PE NUMBER: 0604851F PE TITLE: ICBM - EMD

	Exhib	DATE	February 2006							
	TACTIVITY tem Development and Demonstrati	•	E NUMBER AND <b>604851F ICB</b>		-					
	Cost (\$ in Millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to	Total		
	Cost (\$ III MIIIIolis)	Actual	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Complete	
	Total Program Element (PE) Cost	94.684	31.948	0.000	0.000	0.000	0.000	0.000	0.000	366.590
133B	Rapid Execution & Combat Targeting (REACT)	14.941	0.000	0.000	0.000	0.000	0.000	0.000	0.000	66.976
4371	Safety Enhanced Reentry Vehicle (SERV) Program	52.391	26.180	0.000	0.000	0.000	0.000	0.000	0.000	230.287
4823	ECS Replacement Program	19.196	0.000	0.000	0.000	0.000	0.000	0.000	0.000	36.280
5080	ICBM Security	8.156	5.768	0.000	0.000	0.000	0.000	0.000	0.000	33.047

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

ICBM modernization efforts will ensure the extension of the operational life of the Minuteman III Intercontinental Ballistic Missile (ICBM) weapon system through 2020.

The Rapid Execution and Combat Targeting (REACT) Program designs and develops the modifications to the weapon system control consoles to correct launch readiness deficiencies.

The Safety Enhanced Reentry Vehicle (SERV) Program designs, develops, and tests the modifications necessary to adapt the Minuteman III Reentry System to accommodate the MK 21 Reentry Vehicle.

The Propulsion System Rocket Engine (PSRE) Life Extension Program (LEP) designs and develops the components necessary to refurbish the Minuteman III post-boost vehicle to correct age-related degradations.

The Environmental Control System (ECS) Replacement Program designs and develops the modifications necessary to refurbish, update, and/or replace components of the current Minuteman III ECS in the Launch Facilities (LFs) and Missile Alert Facilities (MAFs).

The Global Positioning System (GPS) Metric Tracking Capability Program designs and develops the modifications to the Minuteman III Range Instrumentation/Safety Wafer needed to use GPS for obtaining real-time position data to meet test range safety requirements.

The ICBM Support Equipment project designs and develops items used to maintain/modernize the Minuteman III weapons systems base, depot, launch control, and missile test capabilities.

The ICBM Security Program designs and develops the components necessary to counter emerging threats and vulnerabilities identified in the Security Review Document.

R-1 Shopping List - Item No. 93-1 of 93-19

Exhibit R-2 (PE 0604851F)

# DATE Exhibit R-2, RDT&E Budget Item Justification February 2006 BUDGET ACTIVITY PE NUMBER AND TITLE 05 System Development and Demonstration (SDD) 0604851F ICBM - EMD All of these modernization programs are designed to keep the Minuteman III weapon system at its required availability and reliability levels through 2020. This program is in Budget Activity 05 because the projects are being developed for the Air Force but have not received production approval. B. Program Change Summary (\$ in Millions) FY 2005 FY 2006 FY 2007 Previous President's Budget 90.880 0.000 32.415 Current PBR/President's Budget 94.684 31.948 0.000 **Total Adjustments** 3.804 -0.467Congressional Program Reductions 0.000 **Congressional Rescissions** -0.069-0.467Congressional Increases Reprogrammings 6.400 SBIR/STTR Transfer -2.527 Significant Program Changes: None in FY05, None in FY06 R-1 Shopping List - Item No. 93-2 of 93-19 Exhibit R-2 (PE 0604851F)

	Exh	DATE	DATE February 2006									
	BUDGET ACTIVITY  D5 System Development and Demonstration (SDD)					PE NUMBER AND TITLE 0604851F ICBM - EMD			PROJECT NUMBER AND TITLE  133B Rapid Execution & Combat Targeting (REACT)			
	Cost (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to	Total		
	σου (φ m 1/1mσnσ)	Actual	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Complete			
133B	Rapid Execution & Combat Targeting (REACT)	14.941	0.000	0.000	0.000	0.000	0.000	0.000	0.000	66.976		
	Quantity of RDT&E Articles	0	0	(	0	0	0	0				

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

The Rapid Execution and Combat Targeting (REACT) Service Life Extension Program (SLEP) will modify the 50 Minuteman (MM) III Launch Control Centers (LCCs), Weapon System Control Consoles (WSCC) and the 19 other trainer and test facilities that support the MM III Weapon System. Hardware changes include upgrading the Embedded Memory Array Dynamic (EMAD) Card, replacing the Visual Display Units (VDU), and replacing the Head Disk Assembly (HDA) with current technology. The Console Operation Program (COP) software will be modified to correct identified deficiencies currently deployed to the warfighter and will be independently tested to provide Nuclear Surety Cross Check Analysis (NSCCA).

This document is for the RDT&E phase of REACT. The production phase is budgeted under (old and new) Modification # 3413, PE 0101213F.

FY05 was the last year for development funding.

(U) <u>B. Accomplishments/Planned Program (\$ in Millions)</u>	FY 2005	FY 2006	FY 2007
(U) Completed development of COP software, HDA hardware, VDU hardware and EMAD hardware	12.404	0.000	0.000
(U) Completed NSCCA on COP software	2.193	0.000	0.000
(U) Provided other government support	0.344	0.000	0.000
(U) Total Cost	14.941	0.000	0.000
(U) C Other Program Funding Summary (\$ in Millions)			

# Other Frogram Funding Summary (5 m Minions

	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to Total Cost
	<u>Actual</u>	<b>Estimate</b>	<b>Estimate</b>	<b>Estimate</b>	<b>Estimate</b>	<b>Estimate</b>	<b>Estimate</b>	Complete Total Cost
(U) Other APPN								
(U) Missile Procurement - AF (PE								

0101213F, Minuteman

Squadrons, MM III 13.853 0.119 0.000 0.000 0.000 0.000 0.000 0.000 35.755

Modifications, REACT, Mod

#3413) (BA-03, P-011) BP21

NOTE: Procurement data above is only for items being procured as a result of the current RDT&E effort, not total procurement from REACT Program inception.

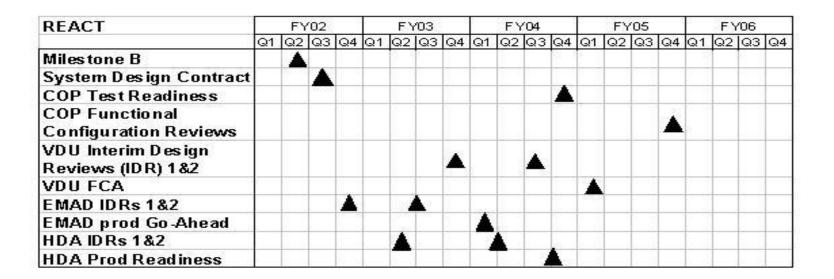
## (U) D. Acquisition Strategy

A Cost Plus Award Fee (CPAF) contract addendum was added to the ICBM Prime Integration Contract in the 3QFY02 for everything but the Nuclear Safety Cross Check Analysis (NSCCA) effort which was contracted for separately under a CPAF contract.

Project 133B R-1 Shopping List - Item No. 93-3 of 93-19 Exhibit R-2a (PE 0604851F

	E	xhibit R-	3, RDT&E P	roject Co	st Anal	ysis						ruary 20	006
	System Development and Demonstration (SDD) 0604851F ICBM - EMD 133B Ra										NUMBER AND TITLE  Apid Execution & Combat  ng (REACT)		
	Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	Contract Method & Type	Performing Activity & Location	<u>Total</u> <u>Prior to FY</u> <u>2005</u> <u>Cost</u>	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 ICBM Prime Integration Contract	CPAF	Northrop Grumman, Clearfield, UT	45.919	12.404	Jan-05	0.000		0.000		0.000	58.323	
(U)	Subtotal Product Development Remarks: Support			45.919	12.404		0.000		0.000		0.000	0.000 58.323	0.000
(0)	NSCCA	CPAF	Logicon (Northrop Grumman), San Pedro, CA	5.121	2.193	Jan-05	0.000		0.000		0.000	7.314	
	SPO/Other Program Support	Various	ICBM Program Office, Hill AFB, UT	0.995	0.344	N/A					0.000	1.339	
	Subtotal Support Remarks:			6.116	2.537		0.000		0.000		0.000	0.000 8.653	0.000
(U)	Test & Evaluation None Subtotal Test & Evaluation Remarks:			0.000	0.000 0.000		0.000 0.000		0.000 0.000		0.000	0.000 0.000	0.000
(U)	Management Subtotal Management			0.000 0.000	0.000 0.000		0.000 0.000		0.000		0.000	0.000 0.000	0.000
(U)	Remarks: Total Cost			52.035	14.941		0.000		0.000		0.000	66.976	0.000
Pr	oject 133B		R	-1 Shopping Li	st - Item No	. 93-4 of 93-	19				Exh	ibit R-3 (PE	0604851F)

Exhibit R-4, RDT&E Sche	edule Profile	DATE February 2006
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0604851F ICBM - EMD	PROJECT NUMBER AND TITLE  133B Rapid Execution & Combat
		Targeting (REACT)



COP = Console Operations Program

EMAD = Embedded Memory Array Display

HDA = Head Disk Assembly

VDU = Visual Display Unit

Project 133B

Exhibit R-4a, RDT&E \$	Exhibit R-4a, RDT&E Schedule Detail							
BUDGET ACTIVITY  05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0604851F ICBM - EMD	133B F	PROJECT NUMBER AND TITLE 133B Rapid Execution & C Targeting (REACT)					
(U) Schedule Profile (U) Visual Display Unit Functional Configuration Audit (FCA) (U) COP Functional Configuration Audit (FCA)	FY 2005 1Q 4Q	Target	FY 2006	FY 2007				
Project 133B R-1 Sh	hopping List - Item No. 93-6 of 93-19		Eyphib is 1	R-4a (PE 0604851F)				

	Exh	DATE February 2006									
	BUDGET ACTIVITY  D5 System Development and Demonstration (SDD)					0604851F ICBM - EMD			PROJECT NUMBER AND TITLE 4371 Safety Enhanced Reentry Vehicle (SERV) Program		
	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	
4371	Safety Enhanced Reentry Vehicle (SERV) Program	52.391	26.180	0.000		0.000	0.000	0.000	0.000	230.287	
	Quantity of RDT&E Articles	0	0	(	0	0	0	0			

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

The SERV program will modify the Minuteman III (MMIII) Reentry System (RS) to accept the Peacekeeper MK21 warhead, thus keeping the newest and safest warhead in the inventory. The MK21 will be deployed on MM III prior to the phase out of the MK12 warhead which is being driven by the pending decertification of this warhead by the Department of Energy (DOE). The SERV will modify the RS to accommodate differences in electrical and mechanical interfaces, system software, support equipment, and trainers along with nuclear surety and human intent certification. Test articles will be developed to support development and qualification testing, flight testing, systems integration, and weapon system-level testing. This document is for the RDT&E phase of SERV. The production phase is budgeted under Modification # 5911, PE 0101213F.

This program is in Budget Activity 05 because it is being developed for the Air Force but has not yet received full production approval.

( <b>U</b> )	B. Accomplishments/Planned Pro	<u>gram (\$ in Mill</u>	<u>ions</u> )				<u>FY</u>	2005	<u>FY 2006</u>	<u>FY 2007</u>
(U)	Continued design of the MM III air	borne vehicle eq	uipment (AVE)	hardware and se	oftware needed	for the MK21 RV	1	3.685	5.927	0.000
(U)	Continued development of the MM	III command an	d launch equipr	nent software ne	eeded for the MI	K21 RV		7.350	0.000	0.000
(U)	Continued NSCCA on SERV softw	rare						5.620	0.000	0.000
(U)	Completed design of the MM III su	pport equipment	needed for the	MK21 RV				1.691	0.000	0.000
(U)	Continued system test and evaluation	on for all newly o	designed/develo	ped hardware/so	oftware		1	1.669	5.220	0.000
(U)	Continued development of trainers/	training needed t	for employing th	he MK21 RV on	the MM III			2.971	1.451	0.000
(U)	Conducted initial flight testing							9.205	13.282	0.000
(U)	Provide other government support							0.200	0.300	0.000
(U)	Total Cost						5	2.391	26.180	0.000
( <b>U</b> )	C. Other Program Funding Summ	nary (\$ in Millio	ns)							
		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to	Total Cost
		<u>Actual</u>	<b>Estimate</b>	<b>Estimate</b>	<b>Estimate</b>	<b>Estimate</b>	<b>Estimate</b>	<b>Estimate</b>	<u>Complete</u>	Total Cost
(U)	Other APPN									
(U)	Missile Procurement - AF (PE									
	0101213F, Minuteman	55.135	58.895	67.304	64.882	48.300	0.000	0.000	0.000	314.802
	Squadrons, MM III	33.133	56.675	07.304	0 F.002	10.500	0.000	3.000	0.000	311.002
	Modifications, Safety Enhanced									
Pro	oject 4371		R-	-1 Shopping List -	Item No. 93-7 of 9	3-19			Exhibit R-2a (I	PE 0604851F)
	•								,	

		UNCLASSIFIED	
	Exhibit R-2a, RDT&E P	Project Justification	DATE February 2006
	T ACTIVITY stem Development and Demonstration (SDD)	PE NUMBER AND TITLE 0604851F ICBM - EMD	PROJECT NUMBER AND TITLE 4371 Safety Enhanced Reentry Vehicle (SERV) Program
Re	eentry Vehicle, Mod #5911) 3A-03, P-012)		
Α	. Acquisition Strategy  Cost Plus Incentive Fee with Award Fee (CPIF/AF) contract addendately Cross Check Analysis (NSCCA) effort which was contracted for		actor (IPIC) for everything but the Nuclear

Exhibit R-2a (PE 0604851F)

Project 4371

	E	xhibit R-	3, RDT&E F	roject Co	st Anal	ysis				D,	Feb	ruary 20	006
	GET ACTIVITY  System Development and Demonst	ration (SD	D)			JMBER ANI 1851F ICE			4	371 Safe	T NUMBER AND TITLE afety Enhanced Reentry e (SERV) Program		
	Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	Contract Method & Type	Performing Activity & Location	<u>Total</u> <u>Prior to FY</u> <u>2005</u> <u>Cost</u>	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 ICBM Prime Integration Contract	CPIF/AF	Northrop Grumman, Clearfield, UT	133.761	37.366	Dec-04	17.033	Jan-06	0.000		0.000	188.160	
(II)	Subtotal Product Development Remarks:			133.761	37.366		17.033		0.000		0.000	0.000 188.160	0.000
	Support NSCCA SPO/Other Program Support	CPAF Various	Logicon, San Pedro, CA ICBM Program	16.105	5.620	Jan-05	0.000	N/A	0.000		0.000	21.725	
	SFO/Other Flogram Support	various	Office, Hill AFB, UT	1.850	0.200	N/A	0.300	N/A			0.000	2.350 0.000	
(U)	Subtotal Support Remarks: Test & Evaluation			17.955	5.820		0.300		0.000		0.000	24.075	0.000
(0)	Vandenberg AFB	Project Order	Air Force test team at Vandenberg AFB CA (AFOTEC,AF SPC, 576th Flight Test Sq, DOE)		9.205	N/A	8.847	N/A	0.000		0.000	18.052	
(U)	None Subtotal Test & Evaluation Remarks:		502)	0.000	9.205		8.847		0.000		0.000	0.000 18.052	0.000
(0)	Management Subtotal Management Remarks:			0.000	0.000		0.000		0.000 0.000		0.000	0.000 0.000	0.000
(U)	Total Cost			151.716	52.391		26.180		0.000		0.000	230.287	0.000
Pro	oject 4371		R	-1 Shopping Lis	st - Item No	. <u>93-9 of 9</u> 3-	19				Exh	ibit R-3 (PE	0604851F)

# Exhibit R-4, RDT&E Schedule Profile BUDGET ACTIVITY 05 System Development and Demonstration (SDD) PE NUMBER AND TITLE 0604851F ICBM - EMD PROJECT NUMBER AND TITLE 4371 Safety Enhanced Reentry Vehicle (SERV) Program

# Safety Enhanced Reentry Vehicle Program

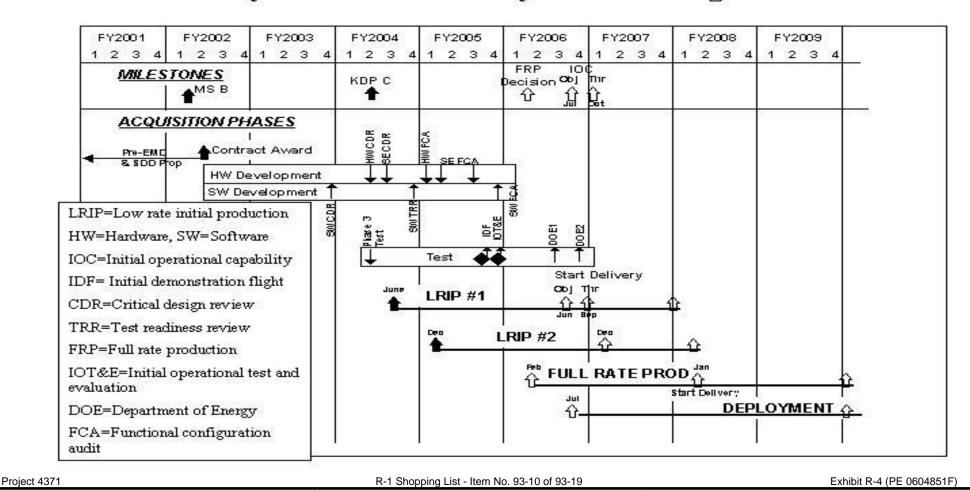


Exhibit R-4a, RDT&E	Schedule Detail	DATE <b>Febr</b>	DATE February 2006		
BUDGET ACTIVITY  05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE  0604851F ICBM - EMD	PROJECT NUMBER AND TITLE 4371 Safety Enhanced Reentry Vehicle (SERV) Program			
<ul> <li>(U) Schedule Profile</li> <li>(U) Flight Hardware Functional Configuration Audit</li> <li>(U) Initial Demonstration Flight</li> <li>(U) Flight Test #2</li> </ul>	FY 2005 1Q 4Q 4Q	<u>FY 2006</u>	FY 2007		
(U) Department of Energy Flight Test #1 (U) Initial Operating Capability	TV.	3Q 4Q			
Project 4371 R-1 S	Shopping List - Item No. 93-11 of 93-19	Exhibi	it R-4a (PE 0604851F)		

	Exh	DATE	February 2006							
	T ACTIVITY stem Development and Demonstrat		PE NUMBER AND 0604851F ICB				MBER AND TITLE Replacement Program			
	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
4823	ECS Replacement Program	19.196	0.000	0.000	0.000	0.000	0.000	0.000	0.000	36.280
	Quantity of RDT&E Articles	0	0	0	0	0	0	0		

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

The Minuteman III Environmental Control System (ECS) Replacement Program will replace the failing 1960's ECS equipment. The existing ECS is adversely affecting weapon system availability as well as driving increased support costs due to high failure rates, non-availability of replacement parts, and a lack of diagnostic capabilities. This program will replace the existing ECS equipment in MM III Launch Facilities (LFs), Missile Alert Facilities (MAFs), and test and trainer sites with modern equipment to extend the life of ECS to 2020. This document is for the RDT&E phase of ECS. The production phase is budgeted under Modification #5739, PE 0101213F.

FY05 was the last year for development funding.

(U)	B. Accomplishments/Planned Program (\$ in Millions)	FY 2005	FY 2006	FY 2007
(U)	Provided other government support	0.556	0.000	0.000
(U)	Completed design and development of ECS components	2.375	0.000	0.000
(U)	Completed test and evaluation of ECS components	14.731	0.000	0.000
(U)	) Completed diagnostics and retest efforts	1.534	0.000	0.000
(U)	) Total Cost	19.196	0.000	0.000

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

		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	<u>FY 2010</u>	FY 2011	Cost to	Total Cost
		<u>Actual</u>	<b>Estimate</b>	<b>Estimate</b>	<b>Estimate</b>	<b>Estimate</b>	<b>Estimate</b>	<b>Estimate</b>	<u>Complete</u>	Total Cost
(U)	Other APPN									
(U)	Missile Procurement - AF (PE									
	0101213F, Minuteman									
	Squadrons, MM III	0.000	29.681	62.850	62.579	62.456	61.802	5.031	0.000	284.399
	Modifications, Environmental	0.000	29.001	02.830	02.379	02.430	01.802	3.031	0.000	204.333

EX7.2000

# Control System Modification, Mod #5739) (BA-03, P-011)

(U) D. Acquisition Strategy

The ECS Replacement Program is being conducted under the ICBM Prime Integration Contractor (IPIC). The effort will be completed on a Cost Plus Award Fee (CPAF) contract.

Project 4823 R-1 Shopping List - Item No. 93-12 of 93-19

TW 2006

Exhibit R-2a (PE 0604851F)

	E	xhibit R-	3, RDT&E F	Project Co	st Anal	ysis				D <i>A</i>	TE Feb	ruary 20	006
	DGET ACTIVITY  System Development and Demonst	tration (SD	D)								UMBER ANI Replacer	O TITLE	
	Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY  2005 Cost	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 ICBM Prime Integration Contract	CPAF	Northrop Grumman, Clearfield, UT	15.795	18.640	Jan-05	0.000		0.000		0.000	34.435 0.000	
(U)	Subtotal Product Development Remarks: Support			15.795	18.640		0.000		0.000		0.000	34.435	0.000
	SPO/Other Program Support	Various	ICBM Program Office, Hill AFB, UT	1.289	0.556	N/A	0.000		0.000		0.000	1.845	
(U)	Subtotal Support Remarks: Test & Evaluation			1.289	0.556		0.000		0.000		0.000	0.000 1.845	0.000
(0)	None None Subtotal Test & Evaluation			0.000	0.000		0.000		0.000		0.000	0.000 0.000 0.000	0.000
(U)				0.000	0.000		0.000		0.000		0.000	0.000	0.000
(U)	Subtotal Management Remarks: Total Cost			0.000 17.084	0.000 19.196		0.000		0.000		0.000	0.000 36.280	0.000
Pr	roject 4823		R	-1 Shopping Lis	t - Item No.	93-13 of 93	-19				Exh	ibit R-3 (PE	0604851F)

Exhibit R-4, RDT&E Schedule	Profile	Profile				
BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJEC <sup>*</sup>	T NUMBER AND TITLE			
05 System Development and Demonstration (SDD)	0604851F ICBM - EMD	4823 E	CS Replacement Program			

ICBM Environmental Control System		EX	103	- 50	FY04			- 500	FY05			- 22	FY06			
	Q1	022	Q3	04	Q1	02	Q3	04	Q1	02	Q3	04	Q1	022	Q3	04
Milestone B		1				1.				1.	- I					
Contract Award										II.				II.		
Preliminary Design Review		II.								I				I		
Critical Design Review		I			******				$\blacksquare$	I		See I		II.		
Functional Configuration Audit	1	II.								II.	. 8			II.		
Physical Configuration Audit		II.								II.			•	TI.		
Begin Production		J.								Ji .				1	7	

Project 4823

R-1 Shopping List - Item No. 93-14 of 93-19

Exhibit R-4 (PE 0604851F)

Exhibit R-4a, RDT&E	DATE February 2006	
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)		ROJECT NUMBER AND TITLE 323 ECS Replacement Program
(U) Schedule Profile (U) Critical Design Review (U) Functional Configuration Audit	<u>FY 2005</u> 1Q 4Q	FY 2006 FY 2007
(U) Physical Configuration Audit		1Q
Project 4823 R-1	Shopping List - Item No. 93-15 of 93-19	Exhibit R-4a (PE 0604851F)

	Exh	DATE	TE February 2006							
	TACTIVITY stem Development and Demonstrat		PE NUMBER AND 0604851F ICB							
	Cost (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to	Total
	Cost (\$ iii Willions)	Actual	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Complete	
5080	ICBM Security	8.156	5.768	0.000	0.000	0.000	0.000	0.000	0.000	33.047
	Quantity of RDT&E Articles	0	0	0	0	0	0	0		

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

The ICBM Security program will design and develop the features necessary to modernize launch facility (LF) security systems. Modernized ICBM security systems will mitigate emerging threat technologies and methods, and will address the potential vulnerabilities identified in Air Force security reviews.

This document is for the RDT&E phase of ICBM Security and is in Budget Activity 05. The Production portion of the program is under PE 0101213F.

(U)	B. Accomplishments/Planned Program (\$ in Millions)	FY 2005	FY 2006	FY 2007
(U)	Component design, development and evaluation	7.996	5.608	0.000
(U)	Provide other government support	0.160	0.160	0.000
(U)	) Total Cost	8.156	5.768	0.000

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

		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to	Total Cost
		<u>Actual</u>	<b>Estimate</b>	<b>Estimate</b>	<b>Estimate</b>	<b>Estimate</b>	<b>Estimate</b>	<b>Estimate</b>	<u>Complete</u>	Total Cost
(U) Mi	ssile Procurement AF, PE									
010	01213F, Minuteman									
Squ	adrons, MMIII	39.012	40.924	76.078	74.381	68.888	55.648	27.997	Continuing	TBD
Mo	difications, ICBM Security,									

# (U) D. Acquisition Strategy

Mod 5914 (BA-03, P-012)

The Security effort will be managed under a CPAF contract with the ICBM Prime Integration Contractor (IPIC).

Project 5080

R-1 Shopping List - Item No. 93-16 of 93-19

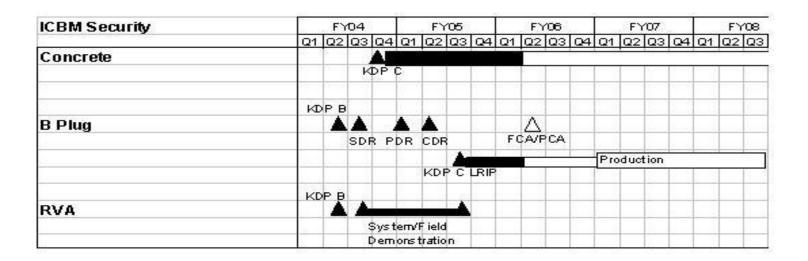
Exhibit R-2a (PE 0604851F)

I	Exhibit R-	3, RDT&E F	roject Co	st Anal	ysis				DA	TE Feb	ruary 20	06
BUDGET ACTIVITY  05 System Development and Demons	tration (SD	D)			JMBER ANI 1851F ICE	D TITLE B <b>M - EMD</b>				ECT NUMBER AND TITLE ICBM Security		
U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2005 Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	<u>FY 2007</u> <u>Cost</u>	FY 2007 Award Date	Cost to Complete	Total Cost	Target Valu of Contrac
U) Product Development ICBM Prime Integration Contract	CPAF	Northrop Grumman, Clearfield, UT	18.946	7.996	Jan-05	5.608	Jan-06	0.000		0.000	32.550	
Subtotal Product Development Remarks:			18.946	7.996		5.608		0.000		0.000	0.000 32.550	0.00
U) Support SPO/Other Program Support	Various	ICBM Program Office,Hill AFB, UT	0.177	0.160	N/A	0.160	N/A	0.000		0.000	0.497	
Subtotal Support Remarks: U) Test & Evaluation		, -	0.177	0.160		0.160		0.000		0.000	0.497	0.00
Subtotal Test & Evaluation Remarks:			0.000	0.000		0.000		0.000		0.000	0.000 0.000	0.00
U) Management  Subtotal Management  Remarks:			0.000	0.000		0.000		0.000		0.000	0.000 0.000	0.00
U) Total Cost			19.123	8.156		5.768		0.000		0.000	33.047	0.00

Project 5080

Exhibit R-3 (PE 0604851F)

Exhibit R-4, RDT&E Sched	February 2006		
BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJEC <sup>*</sup>	T NUMBER AND TITLE
05 System Development and Demonstration (SDD)	0604851F ICBM - EMD	5080 IC	BM Security



Acronyms: KDP = Key Decision Point

SDR = System Design Review PDR = Preliminary Design Review CDR = Critical Design review

FCA/PCA = Functional/Physical Configuration Audit

LRIP = Low Rate Initial Production RVA = Remote V isual Assessment

Project 5080

R-1 Shopping List - Item No. 93-18 of 93-19

Exhibit R-4 (PE 0604851F)

Exhibit R-4a, RDT&E Schedule Detail		DATE <b>February 2006</b>
BUDGET ACTIVITY  05 System Development and Demonstration (SDD)		PROJECT NUMBER AND TITLE
(U) Schedule Profile (U) Preliminary Design Review B Plug (U) Critical Design Review B Plug	<u>FY 2005</u> 1Q 2Q	FY 2006 FY 2007
(U) Functional Configuration Audit B Plug (U) Remote Visual Assessment Field Demonstration	3Q	2Q
Project 5080 R-1 S	Shopping List - Item No. 93-19 of 93-19	Exhibit R-4a (PE 0604851F)