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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Air Force **DATE:** April 2013

APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMENCLATURE							
3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development					PE 0303131F: Minimum Essential Emergency Communications Network (MEECN)							
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	-	23.445	20.124	36.288	-	36.288	53.441	50.236	16.928	17.233	Continuing	Continuing
672832: MEECN System Improvements	-	1.186	0.825	0.873	-	0.873	0.870	0.911	0.928	0.945	Continuing	Continuing
674610: Minuteman MEECN Program (MMP)	-	9.772	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	9.772
675047: Ground Element MEECN System (GEMS)	-	7.491	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
675378: Long Term Solution	-	4.996	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
676029: Global Aircrew Strategic Network Terminal	-	0.000	19.299	35.415	-	35.415	52.571	49.325	16.000	16.288	Continuing	Continuing

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

^{##} The FY 2014 OCO Request will be submitted at a later date

Note

Project 675047, Ground Element MEECN System (GEMS) contract was terminated for convenience in Jun 2011. Remaining FY12 GEMS funding was authorized for Global Aircrew Strategic Network Terminal (Global ASNT) program which will provide Nuclear Command and Control (NC2) connectivity to bombers, tankers, and reconnaissance wing command posts and mobile relocation teams. BPAC 676029 was established in FY13 for the Global ASNT program.

Nuclear Command, Control, and Communications (NC3) Long Term Solution (LTS) was a FY12 New Start, but was cancelled during FY13 budget development due to higher Air Force priorities.

A. Mission Description and Budget Item Justification

Nuclear Deterrence Operations (NDO) is an Air Force Core Function. Within this core function, Nuclear Command and Control (NC2) is the exercise of authority and direction by the President, as Commander in Chief, through established command lines, over nuclear weapon operations of military forces. The President's authority and direction are exercised through the Nuclear Command and Control System (NCCS). The NCCS is the designated combination of flexible and enduring elements including facilities, equipment, communications, procedures, personnel, and the structure in which these elements are integrated, all of which are essential for planning, directing, and controlling nuclear weapon operations.

The Minimum Essential Emergency Communications Network (MEECN) portfolio modernizes the systems necessary to effectively provide assured communications connectivity between the President and the strategic deterrence forces in stressed environments. There are several on-going MEECN activities working to modernize strategic forces' communication networks.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Air Force		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>		R-1 ITEM NOMENCLATURE PE 0303131F: <i>Minimum Essential Emergency Communications Network (MEECN)</i>
MEECN System Improvements (MSI) is a long-range planning process with users (Air Force Global Strike Command (AFGSC), Air Combat Command (ACC), Air Force Space Command (AFSPC), Air Mobility Command (AMC), US Strategic Command (USSTRATCOM), and the Navy) to develop positions for current and future requirements/issues based on available technology. MSI is used to conduct technology testing, develop technology strategies and build technology roadmaps as pro-active support to the Nuclear Command, Control, and Communications (NC3) community. The Minuteman MEECN Program Upgrade (MMPU) modernizes existing Minuteman Intercontinental Ballistic Missile (ICBM) Launch Control Center (LCC) Extremely High Frequency (EHF) communications to provide an Advanced EHF (AEHF) capability and a capability for Missile Combat Crew Members to have operator control of the terminal in the LCC to switch rapidly among various satellite constellations. This upgrade will be compatible with the AEHF satellite and the supporting key management infrastructure (crypto interoperability). AEHF is an eXtended Data Rate (XDR) waveform that provides more secure transmit/receive capability at higher data rate frequencies than the low data rate frequencies currently used on MILSTAR satellites. The AEHF terminal will provide both receive and report-back capability. These modifications comply with the USSTRATCOM requirement for strategic terminals to communicate at higher data rates. Global Aircrew Strategic Network Terminal (Global ASNT) will be comprised of EHF/AEHF, Very Low Frequency (VLF)/Low Frequency (LF), High Frequency (HF), Ultra High Frequency (UHF) and the Aircrew Alerting System (AAS) components (pagers/klaxons), and will provide secure, survivable inter-site, intra-site and mobile communications to bomber, tanker and reconnaissance Wing Command Posts (WCPs) and mobile relocation teams with strategic responsibilities. Global ASNT terminals will be developed and fielded to replace strategic mobile and fixed-site Single Channel Anti-jam Man-Portable (SCAMP) terminals and Aircraft Alerting Communications Electromagnetic Pulse System/Electromagnetic Pulse Hardened Dispersal Communications (AACE/EHDC) systems. The primary mission of Global ASNT is to provide strategic WCPs and mobile support teams with survivable communication paths to receive Emergency Action Messages (EAMs) and Force Management messages from NC2 nodes and disseminate them to bomber, tanker, and reconnaissance aircrews. Global ASNT will provide solutions to existing capability shortfalls for NC2 and has significant potential to provide distributed and transportable command and control capabilities beyond the traditional NC2 mission. Global ASNT will be fielded in separate increments; the first increment fields the EHF/AEHF capability; the second increment fields HF/UHF/AAS capability; and the third increment fields VLF/LF capability. Global ASNT is the last line of operational communications when all other peacetime links fail. This program is in Budget Activity 07, Operational System Development, because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal years.		

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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Air Force				DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOMENCLATURE			
3600: Research, Development, Test & Evaluation, Air Force		PE 0303131F: Minimum Essential Emergency Communications Network (MEECN)			
BA 7: Operational Systems Development					
B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	43.360	20.124	39.673	-	39.673
Current President's Budget	23.445	20.124	36.288	-	36.288
Total Adjustments	-19.915	0.000	-3.385	-	-3.385
• 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	-10.627	0.000			
• SBIR/STTR Transfer	-0.788	0.000			
• Other Adjustments	-8.500	0.000	-3.385	-	-3.385
Change Summary Explanation					
FY12: Other Adjustments (PL 112-74 Section 8074 \$8.5M transfer)					
FY12 Reprogramming reduction from cancellation of GEMS and LTS. Funds used for higher AF priorities.					
FY14 Reduction due to higher Air Force priorities.					

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development					R-1 ITEM NOMENCLATURE PE 0303131F: Minimum Essential Emergency Communications Network (MEECN)				PROJECT 672832: MEECN System Improvements			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
672832: MEECN System Improvements	-	1.186	0.825	0.873	-	0.873	0.870	0.911	0.928	0.945	Continuing	Continuing
Quantity of RDT&E Articles		0	0	0		0	0	0	0	0		
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
A. Mission Description and Budget Item Justification												
MEECN System Improvements (MSI) is a long-range planning process with users (Air Force Global Strike Command (AFGSC), Air Combat Command (ACC), Air Force Space Command (AFSPC), Air Mobility Command (AMC), US Strategic Command (USSTRATCOM), and the Navy) to develop positions for current and future requirements/issues based on available technology. MSI is used to conduct technology testing, develop technology strategies, and build technology roadmaps as pro-active support to the Nuclear and National C2 community.												
Very Low Frequency/Low Frequency (VLF/LF) receivers are currently used as one of the means for secure/survivable connectivity from the President to strategic forces. Over the years, the AF and Navy have pursued their own VLF products, which meet the unique application and environmental situations for each platform. MSI is investigating technical feasibility of a future common core of processing hardware and software that supports all VLF receiver platforms. MSI will perform risk reduction and pre-program planning for future technical refresh or replacement efforts. MSI will develop the technology of a Uniform MEECN Mode (UMM) which will result in a common set of waveform software.												
This program is in Budget Activity 07, Operational System Development, because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal years.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2012	FY 2013	FY 2014	
Title: MEECN System Improvements									0.805	0.414	0.406	
Description: Conduct NC2 technology testing, developing comprehensive technology strategies and building technology roadmaps. Conduct VLF/LF tradeoff analysis.												
FY 2012 Accomplishments: Developed NC2 Architecture Roadmap. Continued Common VLF Receiver Trade-off Analysis												
FY 2013 Plans: Develop NC2 Architecture Roadmap.												

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force		DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>		R-1 ITEM NOMENCLATURE PE 0303131F: <i>Minimum Essential Emergency Communications Network (MEECN)</i>	
		PROJECT 672832: <i>MEECN System Improvements</i>	

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
Continue Common VLF Receiver Trade-off Analysis.			
FY 2014 Plans: Develop NC2 Architecture Roadmap. Continue Common VLF Receiver Trade-off Analysis.			
Title: PMA Description: Program Management Administration FY 2012 Accomplishments: Program Management Administration FY 2013 Plans: Program Management Administration FY 2014 Plans: Program Management Administration	0.381	0.411	0.467
Accomplishments/Planned Programs Subtotals	1.186	0.825	0.873

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
• N/A: None	0.000	0.000	0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.000
Remarks											
D. Acquisition Strategy Johns Hopkins University (JHU) Applied Physics Lab (APL) is on contract to provide updates to the NC2 Roadmap. This effort is a "time and materials" type contract.											
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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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>						R-1 ITEM NOMENCLATURE PE 0303131F: <i>Minimum Essential Emergency Communications Network (MEECN)</i>						PROJECT 672832: <i>MEECN System Improvements</i>			
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
NC2 Roadmap	MIPR	JHU APL:Laurel, MD	-	0.783	Apr 2012	0.414	Jan 2013	0.406	Oct 2013	-		0.406	Continuing	Continuing	TBD
VLF/LF Modernization Support & UMM Development	MIPR	SPAWAR:San Diego, CA	-	0.022	Dec 2012	0.000		0.000		-		0.000	Continuing	Continuing	TBD
Subtotal			0.000	0.805		0.414		0.406		0.000		0.406			
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
PMA (Eng/Acq Spt/MITRE/Travel/IMPAC)	Various	Various:Various,	-	0.381	Jan 2012	0.411	Jan 2013	0.467	Jan 2014	-		0.467	Continuing	Continuing	TBD
Subtotal			0.000	0.381		0.411		0.467		0.000		0.467			
Project Cost Totals			0.000	1.186		0.825		0.873		0.000		0.873			

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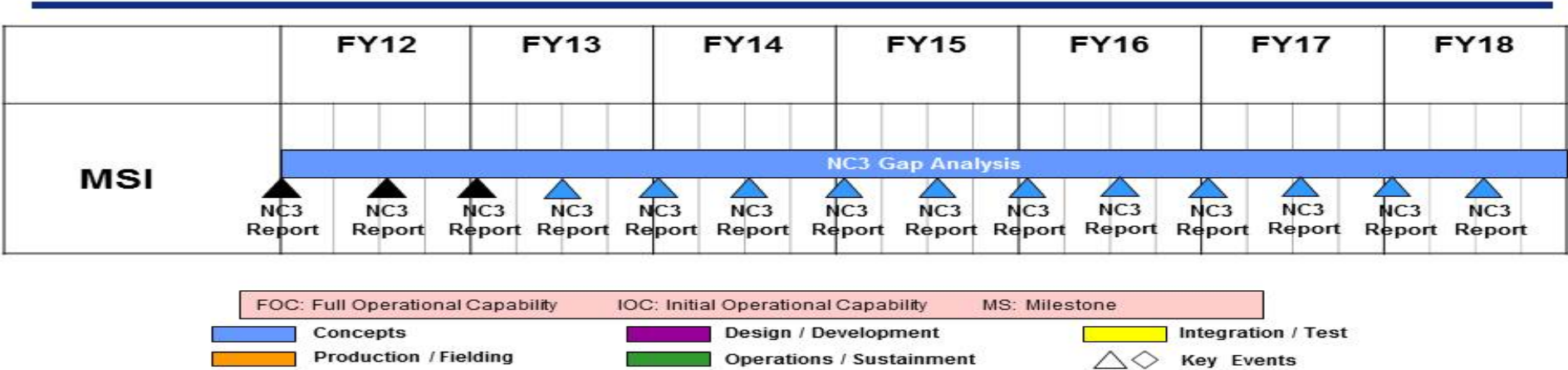
Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force							DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development			R-1 ITEM NOMENCLATURE PE 0303131F: Minimum Essential Emergency Communications Network (MEECN)			PROJECT 672832: MEECN System Improvements				
	All Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract	
Remarks										

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Air Force		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 0303131F: Minimum Essential Emergency Communications Network (MEECN)	PROJECT 672832: MEECN System Improvements

MSI Schedule



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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Air Force			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0303131F: <i>Minimum Essential Emergency Communications Network (MEECN)</i>	PROJECT 672832: <i>MEECN System Improvements</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
NC2 Roadmap Semi-annual Debriefs	1	2014	3	2018

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force									DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development					R-1 ITEM NOMENCLATURE PE 0303131F: Minimum Essential Emergency Communications Network (MEECN)				PROJECT 674610: Minuteman MEECN Program (MMP)			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
674610: Minuteman MEECN Program (MMP)	-	9.772	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	9.772
Quantity of RDT&E Articles		0	0	0		0	0	0	0	0		
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
A. Mission Description and Budget Item Justification												
The Minuteman Minimum Essential Emergency Communications Network (MEECN) Program Upgrade (MMPU) modernizes existing Minuteman Intercontinental Ballistic Missile (ICBM) Launch Control Center (LCC) Extremely High Frequency (EHF) communications to provide an Advanced EHF (AEHF) capability and a capability for Missile Combat Crew Members to have operator control of the terminal in the LCC to switch rapidly among various satellite constellations. This upgrade will be compatible with AEHF satellites and the supporting key management infrastructure (crypto interoperability). AEHF is an eXtended Data Rate (XDR) waveform that provides more secure transmit/receive capability at higher data rate frequencies than the low data rate frequencies currently used on MILSTAR satellites. The EHF terminal will provide both receive and report-back capability using the higher data rate frequencies. Due to late availability of the AEHF satellite and its ground and supporting over-the-air infrastructure, there will be MMPU regression testing following the start of production. These modifications comply with the USSTRATCOM requirement for strategic terminals to communicate at higher data rates.												
This program is in Budget Activity 07, Operational System Development, because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal years.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2012	FY 2013	FY 2014	
Title: MMP Upgrade Engineering and Manufacturing Development									8.112	0.000	0.000	
Description: MMP Upgrade Engineering and Manufacturing Development												
FY 2012 Accomplishments: Complete integration and test with MILSTAR low data rate. Complete AEHF XDR weapon system testing and operational assessment using on-orbit satellite and supporting communications/cryptographic infrastructure.												
FY 2013 Plans: N/A												
FY 2014 Plans:												

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force		DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>		R-1 ITEM NOMENCLATURE PE 0303131F: <i>Minimum Essential Emergency Communications Network (MEECN)</i>	PROJECT 674610: <i>Minuteman MEECN Program (MMP)</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
N/A			
Title: PMA	1.660	0.000	0.000
Description: Program Management Administration			
FY 2012 Accomplishments: Program Management Administration			
FY 2013 Plans: N/A			
FY 2014 Plans: N/A			
Accomplishments/Planned Programs Subtotals	9.772	0.000	0.000

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
• MPAF: BA03: Line Item # M30MLG: <i>MM III Modifications</i>	40.991	6.325	19.049		19.049	3.000	0.000	0.000	0.000	0.000	79.111
Remarks											
D. Acquisition Strategy											
The ICBM Prime Integrating Contract (IPIC), through OO-ALC, Hill AFB, UT, was used as a contracting vehicle for the legacy Minuteman MEECN Program (MMP) and the contractor will continue to serve in an advisory role for integration support for the MMPU program. Due to the end of IPIC, MMPU deployment and sustainment will transition to a bridge Communications Installation Sustainment and Support Contract (CISSC) in FY13.											
Two Concept and Technology Demonstration (C&TD) contracts were awarded to separate vendors following full and open competition. The MMPU EMD effort was a full and open competition and was awarded to Raytheon Company, Marlborough, MA on 15 Jan 08.											
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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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development						R-1 ITEM NOMENCLATURE PE 0303131F: Minimum Essential Emergency Communications Network (MEECN)						PROJECT 674610: Minuteman MEECN Program (MMP)			
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
MMP Upgrade Program Integrator (Advisor)	C/CPAF	Northrop Grumman:Layton, UT	-	2.597	Mar 2012	0.000		0.000		-		0.000	Continuing	Continuing	TBD
MMP Upgrade Engineering & Manufacturing Development	C/CPAF	Raytheon Company:Marlboro, MA	-	4.455	Feb 2012	0.000		0.000		-		0.000	Continuing	Continuing	TBD
Subtotal			0.000	7.052		0.000		0.000		0.000		0.000			
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
MITRE DMS	SS/CPFF	MITRE:Bedford, MA	-	0.816	Oct 2011	0.000		0.000		-		0.000	Continuing	Continuing	
Subtotal			0.000	0.816		0.000		0.000		0.000		0.000			
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Various	Various	Various:Various,	-	0.109	Mar 2012	0.000		0.000		-		0.000	Continuing	Continuing	TBD
Subtotal			0.000	0.109		0.000		0.000		0.000		0.000			
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
PMA (Eng/Acq Spt/Travel)	Various	Various:;	-	0.999	Jan 2012	0.000		0.000		-		0.000	Continuing	Continuing	TBD
MITRE PMA	SS/CPFF	MITRE:Bedford, MA	-	0.796	Oct 2011	0.000		0.000		-		0.000	Continuing	Continuing	TBD
Subtotal			0.000	1.795		0.000		0.000		0.000		0.000			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force										DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>					R-1 ITEM NOMENCLATURE PE 0303131F: <i>Minimum Essential Emergency Communications Network (MEECN)</i>				PROJECT 674610: <i>Minuteman MEECN Program (MMP)</i>				
	All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	9.772		0.000		0.000		0.000		0.000			
Remarks													

PE 0303131F: *Minimum Essential Emergency Communications
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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Air Force

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force
BA 7: Operational Systems Development

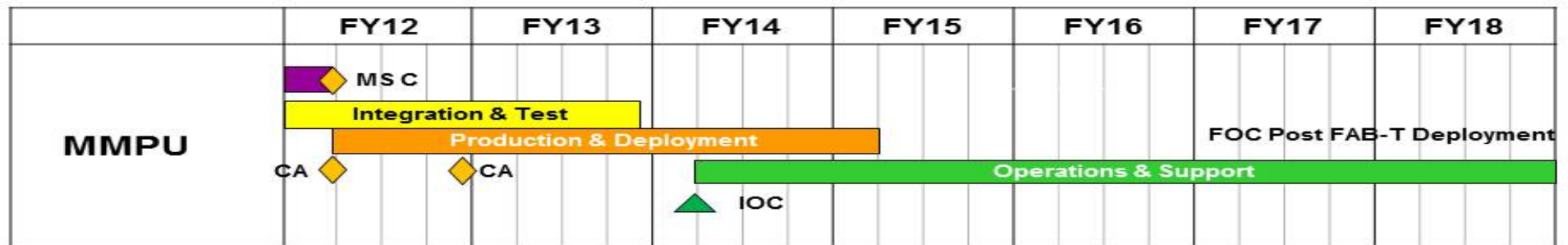
R-1 ITEM NOMENCLATURE

PE 0303131F: Minimum Essential
Emergency Communications Network
(MEECN)

PROJECT

674610: Minuteman MEECN Program
(MMP)

MMPU Schedule



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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Air Force			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0303131F: <i>Minimum Essential Emergency Communications Network (MEECN)</i>	PROJECT 674610: <i>Minuteman MEECN Program (MMP)</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Integration and Test	1	2012	4	2013
Milestone C	1	2012	1	2012
Initial Operational Capability	1	2014	1	2014

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development					R-1 ITEM NOMENCLATURE PE 0303131F: Minimum Essential Emergency Communications Network (MEECN)				PROJECT 675047: Ground Element MEECN System (GEMS)			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
675047: Ground Element MEECN System (GEMS)	-	7.491	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles		0	0	0		0	0	0	0	0		
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
Note												
The Ground Element MEECN System (GEMS) contract was terminated for convenience on 16 Jun 2011. FY11 and FY12 funds were used to establish the Global Aircrew Strategic Network Terminal (Global ASNT) program.												
A. Mission Description and Budget Item Justification												
Ground Element MEECN System (GEMS) contract was terminated for convenience on 16 Jun 2011. FY12 GEMS funding was used for execution of the Global Aircrew Strategic Network Terminal (Global ASNT) program. Global ASNT continues in BPAC 676029 beginning in FY13.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2012	FY 2013	FY 2014	
Title: DMS									2.531	0.000	0.000	
Description: Direct Mission Support												
FY 2012 Accomplishments:												
Transition from terminated GEMS program to begin incremental development efforts under Global ASNT program. Completed MDD (entered acq life cycle at pre-MS B); generated acquisition strategy, CDD, SRD, and RFP. Released RFP to industry on 26 Nov 12.												
FY 2013 Plans:												
N/A												
FY 2014 Plans:												
N/A												
Title: PMA									4.960	0.000	0.000	
Description: Program Management Administration												
FY 2012 Accomplishments:												

PE 0303131F: *Minimum Essential Emergency Communications Network...*
Air Force

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force		DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0303131F: <i>Minimum Essential Emergency Communications Network (MEECN)</i>	PROJECT 675047: <i>Ground Element MEECN System (GEMS)</i>	

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
Global ASNT PMA funds for Milestone B and pre-contract award activities.			
FY 2013 Plans: N/A			
FY 2014 Plans: N/A			
Accomplishments/Planned Programs Subtotals	7.491	0.000	0.000

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

<u>Line Item</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u> <u>Base</u>	<u>FY 2014</u> <u>OCO</u>	<u>FY 2014</u> <u>Total</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• N/A: None	0.000	0.000	0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.000
Remarks											

D. Acquisition Strategy
GEMS Program Terminated 16 Jun 11.

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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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development						R-1 ITEM NOMENCLATURE PE 0303131F: Minimum Essential Emergency Communications Network (MEECN)						PROJECT 675047: Ground Element MEECN System (GEMS)			
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Satellite Simulations	SS/FFP	MIT/Lincoln Laboratory:Lexington, MA	-	0.335	Aug 2012	0.000		0.000		-		0.000	0.000	0.335	TBD
Subtotal			0.000	0.335		0.000		0.000		0.000		0.000	0.000	0.335	
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Global ASNT DMS (MITRE)	SS/CPFF	MITRE:Bedford, MA	-	2.199	Oct 2011	0.000		0.000		-		0.000	Continuing	Continuing	
Subtotal			0.000	2.199		0.000		0.000		0.000		0.000			
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Global ASNT PMA (MS B & pre-contract activities for FY12)	Various	Various:Various,	-	2.333	Jan 2012	0.000		0.000		-		0.000	0.000	2.333	TBD
Global ASNT PMA (MITRE for FY12)	SS/CPFF	MITRE:Bedford, MA	-	2.624	Oct 2011	0.000		0.000		-		0.000	0.000	2.624	TBD
Subtotal			0.000	4.957		0.000		0.000		0.000		0.000	0.000	4.957	

PE 0303131F: Minimum Essential Emergency Communications
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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force										DATE: April 2013				
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development					R-1 ITEM NOMENCLATURE PE 0303131F: Minimum Essential Emergency Communications Network (MEECN)					PROJECT 675047: Ground Element MEECN System (GEMS)				
		All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals		0.000	7.491		0.000		0.000		0.000		0.000			
Remarks \$7.491M of FY12 money is for execution of the Global Aircrew Strategic Network Terminal (Global ASNT) program.														

PE 0303131F: *Minimum Essential Emergency Communications Network...*
Air Force

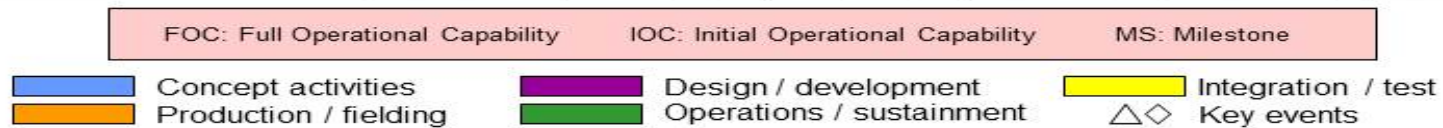
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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Air Force		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0303131F: <i>Minimum Essential Emergency Communications Network (MEECN)</i>	PROJECT 675047: <i>Ground Element MEECN System (GEMS)</i>

GEMS Schedule

	FY12	FY13	FY14	FY15	FY16	FY17	FY18
GEMS	Program terminated for convenience in FY11.						



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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development					R-1 ITEM NOMENCLATURE PE 0303131F: Minimum Essential Emergency Communications Network (MEECN)				PROJECT 675378: Long Term Solution			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
675378: Long Term Solution	-	4.996	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles		0	0	0		0	0	0	0	0		
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
Note Long Term Solution (LTS) was cancelled in FY11 due to higher Air Force priorities.												
A. Mission Description and Budget Item Justification LTS will replace the current Nuclear Command Control and Communications (NC3) Hybrid Solution which consists of Navy's NOVA system and Air Force's Strategic Automated Command and Control System (SACCS), and will provide a worldwide, robust, non-survivable NC3 network for specialized messaging services to meet Nuclear Technical Performance Criteria (NTPC) requirements for Emergency Action Message (EAM) dissemination. The mission of the NC3 message service is to provide accurate and reliable delivery of time-critical messages from the Executing Command Authority to nuclear forces and other authorized subscribers. NC3 LTS provides NC3 messaging services to the JS-approved NC2 subscribers and critical interfaces (~350). NC3 LTS was planned to be a FY12 New Start, but was cancelled due to higher Air Force priorities. This program is in Budget Activity 07, Operational System Development, because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal years.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2012	FY 2013	FY 2014	
Title: Engineering and Manufacturing Development									4.996	0.000	0.000	
Description: Design & develop IP based NC3 communications network.												
FY 2012 Accomplishments: LTS program was terminated due to higher Air Force priorities.												
Accomplishments/Planned Programs Subtotals									4.996	0.000	0.000	

PE 0303131F: *Minimum Essential Emergency Communications Network...*
Air Force

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>					R-1 ITEM NOMENCLATURE PE 0303131F: <i>Minimum Essential Emergency Communications Network (MEECN)</i>			PROJECT 675378: <i>Long Term Solution</i>				
C. Other Program Funding Summary (\$ in Millions)												
	<u>Line Item</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u> <u>Base</u>	<u>FY 2014</u> <u>OCO</u>	<u>FY 2014</u> <u>Total</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
	• N/A: <i>None</i>	0.000	0.000	0.000		0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Remarks												
D. Acquisition Strategy (NC3) Long Term Solution (LTS) was cancelled due to higher Air Force priorities.												
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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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force													DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development							R-1 ITEM NOMENCLATURE PE 0303131F: Minimum Essential Emergency Communications Network (MEECN)					PROJECT 675378: Long Term Solution			

Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost To Complete	Total Cost	Target Value of Contract
Higher Air Force Priorities	Various	TBD:TBD,	-	4.996		0.000		0.000		-		0.000		Continuing	Continuing	TBD
Subtotal			0.000	4.996		0.000		0.000		0.000		0.000				

Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total					
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost To Complete	Total Cost	Target Value of Contract	
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000

Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total					
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost To Complete	Total Cost	Target Value of Contract	
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000

Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total					
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost To Complete	Total Cost	Target Value of Contract	
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000

			All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total		Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			0.000	4.996		0.000		0.000		0.000		0.000				

Remarks

PE 0303131F: Minimum Essential Emergency Communications
Network...
Air Force

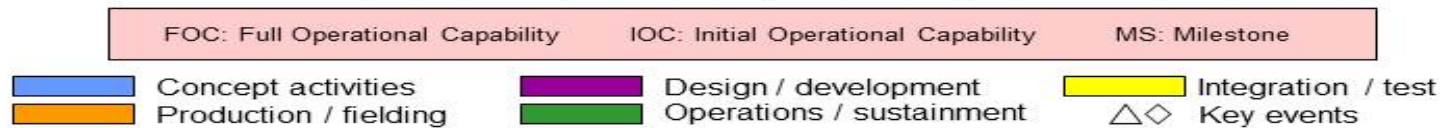
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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Air Force		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0303131F: <i>Minimum Essential Emergency Communications Network (MEECN)</i>	PROJECT 675378: <i>Long Term Solution</i>

LTS Schedule

	FY12	FY13	FY14	FY15	FY16	FY17	FY18
LTS	Program cancelled.						



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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force									DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development					R-1 ITEM NOMENCLATURE PE 0303131F: Minimum Essential Emergency Communications Network (MEECN)				PROJECT 676029: Global Aircrew Strategic Network Terminal			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
676029: Global Aircrew Strategic Network Terminal	-	0.000	19.299	35.415	-	35.415	52.571	49.325	16.000	16.288	Continuing	Continuing
Quantity of RDT&E Articles		0	0	0		0	0	0	0	0		
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
A. Mission Description and Budget Item Justification												
Global Aircrew Strategic Network Terminal (Global ASNT) will be comprised of Extremely High Frequency (EHF)/Advanced Extremely High Frequency (AEHF), Very Low Frequency (VLF)/Low Frequency (LF), High Frequency (HF), Ultra High Frequency (UHF) and the Aircrew Alerting System (AAS) components (pagers/ klaxons), and will provide secure, survivable inter-site, intra-site and mobile communications to bomber, tanker and reconnaissance Wing Command Posts (WCPs) and mobile relocation teams with strategic responsibilities. Global ASNT terminals will be developed and fielded to replace strategic mobile and fixed-site Single Channel Anti-jam Man-Portable (SCAMP) terminals and Aircraft Alerting Communications Electromagnetic Pulse System/Electromagnetic Pulse Hardened Dispersal Communications (AACE/EHDC) systems. Global ASNT primary mission is to provide strategic WCPs and mobile support teams with survivable communication paths to receive Emergency Action Messages (EAMs) and Force Management Messages from Nuclear Command and Control (NC2) nodes and disseminate them to bomber, tanker, and reconnaissance aircrews. Global ASNT will provide solutions to existing capability shortfalls for NC2 and has significant potential to provide distributed and transportable command and control capabilities beyond the traditional NC2 mission. Global ASNT will be fielded in separate increments: the first increment fields the EHF/AEHF capability; the second increment fields the HF/UHF/AAS capability; and the third increment fields the VLF/LF capability. Global ASNT is the last line of operational communication when all other peacetime links fail.												
This program is in Budget Activity 07, Operational System Development, because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal years.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2012	FY 2013	FY 2014	
Title: Engineering & Manufacturing Development									0.000	14.440	29.374	
Description: Engineering & Manufacturing Development.												
FY 2012 Accomplishments: Pre Milestone B efforts for the Global ASNT program funded in BPAC 675047.												
FY 2013 Plans:												

PE 0303131F: *Minimum Essential Emergency Communications Network...*
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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0303131F: <i>Minimum Essential Emergency Communications Network (MEECN)</i>	PROJECT 676029: <i>Global Aircrew Strategic Network Terminal</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
Release RFP, conduct technical evaluation, and award an EMD contract. Begin development to include EHF and AEHF integration of modem design, cryptographic upgrade, software development, antenna integration and test of developed hardware and software. FY 2014 Plans: Conduct SRR and PDR. Continue Engineering and Manufacturing Development to include EHF and AEHF integration of modem design, cryptographic upgrade, software development, antenna integration and test of developed hardware and software.			
Title: PMA Description: Program Management Administration FY 2012 Accomplishments: Program Management Administration for the Global ASNT program funded in BPAC 675047. FY 2013 Plans: Program Management Administration FY 2014 Plans: Program Management Administration	0.000	4.859	6.041
Accomplishments/Planned Programs Subtotals	0.000	19.299	35.415

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

<u>Line Item</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014 Base</u>	<u>FY 2014 OCO</u>	<u>FY 2014 Total</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• OPAF: BA03: Line item # 834210: <i>Global ASNT</i>	0.000	0.000	0.000		0.000	20.401	98.077	109.445	111.415	Continuing	Continuing
Remarks											

D. Acquisition Strategy

Global ASNT is using full and open competitive source selection to award an Engineering & Manufacturing Development (EMD) contract for Increment One. Global ASNT will continue to use an incremental approach to fulfill the overall requirements of the program.

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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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development						R-1 ITEM NOMENCLATURE PE 0303131F: Minimum Essential Emergency Communications Network (MEECN)				PROJECT 676029: Global Aircrew Strategic Network Terminal					
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Engineering & Manufacturing Development	TBD	TBD:,	-	0.000		11.804	Jun 2013	26.413	Jan 2014	-		26.413	Continuing	Continuing	TBD
Satellite Simulations	SS/FFP	MIT/Lincoln Laboratory:Lexington, MA	-	0.000		0.459	Feb 2013	0.569	Feb 2014	-		0.569	Continuing	Continuing	TBD
Subtotal			0.000	0.000		12.263		26.982		0.000		26.982			
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
MITRE Lab	SS/CPFF	MITRE:Bedford, MA	-	0.000		1.552	Oct 2012	1.731	Oct 2013	-		1.731	Continuing	Continuing	
Software Support	Various	Various:,	-	0.000		0.243	Jul 2013	0.247	Jul 2014	-		0.247	Continuing	Continuing	
Subtotal			0.000	0.000		1.795		1.978		0.000		1.978			
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Government Test and Evaluation	Various	Various:,	-	0.000		0.382	Dec 2012	0.414	Dec 2013	-		0.414	Continuing	Continuing	TBD
Subtotal			0.000	0.000		0.382		0.414		0.000		0.414			
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
PMA (Eng/Acq Support, Travel)	Various	Various:,	-	0.000		1.756	Dec 2012	3.067	Dec 2013	-		3.067	Continuing	Continuing	TBD

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>						R-1 ITEM NOMENCLATURE PE 0303131F: <i>Minimum Essential Emergency Communications Network (MEECN)</i>						PROJECT 676029: <i>Global Aircrew Strategic Network Terminal</i>			
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
PMA (MITRE)	SS/CPFF	MITRE:Bedford, MA	-	0.000		3.103	Oct 2012	2.974	Oct 2013	-		2.974	Continuing	Continuing	TBD
Subtotal			0.000	0.000		4.859		6.041		0.000		6.041			
			All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			0.000	0.000		19.299		35.415		0.000		35.415			
Remarks															

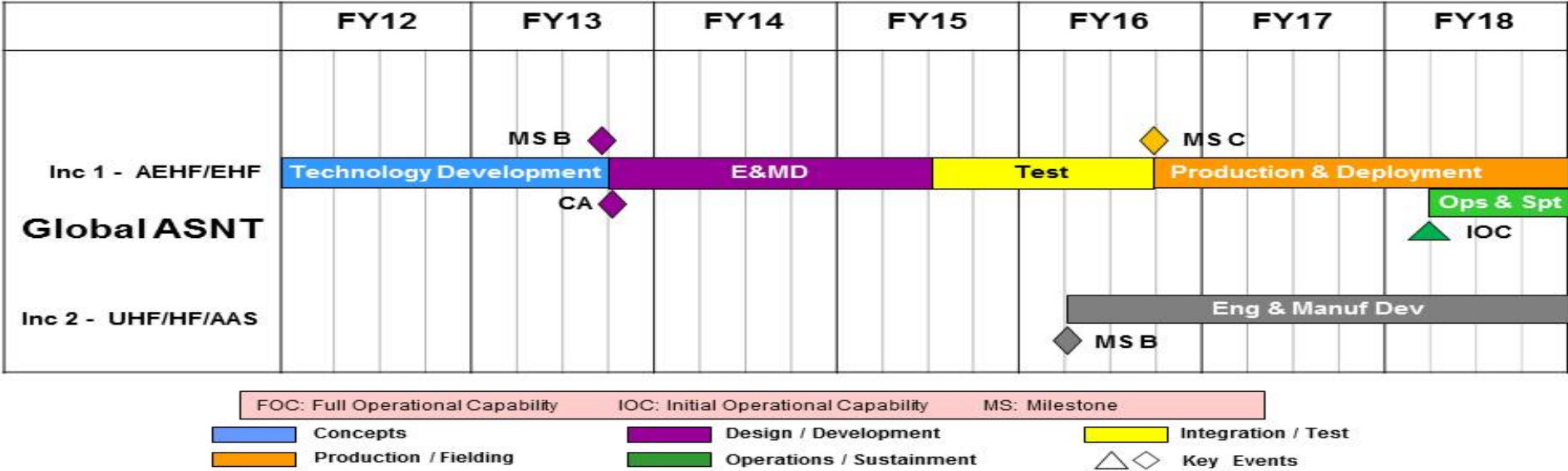
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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Air Force		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 0303131F: Minimum Essential Emergency Communications Network (MEECN)	PROJECT 676029: Global Aircrew Strategic Network Terminal

Global ASNT Schedule



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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Air Force			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0303131F: <i>Minimum Essential Emergency Communications Network (MEECN)</i>	PROJECT 676029: <i>Global Aircrew Strategic Network Terminal</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
EHF/AEHF Milestone B Decision	3	2013	3	2013
EHF/AEHF Contract Award	3	2013	3	2013
UHF/HF/AAS Milestone B	2	2016	2	2016
UHF/HF/AAS Milestone B (1)	2	2016	2	2016