

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item 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 0303601F: MILSATCOM Terminals							
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	1,841.726	235.769	107.237	140.170	-	140.170	55.897	3.979	0.000	0.000	Continuing	Continuing
672487: MILSATCOM Terminals	1,841.726	193.769	107.237	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
672489: FAB-T Alternative	0.000	42.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
672490: Family of Advanced Beyond Line-of-Sight Terminals (FAB-T)	0.000	0.000	0.000	140.170	-	140.170	55.897	3.979	0.000	0.000	Continuing	Continuing
MDAP/MAIS Code(s): 199												
# 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												
FY12 Congressional Add funding of \$42M for FAB-T Alternative is executed from project 672489 within this program element. FY13 funding for FAB-T continues in project 672487 within this program element. FY14 funding for FAB-T continues in project 672490 within this program element.												
A. Mission Description and Budget Item Justification												
The Military Satellite Communications (MILSATCOM) terminals program develops and fields equipment enabling users to communicate via legacy and future systems to include Milstar, Advanced Extremely High Frequency (AEHF), Ultra High Frequency (UHF) Follow-On (UFO), Wideband Global SATCOM (WGS), Defense Satellite Communication System (DSCS), Enhanced Polar Systems (EPS), and other military and commercial satellites, to support tactical Air and Space Expeditionary Force requirements and maintain essential connectivity for strategic forces. Program RDT&E currently includes the following program efforts:												
1) Concept development work to identify commercial/military technology solutions to improve MILSATCOM terminal capabilities for the warfighters. Focus includes, but is not limited to, increasing throughput, facilitating sustainability, reducing footprint on existing user platform and future concept terminals to provide more resilient and/ or higher data rate satellite communications to warfighters.												
2) The Family of Advanced Beyond Line-of-Sight Terminals (FAB-T) program replaces legacy Milstar terminals and will provide Extremely High Frequency (EHF), protected high data rate communication for nuclear and conventional forces to include Presidential National Voice Conferencing (PNVC). FAB-T will provide this new, highly secure, state-of-the-art capability to strategic and tactical airborne and ground command posts via Milstar, AEHF, and Enhanced Polar System (EPS) satellites. FAB-T terminals will also support the critical command and control (C2) of the Milstar, AEHF, and EPS satellite constellations. In FY14, the Air Force will continue development of the FAB-T terminal.												
3) The Joint Terminal Engineering Office (JTEO) provides tri-service coordination of terminal development, acquisition and fielding activities.												

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APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOMENCLATURE			
3600: Research, Development, Test & Evaluation, Air Force		PE 0303601F: MILSATCOM Terminals			
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	236.581	107.237	157.787	-	157.787
Current President's Budget	235.769	107.237	140.170	-	140.170
Total Adjustments	-0.812	0.000	-17.617	-	-17.617
• Congressional General Reductions	-	0.000			
• Congressional Directed Reductions	-	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	-	0.000			
• Congressional Directed Transfers	-	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	-0.812	0.000	-17.617	-	-17.617
Change Summary Explanation					
FY14 Other Adjustments: -\$17.617M for higher department 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 0303601F: MILSATCOM Terminals				PROJECT 672487: MILSATCOM Terminals			
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
672487: MILSATCOM Terminals	1,841.726	193.769	107.237	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												
A. Mission Description and Budget Item Justification												
The Military Satellite Communications (MILSATCOM) terminals program develops and fields equipment enabling users to communicate via legacy and future systems to include Milstar, Advanced Extremely High Frequency (AEHF), Ultra High Frequency (UHF) Follow-On (UFO), Wideband Global SATCOM (WGS), Defense Satellite Communication System (DSCS), Enhanced Polar Systems (EPS), and other military and commercial satellites, to support tactical Air and Space Expeditionary Force requirements and maintain essential connectivity for strategic forces. Program RDT&E currently includes the following program efforts:												
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2) The Family of Advanced Beyond Line-of-Sight Terminals (FAB-T) program replaces legacy Milstar terminals and will provide Extremely High Frequency (EHF), protected high data rate communication for nuclear and conventional forces to include Presidential National Voice Conferencing (PNVC). FAB-T will provide this new, highly secure, state-of-the-art capability to strategic and tactical airborne and ground command posts via Milstar, AEHF, and Enhanced Polar System (EPS) satellites. FAB-T terminals will also support the critical command and control (C2) of the Milstar, AEHF, and EPS satellite constellations. In FY14, the Air Force will continue development of the FAB-T terminal.												
3) The Joint Terminal Engineering Office (JTEO) provides tri-service coordination of terminal development, acquisition and fielding activities.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2012	FY 2013	FY 2014	
Title: FAB-T Boeing Development									184.616	79.723	0.000	
Description: Develop FAB-T command post and airborne wideband terminals.												
FY 2012 Accomplishments: Continued software development, integration and testing for the FAB-T terminals and converted Boeing development contract to Firm Fixed-Price												
FY 2013 Plans:												

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B. Accomplishments/Planned Programs (\$ in Millions)									FY 2012	FY 2013	FY 2014
Continue software development; will begin Flight Testing and Functional Qualificational Testing for FAB-T.											
Title: FAB-T Raytheon Development									0.000	18.000	0.000
Description: Develop FAB-T command post terminals.											
FY 2013 Plans: Raytheon will continue development and accomplish Preliminary and Critical Design Review											
Title: MILSATCOM Terminals									9.153	9.514	0.000
Description: Conduct concept development, prototype demonstrations and maintain the MILSATCOM Terminal roadmap. Support the JTEO.											
FY 2012 Accomplishments: 1. Continued concept development/prototype demonstrations/MILSATCOM terminal roadmap. 2. Continued support for the JTEO.											
FY 2013 Plans: 1. Continue concept development/prototype demonstrations/MILSATCOM terminal roadmap. 2. Continue support for the JTEO. Continue program support and other related activities											
Accomplishments/Planned Programs Subtotals									193.769	107.237	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
• APAF: BA05, OTHACF: Other Aircraft	3.791	4.580	1.920		1.920	37.939	27.773	12.904	13.136	Continuing	Continuing
• OPAF: BA03, 836780: MILSATCOM Space	36.229	47.333	105.674		105.674	108.005	259.947	239.457	243.875	Continuing	Continuing
• OPAF: BA05, 86190A: Spares and Repair Parts	0.000	0.000	0.000		0.000	12.220	45.820	48.880	49.760	Continuing	Continuing
Remarks											
NOTE: Related RDT&E costs for MILSATCOM satellite systems to which terminal development is linked can be found in RDT&E Budget Item Justification Sheets.											
OPAF funds in FY14-18 shown here are for all MILSATCOM Terminals to include FAB-T.											

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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>
The APAF BA05 (OTHACF) line includes spares funding from BP16											

D. Acquisition Strategy

In FY12, the FAB-T program restructured to introduce competition into the acquisition strategy in order to reduce risk in delivering this capability as well as to drive down production costs. To ensure the best value to the government, the Air Force will award a production readiness planning contract to both contractors (Boeing and Raytheon) in the 3Q of FY13. The Air Force will then downselect and award a production contract to one vendor in 1Q FY14.

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 0303601F: MILSATCOM Terminals				PROJECT 672487: MILSATCOM Terminals					
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
FAB-T Development (Boeing)	C/FFP	Boeing Corp:Huntington Beach, CA	1,654.536	152.671	Apr 2012	57.624	Oct 2012	0.000		-		0.000	0.000	1,864.831	
FAB-T Development (Raytheon)	C/FFP	Raytheon:Marlborough, MA	0.000	0.000		18.000	Dec 2012	0.000		-		0.000	0.000	18.000	
FAB-T INC 2	C/CPFF	Boeing/Northrop:Seattle/Melbourne, WA	54.206	0.000		0.000		0.000		-		0.000	0.000	54.206	
(1) High Data Rate (HDR) RF Ground Terminal Development	C/FFP	Comtech:Tempe, AZ	5.993	0.000		0.000		0.000		-		0.000	0.000	5.993	
(2) High Data Rate (HDR) RF Ground Terminal Development	C/FFP	Raytheon:Marlborough, MA	6.365	0.000		0.000		0.000		-		0.000	0.000	6.365	
(3) High Data Rate (HDR) RF Ground Terminals Development	C/FFP	L3 Comm:Hauppauge, NY	1.767	0.000		0.000		0.000		-		0.000	0.000	1.767	
(4) High Data Rate (HDR) RF Ground Terminals Development	SS/CPFF	MITRE:Bedford, MA	3.305	0.000		0.000		0.000		-		0.000	0.000	3.305	
High Data Rate (HDR) RF Air Terminal Development (merged with FAB-T beginning in FY06)	C/CPAF	Boeing Corp:Huntington Beach, CA	13.787	0.000		0.000		0.000		-		0.000	0.000	13.787	
Lasercom Terminal Development Studies	C/CPFF	Northrop-Raytheon-MITRE-MIT/LL:Various,	30.395	0.000		0.000		0.000		-		0.000	0.000	30.395	
Global Broadcast Service (GBS)	C/CPFF	Booz Allen-Windmill:McLeans, VA	3.882	0.000		0.000		0.000		-		0.000	0.000	3.882	
(1) High Data Rate Airborne Terminal (HDRAT) AFSPC AoA	C/FP	LinQuest:Colorado Springs, CO	2.000	0.000		0.000		0.000		-		0.000	0.000	2.000	

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APPROPRIATION/BUDGET ACTIVITY						R-1 ITEM NOMENCLATURE				PROJECT					
3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development						PE 0303601F: MILSATCOM Terminals				672487: MILSATCOM Terminals					
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
(2) High Data Rate Airborne Terminal (HDRAT) Development	SS/CPFF	MITRE:Bedford, MA	5.421	0.000		0.000		0.000		-		0.000	0.000	5.421	
Terminals Development MIT Lincoln Lab	SS/CPFF	MIT/LL:Bedford, MA	7.100	0.000		0.000		0.000		-		0.000	0.000	7.100	
JTEO Development	C/CPFF	Booz Allen Hamilton:McLeans, VA	5.716	4.443	Dec 2011	4.569	Dec 2012	0.000		-		0.000	0.000	14.728	
Subtotal			1,794.473	157.114		80.193		0.000		0.000		0.000	0.000	2,031.780	
Remarks															
FY12 funding of \$42M for FAB-T Alternate Source will be executed from project 672489 within this program element.															
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
MILSATCOM Terminals System Integration	Various	Various:Various,	14.592	13.704	Jan 2012	5.520	Dec 2012	0.000		-		0.000	0.000	33.816	
Subtotal			14.592	13.704		5.520		0.000		0.000		0.000	0.000	33.816	
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
MILSATCOM Terminals T&E	Various	AF Research Lab, AFOTEC, Various:,	14.237	10.017	Jan 2012	8.202	Dec 2012	0.000		-		0.000	0.000	32.456	
Subtotal			14.237	10.017		8.202		0.000		0.000		0.000	0.000	32.456	

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APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development						R-1 ITEM NOMENCLATURE PE 0303601F: MILSATCOM Terminals				PROJECT 672487: MILSATCOM Terminals					
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
Systems Engineering Support	SS/CPAF	MITRE:Bedford, MA	11.416	9.024	Dec 2011	9.295	Dec 2012	0.000		-		0.000	0.000	29.735	
ETASS (Engineering & Technology Acq Spt Services), (PMA)	C/CPFF	Jacobs:Lincoln, MA	3.402	1.661	Dec 2011	1.711	Dec 2012	0.000		-		0.000	0.000	6.774	
PASS (Professional Acq Spt Services), (PMA)	C/CPAF	Oasis:Lexington, MA	3.606	2.249	Dec 2011	2.316	Dec 2012	0.000		-		0.000	0.000	8.171	
Subtotal			18.424	12.934		13.322		0.000		0.000		0.000	0.000	44.680	
			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			1,841.726	193.769		107.237		0.000		0.000		0.000	0.000	2,142.732	
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

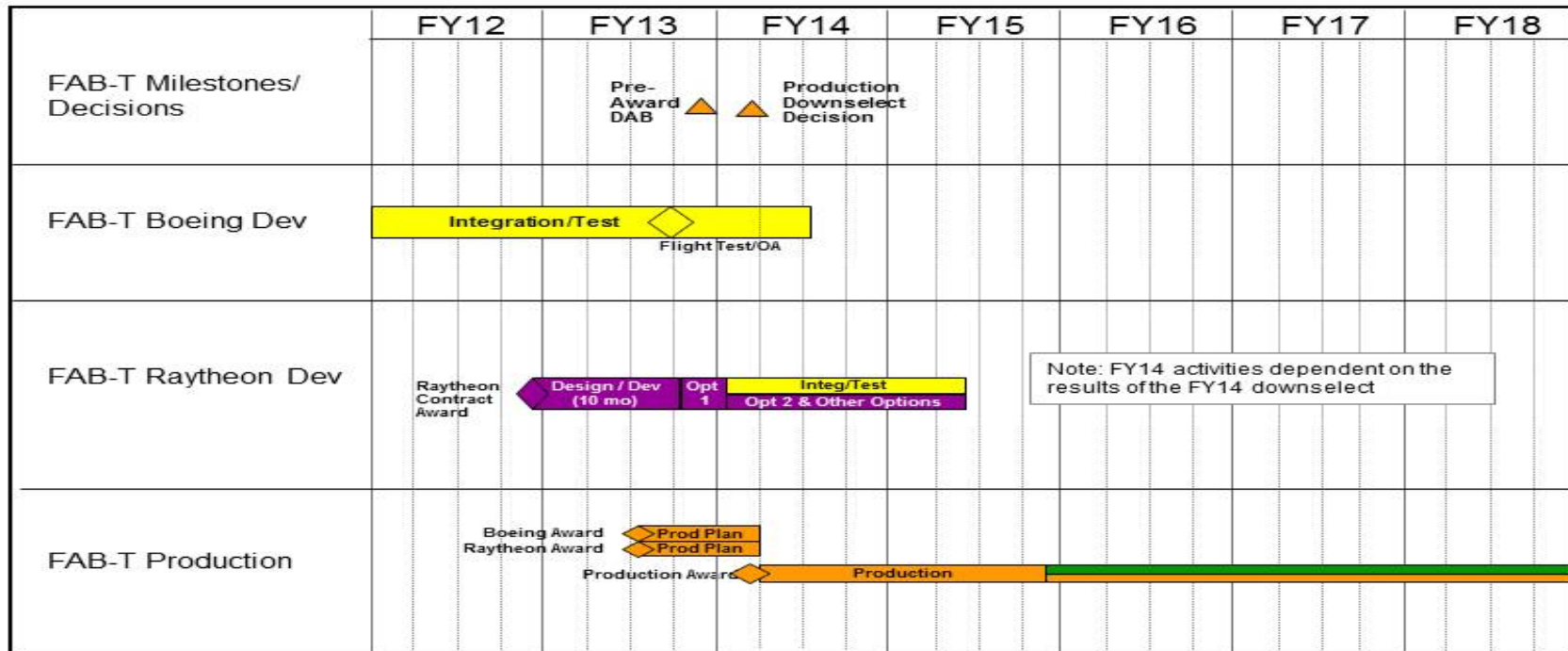
PE 0303601F: MILSATCOM Terminals

PROJECT

672487: MILSATCOM Terminals

MILSATCOM Terminals Schedule Rdoc

BPAC: 672487



Concept activities
Production / Fielding

Design / Development
Operations / Sustainment

Integration / Test
Key events

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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 0303601F: <i>MILSATCOM Terminals</i>	PROJECT 672487: <i>MILSATCOM Terminals</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
FAB-T Raytheon Development Contract	4	2012	2	2015
FAB-T Pre-Award Defense Acquisition Board (DAB)	4	2013	4	2013
Boeing and Raytheon Production Planning Contract	3	2013	1	2014
FAB-T Production Downselect Decision	1	2014	1	2014
FAB-T Production Contract	1	2014	4	2018

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force										DATE: April 2013		
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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
672489: FAB-T Alternative	0.000	42.000	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												
A. Mission Description and Budget Item Justification The Family of Advanced Beyond Line-of-Sight Terminals (FAB-T) program replaces legacy Milstar terminals and will provide Extremely High Frequency (EHF), protected high data rate communication for nuclear and conventional forces to include Presidential National Voice Conferencing (PNVC). FAB-T will provide this new, highly secure, state-of-the-art capability to strategic and tactical airborne and ground command posts via Milstar, AEHF, and Enhanced Polar System (EPS) satellites. FAB-T terminals will also support the critical command and control (C2) of the Milstar, AEHF, and EPS satellite constellations. In FY14, the Air Force will continue development of the FAB-T terminal												
B. Accomplishments/Planned Programs (\$ in Millions)										FY 2012	FY 2013	FY 2014
Title: FAB-T Raytheon Development										42.000	0.000	0.000
Description: Develop FAB-T command post terminals.												
FY 2012 Accomplishments: Congressional add for alternate source (Raytheon) to bring competition to the FAB-T program.												
Accomplishments/Planned Programs Subtotals										42.000	0.000	0.000
C. Other Program Funding Summary (\$ in Millions) N/A												
Remarks												
D. Acquisition Strategy In FY12, the FAB-T program restructured to introduce competition into the acquisition strategy in order to reduce risk in delivering this capability as well as to drive down production costs. To ensure the best value to the government, the Air Force will award a production readiness planning contract to both contractors (Boeing and Raytheon) in the 3Q of FY13. The Air Force will then downselect and award a production contract to one vendor in 1Q FY14.												
E. Performance Metrics Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.												

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Product Development (\$ in Millions)				FY 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
FAB-T Raytheon Development	C/FFP	Raytheon:Marlborough, MA	0.000	42.000	Sep 2012	0.000		0.000		-		0.000	0.000	42.000	0.000
Subtotal			0.000	42.000		0.000		0.000		0.000		0.000	0.000	42.000	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
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
Subtotal			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	42.000	0.000	0.000	0.000	0.000	0.000	42.000	0.000				
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

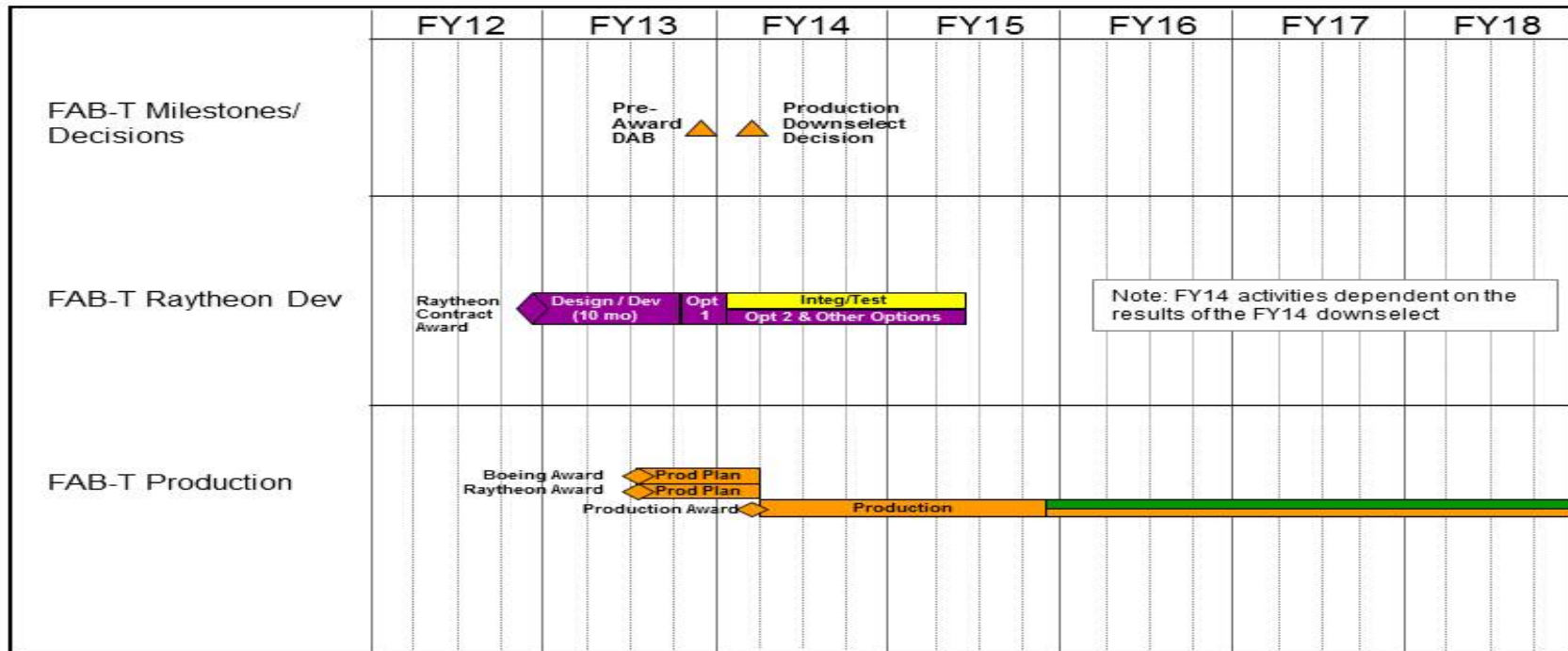
PE 0303601F: MILSATCOM Terminals

PROJECT

672489: FAB-T Alternative

MILSATCOM Terminals Schedule Rdoc

BPAC: 672489



■ Concept activities ■ Design / Development ■ Integration / Test
■ Production / Fielding ■ Operations / Sustainment △◇ Key events

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Air Force			DATE: April 2013
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Boeing and Raytheon Production Planning Contract	3	2013	4	2014
FAB-T Production Downselect Decision	1	2014	1	2014
FAB-T Production Contract	1	2014	4	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 0303601F: MILSATCOM Terminals				PROJECT 672490: Family of Advanced Beyond Line-of-Sight Terminals (FAB-T)			
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
672490: Family of Advanced Beyond Line-of-Sight Terminals (FAB-T)	0.000	0.000	0.000	140.170	-	140.170	55.897	3.979	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												
This project was funded prior to FY14 in project 672487 and 672489 within this program.												
A. Mission Description and Budget Item Justification												
The Family of Advanced Beyond Line-of-Sight Terminals (FAB-T) program replaces legacy Milstar terminals and will provide Extremely High Frequency (EHF), protected high data rate communication for nuclear and conventional forces to include Presidential National Voice Conferencing (PNVC). FAB-T will provide this new, highly secure, state-of-the-art capability to strategic and tactical airborne and ground command posts via Milstar, AEHF, and Enhanced Polar System (EPS) satellites. FAB-T terminals will also support the critical command and control (C2) of the Milstar, AEHF, and EPS satellite constellations. In FY14, the Air Force will continue development of the FAB-T terminal												
B. Accomplishments/Planned Programs (\$ in Millions)										FY 2012	FY 2013	FY 2014
Title: FAB-T Development										0.000	0.000	140.170
Description: The FAB-T program will provide EHF voice and data MILSATCOM for nuclear and conventional forces as well as airborne and ground command posts with connectivity to Milstar, AEHF, and EPS satellites.												
FY 2014 Plans: Continue development of FAB-T Terminal.												
Accomplishments/Planned Programs Subtotals										0.000	0.000	140.170
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	
• APAF: BA05, OTHACF: Other Aircraft	0.000	0.000	1.920		1.920	37.939	27.773	12.904	13.136	0.000	0.000	

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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 0303601F: MILSATCOM Terminals				PROJECT 672490: Family of Advanced Beyond Line-of-Sight Terminals (FAB-T)			
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
• OPAF: BA03, 836780: MILSATCOM Space	0.000	0.000	73.000		73.000	69.865	226.013	205.000	208.910	0.000	0.000
• OPAF: BA05, 86190A: Spares and Repair Parts	0.000	0.000	0.000		0.000	12.220	45.820	48.880	49.760	0.000	156.680
Remarks											
Other program funding listed in FY14-18 is only for the FAB-T program											
The APAF BA05 (OTHACF) line includes spares funding from BP16											
D. Acquisition Strategy											
In FY12, the FAB-T program restructured to introduce competition into the acquisition strategy in order to reduce risk in delivering this capability as well as to drive down production costs. To ensure the best value to the government, the Air Force will award a production readiness planning contract to both contractors (Boeing and Raytheon) in the 3Q of FY13. The Air Force will then downselect and award a production contract to one vendor in 1Q FY14.											
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 0303601F: <i>MILSATCOM Terminals</i>						PROJECT 672490: <i>Family of Advanced Beyond Line-of-Sight Terminals (FAB-T)</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
FAB-T Development	C/FFP	TBD:TBD,	0.000	0.000		0.000		116.511	Jan 2014	-		116.511	59.876	176.387	
Subtotal			0.000	0.000		0.000		116.511		0.000		116.511	59.876	176.387	
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/CPAF	MITRE:Bedford, MA	0.000	0.000		0.000		4.774	Jan 2014	-		4.774	0.000	4.774	
Crypto Support	MIPR	NSA:TBD, MD	0.000	0.000		0.000		1.391	Jan 2014	-		1.391	0.000	1.391	
Subtotal			0.000	0.000		0.000		6.165		0.000		6.165	0.000	6.165	
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 & RTO Support	TBD	TBD:TBD,	0.000	0.000		0.000		1.550	Jan 2014	-		1.550	0.000	1.550	
Developmental Test Support	SS/CPAF	MIT/LL:Bedford, MA	0.000	0.000		0.000		7.500	Jan 2014	-		7.500	0.000	7.500	
Subtotal			0.000	0.000		0.000		9.050		0.000		9.050	0.000	9.050	
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
Systems Engineering Support	SS/CPAF	MITRE:Bedford, MA	0.000	0.000		0.000		2.387	Jan 2014	-		2.387	0.000	2.387	
ETASS (Engineering & Technology Acq Spt Services) (PMA)	C/CPFF	Jacobs:Lincoln, MA	0.000	0.000		0.000		1.596	Jan 2014	-		1.596	0.000	1.596	

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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 0303601F: <i>MILSATCOM Terminals</i>						PROJECT 672490: <i>Family of Advanced Beyond Line-of-Sight Terminals (FAB-T)</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
PASS (Professional Acq Spt Services) (PMA)	C/CPAF	Oasis:Lexington, MA	0.000	0.000		0.000		1.914	Jan 2014	-		1.914	0.000	1.914	
SCS (Specialized Cost Services) (PMA)	C/CPAF	Tecolote:Bedford, MA	0.000	0.000		0.000		0.347	Jan 2014	-		0.347	0.000	0.347	
SPO Cost & Indirect (PMA)	TBD	Not specified.:	0.000	0.000		0.000		2.200	Jan 2014	-		2.200	0.000	2.200	
Subtotal			0.000	0.000		0.000		8.444		0.000		8.444	0.000	8.444	
			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		0.000		140.170		0.000		140.170	59.876	200.046	
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

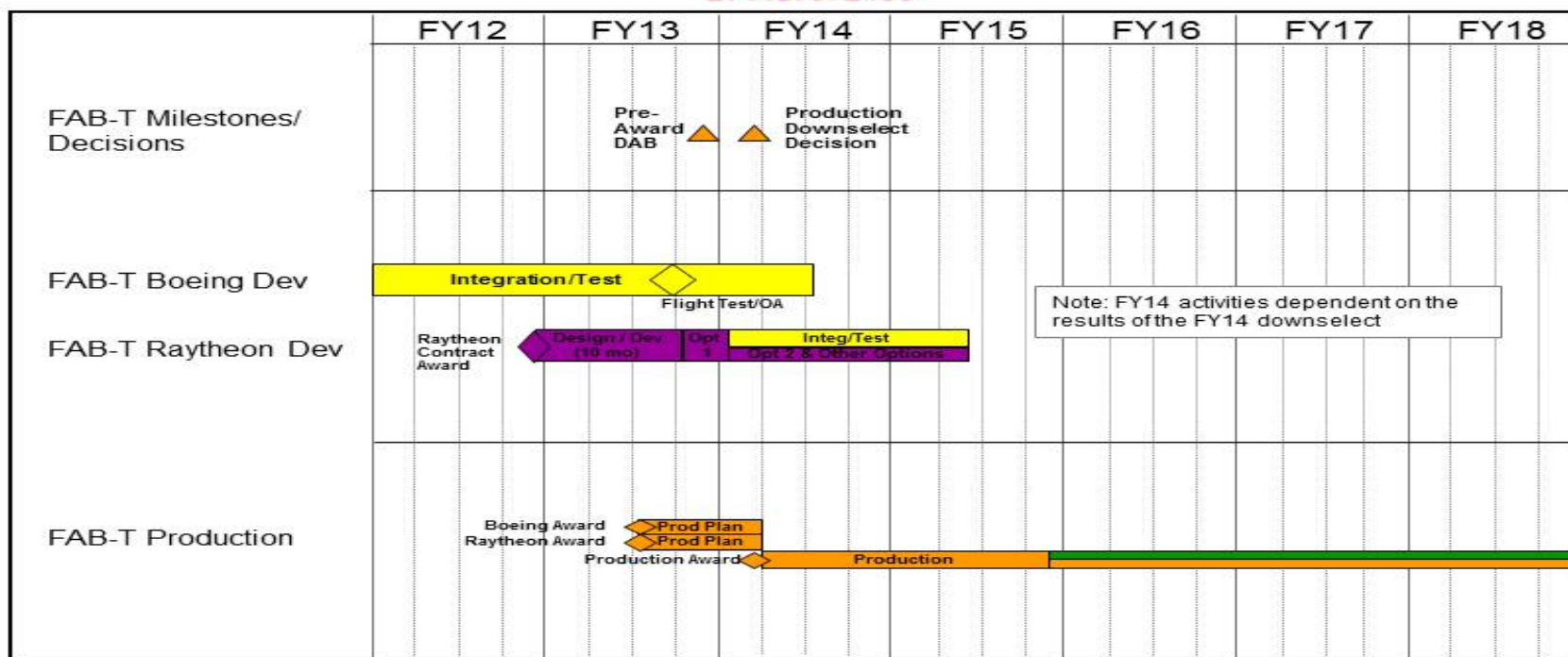
PE 0303601F: MILSATCOM Terminals

PROJECT

672490: Family of Advanced Beyond Line-of-Sight Terminals (FAB-T)

MILSATCOM Terminals Schedule Rdoc

BPAC: 672490



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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 0303601F: <i>MILSATCOM Terminals</i>	PROJECT 672490: <i>Family of Advanced Beyond Line-of-Sight Terminals (FAB-T)</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
FAB-T Raytheon Development Contract	4	2012	2	2015
FAB-T Pre-Award DAB	4	2013	4	2013
Boeing and Raytheon Production Planning Contract	3	2013	4	2014
FAB-T Production Downselect Decision	1	2014	1	2014
FAB-T Production Contract	1	2014	4	2018