Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Air Force

R-1 ITEM NOMENCLATURE

3600: Research, Development, Test & Evaluation, Air Force

APPROPRIATION/BUDGET ACTIVITY

PE 0603430F: Advanced (EHF MILSATCOM (Space)

DATE: February 2011

BA 4: Advanced Component Development & Prototypes (ACD&P)

=:	<i>p</i>	1019/000 (7.0	/								
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	456.238	351.817	421.687	-	421.687	392.884	360.969	343.483	215.929	Continuing	Continuing
644050: Advanced MILSATCOM	456.238	351.817	279.495	-	279.495	160.278	64.357	37.938	-	Continuing	Continuing
64A030: Evolved AEHF MILSATCOM	-	-	142.192	-	142.192	232.606	296.612	305.545	215.929	Continuing	Continuing

Note

Totals include funding for PRCP Program Number 261, AEHF.

The program funding includes Overhead reduction and Reports/Studies/ Boards/Reviews efficiencies that are not intended to impact program content. The efficiencies reductions total \$4.3M in FY12.

The Capability and Affordability Insertion Program (CAIP) is funded in BPAC 64A030, Evolved AEHF MILSATCOM. Prior to FY12PB, BPAC 64A030 funds were included in BPAC 644050.

A. Mission Description and Budget Item Justification

Develop and acquire Advanced Extremely High Frequency (AEHF) Military Satellite Communications (MILSATCOM) satellites, mission control segment and cryptography for survivable, anti-jam, worldwide, secure communications for the strategic and tactical warfighters. AEHF satellites will replenish the existing EHF system (Milstar) providing much higher capacity and data rate (5x increase over Milstar II) capabilities. AEHF is a cooperative program that includes International Partners (Canada, the United Kingdom, and the Kingdom of the Netherlands).

Space Vehicle-1 (SV-1) launched on 14 August 2010. SV-1 experienced a propulsion anomaly and is being raised to its geostationary orbit using alternative orbit raising techniques. SV-1 is projected to reach its on-orbit checkout location in August 2011. SV-2 is in storage and has a No-Earlier-Than (NET) 2QFY12 launch availability. The FY12 funds efforts such as SV-2 launch and on-orbit test & operations support, incremental Mission Control Segment (MCS) development including ground mobile command and control, test/fielding and support, and studies/analyses as required.

With SV-1 launched and SV-2 in storage, the AEHF program has nearly completed its development phase and is now addressing obsolescence, production continuity, supplier stability and industrial base issues. The Evolutionary Acquisition for Space Efficiency (EASE) approach is designed to address obsolescence issues (e.g., SV-6 crypto redevelopment, obsolescence/Diminishing Manufacturing Sources studies) as well as implement a Capability and Affordability Improvement (CAIP) program for SVs 7-8 that will employ key engineering staff with savings realized from a production block buy of satellites (i.e., SVs 5-6). The FY12 funds focus on parts obsolescence and risk reduction activities informed by the FY11 Space Communications Layer (JSCL) Materiel Solutions Analysis (MSA). The fielding of new capabilities will be based on technical maturity to prevent introducing undue risk. Future architecture development occurs in parallel to develop the next generation capability and encourage advanced technological concepts.

Air Force Page 1 of 16 R-1 Line Item #31

Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Air Force DATE: February 2011

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

3600: Research, Development, Test & Evaluation, Air Force

PE 0603430F: Advanced (EHF MILSATCOM (Space)

BA 4: Advanced Component Development & Prototypes (ACD&P)

This program is in Budget Activity 4, Advanced Component Development and Prototypes, since it funds Advanced EHF technology validation and modeling.

B. Program Change Summary (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	461.380	351.817	740.127	-	740.127
Current President's Budget	456.238	351.817	421.687	-	421.687
Total Adjustments	-5.142	-	-318.440	-	-318.440
 Congressional General Reductions 		-			
 Congressional Directed Reductions 		-			
 Congressional Rescissions 	-	-			
 Congressional Adds 		-			
 Congressional Directed Transfers 		-			
 Reprogrammings 	-	-			
SBIR/STTR Transfer	-3.205	-			
Other Adjustments	-1.937	-	-318.440	-	-318.440

Change Summary Explanation

FY12 funds were adjusted to address AEHF Capability and Affordability Insertion Program (CAIP) ramp management; funding is sufficient to address parts obsolescence and risk reduction of key technologies required to enhance AEHF.

Air Force Page 2 of 16 R-1 Line Item #31

DATE: February 2011

EXHIBIT N-2A, ND TOLE PROJECT JUST	ilication. FL	2012 All F	JICE					DATE. February 2011			
APPROPRIATION/BUDGET ACTIV	PROPRIATION/BUDGET ACTIVITY					URE					
3600: Research, Development, Test	rch, Development, Test & Evaluation, Air Force			PE 0603430	DF: Advance	d (EHF MILS	lvanced MILSATCOM				
BA 4: Advanced Component Develo	pment & Pro	ototypes (AC	D&P)	(Space)							
COST (¢ in Millions)			FY 2012	FY 2012	FY 2012					Cost To	
COST (\$ in Millions)	FY 2010	FY 2011	Base	oco	Total	FY 2013	FY 2014	FY 2015	FY 2016	Complete	Total Cost
644050: Advanced MILSATCOM	456.238	351.817	279.495	-	279.495	160.278	64.357	37.938	-	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

Note

Totals include funding for PRCP Program Number 261, AEHF.

Exhibit P-24 PDT&E Project Justification: DR 2012 Air Force

A. Mission Description and Budget Item Justification

Develop and acquire Advanced Extremely High Frequency (AEHF) Military Satellite Communications (MILSATCOM) satellites, mission control segment and cryptography for survivable, anti-jam, worldwide, secure communications for the strategic and tactical warfighters. AEHF satellites will replenish the existing EHF system (Milstar) providing much higher capacity and data rate (5x increase over Milstar II) capabilities.

AEHF is a cooperative program that includes International Partners (Canada, the United Kingdom, and the Kingdom of the Netherlands).

Space Vehicle-1 (SV-1) launched on 14 August 2010. SV-1 experienced a propulsion anomaly and is being raised to its geostationary orbit using alternative orbit raising techniques. SV-1 is projected to reach its on-orbit checkout location in August 2011. SV-2 is in storage and has a No-Earlier-Than (NET) 2QFY12 launch availability. The FY12 funds efforts such as SV-2 launch and on-orbit test & operations support, incremental Mission Control Segment (MCS) development including ground mobile command and control, test/fielding and support, and studies/analyses as required.

B. Accomplishments/Planned Programs (\$ in Millions)			FY 2012	FY 2012	FY 2012
	FY 2010	FY 2011	Base	осо	Total
Title: AEHF SVs 1-2, MCS	456.238	351.817	279.495	-	279.495
Description: Develop and acquire AEHF MILSATCOM satellites, mission control segment, and cryptography					
FY 2010 Accomplishments: In FY 2010, completed SV-1 Final Integrated System Test (FIST), launch readiness and launch. Completed SV-2 Integration and Test, FIST, and Intersegment test. Delivered MCS Increment 4 to support AEHF-Milstar Command and Control (C2) cutover and SV-1 launch operations and completed MCS Increment 5. Conducted Interim Contractor Suport, continued technology needs forecasting, obsolescence studies, and initiated an AEHF Capability Insertion Program (CIP) [FY09 OMNIBUS funds]. Conducted qualification and productization of radiation-hardened components for USAF/DOD space programs [FY09 OMNIBUS funds].					
FY 2011 Plans:					

Air Force Page 3 of 16 R-1 Line Item #31

Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force		DATE: February 2011	
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
3600: Research, Development, Test & Evaluation, Air Force	PE 0603430F: Advanced (EHF MILSATCOM	644050: Ad	Ivanced MILSATCOM
BA 4: Advanced Component Development & Prototypes (ACD&P)	(Space)		

B. Accomplishments/Planned Programs (\$ in Millions)			FY 2012	FY 2012	FY 2012
	FY 2010	FY 2011	Base	oco	Total
In FY 2011, conduct SV-1 on-orbit test and maintain SV-2 in environmentally-controlled storage. Deliver MCS Increment 5 and complete MCS Increment 7. Conduct Interim Contractor Support, continue program office support and related activities, continue technology needs forecasting, obsolescence studies, and support Capability and Insertion Program (CIP) for future capability enhancements.					
FY 2012 Base Plans: In FY 2012, continue SV-1 on-orbit test and initiate operations. Complete SV-2 launch readiness, launch, and on-orbit test/operations. Deliver MCS Increment 7. Conduct Interim Contractor Support, continue program office support and related activities, and conduct studies/analyses, as required.					
FY 2012 OCO Plans:					
Accomplishments/Planned Programs Subtotals	456.238	351.817	279.495	-	279.495

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

			FY 2012	FY 2012	FY 2012					Cost To	
<u>Line Item</u>	FY 2010	FY 2011	Base	OCO	<u>Total</u>	FY 2013	FY 2014	FY 2015	FY 2016	Complete	Total Cost
Related Proc: Title Not Provided	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
• PE 0303604F: Advanced EHF,	1,836.687	246.598	552.833	0.000	552.833	555.421	542.388	486.405	686.469	Continuing	Continuing
MPAF											
• PE 0603854F: Wideband	24.685	18.174	12.804	0.000	12.804	12.494	14.548	17.492	17.801	Continuing	Continuing
MILSATCOM (Space), Project											
#644870, CCS-C, RDT&E											
• PE 0303601F: <i>MILSATCOM</i>	239.352	186.582	238.729	0.000	238.729	136.666	15.970	13.030	13.275	Continuing	Continuing
Terminals, RDT&E											

D. Acquisition Strategy

The Advanced MILSATCOM, also known as Advanced EHF (AEHF), program is a sole source acquisition to a contractor team comprised of Lockheed Martin (prime/integrator) and Northrop-Grumman (provider of the satellite payload). This team will perform the Advanced Component Development and Prototypes (ACD&P) and Systems Development and Demonstration (SDD) of two RDT&E-funded satellites and associated mission command and control ground capabilities under Cost Plus Award Fee line items on the contract. AEHF will incorporate lessons learned and improvements from Milstar and commercial SATCOM practices into the next generation EHF secure, anti-jam military communications satellite system.

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 ITEM NOMENCLATURE PE 0603430F: Advanced (EHF MILSATCOM (Space)	PROJECT 644050: <i>Ad</i>	dvanced MILSATCOM
E. Performance Metrics Please refer to the Performance Base Budget Overview Book for inf Force performance goals and most importantly, how they contribute		nd how those	e resources are contributing to Air

Air Force Page 5 of 16 R-1 Line Item #31

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Air Force

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

PE 0603430F: Advanced (EHF MILSATCOM

(Space)

_

DATE: February 2011

PROJECT

644050: Advanced MILSATCOM

Product Development ((\$ in Millio	ns)		FY 2	2011	FY 2 Ba			2012 CO	FY 2012 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
Cryptographic Development	MIPR	NSA:Camden, NJ	252.730	9.300	Dec 2010	10.500		-		10.500	Continuing	Continuing	0.000
Terminals Engineering	C/CPFF	JTEO:San Diego, CA	15.491	-		-		-		-	0.000	15.491	0.000
MILSATCOM Technology Validation	SS/CPAF	MIT/LL:Lexington, MA	21.538	-		-		-		-	0.000	21.538	0.000
Technical Support	SS/CPAF	MITRE:Bedford, MA	0.779	-		-		-		-	0.000	0.779	0.000
Processing Subsystem Engineering Model	Various	Hughes:El Segundo, CA	67.175	-		-		-		-	0.000	67.175	0.000
Processing Subsystem Engineering Model (2)	Various	TRW:Redondo Beach,	62.083	-		-		-		-	0.000	62.083	0.000
Technical Projects	Various	Various:Various,	66.659	-		-		-		-	0.000	66.659	0.000
Pre-EMD	Various	Lockheed Martin:Sunnyvale, CA	225.011	-		-		-		-	0.000	225.011	0.000
SDD	Various	Lockheed Martin:Sunnyvale, CA	4,648.036	213.817	Dec 2010	135.295	Dec 2010	-		135.295	Continuing	Continuing	0.000
Interim Contractor Support	Various	Lockheed Martin:Sunnyvale, CA	78.300	54.900	Dec 2010	83.000	Dec 2011	-		83.000	Continuing	Continuing	0.000
Radiation Hardened parts developers	Various	Various:Various,	117.480	-		-		-		-	0.000	117.480	0.000
	*	Subtotal	5,555.282	278.017		228.795		-		228.795			0.000

Support (\$ in Millions)				FY 2	2011		2012 Ise		2012 CO	FY 2012 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
Various	Various	Not specified.:,	123.696	-		-		-		-	0.000	123.696	0.000
Technical Support	Various	Not specified.:,	100.371	12.800	Dec 2009	4.900	Dec 2010	-		4.900	Continuing	Continuing	0.000
GFP	Various	Not specified.:,	22.437	14.900	Dec 2010	12.700		-		12.700	0.000	50.037	0.000
Program Office Support	Various	Not specified.:,	146.556	46.100	Dec 2010	33.100	Dec 2010	-		33.100	Continuing	Continuing	0.000
		Subtotal	393.060	73.800		50.700		-		50.700			0.000

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Air Force

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force
BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE
PE 0603430F: Advanced (EHF MILSATCOM (Space)

(Space)

est and Evaluation (\$	in Millions)		FY 2	011	FY 2 Ba		FY 2		FY 2012 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
		Subtotal	-	-		-		-		-	0.000	0.000	0.00
Management Services	(\$ in Millio	ns)		FY 2	011	FY 2 Ba		FY 2		FY 2012 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
		Subtotal	-	-		-		-		-	0.000	0.000	0.00
			Total Prior Years Cost	FY 2	011	FY 2 Ba		FY 2		FY 2012 Total	Cost To	Total Cost	Target Value of Contract
		Project Cost Totals	5,948.342	351.817		279.495		-		279.495			0.00

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Air Force	DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force 3A 4: Advanced Component Development & Prototypes (ACD&P)	R-1 ITEM NOMENCLATURE PE 0603430F: Advanced (EHF MILSATCOM (Space)	PROJECT 644050: Advanced MILSATCOM	

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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Air Force **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE PROJECT

3600: Research, Development, Test & Evaluation, Air Force PE 0603430F: Advanced (EHF MILSATCOM 644050: Advanced MILSATCOM BA 4: Advanced Component Development & Prototypes (ACD&P)

(Space)

Schedule Details

	St	art	End		
Events	Quarter	Year	Quarter	Year	
Field Ground Segment Software Increment 4 (World-wide Flight and Payload Control of 5 Milstar satellites and 1 AEHF satellite - BWC Products)	3	2010	3	2010	
Launch first AEHF satellite	4	2010	4	2010	
Field Ground Segment Software Increment 5 (eXtended Data Rate)	3	2011	3	2011	
Launch second AEHF satellite	2	2012	2	2012	
Field Ground Segment Software Increment 7 (eXtended Data Rate capability to International Partners)	3	2012	3	2012	

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DATE: February 2011

	ROPRIATION/BUDGET ACTIVITY Research, Development, Test & Evaluation, Air Force Advanced Component Development & Prototypes (ACD&P)					R-1 ITEM NOMENCLATURE PE 0603430F: Advanced (EHF MILSATCOM (Space) PROJECT 64A030: Evolved AEHF MILSATCO					М
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
64A030: Evolved AEHF MILSATCOM	-	-	142.192	-	142.192	232.606	296.612	305.545	215.929	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

Note

The AEHF Capability and Affordability Insertion Program (CAIP) begins in FY12. Prior to the FY12PB, BPAC 64A030 funds were included in BPAC 644050.

A. Mission Description and Budget Item Justification

Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force

This project funds the AEHF Capability and Affordability Insertion Program (CAIP) which advances capability maturation for insertion in future space vehicle increments (i.e., SV 7-8) and establishes long-term, strategic innovation of advanced capabilities. CAIP supports the replenishment of AEHF satellites which will be procured through the Department of Defense (DOD) Evolutionary Acquisition for Space Efficiency (EASE) approach. EASE enables stable production, strategic sub-tier management and a capability and affordability insertion program. The AEHF satellite design has been frozen for many years and several systems with obsolete parts now require substantial redesign efforts to accommodate more modern replacements. CAIP technology refresh will be prioritized in joint coordination with the user and be incrementally implemented to mitigate schedule delivery impacts and ground mission control segment changes. The redesign will also result in improved manufacturability, fewer boxes and lower recurring costs. The FY12 funds focus on parts obsolescence (e.g., SV-6 crypto redesign). Also, the FY12 funds Protected SATCOM studies to include Broad Agency Announcements (BAA), alternative definition efforts, efforts to mature future SATCOM capabilities enhancements that may lead to a more capable protected SATCOM technology, technology demonstrations, AoA efforts, and program office and related activities. The FY11 Space Communications Layer (JSCL) Materiel Solutions Analysis (MSA) will inform risk reduction activities.

B. Accomplishments/Planned Programs (\$ in Millions)			FY 2012	FY 2012	FY 2012
	FY 2010	FY 2011	Base	OCO	Total
Title: Evolved AEHF	-	-	130.692	-	130.692
Description: AEHF parts obsolescence redesign effort and CAIP risk reduction activities.					
FY 2010 Accomplishments: Not applicable.					
FY 2011 Plans: Not applicable.					
FY 2012 Base Plans: Funds parts obsolescence redesign to include SV-6 crypto redevelopment, SV 7-8 CAIP acquisition architecture and strategy program with risk reduction activities informed by the FY11 JSCL MSA, Program Office support and other related activities. AoA efforts. Information Assurance efforts, technology demonstrations, SATCOM					

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Exhibit R-2A, RDT&E Project Just	ification: PB	2012 Air For	rce						DATE: Febr	uary 2011	
APPROPRIATION/BUDGET ACTIV 3600: Research, Development, Test BA 4: Advanced Component Develo	& Evaluation,		F	R-1 ITEM NO PE 0603430 (<i>Space</i>)		URE I (EHF MILSA	I	PROJECT 64A030: <i>E</i>	volved AEHF	М	
B. Accomplishments/Planned Pro	grams (\$ in N	<u>/lillions)</u>					FY 201	0 FY 201	FY 2012 I1 Base	FY 2012 OCO	FY 2012 Total
technology needs efforts, and produ space programs.	ction and qua	lification of r	adiation-har	dended com	ponents for	SAF/DoD					
FY 2012 OCO Plans: Not applicable.											
Title: Protected MILSATCOM Archit	tecuture studie	es						-	- 11.500	-	11.500
Description: Protected MILSATCO	M Enterprise	architecture	planning and	d studies							
FY 2010 Accomplishments: Not applicable.											
FY 2011 Plans: Not applicable.											
FY 2012 Base Plans: Funds protected MILSATCOM archi AEHF block buy increments, Protect and risk mitigation and alternative de	ted BAAs, cap	ability enha	•				5				
FY 2012 OCO Plans: Not applicable.											
			Accomplis	hments/Plar	nned Progra	ams Subtotal	s	-	- 142.192	2 -	142.192
C. Other Program Funding Summa	ary (\$ in Milli	ons)									
1.500.00	EV 0046	EV 6544	FY 2012	FY 2012	FY 2012	FV 6646	EV 664:	FV 00 1 -	FV 0045	Cost To	T-4-10
Line Item • PE 0604436F: Next Generation MILSATCOM Technology, RDT&E	FY 2010 49.791	FY 2011 0.000	<u>Base</u> 0.000	<u>OCO</u> 0.000	<u>Total</u> 0.000	FY 2013 0.000	FY 2014 0.000	FY 2015		Complete Continuing	
• PE 0303604F: Advanced EHF, MPAF	1,836.687	246.598	552.833	0.000	552.833	555.421	542.388	486.405	686.469	Continuing	Continuing

D. Acquisition Strategy

AEHF CAIP will include parts obsolescence redesign and incremental capability upgrades for future block buys contracted with the current prime contractor. Architecture studies for next generation capabilities will include full and open competition efforts.

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force		DATE: February 2011	
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 ITEM NOMENCLATURE PE 0603430F: Advanced (EHF MILSATCOM (Space)	PROJECT 64A030: <i>E</i>	volved AEHF MILSATCOM
E. Performance Metrics Please refer to the Performance Base Budget Overview Book for interpretable Force performance goals and most importantly, how they contribute		nd how those	e resources are contributing to Air

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Air Force

DATE: February 2011

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

PE 0603430F: Advanced (EHF MILSATCOM

(Space)

PROJECT

64A030: Evolved AEHF MILSATCOM

Product Development (in Millio	ns)		FY:	FY 2011				FY 2012 OCO				
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
Evolved AEHF Capability & Affordability Insertion Program (CAIP)	SS/TBD	Lockheed Martin:Sunnyvale, CA	-	-		45.023	Dec 2011	-		45.023	Continuing	Continuing	TBD
AEHF Parts Obsolescence	SS/CPIF	Lockheed Martin:Sunnyvale, CA	-	-		49.800	Dec 2011	-		49.800	0.000	49.800	0.000
Radiation Hardened Parts developers	Various	Various:,	-	-		20.000	Dec 2011	-		20.000	0.000	20.000	0.000
		Subtotal	-	-		114.823		-		114.823			

Support (\$ in Millions)	upport (\$ in Millions)			FY 2011			2012 Ise		2012 CO	FY 2012 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
Technical & Analysis Support	WR	MIT/Lincoln Lab:Lexington, MA	-	-		7.800	Dec 2011	-		7.800	Continuing	Continuing	0.000
Program Office Support & Other Related Activities	Various	Various:,	-	-		8.069	Dec 2011	-		8.069	Continuing	Continuing	0.000
Protected MILSATCOM Architecture Studies	Various	The Aerospace Corporation:El Segundo, CA	-	-		11.500	Dec 2011	-		11.500	0.000	11.500	0.000
		Subtotal	-	-		27.369		-		27.369			0.000

Test and Evaluation (\$	in Millions)		FY:	2011		2012 ise		2012 CO	FY 2012 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
		Subtotal	-	-		-		-		-	0.000	0.000	0.000

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Air Force

DATE: February 2011

APPROPRIATION/BUDGET ACTIVITY

Project Cost Totals

R-1 ITEM NOMENCLATURE PROJECT

3600: Research, Development, Test & Evaluation, Air Force BA 4: Advanced Component Development & Prototypes (ACD&P) PE 0603430F: Advanced (EHF MILSATCOM (Space)

64A030: Evolved AEHF MILSATCOM

Management Services	Management Services (\$ in Millions)			FY	2011		2012 ise		2012 CO	FY 2012 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
		Subtotal	-	-		-		-		-	0.000	0.000	0.000

	Total Prior Years Cost	FY 2	2011		2012 se	FY 2	2012 CO	FY 2012 Total	Cost To Complete	Total Cost	Target Value of Contract
;	-	-		142.192		_		142.192			

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2012 Air Force		DATE : February 2011
APPROPRIATION/BUDGET ACTIVITY 8600: Research, Development, Test & Evaluation, Air Force 8A 4: Advanced Component Development & Prototypes (ACD&P)	R-1 ITEM NOMENCLATURE PE 0603430F: Advanced (EHF MILSATCOM (Space)	PROJECT 64A030: Evolved AEHF MILSATCOM
4.4. Advanced Component Development & Prototypes (ACD&P)	(Space)	

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Air Force Page 15 of 16 R-1 Line Item #31

Exhibit R-4A, RDT&E Schedule Details: PB 2012 Air Force

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force
BA 4: Advanced Component Development & Prototypes (ACD&P)

BA 5: February 2011

R-1 ITEM NOMENCLATURE
PE 0603430F: Advanced (EHF MILSATCOM (Space)

PROJECT
64A030: Evolved AEHF MILSATCOM (Space)

Schedule Details

	St	art	End		
Events	Quarter	Year	Quarter	Year	
JCSL AoA MDD	3	2012	1	2014	
AEHF SV 7-8 CAIP Contract Award	3	2012	3	2012	
AEHF SV 7-8 CAIP Milestone A decision	4	2012	4	2012	

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