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Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Air Force									DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604851F: ICBM - EMD							
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	0.000	60.010	71.843	0.000	71.843	66.776	67.342	49.220	17.513	Continuing	Continuing
655037: Support Equipment	0.000	41.331	71.843	0.000	71.843	66.776	67.342	49.220	17.513	Continuing	Continuing
655081: ICBM Crypto	0.000	18.679	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	18.679
A. Mission Description and Budget Item Justification											
ICBM Engineering and Manufacturing Development (EMD) efforts will ensure the extension of the operational life of the Minuteman III Intercontinental Ballistic Missile (ICBM) weapon system through 2030.											
The Support Equipment program designs, develops, and tests replacement of obsolete/non-serviceable weapon system support equipment. The efforts include design, development, and testing of replacement Electrical-Electronic Equipment Test Sets, Reentry Field Support Equipment, Minuteman Code Media, the Payload Transporter Tractor and Trailer and Higher Authority Command/Rapid Message Processing Element (HAC/RMPE) Message Generator.											
The ICBM Cryptography Upgrade Increment II program will complete requirement definition, validation and risk mitigation efforts to expand on the ICBM Cryptography Upgrade Increment 1 program for future design and development needed to incorporate remote key/code change and irreversible transformation of launch/enable codes increasing nuclear weapons security during annual code change cycles.											
This program is in Budget Activity 05 as it involves system development, integration and demonstration. Production efforts associated with this program are budgeted in Budget Activity 03 within Program Element 0101213F.											

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APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOMENCLATURE			
3600: Research, Development, Test & Evaluation, Air Force		PE 0604851F: ICBM - EMD			
BA 5: Development & Demonstration (SDD)					
B. Program Change Summary (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Previous President's Budget	0.000	60.010	0.000	0.000	0.000
Current President's Budget	0.000	60.010	71.843	0.000	71.843
Total Adjustments	0.000	0.000	71.843	0.000	71.843
• Congressional General Reductions		0.000			
• Congressional Directed Reductions		0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds		0.000			
• Congressional Directed Transfers		0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	0.000	71.843	0.000	71.843
Change Summary Explanation					
The FY 2010 President's Budget submittal did not reflect FY 2011 through FY 2015 funding. Therefore, explanation of changes between the two budget positions cannot be made in a relevant manner.					

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force								DATE: February 2010				
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>Development & Demonstration (SDD)</i>				R-1 ITEM NOMENCLATURE PE 0604851F: <i>ICBM - EMD</i>				PROJECT 655037: <i>Support Equipment</i>				
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost	
655037: <i>Support Equipment</i>	0.000	41.331	71.843	0.000	71.843	66.776	67.342	49.220	17.513	Continuing	Continuing	
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0			
A. Mission Description and Budget Item Justification The ongoing Support Equipment program designs, develops and tests support equipment necessary to extend the operational life of the Minuteman (MM) III Weapon System through 2030. The production phase, MPAF 3020 funding, is budgeted under MMIII Support Equipment Replacement, PE 0101213F,												
B. Accomplishments/Planned Program (\$ in Millions)												
						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total		
MAJOR THRUST: Design and develop the Electrical-Electronic Equipment Test Set (EEETS) necessary for production/pre-launch checkout of MOD 7 wafer required for the ongoing test launch program. <i>FY 2009 Accomplishments:</i> In FY 2009: Not Applicable <i>FY 2010 Plans:</i> In FY 2010: The program will replace the current unsupportable test set which consists of a non-standard processor, proprietary software, and requires Digital-to-Analog Converter (DAC) cards no longer made (no suitable substitute).----Begin design, development, fabrication and testing of EEETS. Begin Independent Validation and Verification (IV&V) for the EEETS. <i>FY 2011 Base Plans:</i> In FY 2011: Continue design, development, fabrication and testing of EEETS. <i>FY 2011 OCO Plans:</i> In FY 2011 OCO: Not Applicable.						0.000	5.407	8.603	0.000	8.603		

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force				DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 5: Development & Demonstration (SDD)		R-1 ITEM NOMENCLATURE PE 0604851F: ICBM - EMD		PROJECT 655037: Support Equipment		
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
MAJOR THRUST: Design and develop Reentry Field Support Equipment (RFSE) to replace the current reentry systems test set. FY 2009 Accomplishments: In FY 2009: Not Applicable FY 2010 Plans: In FY 2010: The effort will increase the mean time between failure, eliminate unneeded MK12 functions, and add new MK21 functions. It will provide capability through 2030 to meet DoE mandated Limited Life Component warhead swaps and to test electrical continuity during buildup of MM III Reentry Systems---Begin design, development, fabrication and testing of RFSE. Begin Independent Validation and Verification (IV&V) for the RFSE. FY 2011 Base Plans: In FY 2011: Continue design, development, fabrication and testing of RFSE. Continue IV&V for the RFSE. FY 2011 OCO Plans: In FY 2011 OCO: Not Applicable.		0.000	18.385	38.089	0.000	38.089
MAJOR THRUST: The Minuteman Code System Media (CSM) effort will develop software to support management of data flow and data products to get the Minuteman III weapon system into operational mode. FY 2009 Accomplishments: In FY 2009: Not Applicable FY 2010 Plans: In FY 2010: Current CSM processes utilize DC300 tape cartridges and 9-track tapes. Beginning in FY11, the national Security Agency(NSA) is no longer using DC300 tape cartridges and the shelf life expires in 2013 for the remaining 9-track tapes. The software will be modified to use CD-ROMs as		0.000	17.539	23.312	0.000	23.312

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APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 5: Development & Demonstration (SDD)		R-1 ITEM NOMENCLATURE PE 0604851F: ICBM - EMD		PROJECT 655037: Support Equipment		
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
the new media. Ensures capability through 2030 to load codes/software on MM ICBMs--critical to CY12 code change. Begin design, development, fabrication and testing of CSM. Begin Nuclear Surety Cross Check Analysis (NSCCA) for the CSM. FY 2011 Base Plans: In FY 2011: Continue design, development, fabrication and testing of CSM. Continue NSCCA for the CSM. FY 2011 OCO Plans: In FY 2011 OCO: Not Applicable.						
MAJOR THRUST: Design and develop the capabilities necessary to replace the current Payload Transporter Tractor and Trailer (PT3), mitigating emerging threat technologies and methods. FY 2009 Accomplishments: In FY 2009: Not Applicable FY 2010 Plans: In FY 2010: Not Applicable FY 2011 Base Plans: In FY 2011: The new Weapons Transporter design increases safety and security during transport activities and improves maintenance operations.---Begin design, development, fabrication and testing of HAC/RMPE message generator. FY 2011 OCO Plans: In FY 2011 OCO: Not Applicable.		0.000	0.000	0.790	0.000	0.790
MAJOR THRUST: Design and develop the replacement for the Higher Authority Command/Rapid Message Processing Element (HAC/RMPE) message generator due to obsolescence and unsupportability for repair.		0.000	0.000	1.049	0.000	1.049

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force										DATE: February 2010	
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B. Accomplishments/Planned Program (\$ in Millions)											
						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
<i>FY 2009 Accomplishments:</i> In FY 2009: Not Applicable <i>FY 2010 Plans:</i> In FY 2010: Not Applicable <i>FY 2011 Base Plans:</i> In FY 2011: This program will address the replacement of Test Support Equipment (TSE) with a modern, sustainable common platform and standard interfaces.---Begin design, development, fabrication and testing of HAC/RMPE message generator. <i>FY 2011 OCO Plans:</i> In FY 2011 OCO: Not Applicable.											
Accomplishments/Planned Programs Subtotals						0.000	41.331	71.843	0.000	71.843	
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	FY 2012	FY 2013	FY 2014	FY 2015	Cost To Complete	Total Cost
• PE 0101213F: <i>Missile Procurement - AF, Minuteman Squadrons, MM III Modifications</i>	0.000	0.000	0.000	0.000	0.000	0.000	1.500	0.500	0.000	0.000	0.000
• PE 0101213F (1): <i>Missile Procurement - AF, Minuteman</i>	0.000	0.000	0.000	0.000	0.000	0.000	2.000	9.900	80.800	0.000	0.000

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<u>C. Other Program Funding Summary (\$ in Millions)</u>											
<u>Line Item</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u> <u>Base</u>	<u>FY 2011</u> <u>OCO</u>	<u>FY 2011</u> <u>Total</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
<i>Squadrons, MM III Support Equipment Replacement</i>											
<u>D. Acquisition Strategy</u>											
The support equipment replacement programs will be Cost Plus Award Fee (CPAF) and/or Cost Plus Incentive Fee (CPIF) contract addendums added to the ICBM Prime Integration Contractor (IPIC) for everything but the Nuclear Safety Cross Check Analysis (NSCCA)/Independent Validation and Verification (IV&V) efforts, which will be contracted for separately under a CPAF Contract.											
<u>E. Performance Metrics</u>											
Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Air Force											DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>Development & Demonstration (SDD)</i>				R-1 ITEM NOMENCLATURE PE 0604851F: <i>ICBM - EMD</i>				PROJECT 655037: <i>Support Equipment</i>						
Product Development (\$ in Millions)														
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
ICBM Prime Integration Contract	SS/CPAF	Northrop Grumman Mission Systems Clearfield, UT	2.000	33.546	Jul 2010	65.487	Oct 2010	0.000		65.487	113.297	214.330	Continuing	
Subtotal			2.000	33.546		65.487		0.000		65.487	113.297	214.330		
Remarks														
Support (\$ in Millions)														
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
NSCCA	SS/CPAF	NGIT No text provided	0.000	2.368	Aug 2010	3.148	Oct 2010	0.000		3.148	3.166	8.682	Continuing	
SPO/Other Program Support	Various/ Various	ICBM Program Office Hill AFB, UT	0.000	1.189	Jan 2010	1.468	Oct 2010	0.000		1.468	6.336	8.993	Continuing	
Subtotal			0.000	3.557		4.616		0.000		4.616	9.502	17.675		
Remarks														

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Air Force											DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604851F: ICBM - EMD				PROJECT 655037: Support Equipment					
Test and Evaluation (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Test & Evaluation	SS/CPAF	Northrop Grumman Mission Systems Clearfield, UT	0.000	1.103	Aug 2010	0.454		0.000		0.454	1.296	2.853	Continuing
Independent Validation and Verification	SS/CPAF	Northrop Grumman IT Clearfield, UT	0.000	3.125	Aug 2010	1.286	Oct 2010	0.000		1.286	10.086	14.497	Continuing
Subtotal			0.000	4.228		1.740		0.000		1.740	11.382	17.350	
Remarks													
			Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			2.000	41.331		71.843		0.000		71.843	134.181	249.355	
Remarks													
Total Prior Years Cost may include only FY 2009 data.													

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Exhibit R-4, RDT&E Schedule Profile: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force
BA 5: Development & Demonstration (SDD)

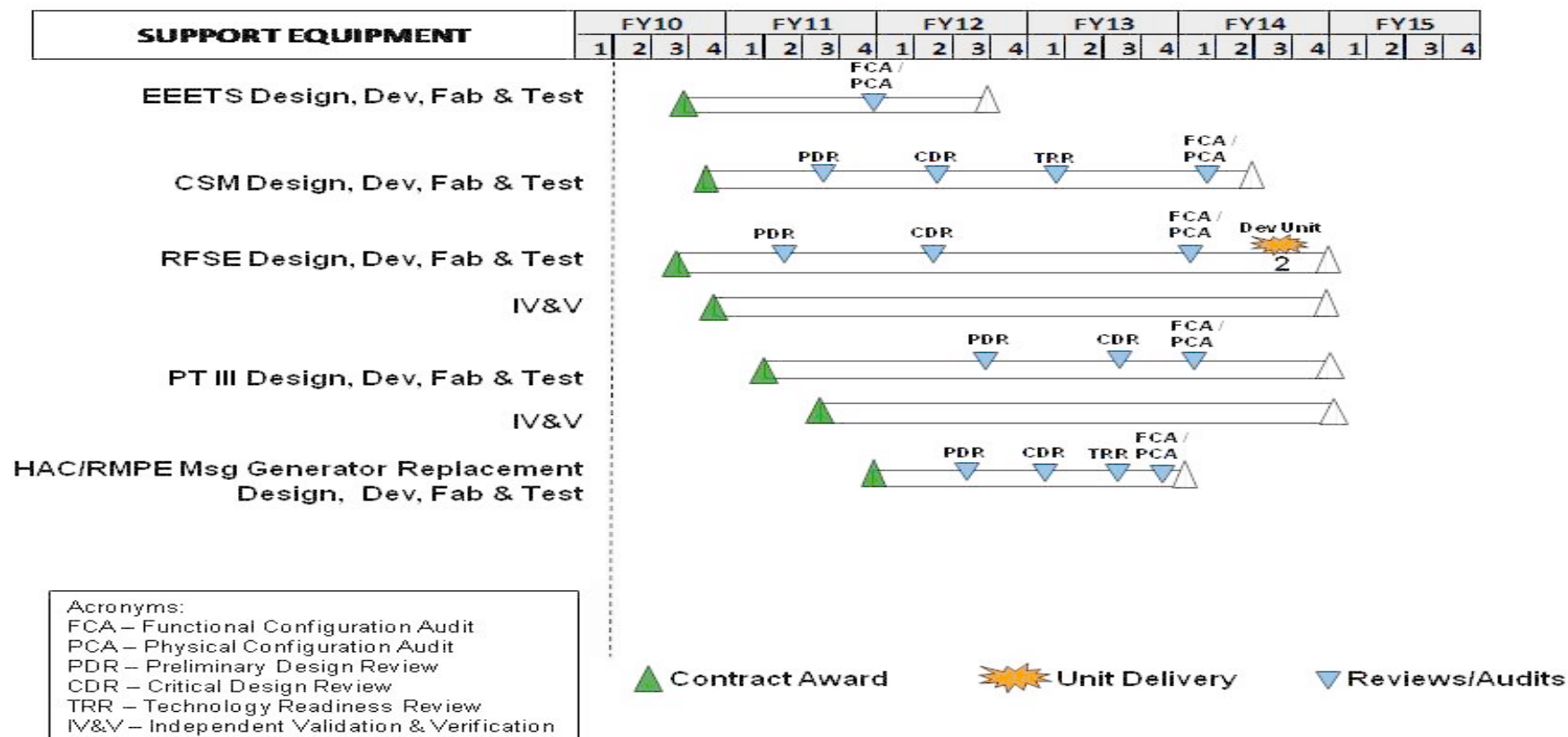
R-1 ITEM NOMENCLATURE

PE 0604851F: ICBM - EMD

PROJECT

655037: Support Equipment

As of 18 Dec 09



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Exhibit R-4A, RDT&E Schedule Details: PB 2011 Air Force			DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604851F: <i>ICBM - EMD</i>	PROJECT 655037: <i>Support Equipment</i>	

Schedule Details

Event	Start		End	
	Quarter	Year	Quarter	Year
Electrical-Electronic Equipment Test Set (EEETS) Development Contract Award	3	2010	3	2010
Reentry Field Support Equipment (RFSE) Development Contract Award	3	2010	3	2010
Codes System Media (CSM) Development Contract Award	4	2010	4	2010
RFSE Independent Validation & Verification (IV&V) Kickoff	4	2010	4	2010
RFSE Preliminary Design Review (PDR)	2	2011	2	2011
Payload Tractor Trailer Transporter (PT3) Development Contract Award	2	2011	2	2011
CSM PDR	3	2011	3	2011
PT3 IV&V Kickoff	3	2011	3	2011
HAC/RMPE Msg Generator Replacement Development Contract Award	4	2011	4	2011
EEETS Functional Configuration Audit (FCA)/Physical Configuration Audit (PCA)	4	2011	4	2011

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APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>Development & Demonstration (SDD)</i>				R-1 ITEM NOMENCLATURE PE 0604851F: <i>ICBM - EMD</i>				PROJECT 655081: <i>ICBM Crypto</i>				
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost	
655081: <i>ICBM Crypto</i>	0.000	18.679	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	18.679	
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0			
A. Mission Description and Budget Item Justification <p>Increment II of the Inter-Continental Ballistic Missile Cryptography Upgrade program executes USSTRATCOM, Air Force Global Strike Command (AFGSC) and Nuclear Weapon Safety Center (NWSC) requirements by implementing the KS-60 capabilities of remote key/code change and irreversible transformation as mandated in the approved Capabilities Development Document (CDD) dated 4 Jan 05 and addresses Nuclear Weapon System Safety Group Operational Safety Review (NWSSG OSR) requirements 98-2, 00-1 and 02-2. These features will greatly increase security during code changes by reducing the frequency of open sites 75 days annually and reduce associated resource costs for 450 launch facilities (LF) and 45 launch control centers (LCC).</p> <p>This document is for the RDT&E phase of the ICBM Cryptography Program Increment II and is in Budget Activity 05. The Production portion of the program is under PE 0101213F MM III Modification.</p>												
B. Accomplishments/Planned Program (\$ in Millions)												
						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total		
MAJOR THRUST: ICBM cryptography upgrade II requirement definition, validation and risk mitigation for future design & development <i>FY 2009 Accomplishments:</i> In FY 2009: Not Applicable <i>FY 2010 Plans:</i> In FY 2010: Complete requirement definition, validation and risk mitigation for future design, develop & test of the software upgrades/changes to the Console Operating Program, Launch Facility hardware/ software modification and Wing Code Processing System.						0.000	18.679	0.000	0.000	0.000		

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B. Accomplishments/Planned Program (\$ in Millions)											
							FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
<i>FY 2011 Base Plans:</i> In FY 2011: Not Applicable <i>FY 2011 OCO Plans:</i> In FY 2011 OCO: Not Applicable.											
Accomplishments/Planned Programs Subtotals							0.000	18.679	0.000	0.000	0.000
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	FY 2012	FY 2013	FY 2014	FY 2015	Cost To Complete	Total Cost
• PE 0101213F: <i>Missile</i>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<i>Procurement - AF, Minuteman</i>											
<i>Squadrons, Modification</i>											
D. Acquisition Strategy											
Cost Plus Award Fee contract will be added to the ICBM Prime Integration Contractor (IPIC).											
E. Performance Metrics											
Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.											

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Product Development (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
ICBM Prime Integration Contract	SS/CPAF	Northrop Grumman Clearfield, UT	0.000	18.187	Jan 2010	0.000		0.000		0.000	0.000	18.187	0.000
Subtotal			0.000	18.187		0.000		0.000		0.000	0.000	18.187	0.000
Remarks													
Support (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
SPO/Other Program Support	Various/ Various	ICBM Program Office Hill AFB, UT	0.000	0.492	Oct 2009	0.000		0.000		0.000	0.000	0.492	0.000
Subtotal			0.000	0.492		0.000		0.000		0.000	0.000	0.492	0.000
Remarks													
			Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			0.000	18.679		0.000		0.000		0.000	0.000	18.679	0.000

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	Total Prior Years Cost	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Remarks Total Prior Years Cost may include only FY 2009 data.								

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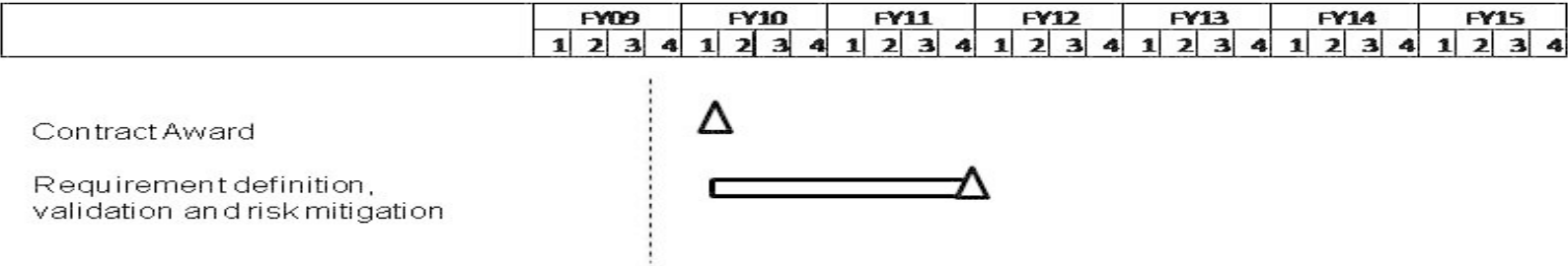
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Exhibit R-4, RDT&E Schedule Profile: PB 2011 Air Force			DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOMENCLATURE		PROJECT	
3600: Research, Development, Test & Evaluation, Air Force		PE 0604851F: ICBM - EMD		655081: ICBM Crypto	
BA 5: Development & Demonstration (SDD)					

ICBM Cryptography Upgrade (ICU) II



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Schedule Details

Event	Start		End	
	Quarter	Year	Quarter	Year
Contract Award	2	2010	2	2010

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