscon AZ		13.471	Jun-04	4.300	Jan-05					0.000	17.771	
W80 LEP Support	Eng Asgn/T& M	Boeing, Seattle, WA.		2.035	Jun-04	1.255	Feb-05	1.041	Feb-06	0.833	Jan-07	1.420	6.584	
W80 LEP Support, Service STAR	FFP	E-Spectrums, San Antonio TX.				1.000	Feb-05						1.000	
INE Software Subterminal Map Development	Eng Asgn/T& M	Boeing, Seattle, WA.		0.500	Jan-05	0.500	May-05						1.000	
Big Crow Alternative Hardware and Software Developement	CPFF	SAIC, San Diego		1.590	Jan-05								1.590	
Subtotal Product Development Remarks:			0.000	18.096		8.055		1.041		0.833		9.138	0.000 37.163	0.000
(U) Support OC-ALC/PSM W80 Support/PSM								0.085	Jan-06			0.652 1.436		
Subtotal Support Remarks:			0.000	0.000		0.000		0.085		0.000		2.088		0.000
(U) <u>Test & Evaluation</u> Utah Test Range	MIPR			1 902	Nov-04	1.400	Jan-05					0.475	3.677	
49th Test Wing	MIPR				Nov-04 Nov-04	1.400	Jan-05 Jan-05					0.475		
Responsible Test Org	TBD				Nov-04	0.437						0.025		
Eglin AFB	MIPR			0.500	Jun-04							0.000		
49th Test Wing (W-80 LEP)	MIPR			0.595	Jun-04	0.840	May-05	1.124	Jul-06	2.930	Jan-07	4.685	10.174	
None Subtotal Test & Evaluation Remarks:			0.000	4.911		3.677		1.124		2.930		5.635	0.000 18.277	0.000
Project 4797			<u>R-1 Sho</u>	pping List	- Item No.	122-7 of 1	22-10					Exhibi	it R-3 (PE 01	101122F)

Exhibit F	February 2005							
BUDGET ACTIVITY 07 Operational System Development		PE NUMBER AND TITLE 0101122F AIR LAUNCHED CRUISE MISSILE			PROJECT NUMBER AND TITLE 4797 Flight Testing & Navigation Enhancement			
(U) Management							0.000	_
Subtotal Management Remarks:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
(U) Total Cost	0.000	23.007	11.732	2.250	3.763	16.861	57.613	0.000

Project 4797 R-1 Shopping List - Item No. 122-8 of 122-10

Exhibit R-3 (PE 0101122F)

Exhibit R-4, RDT&E Schedule	Profile		DATE February 2005		
BUDGET ACTIVITY 07 Operational System Development			PROJECT NUMBER AND TITLE 4797 Flight Testing & Navigation		
or Operational System Development		Enhand			



Project 4797

R-1 Shopping List - Item No. 122-9 of 122-10

Exhibit R-4 (PE 0101122F)

Exhibit R-4a, RDT	DATE Februa	DATE February 2005			
BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0101122F AIR LAUNCHE MISSILE	PROJECT NUMBER AND TITLE 4797 Flight Testing & Navigation Enhancement			
(U) Schedule Profile	FY 2004	FY 2005	FY 2006	FY 2007	
(U) CATIK Development Milestones		4Q			
(U) Integration/Qual Testing	3Q				
(U) CATIK Production Contract Award		2Q			
(U) Functional/Physical Config Audit		2Q			
(U) 5 Prototype CATIKs delivered		2Q			
(U) Flight Testing		3Q			
(U) Funtional Ground Test (FGT) Contract Award	3Q				
(U) FGT PDR		3Q			
(U) FGT CDR		4Q			
(U) ALCM/W-80 Contract Award	3Q		2Q	3Q	
(U) ALCM/W-80 Ground Test Support	3Q		2Q	3Q	
(U) ALCM/W-80 Flight Test Support	3Q		2Q 2Q	3Q	
(U) INE Software Subterminal Map Development Contract Award	3Q		24	34	
(U) Big Crow Alternative Hardware and Software Development	3Q 3Q				
Project 4797 R	-1 Shopping List - Item No. 122-10 of 122-10		Exhibit R-	4a (PE 0101122F)	