

Exhibit R-2a, RD&E Project Justification

DATE
February 2007

BUDGET ACTIVITY		PE NUMBER AND TITLE		PROJECT NUMBER AND TITLE						
04 Advanced Component Development and Prototypes (ACD&P)		0603851F ICBM - DEM/VAL		4209 Long Range Planning (LRP)						
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
4209 Long Range Planning (LRP)	15.734	18.018	0.947	0.920	0.906	0.882	0.899	0.918	Continuing	TBD
Quantity of RD&E Articles	0	0	0	0	0	0	0	0		

(U) A. Mission Description and Budget Item Justification

The Long Range Planning (LRP) task analyzes ICBM systems to identify potential modifications required to meet user objectives relative to long term sustainment, technology insertion, employment, and force structure. The studies focus on system supportability, operability, reliability, and maintainability. Options/concepts generated by these studies are evaluated for feasibility, system impacts, and cost. The LRP also lays the groundwork for analysis supporting future ICBM weapon systems development and deployment.

This program is in Budget Activity 04 - Advanced Component Development and Prototypes because the efforts demonstrate technology, component, and subsystem maturity, and provide risk reduction.

	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Cost to Complete	FY 2009
(U) B. Accomplishments/Planned Program (\$ in Millions)										
(U) Continue support of the consolidated ICBM Master Plan	0.477	0.473							0.437	0.408
(U) Continue feasibility and life extension studies	0.507	0.520							0.510	0.512
(U) Completed Analysis of Alternatives (AoA) and pre-systems acquisition planning for follow on Land-Based Strategic Deterrent (LBSD) capability	0.000	0.000							0.000	0.000
(U) Continue LBSD capability concept refinement and pre-Milestone A activities	4.750	5.025							0.000	0.000
(U) Conduct conventional ballistic missile systems engineering studies	5.000	12.000							0.000	0.000
(U) Conduct adaptive missile engineering modernization	5.000	0.000							0.000	0.000
(U) Total Cost	15.734	18.018							0.947	0.920
(U) C. Other Program Funding Summary (\$ in Millions)										
(U) None										
(U) D. Acquisition Strategy										

Studies and analyses will be accomplished; efforts will be conducted using contracting strategies deemed most appropriate, generally using competitive cost plus contracts.

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis

DATE

February 2007

BUDGET ACTIVITY
04 Advanced Component Development and Prototypes (ACD&P)

PE NUMBER AND TITLE
0603851F ICBM - DEM/VAL

PROJECT NUMBER AND TITLE
4209 Long Range Planning (LRP)

(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2006 Cost	EY 2006		EY 2007		EY 2008		EY 2009		EY 2009 Award Date	Cost to Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date				
(U) Product Development ICBM Prime Integration Contract	C/CPAF	Northrop Grumman, Clearfield UT	0.162	Jan-06	0.167	Jan-07	0.167	Jan-08	0.172	Jan-09	Continuing	0.000	TBD	TBD	
Conventional Ballistic Missile System Engineering Studies	C/CPAF	Northrop Grumman, San Bernardino CA	4.291	Aug-06	11.626	May-07	0.000	N/A	0.000	N/A	0.000	0.000	15.917	5.000	
Adaptive Missile Engineering Modernization	C/CPAF	Northrop Grumman, San Bernardino CA	4.982	May-06	0.000	N/A	0.000	N/A	0.000	N/A	0.000	0.000	4.982	5.000	
Studies LBSD Analysis of Alternatives & pre-acquisition planning	Various	Various	0.032	Jan-06	0.488	Jan-07	0.580	Jan-08	0.548	Jan-09	Continuing	0.000	TBD	TBD	
LBSD concept refinement and pre-Milestone A activities	Various	Various	0.000	N/A	0.000	N/A	0.000	N/A	0.000	N/A	0.000	0.000	0.000	10.237	
Subtotal Product Development	Various	Various	1.766	Oct-05	1.305	Oct-06	0.000	N/A	0.000	N/A	0.000	0.000	3.071	10.046	
Remarks: (U) Support SPO/Other program support	Various	826 ICBMMSG, Hill AFB UT	0.000		11.233		13.586		0.747		0.720	Continuing	TBD	TBD	
Subtotal Support			0.000	4.501	Jan-06	4.432	Jan-07	0.200	Jan-08	0.200	Jan-09	Continuing	TBD	TBD	
Remarks: (U) Total Cost			0.000	4.501		4.432		0.200		0.200		Continuing	TBD	TBD	
			0.000	15.734		18.018		0.947		0.920		Continuing	TBD	TBD	

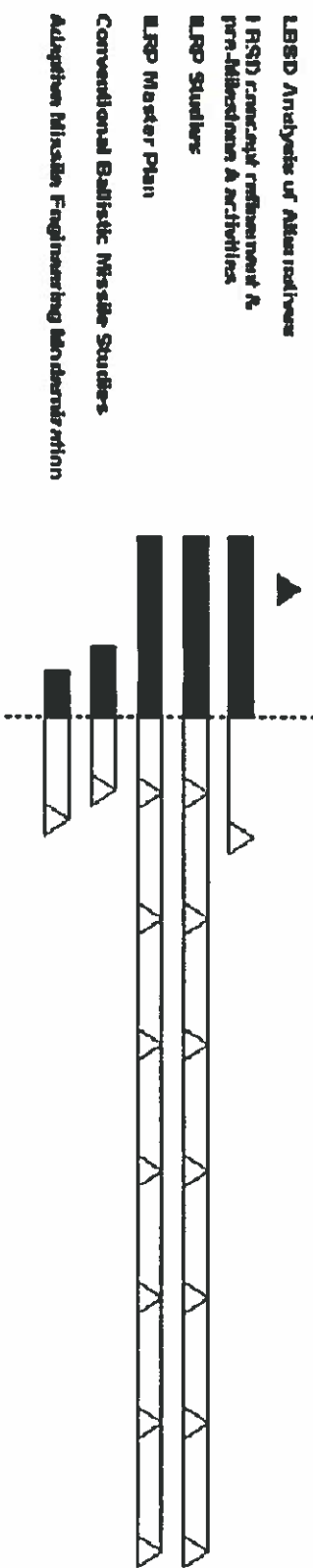
Exhibit R-4, RDT&E Schedule Profile

DATE February 2007

BUDGET ACTIVITY 04 Advanced Component Development and Prototypes (ACD&P) PE NUMBER AND TITLE 0803851F ICBM - DEM/VAL PROJECT NUMBER AND TITLE 4209 Long Range Planning (LRP)

Long Range Planning

	FY06			FY07			FY08			FY09			FY10			FY11			FY12			FY13														
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4



△ Report/Review/Analysis

LRP
ICBM
Long Range
Planning
LRP
LRP

UNCLASSIFIED

Exhibit R-4a, RDT&E Schedule Detail

DATE
February 2007

BUDGET ACTIVITY
04 Advanced Component Development and Prototypes (ACD&P)

PE NUMBER AND TITLE
0603851F ICBM - DEM/VAL

PROJECT NUMBER AND TITLE
4209 Long Range Planning (LRP)

	EY 2006	EY 2007	EY 2008	EY 2009
(U) Schedule Profile				
(U) Contract Award for Annual Studies/Analyses	2Q	2Q	2Q	2Q
(U) --Program Reviews/ Reports Received	4Q	4Q	4Q	4Q
(U) LBSD Analysis of Alternatives & pre-acquisition planning	2Q			
(U) -- AOA Report	2Q			
(U) LBSD Concept Refinement and pre-Milestone A activities	1-4Q	1-4Q	1-3Q	
(U) Conventional ballistic missile system engineering study	4Q	1-4Q		
(U) Adaptive missile engineering modernization	4Q	1-3Q		

UNCLASSIFIED

LBSD 10C 2018
 'Fate of Ball Missile' EA Miller & AS Task 6

Exhibit R-3, RD&E Project Cost Analysis

DATE February 2006

0603

BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT NUMBER AND TITLE
04 Advanced Component Development and Prototypes (ACD&P)	0603851F ICBM - DEM/VAL	4209 Long Range Planning (LRP)

(U) Cost Categories (Traitor to WBS, or System/Item Requirements) (\$ in Millions)	Contract Method & Type	Performing Activity & Location	Prior to FY 2005 Cost	EY 2005 Cost	EY 2005 Award Date	EY 2006 Cost	EY 2006 Award Date	EY 2007 Cost	EY 2007 Award Date	Cost to Complete	Total Cost	Target Value of Contract
(U) Product Development ICBM Prime Integration Contract	C/CPAF	Northrop Grumman, Clearfield UT	8,605	0,491	Dec-04	0,332	Jan-06	0,330	Jan-07	Continuing	TBD	TBD
Conventional Ballistic Missile System Engineering Studies	C/CPAF	Northrop Grumman, San Bernardino CA	0,000	0,000	N/A	5,000	May-06	0,000	N/A	0,000	5,000	5,000
Adaptive Missile Engineering Modernization	C/CPAF	Northrop Grumman, San Bernardino CA	0,000	0,000	N/A	5,000	May-06	0,000	N/A	0,000	5,000	5,000
Studies Land Based Strategic Deterent (LBSD) AOA and pre-systems acquisition planning	MIPR/PO	Various	1,110	0,000	N/A	0,507	Jan-06	0,525	Jan-07	Continuing	TBD	TBD
LBSD concept refinement and pre-Milestone A activities	Various	Various	5,437	4,800	Jan-05	0,000	N/A	0,000	N/A	0,000	10,237	10,237
Subtotal Product Development	Various	Various	0,000	0,000	N/A	4,953	Oct-05	5,093	Oct-06	0,000	10,046	10,046
Remarks: (U) Support SPO/Other program support	Various	526th Acquisition Group, Hill AFB UT	15,152	5,291		15,792		5,948		Continuing	TBD	TBD
Subtotal Support			2,782	0,145	Jan-05	0,145	Jan-06	0,138	Jan-07	Continuing	TBD	TBD
Remarks: (U) Test & Evaluation None			2,782	0,145		0,145		0,138		Continuing	TBD	0,000
Subtotal Test & Evaluation			0,000	0,000		0,000		0,000		0,000	0,000	0,000
Remarks: (U) Management			0,000	0,000		0,000		0,000		0,000	0,000	0,000
Subtotal Management			0,000	0,000		0,000		0,000		0,000	0,000	0,000
Remarks: (U) Total Cost			17,934	5,436		15,937		6,086		Continuing	TBD	TBD

Project 4209 R-1 Shopping List - Item No. 51-24 of 51-26 656 UNCLASSIFIED Exhibit R-3 (PE 0603851F)

Approved by [Signature] 10/20/05
 Approved by [Signature] 10/20/05

P70.

Exhibit R-4, RDT&E Schedule Profile

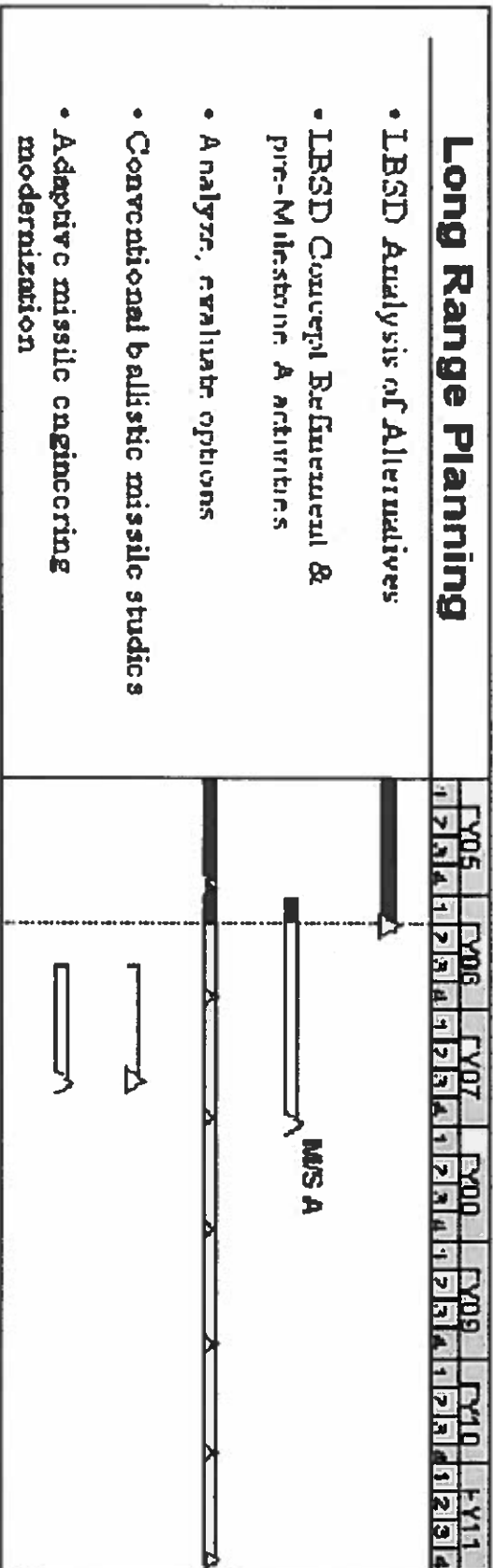
DATE

February 2006

BUDGET ACTIVITY
04 Advanced Component Development and Prototypes (ACD&P)

PE NUMBER AND TITLE
0603851F ICBM - DEM/VAL

PROJECT NUMBER AND TITLE
4209 Long Range Planning (LRP)



Major Test Event



Report/Review/Analysis



Prototype Hardware Delivery

the 2005 Quadrennial Defense Review (QDR), the Defense Department agreed with U.S. Strategic Command (USSTRATCOM) recommendation to reduce the ICBM force from 500 to 450.

The FY07 National Defense Authorization Act (NDAA) mandated that the Air Force modernize MMIII ICBMs in the United States inventory as required to maintain a sufficient supply of launch test assets and spares to sustain the deployed force of such missiles through 2030. The Air Force has ongoing Life Extension Programs designed to extend ICBM service life beyond 2020. Additionally, the Air Force is currently analyzing MMIII missile and ground systems to determine what activities are required to sustain the force through 2030.

The Air Force plans to use an incremental approach to field an ICBM follow-on system that will address aging components while supporting COCOM requirements. The Office of the Secretary of Defense Land-Based Strategic Deterrent Overarching Integrated Product Team will review an initial system assessment in August 2007. The USAF Land-Based Strategic Deterrent Initiative will be addressed in the FY10 Program Objective Memorandum (POM). The AF will complete the concept refinement and pre-Milestone A activities this year.

ICBM Demonstration Validation

Responsive infrastructure is a key component of the New Triad and serves as a backstop that allows us to reduce the nuclear arsenal without compromising our strategic deterrent posture. A comprehensive and aggressive demonstration validation program adds to the deterrent value of the force. The ICBM Demonstration Validation Program is at the core of our efforts to preserve our ballistic missile capability. It allows us to respond to emerging issues in the Minuteman fleet while identifying methods to reduce life cycle costs and improve nuclear safety and surety. The unique capabilities exercised by this Program are essential to keep the Minuteman weapon system operationally viable through 2030.