



Selected Acquisition Report (SAR)

RCS: DD-A&T(Q&A)823-248



Minuteman III Propulsion Replacement Program (PRP) (MINUTEMAN III PRP)

As of FY 2011 President's Budget

Defense Acquisition Management
Information Retrieval
(DAMIR)

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Common Acronyms and Abbreviations for MDAP Programs

Acq O&M - Acquisition-Related Operations and Maintenance
ACAT - Acquisition Category
ADM - Acquisition Decision Memorandum
APB - Acquisition Program Baseline
APPN - Appropriation
APUC - Average Procurement Unit Cost
\$B - Billions of Dollars
BA - Budget Authority/Budget Activity
Blk - Block
BY - Base Year
CAPE - Cost Assessment and Program Evaluation
CARD - Cost Analysis Requirements Description
CDD - Capability Development Document
CLIN - Contract Line Item Number
CPD - Capability Production Document
CY - Calendar Year
DAB - Defense Acquisition Board
DAE - Defense Acquisition Executive
DAMIR - Defense Acquisition Management Information Retrieval
DoD - Department of Defense
DSN - Defense Switched Network
EMD - Engineering and Manufacturing Development
EVM - Earned Value Management
FOC - Full Operational Capability
FMS - Foreign Military Sales
FRP - Full Rate Production
FY - Fiscal Year
FYDP - Future Years Defense Program
ICE - Independent Cost Estimate
IOC - Initial Operational Capability
Inc - Increment
JROC - Joint Requirements Oversight Council
\$K - Thousands of Dollars
KPP - Key Performance Parameter
LRIP - Low Rate Initial Production
\$M - Millions of Dollars
MDA - Milestone Decision Authority
MDAP - Major Defense Acquisition Program
MILCON - Military Construction
N/A - Not Applicable
O&M - Operations and Maintenance
ORD - Operational Requirements Document
OSD - Office of the Secretary of Defense
O&S - Operating and Support
PAUC - Program Acquisition Unit Cost

PB - President's Budget
PE - Program Element
PEO - Program Executive Officer
PM - Program Manager
POE - Program Office Estimate
RDT&E - Research, Development, Test, and Evaluation
SAR - Selected Acquisition Report
SCP - Service Cost Position
TBD - To Be Determined
TY - Then Year
UCR - Unit Cost Reporting
U.S. - United States
USD(AT&L) - Under Secretary of Defense (Acquisition, Technology and Logistics)

Program Information

Program Name

Minuteman III Propulsion Replacement Program (PRP) (Minuteman III PRP)

DoD Component

AirForce

Responsible Office

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Date

Assigned: December 4, 2008

References

SAR Baseline (Production Estimate)

Air Force Acquisition Executive (AFAE) Approved Acquisition Program Baseline (APB) dated September 10, 2001

Approved APB

AFAE Approved Acquisition Program Baseline (APB) dated September 10, 2001

Mission and Description

The Propulsion Replacement Program (PRP) extends the life, maintains the performance, and improves the reliability of the Minuteman III missile fleet by replacing the motors prior to the onset of age-out. The solid propulsion systems began aging out in 2002 and are being replaced in order to support current force planning. PRP was executed in two phases, Technology Insertion (TI) and production. During the TI phase, new materials and manufacturing processes were qualified to replace unavailable or environmentally prohibited materials. Additionally, known failure modes and design weaknesses were corrected by incrementally inserting and qualifying current rocket motor technologies. PRP reuses existing components to the greatest extent possible. During production, the solid rocket motors, interstage hardware, and ordnance items are recycled from the force and remanufactured at a rate up to eight boosters per month during the period 2000 through 2009.

PRP software changes were incorporated because of material changes incorporated in motor manufacturing. Because both the Stage 2 liquid-injection thrust vector control injectant and Stage 3 motor case must be replaced, the missile control dynamics, mass properties, and propulsion characterization programs were also modified to ensure a controlled flight.

The 526th Intercontinental Ballistic Missile (ICBM) Systems Group contracted Northrop Grumman Missions Systems, the ICBM Prime Integration Contract, of Clearfield, UT, for the project. The remanufacture of solid rocket motors, interstage hardware, and ordnance work was initially performed by two major sub-contractors via the Joint Venture arrangement between Alliant Techsystems (ATK) and Pratt and Whitney (P&W), Chemical Systems Division. Two major production incidents resulted in a shut down of operations at P&W. In 2004, the production of Stage 2 and 3 motors transferred to ATK's facility in Magna, UT. Stage 1 motors are refurbished at ATK in Brigham City, UT.

Ogden Air Logistics Center depot workload responsibilities include disassembly and assembly of the booster and repair/refurbishment of flight controls.

Executive Summary

This SAR constitutes the Propulsion Replacement Program's (PRP) final SAR submission in accordance with section 2432, title 10, United States Code. PRP achieved 100% motor set deliveries on August 26, 2009.

PRP delivered the required 601 booster sets during the period FY 2000 to FY 2009. All 42 Low Rate Initial Production motor sets were successfully delivered.

All Stage 1, Stage 2 and Stage 3 motors have been delivered and the last downstage install was completed at F.E. Warren Air Force Base on November 5, 2009. PRP has successfully completed its mission.

Threshold Breaches

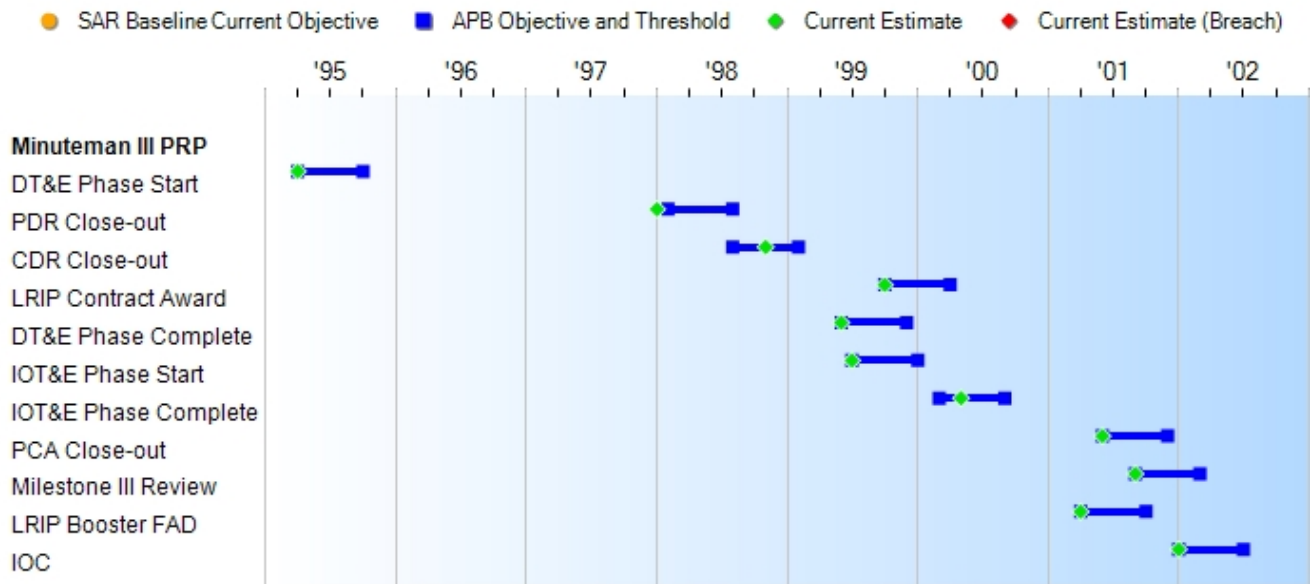
APB Breaches

- Schedule
- Performance
- Cost
 - RDT&E
 - Procurement
 - MILCON
 - Acq O&M
- O&S Cost
- Unit Cost
 - PAUC
 - APUC

Nunn-McCurdy Breaches

- Current UCR Baseline**
 - PAUC None
 - APUC None
- Original UCR Baseline**
 - PAUC None
 - APUC None

Schedule



Schedule Events				
Events	SAR Baseline Production Estimate	Current APB Production Objective/Threshold	Current Estimate	
DT&E Phase Start	Apr 1995	Apr 1995	Oct 1995	Apr 1995
PDR Close-out	Feb 1998	Feb 1998	Aug 1998	Jan 1998
CDR Close-out	Aug 1998	Aug 1998	Feb 1999	Nov 1998
LRIP Contract Award	Oct 1999	Oct 1999	Apr 2000	Oct 1999
DT&E Phase Complete	Jun 1999	Jun 1999	Dec 1999	Jun 1999
IOT&E Phase Start	Jul 1999	Jul 1999	Jan 2000	Jul 1999
IOT&E Phase Complete	Mar 2000	Mar 2000	Sep 2000	May 2000
PCA Close-out	Jun 2001	Jun 2001	Dec 2001	Jun 2001
Milestone III Review	Sep 2001	Sep 2001	Mar 2002	Sep 2001
LRIP Booster FAD	Apr 2001	Apr 2001	Oct 2001	Apr 2001
IOC	Jan 2002	Jan 2002	Jul 2002	Jan 2002

Change Explanations

None

Acronyms and Abbreviations

CDR - Critical Design Review

DT&E - Developmental Test and Evaluation

FAD - First Asset Delivery

IOC - Initial Operational Capability

IOT&E - Initial Operational Test and Evaluation

LRIP - Low Rate Initial Production

PCA - Physical Configuration Audit

PDR - Preliminary Design Review

Performance

Performance Characteristics				
SAR Baseline Production Estimate	Current APB Production Objective/Threshold	Demonstrated Performance	Current Estimate	
Nuclear Hardness and Survivability (NH&S) (Each Stage)				
Silo: Peace keeper In Flight: SICBM Hardness Levels Wpn sys spec hardnes s levels	Silo: Peace-keeper In Flight: SICBM Hardness Levels wpn sys spec hardness levels	MMIII Wpn Sys Spec Hardness Levels	MMIII Wpn sys spec hardness levels	MMIII Wpn sys spec hardness levels
Service Life (Each Stage) (yrs)				
30	30	17	TBD*	17

Classified Performance information is provided in the classified annex to this submission.

Change Explanations

None

Notes

Track to Budget

RDT&E

Appn	BA	PE
------	----	----

Air Force 3600 05 0604851F

Project	Name
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4851 ICBM - EMD

(Sunk)

Procurement

Appn	BA	PE
------	----	----

Air Force 3020 03 0101213F

Line Item	Name
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LGM30G LGM30

Cost and Funding

Cost Summary

Total Acquisition Cost							
Appropriation	BY 1994 \$M			BY 1994 \$M	TY \$M		
	SAR Baseline Production Estimate	Current APB Production Objective/Threshold		Current Estimate	SAR Baseline Production Estimate	Current APB Production Objective	Current Estimate
RDT&E	336.8	336.8	387.3	316.2	367.3	367.3	337.9
Procurement	1750.0	1750.0	1925.0	1874.7	2233.5	2233.5	2263.9
Flyaway	--	--	--	1741.2	--	--	2096.5
Recurring	--	--	--	1714.5	--	--	2064.5
Non Recurring	--	--	--	26.7	--	--	32.0
Support	--	--	--	133.5	--	--	167.4
Other Support	--	--	--	133.5	--	--	167.4
Initial Spares	--	--	--	0.0	--	--	0.0
MILCON	0.0	0.0	--	0.0	0.0	0.0	0.0
Acq O&M	0.0	0.0	--	0.0	0.0	0.0	0.0
Total	2086.8	2086.8	N/A	2190.9	2600.8	2600.8	2601.8

Cost Notes

Total Quantity			
Quantity	SAR Baseline Production Estimate	Current APB Production	Current Estimate
RDT&E	0	0	0
Procurement	607	607	601
Total	607	607	601

Quantity Notes

The unit of measure for the program is a propulsion motor set which includes a Stage 1, Stage 2 and Stage 3.

Cost and Funding

Funding Summary

Appropriation Summary									
FY 2011 President's Budget / December 2009 SAR (TY\$ M)									
Appropriation	Prior	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total
RDT&E	337.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	337.9
Procurement	2263.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2263.9
MILCON	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Acq O&M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PB 2011 Total	2601.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2601.8
PB 2009 Total	2601.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2601.8
Delta	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quantity Summary										
FY 2011 President's Budget / December 2009 SAR (TY\$ M)										
Quantity	Undistributed	Prior	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total
Development	0	0	0	0	0	0	0	0	0	0
Production	0	601	0	0	0	0	0	0	0	601
PB 2011 Total	0	601	0	0	0	0	0	0	0	601
PB 2009 Total	0	601	0	0	0	0	0	0	0	601
Delta	0	0	0	0	0	0	0	0	0	0

Cost and Funding

Annual Funding By Appropriation

Annual Funding							
3600 RDT&E Research, Development, Test, and Evaluation, Air Force							
Fiscal Year	Quantity	TY \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
1994	--	--	--	--	--	--	14.9
1995	--	--	--	--	--	--	25.8
1996	--	--	--	--	--	--	65.3
1997	--	--	--	--	--	--	69.1
1998	--	--	--	--	--	--	65.0
1999	--	--	--	--	--	--	60.3
2000	--	--	--	--	--	--	27.9
2001	--	--	--	--	--	--	--
2002	--	--	--	--	--	--	9.6
Subtotal	--	--	--	--	--	--	337.9

Annual Funding 3600 RDT&E Research, Development, Test, and Evaluation, Air Force							
Fiscal Year	Quantity	BY 1994 \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
1994	--	--	--	--	--	--	14.7
1995	--	--	--	--	--	--	24.9
1996	--	--	--	--	--	--	62.0
1997	--	--	--	--	--	--	64.7
1998	--	--	--	--	--	--	60.5
1999	--	--	--	--	--	--	55.6
2000	--	--	--	--	--	--	25.3
2001	--	--	--	--	--	--	--
2002	--	--	--	--	--	--	8.5
Subtotal	--	--	--	--	--	--	316.2

Annual Funding 3020 Procurement Missile Procurement, Air Force								
Fiscal Year	Quantity	TY \$M						
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program	
2000	9	86.6	--	--	86.6	3.6	90.2	
2001	33	136.5	--	--	136.5	1.7	138.2	
2002	85	256.0	--	6.4	262.4	7.3	269.7	
2003	96	285.7	--	6.6	292.3	9.2	301.5	
2004	75	268.5	--	5.7	274.2	25.9	300.1	
2005	96	271.4	--	5.3	276.7	17.1	293.8	
2006	76	283.3	--	3.5	286.8	19.7	306.5	
2007	75	252.2	--	--	252.2	--	252.2	
2008	56	224.3	--	4.5	228.8	20.3	249.1	
2009	--	--	--	--	--	62.6	62.6	
Subtotal	601	2064.5	--	32.0	2096.5	167.4	2263.9	

Annual Funding								
3020 Procurement Missile Procurement, Air Force								
Fiscal Year	Quantity	BY 1994 \$M						
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program	
2000	9	77.8	--	--	77.8	3.2	81.0	
2001	33	121.3	--	--	121.3	1.5	122.8	
2002	85	223.7	--	5.6	229.3	6.4	235.7	
2003	96	246.8	--	5.7	252.5	7.9	260.4	
2004	75	227.0	--	4.8	231.8	21.9	253.7	
2005	96	223.1	--	4.4	227.5	14.0	241.5	
2006	76	226.4	--	2.8	229.2	15.7	244.9	
2007	75	196.6	--	--	196.6	--	196.6	
2008	56	171.8	--	3.4	175.2	15.6	190.8	
2009	--	--	--	--	--	47.3	47.3	
Subtotal	601	1714.5	--	26.7	1741.2	133.5	1874.7	

Low Rate Initial Production

Item	Initial LRIP Decision	Current Total LRIP
Approval Date	10/15/1999	10/15/1999
Approved Quantity	42	42
Reference	Acquisition Strategy Panel	Acquisition Strategy Panel
Start Year	1999	1999
End Year	2002	2002

In October 1999, an Acquisition Strategy Panel was held and the Milestone Decision Authority approved a Low Rate Initial Production baseline quantity of 42. This represents 7% of the total buy.

Foreign Military Sales

None

Nuclear Costs

None

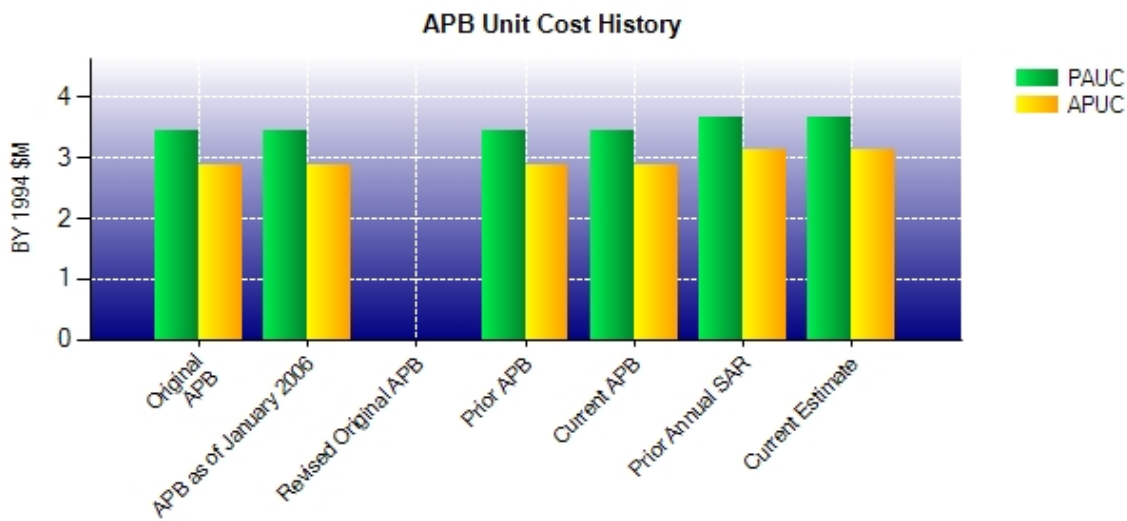
Unit Cost

Unit Cost Report

Item	BY 1994 \$M	BY 1994 \$M	% Change
	Current UCR Baseline (Sep 2001 APB)	Current Estimate (Dec 2009 SAR)	
Program Acquisition Unit Cost			
Cost	2086.8	2190.9	
Quantity	607	601	
Item	3.438	3.645	+6.02
Average Procurement Unit Cost			
Cost	1750.0	1874.7	
Quantity	607	601	
Unit Cost	2.883	3.119	+8.19

Item	BY 1994 \$M	BY 1994 \$M	% Change
	Original UCR Baseline (Dec 1996 APB)	Current Estimate (Dec 2009 SAR)	
Program Acquisition Unit Cost			
Cost	2086.8	2190.9	
Quantity	607	601	
Unit Cost	3.438	3.645	+6.02
Average Procurement Unit Cost			
Cost	1750.0	1874.7	
Quantity	607	601	
Unit Cost	2.883	3.119	+8.19

Unit Cost History



Item	Date	BY 1994 \$M		TY \$M	
		PAUC	APUC	PAUC	APUC
Original APB	Dec 1996	3.438	2.883	4.285	3.680
APB as of January 2006	Sep 2001	3.438	2.883	4.285	3.680
Revised Original APB	N/A	N/A	N/A	N/A	N/A
Prior APB	Feb 2001	3.438	2.883	4.285	3.680
Current APB	Sep 2001	3.438	2.883	4.285	3.680
Prior Annual SAR	Dec 2007	3.644	3.117	4.329	3.767
Current Estimate	Dec 2009	3.645	3.119	4.329	3.767

SAR Unit Cost History

Initial SAR Baseline to Current SAR Baseline (TY \$M)									
Initial PAUC Development Estimate	Changes								PAUC Production Estimate
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
4.645	-0.208	0.000	0.056	0.000	-0.300	0.000	0.092	-0.360	4.285

Current SAR Baseline to Current Estimate (TY \$M)									
PAUC Production Estimate	Changes								PAUC Current Estimate
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
4.285	0.020	0.023	-0.050	0.042	-0.037	0.000	0.045	0.044	4.329

Initial SAR Baseline to Current SAR Baseline (TY \$M)									
Initial APUC Development Estimate	Changes								APUC Production Estimate
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
4.030	-0.196	0.000	0.056	0.000	-0.302	0.000	0.092	-0.350	3.680

Current SAR Baseline to Current Estimate (TY \$M)									
APUC Production Estimate	Changes								APUC Current Estimate
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
3.680	0.032	0.017	-0.050	0.042	0.000	0.000	0.045	0.087	3.767

SAR Baseline History				
Item	SAR Planning Estimate	SAR Development Estimate	SAR Production Estimate	Current Estimate
Milestone I	N/A	N/A	N/A	N/A
Milestone II	N/A	Jun 1994	N/A	N/A
Milestone III	N/A	Sep 2000	Sep 2001	Sep 2001
IOC	N/A	Jan 2002	Jan 2002	Jan 2002
Total Cost (TY \$M)	N/A	2600.8	2600.8	2601.8
Total Quantity	N/A	607	607	601
PAUC	N/A	4.285	4.285	4.329

Cost Variance

Summary TY \$M				
Item	RDT&E	Procurement	MILCON	Total
SAR Baseline (Production Estimate)	367.3	2233.5	--	2600.8
Previous Changes				
Economic	-7.2	+21.1	--	+13.9
Quantity	--	-11.5	--	-11.5
Schedule	--	-29.8	--	-29.8
Engineering	--	+25.5	--	+25.5
Estimating	-22.2	-13.0	--	-35.2
Other	--	--	--	--
Support	--	+38.1	--	+38.1
Subtotal	-29.4	+30.4	--	+1.0
Current Changes				
Economic	+0.1	-1.7	--	-1.6
Quantity	--	--	--	--
Schedule	--	--	--	--
Engineering	--	--	--	--
Estimating	-0.1	+12.9	--	+12.8
Other	--	--	--	--
Support	--	-11.3	--	-11.3
Subtotal	--	-0.1	--	-0.1
Adjustments	--	--	--	--
Total Changes	-29.4	+30.3	--	+0.9
Current Estimate	337.9	2263.8	--	2601.7

Summary BY 1994 \$M				
Item	RDT&E	Procurement	MILCON	Total
SAR Baseline (Production Estimate)	336.8	1750.0	--	2086.8
Previous Changes				
Economic	--	--	--	--
Quantity	--	-10.4	--	-10.4
Schedule	--	-26.9	--	-26.9
Engineering	--	+21.3	--	+21.3
Estimating	-20.4	+113.5	--	+93.1
Other	--	--	--	--
Support	--	+25.9	--	+25.9
Subtotal	-20.4	+123.4	--	+103.0
Current Changes				
Economic	--	--	--	--
Quantity	--	--	--	--
Schedule	--	--	--	--
Engineering	--	--	--	--
Estimating	-0.1	+11.2	--	+11.1
Other	--	--	--	--
Support	--	-10.0	--	-10.0
Subtotal	-0.1	+1.2	--	+1.1
Adjustments	--	--	--	--
Total Changes	-20.5	+124.6	--	+104.1
Current Estimate	316.3	1874.6	--	2190.9

Previous Estimate: December 2007

RDT&E	\$M	
Current Change Explanations	Base Year	Then Year
Revised escalation indices. (Economic)	N/A	+0.1
Adjustment for current and prior escalation. (Estimating)	-0.1	-0.1
RDT&E Subtotal	-0.1	0.0

Procurement	\$M	
Current Change Explanations	Base Year	Then Year
Revised escalation indices. (Economic)	N/A	-1.7
Adjustment for current and prior escalation. (Estimating) (QR)	+0.9	+1.1
Adjustment for current and prior escalation. (Support) (QR)	+0.4	+0.6
Decrease in Other Support. (Support)	-11.2	-12.7
Increased production costs due to cost of materials. (Estimating) (QR)	+11.1	+12.6
Correction to align support and flyaway. (Subtotal)	0.0	0.0
(Estimating)	(-0.8)	(-0.8)
(Support)	(+0.8)	(+0.8)
Procurement Subtotal	+1.2	-0.1

(QR) Quantity Related

Contracts

Contract Identification

Appropriation: Procurement
Contract Name: FRP 6
Contractor: Northrop Grumman
Contractor Location: Clearfield, UT 84015
Contract Number: F42610-98-C-0001/6
Contract Type: Cost Plus Award Fee (CPAF), Cost Plus Incentive Fee (CPIF)
Award Date: October 27, 2006
Definitization Date: October 27, 2006

Contract Price								
Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)		
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager	
225.2	N/A	75	229.9	N/A	75	229.9	229.9	

Contract Variance		
Item	Cost Variance	Schedule Variance
Cumulative Variances To Date (12/31/2009)	+9.9	0.0
Previous Cumulative Variances	-1.4	+1.1
Net Change	+11.3	-1.1

Cost and Schedule Variance Explanations

General Contract Variance Explanation

The favorable Net Cost Variance is due to the under-runs in support of labor.
 The unfavorable Net Change Schedule Variance is due to the intentional slow down of Stage 1 motor production to better align the end of PRP with the start of a new program.

Notes

All 75 Stage 1, Stage 2 and Stage 3 motors, have been delivered for this contact as of January 31, 2009.

Contract Identification

Appropriation: Procurement
Contract Name: FRP 7
Contractor: Northrop Grumman
Contractor Location: Clearfield, UT 84015
Contract Number: F42610-98-C-0001/7
Contract Type: Cost Plus Award Fee (CPAF), Cost Plus Incentive Fee (CPIF)
Award Date: October 15, 2007
Definitization Date: October 15, 2007

Contract Price							
Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
175.8	N/A	56	176.6	N/A	56	179.6	179.2

Contract Variance		
Item	Cost Variance	Schedule Variance
Cumulative Variances To Date (12/31/2009)	+4.0	0.0
Previous Cumulative Variances	-0.1	+0.1
Net Change	+4.1	-0.1

Cost and Schedule Variance Explanations

General Contract Variance Explanation

The cumulative Cost Variance is favorable due primarily to increased efficiency made possible by lessons learned in FRP 6 which resulted in changes in production and engineering processes.
 The unfavorable Schedule Variance is insignificant.

Notes

All 56 Stage 1, Stage 2 and Stage 3 motors have been delivered as of August 31, 2009.

Deliveries and Expenditures

Deliveries				
Delivered to Date	Planned to Date	Actual to Date	Total Quantity	Percent Delivered
Development	0	0	0	--
Production	601	601	601	100.00%
Total Program Quantity Delivered	601	601	601	100.00%

Expended and Appropriated (TY \$M)			
Total Acquisition Cost	2601.8	Years Appropriated	16
Expended to Date	2589.7	Percent Years Appropriated	100.00%
Percent Expended	99.53%	Appropriated to Date	2601.8
Total Funding Years	16	Percent Appropriated	100.00%

This program is 100% delivered.

Operating and Support Cost

Assumptions and Ground Rules

The concept of operations is based on 450 deployed boosters with sufficient spares and test assets. With the possible exception of changes resulting from the Technology Insertion (TI) portion of the program, Integrated Logistics Support areas/requirements mentioned herein will remain the same as those required for the existing MM III weapon system. Existing technical data will govern all work to be performed unless a specific technical order, drawing, or work specification is revised to reflect a new process and/or material as a result of the TI effort. Since PRP was designed to interface seamlessly with existing MM III support functions, there are no additional Operations and Support (O&S) costs once PRP is fielded. Therefore, O&S costs are not part of the program baseline. The last Program Office Estimate of O&S costs was completed at Milestone C in September 2001. There is no antecedent system for PRP since it is a life extension program for the MM III weapon system.

Cost Estimate Reference:

None

Sustainment Strategy:

None

Antecedent Information:

None

Unitized O&S Costs BY1994 \$K			
Cost Element	Minuteman III PRP Booster	Antecedent System (Antecedent) N/A	
Mission Pay & Allowance	0.000		--
Unit Level Consumption	0.000		--
Intermediate Maintenance	0.000		--
Depot Maintenance	0.000		--
Contractor Support	0.000		--
Sustaining Support	0.000		--
Indirect	0.000		--
Other	--		--
Total	--		--

Unitized Cost Comments:

None

Item	Total O&S Cost \$M			
	Minuteman III PRP			Antecedent System (Antecedent)
	Current Production APB Objective/Threshold	Current Estimate		
Base Year	N/A	N/A	N/A	N/A
Then Year	N/A	N/A	N/A	N/A

Total O&S Cost Comment

None

Disposal Estimate Details

Date of Estimate:

Source of Estimate:

Disposal/Demilitarization Total Cost (BY 1994 \$M):