

UNCLASSIFIED

PE NUMBER: 0303131F

PE TITLE: Minimum Essential Emergency Communications Network (MEECN)

Exhibit R-2, RDT&E Budget Item Justification	DATE May 2009
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BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0303131F Minimum Essential Emergency Communications Network (MEECN)
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Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	85.458	70.562	72.694	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
2832 MEECN System Improvements	1.996	2.209	1.806	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
4610 Minuteman MEECN Program Upgrade (MMPU)	25.368	29.705	14.746	0.000	0.000	0.000	0.000	0.000	0.000	TBD
5047 Ground Element MEECN System (GEMS)	58.094	38.648	56.142	0.000	0.000	0.000	0.000	0.000	0.000	TBD

(U) A. Mission Description and Budget Item Justification

Minimum Essential Emergency Communications Network (MEECN) systems provide assured communications connectivity between the President and the strategic deterrent forces in stressed environments. There are three on-going MEECN activities working to modernize strategic forces' communication networks.

- MEECN Systems Improvements (MSI) is a long-range planning process with Users (Air Combat Command (ACC), Air Force Space Command (AFSPC), US Strategic Command (USSTRATCOM), Air Mobility Command (AMC), and the Navy) to develop positions for current and future requirements/issues based on available technology.
- Minuteman MEECN Program Upgrade (MMPU) updates existing systems composed of Minuteman ICBM Launch Control Center (LCC) Very Low Frequency/Low Frequency (VLF/LF) along with a Minuteman ICBM LCC Extremely High Frequency (EHF) communications capability. MMPU will provide a capability in the LCC for the Missile Combat Crew Members to have operator control of the terminal to switch among various EHF/AEHF satellite constellations and be compatible with Advanced EHF (AEHF). AEHF is an Extended Data Rate (XDR) waveform that provides more secure transmit/receive at frequencies above 20 GHz.
- Ground Element MEECN Systems (GEMS) provides a secure, survivable inter-site and intra-site and mobile VLF and EHF communication to bomber, tanker, reconnaissance units and other communications facilities with strategic responsibilities. GEMS replaces existing mission-deficient systems. GEMS will also be upgraded to AEHF with the XDR waveform.

This program is Budget Activity 07, Operational System Development, because it supports work on currently fielded weapon systems.

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(U) **B. Program Change Summary (\$ in Millions)**

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) Previous President's Budget	88.224	70.995	9.762
(U) Current PBR/President's Budget	85.458	70.562	72.694
(U) Total Adjustments	-2.766	-0.433	
(U) Congressional Program Reductions		-0.241	
Congressional Rescissions		-0.192	
Congressional Increases			
Reprogrammings	-0.789		
SBIR/STTR Transfer	-1.977		
(U) <u>Significant Program Changes:</u>			
FY 10: Restructure of the GEMS and MMPU programs.			

Exhibit R-2a, RDT&E Project Justification

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BUDGET ACTIVITY 07 Operational System Development					PE NUMBER AND TITLE 0303131F Minimum Essential Emergency Communications Network (MEECN)			PROJECT NUMBER AND TITLE 2832 MEECN System Improvements		
Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
2832 MEECN System Improvements	1.996	2.209	1.806	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

(U) A. Mission Description and Budget Item Justification

- MEECN Systems Improvements (MSI) is a long-range planning process with Users (Air Combat Command (ACC), Air Force Space Command (AFSPC), US Strategic Command (USSTRATCOM), Air Mobility Command (AMC), and the Navy) to develop positions for current and future requirements/issues based on available technology.
- Trade-off analysis is performed to identify benefits and drawbacks of maintaining current systems. Studies are conducted to monitor communications system technology and potential integration complexities into current and future capabilities.
- MSI provides pro-active support to the Nuclear and National C2 community:
 - Develops an Air Force National Command and Control (NC2) Roadmap for FYDP budget inputs.
 - Partner with Navy on Common VLF Receiver requirements and architectural design.
- This program is in Budget Activity 07, Operational System Development, because it supports work on currently fielded weapon systems.

(U) B. Accomplishments/Planned Program (\$ in Millions)

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) VLF/LF Modernization Studies	0.300	0.600	0.600
(U) Nuclear Command & Control Performance Study (NC2 Roadmap) & simulator for testing of communication architectures	0.905	0.800	0.681
(U) Vol VII EAM format updates	0.200	0.200	
(U) Analytical Support	0.591	0.609	0.525
(U) Total Cost	1.996	2.209	1.806

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

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Complete</u>							
(U) None										

(U) D. Acquisition Strategy

- Johns Hopkins University (JHU) Applied Physics Lab (APL) is on contract to provide an NC2 Roadmap in terms of the New Triad.
- VLF/LF modernization is being coordinated with the Navy to identify potential common solutions.

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Exhibit R-3, RDT&E Project Cost Analysis

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BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0303131F Minimum Essential Emergency Communications Network (MEECN)	PROJECT NUMBER AND TITLE 2832 MEECN System Improvements
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(U) <u>Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior to FY 2008 Cost</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>FY 2010 Cost</u>	<u>FY 2010 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
(U) <u>Product Development</u>												
CEP Analysis	MIPR	JHU APL, Laurel, MD	0.805								0.805	0.805
NC2 Roadmap	MIPR	JHU APL, Laurel, MD	1.485	0.905	Oct-07	0.800	Jan-09	0.681	Dec-09	Continuing	TBD	TBD
Simulation/Modeling Equipment	MIPR	Lincoln Labs, Bedford, MA	2.224								2.224	2.224
Vol VII EAM Format Updates		GDCS, Needham, MA	0.300	0.200	Dec-07	0.200	Dec-08			Continuing	TBD	TBD
VLF/LF Modernization Studies	MIPR	SPAWAR, San Diego, CA		0.300	Jul-08	0.600	May-09	0.600	Jan-10	Continuing	TBD	TBD
Subtotal Product Development Remarks:			4.814	1.405		1.600		1.281		Continuing	TBD	TBD
(U) <u>Support</u>												
Engineering and Acquisition Support MITRE	Various LOE	Various Bedford, MA	7.075 0.633	0.591	Jan-08	0.609	Jan-09	0.525	Jan-10	Continuing	TBD 0.633	TBD 0.633
Subtotal Support Remarks:			7.708	0.591		0.609		0.525		Continuing	TBD	TBD
(U) <u>Test & Evaluation</u>												
Subtotal Test & Evaluation Remarks:			0.000	0.000		0.000		0.000		0.000	0.000	0.000
(U) <u>Management</u>												
Subtotal Management Remarks:			0.000	0.000		0.000		0.000		0.000	0.000	0.000
(U) Total Cost			12.522	1.996		2.209		1.806		Continuing	TBD	TBD

Exhibit R-4, RDT&E Schedule Profile

DATE

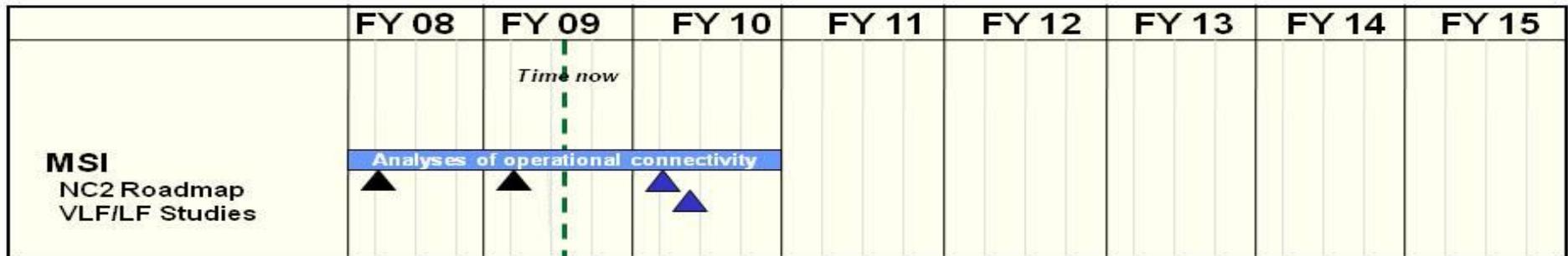
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BUDGET ACTIVITY
07 Operational System Development

PE NUMBER AND TITLE
0303131F Minimum Essential
Emergency Communications Network
(MEECN)

PROJECT NUMBER AND TITLE
2832 MEECN System Improvements

MSI Schedule



WST: Weapons System Test
DT/OT: Combined Developmental and Operational Testing
LDR: Low Data Rate

IOC: Initial Operational Capability
FOC: Full Operational Capability
XDR: Extended Data Rate

■ Concept activities
■ Production / fielding

■ Design / development
■ Operations / sustainment

■ Integration / test
△◇ Key events

Exhibit R-4a, RDT&E Schedule Detail

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07 Operational System Development

PE NUMBER AND TITLE

0303131F Minimum Essential
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(MEECN)

PROJECT NUMBER AND TITLE

2832 MEECN System Improvements

(U) Schedule Profile

FY 2008

FY 2009

FY 2010

(U) NC2 Roadmap Outbriefs

2Q

2Q

2Q

(U) VLF/LF Modernization Studies

2Q

Exhibit R-2a, RDT&E Project Justification

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BUDGET ACTIVITY 07 Operational System Development					PE NUMBER AND TITLE 0303131F Minimum Essential Emergency Communications Network (MEECN)			PROJECT NUMBER AND TITLE 4610 Minuteman MEECN Program Upgrade (MMPU)		
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Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
4610 Minuteman MEECN Program Upgrade (MMPU)	25.368	29.705	14.746	0.000	0.000	0.000	0.000	0.000	0.000	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

(U) A. Mission Description and Budget Item Justification

This project upgrades existing Minuteman ICBM Launch Control Center (LCC) Extremely High Frequency (EHF) communications to provide a capability for Missile Combat Crew Members to have operator control in the Launch Control Center of the terminal to switch among various EHF/AEHF satellite constellations and be compatible with Advanced EHF (AEHF).

AEHF is an Extended Data Rate (XDR) waveform that provides more secure transmit/receive at frequencies above 20 GHz. The AEHF terminal will provide both receive and report-back capability.

The terminal operator control modification will allow missile combat crews to transition between MILSTAR, UFO/E and UFO/EE satellite constellations without dispatch of a maintenance team. These modifications comply with USSTRATCOM requirement for MMP terminals to communicate at higher data rates.

This program is in Budget Activity 07, Operational System Development, because it supports work on fielded operating weapon systems.

(U) B. Accomplishments/Planned Program (\$ in Millions)

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) MMP Upgrade Technology Development			
(U) System Development and Demonstration (SDD) to include: AEHF terminal integration, AEHF modem design, cryptographic upgrade, weapon system hardness analysis, hardware development and software development for AEHF and improved operator control, analysis of power and cooling requirements, antenna integration, analysis of Software Compliant Architecture (SCA).	21.725	25.831	11.046
(U) Analytical Support	3.643	3.874	3.700
(U) Total Cost	25.368	29.705	14.746

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

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Complete</u>							
(U)										

(U) D. Acquisition Strategy

The ICBM Prime Integrating Contract (through OO-ALC, Hill AFB, UT) was used as a contracting vehicle for the Minuteman MEECN Program (MMP) and will

Exhibit R-2a, RDT&E Project Justification

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07 Operational System Development

PE NUMBER AND TITLE

**0303131F Minimum Essential
Emergency Communications Network
(MEECN)**

PROJECT NUMBER AND TITLE

**4610 Minuteman MEECN Program
Upgrade (MMPU)**

continue to be used to provide an advisory role for integration support for the MMP Upgrade program.

Two Concept and Technology Demonstration (C&TD) contracts were awarded to separate vendors following full and open competition. The MMP Upgrade System Development Demonstration (SDD) effort was a full and open competition and was awarded to Raytheon Company, Marlborough, MA.

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Exhibit R-3, RDT&E Project Cost Analysis

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BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0303131F Minimum Essential Emergency Communications Network (MEECN)	PROJECT NUMBER AND TITLE 4610 Minuteman MEECN Program Upgrade (MMPU)
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<u>(U) Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior to FY 2008 Cost</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>FY 2010 Cost</u>	<u>FY 2010 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
<u>(U) Product Development</u>												
MMP Development	SS/CPAF	Northrup Grumman	46.069								46.069	46.069
MMP Upgrade Technology Development	FFP	Rockwell Collins & Raytheon	16.566								16.566	16.566
MMP Upgrade Program Integrator (Advisor)	FFP	Northrup Grumman	0.612	1.345	Feb-08	2.000	Dec-08	3.867	Dec-09		7.824	4.957
MMP Upgrade System Development and Demonstration (SDD)	CPAF	Raytheon Company	2.277	20.380	Jan-08	23.831	Dec-08	7.179	Dec-09	Continuing	TBD	TBD
Subtotal Product Development			65.524	21.725		25.831		11.046		Continuing	TBD	TBD
Remarks:												
<u>(U) Support</u>												
Engineering and Acquisition Support	LOE	Various	4.025	1.633	Dec-07	1.100	Dec-08	1.500	Dec-09	Continuing	TBD	TBD
MITRE			1.941	1.763	Oct-07	0.850	Oct-08	1.900	Oct-09		6.454	5.125
PMA			0.237	0.186	Dec-07	0.202	Dec-08	0.100	Dec-09		0.725	0.625
Subtotal Support			6.203	3.582		2.152		3.500		Continuing	TBD	TBD
Remarks:												
<u>(U) Test & Evaluation</u>												
Various	Various	Various	0.168	0.061	Mar-08	1.722	Mar-09	0.200	Mar-10		2.151	3.430
Subtotal Test & Evaluation			0.168	0.061		1.722		0.200		0.000	2.151	3.430
Remarks:												
<u>(U) Management</u>												
Subtotal Management			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
<u>(U) Total Cost</u>			71.895	25.368		29.705		14.746		Continuing	TBD	TBD

Exhibit R-4, RDT&E Schedule Profile

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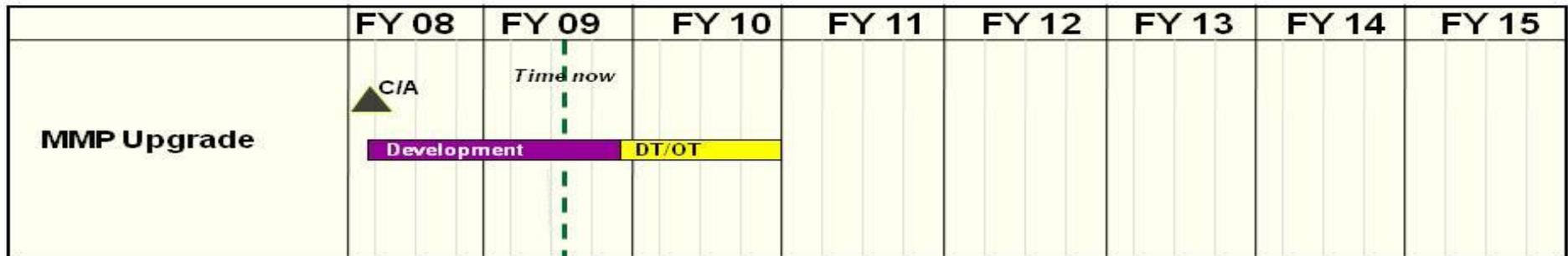
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BUDGET ACTIVITY
07 Operational System Development

PE NUMBER AND TITLE
0303131F Minimum Essential
Emergency Communications Network
(MEECN)

PROJECT NUMBER AND TITLE
4610 Minuteman MEECN Program
Upgrade (MMPU)

MMP Upgrade Schedule



WST: Weapons System Test
DT/OT: Combined Developmental and Operational Testing
LDR: Low Data Rate

IOC: Initial Operational Capability
FOC: Full Operational Capability
XDR: Extended Data Rate

■ Concept activities
■ Production / fielding

■ Design / development
■ Operations / sustainment

■ Integration / test
△◇ Key events

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Exhibit R-4a, RDT&E Schedule Detail	DATE May 2009
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BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0303131F Minimum Essential Emergency Communications Network (MEECN)	PROJECT NUMBER AND TITLE 4610 Minuteman MEECN Program Upgrade (MMPU)
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	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) <u>Schedule Profile</u>			
(U) Award MMP Upgrade Program System Development & Demonstration (SDD)	2Q		
(U) Continue SDD	2-4Q	1-4Q	1-4Q
(U) Integration and Test			1-4Q

Exhibit R-2a, RDT&E Project Justification

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BUDGET ACTIVITY 07 Operational System Development					PE NUMBER AND TITLE 0303131F Minimum Essential Emergency Communications Network (MEECN)			PROJECT NUMBER AND TITLE 5047 Ground Element MEECN System (GEMS)		
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Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
5047 Ground Element MEECN System (GEMS)	58.094	38.648	56.142	0.000	0.000	0.000	0.000	0.000	0.000	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

(U) A. Mission Description and Budget Item Justification

Ground Element MEECN Systems (GEMS) will be comprised of EHF/AEHF, VLF/LF, HF, UHF and Aircrew Alerting components and will provide secure, survivable inter-site, intra-site and mobile communications to bomber, tanker, reconnaissance and other communications facilities with strategic responsibilities. GEMS terminals will be developed and fielded to replace strategic mobile and fixed-site Single Channel Anti-jam Man-Portable (SCAMP) terminals. GEMS will also replace the Aircraft Alerting Communications Electromagnetic Pulse System/Electromagnetic Pulse Hardened Dispersal Communications (AAACE/EHDC) systems.

- GEMS' primary mission is to provide strategic Wing Command Posts and mobile support teams survivable communication paths to receive EAMs and Force Management messages from Nuclear Command and Control (NC2) nodes and disseminate them to bomber, tanker, and recce aircrews, as specified by OPLAN 8044.

- GEMS 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 - GEMS is the last line of operational comm when all other peacetime links fail.

This program is in Budget Activity 07, Operational System Development, because it supports work on fielded operating weapon systems.

(U) B. Accomplishments/Planned Program (\$ in Millions)

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) System Development and Demonstration (SDD) contract to include: EHF, VLF, HF and UHF terminal integration; EHF, VLF, HF and UHF modem design; cryptographic upgrade; weapon system hardness analysis; EHF, VLF, HF and UHF hardware development; EHF, VLF, HF and UHF software development; analysis of power and cooling requirements, antenna integration, analysis of Software Compliant Architecture (SCA); and pager/klaxon system development.	52.490	32.976	49.883
(U) Analytical Support	5.604	5.672	6.259
(U) Total Cost	58.094	38.648	56.142

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

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Complete</u>							
(U)										

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07 Operational System Development

PE NUMBER AND TITLE

0303131F Minimum Essential
Emergency Communications Network
(MEECN)

PROJECT NUMBER AND TITLE

5047 Ground Element MEECN System
(GEMS)(U) D. Acquisition Strategy

Two Concept and Technology Demonstration (C&TD) contracts were awarded to separate vendors following full and open competition. Rockwell Collins of Cedar Rapids, IA was awarded the SDD (CPAF) and production contract on 23 June 2005.

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Exhibit R-3, RDT&E Project Cost Analysis

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BUDGET ACTIVITY				PE NUMBER AND TITLE						PROJECT NUMBER AND TITLE		
07 Operational System Development				0303131F Minimum Essential Emergency Communications Network (MEECN)						5047 Ground Element MEECN System (GEMS)		
(U) <u>Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior to FY 2008 Cost</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>FY 2010 Cost</u>	<u>FY 2010 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
(U) <u>Product Development</u>												
SDD Contract	CPAF	Rockwell Collins, IA	86.822	52.490	Oct-07	32.976	Dec-08	49.883	Dec-09	Continuing	TBD	TBD
Subtotal Product Development			86.822	52.490		32.976		49.883		Continuing	TBD	TBD
Remarks:												
(U) <u>Support</u>												
Engineering and Acquisition Support	Various	Various	6.673	2.482	Dec-07	1.440	Dec-08	3.000	Dec-09	Continuing	TBD	TBD
MITRE	MIPR	Bedford, MA	4.081	2.124	Oct-07	1.230	Oct-08	2.300	Oct-09	Continuing	TBD	TBD
PMA			1.410	0.468	Dec-07	0.980	Dec-08	0.600	Dec-09	Continuing	TBD	TBD
Subtotal Support			12.164	5.074		3.650		5.900		Continuing	TBD	TBD
Remarks:												
(U) <u>Test & Evaluation</u>												
Various	Various	Various	0.785	0.530	Mar-08	2.022	Mar-09	0.359	Mar-10	Continuing	TBD	TBD
Subtotal Test & Evaluation			0.785	0.530		2.022		0.359		Continuing	TBD	TBD
Remarks:												
(U) <u>Management</u>												
Subtotal Management			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) Total Cost			99.771	58.094		38.648		56.142		Continuing	TBD	TBD

Exhibit R-4, RDT&E Schedule Profile

DATE

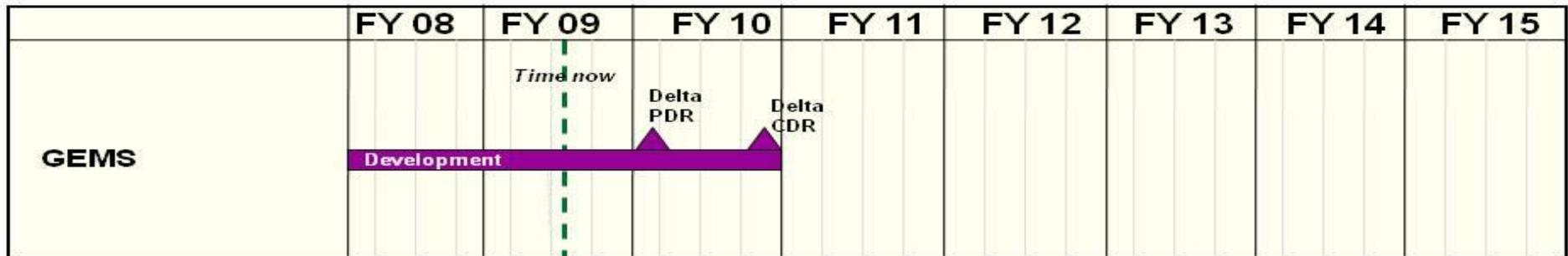
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BUDGET ACTIVITY
07 Operational System Development

PE NUMBER AND TITLE
0303131F Minimum Essential
Emergency Communications Network
(MEECN)

PROJECT NUMBER AND TITLE
5047 Ground Element MEECN System
(GEMS)

GEMS Schedule



WST: Weapons System Test
DT/OT: Combined Developmental and Operational Testing
LDR: Low Data Rate

IOC: Initial Operational Capability
FOC: Full Operational Capability
XDR: Extended Data Rate

■ Concept activities
■ Production / fielding

■ Design / development
■ Operations / sustainment

■ Integration / test
△◇ Key events

Exhibit R-4a, RDT&E Schedule Detail	DATE May 2009
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BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0303131F Minimum Essential Emergency Communications Network (MEECN)	PROJECT NUMBER AND TITLE 5047 Ground Element MEECN System (GEMS)
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(U) <u>Schedule Profile</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) SDD	1-4Q	1-4Q	1-4Q
(U) PDR			1Q
(U) CDR			4Q