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Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Air Force										Date: February 2015		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development					R-1 Program Element (Number/Name) PE 0207581F I Joint Surveillance/Target Attack Radar System (JSTARS)							
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
Total Program Element	-	27.308	-	-	-	-	-	-	-	-	-	27.308
670003: JSTARS	-	27.308	-	-	-	-	-	-	-	-	-	27.308
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

In FY 2015, Project 670003, JSTARS efforts were terminated.

A. Mission Description and Budget Item Justification

The JSTARS is the world's premier airborne ground surveillance platform, meeting joint combat capability requirements. The 707-based E-8C JSTARS aircraft provides all-weather radar-derived Command and Control, Intelligence, Surveillance, and Reconnaissance (C2ISR) and targeting information on moving and stationary ground/surface targets to include dismounts, slow moving rotary and fixed wing aircraft, and rotating antennas. JSTARS provides target information for matching direct attack aircraft, standoff weapons, and ground-based attack assets against selected targets. It can be cued by other intelligence, surveillance, and reconnaissance (ISR) and target acquisition systems. This capability enables air and ground regional/geographic commanders to effectively make and execute battlefield decisions at the component commander's level to battlefield forces. It contributes to predictive battle space awareness.

This program element enhanced the warfighter's ability to achieve the joint vision of combat operations. It developed advanced battle management aids and information fusion technologies to enable rapid decisions in tracking and killing time-critical targets. Concept exploration, program definition/risk reduction efforts, and studies supported continuous improvements in C2ISR, network centric operational capabilities, and interoperability with joint service, allied, and coalition systems.

With the AF decision to begin the Joint Surveillance Target Attack Radar System (JSTARS) Recapitalization Program in FY15, and inclusion of funding for the program included in the FY15 President's Budget, no Modernization funds were requested for the legacy E-8C JSTARS program in FY 2015 and beyond.

This program element last comprised of one development program, JSTARS Modernization, and the supporting Test and Infrastructure. Development efforts for the Prime Mission Equipment-Diminishing Manufacturing Sources (PME-DMS) and Communications and Networking Upgrades (CNU) developmental programs were completed in FY 2013.

In FY14, Project 670003 JSTARS was completed, with JSTARS Extended Test Support (JETS), JSTARS Test Force (JTF) and Government Furnished Equipment (GFE) parts disposition continuing to January 2015.

I. JSTARS Modernization:

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In FY 2014, the JSTARS modernization program consisted of multiple efforts to develop and integrate platform wide system improvements such as, but not limited to, Multi-Agency Communication Capability (MACC), CENTRIX, Ground Moving Target Indicator (GMTI) Risk Reduction and Beyond-Line-of-Sight (BLOS) Network Architecture Upgrades (BNAU) .						
Training and support systems upgrade efforts included, but are not limited to: Weapon Systems Trainer (WST); Navigator Training System (NTS); and Mission Crew Trainers to include a Mission Maintenance Trainer (MMT), Prime Mission Equipment-Maintenance Training Device (PME-MTD) and the Mission System Trainer (MST).						
II. Test and Infrastructure:						
The test infrastructure included the JSTARS Extended Test Support (JETS), JSTARS Test Force (JTF), and C2 Enterprise Integration Facility (CEIF). All JSTARS efforts rely on the components of this test infrastructure to carry out RDT&E activities. The infrastructure included a T-3 test aircraft, laboratories, support facilities, protection level (PL-2) security, Information Assurance (IA), and range support. All of the developmental programs have been completed. In FY 2014, the program began the transfer of test infrastructure assets to Robins AFB. The JETS contract and JTF lease will be extended into the second quarter FY 2015 to facilitate preparation of the T-3 aircraft for retirement and the disposition of residual Government Furnished Equipment (GFE).						
This program is in Budget Activity 7, Operational System Development. 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 year.						
B. Program Change Summary (\$ in Millions)		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Previous President's Budget		23.148	-	0.001	-	0.001
Current President's Budget		27.308	-	-	-	-
Total Adjustments		4.160	-	-0.001	-	-0.001
• Congressional General Reductions		-	-			
• Congressional Directed Reductions		-	-			
• Congressional Rescissions		-	-			
• Congressional Adds		-	-			
• Congressional Directed Transfers		-	-			
• Reprogrammings		4.550	-			
• SBIR/STTR Transfer		-0.390	-			
• Other Adjustments		-	-	-0.001	-	-0.001
Change Summary Explanation						
FY 2014: Reprogrammed funds for GMTI risk reduction activities						
FY 2016: Funding is an error in system.						

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title: JSTARS Modernization Description: Multiple efforts to develop and integrate system improvements, platform wide. FY 2014 Accomplishments: - Issued a final report on JSRM. - Completed CENTRIX activities on Phase I Tech Refresh. - Supported JSTARS Ground Moving Target Indicator (GMTI) risk reduction activities. FY 2015 Plans: N/A FY 2016 Base Plans: N/A FY 2016 OCO Plans: N/A		10.050	-	-	-	-
Title: Test and Infrastructure Description: Supported test and infrastructure efforts including but not limited to Joint Test Force, JETS contract, CEIF, weight reduction studies, information assurance, range support, PL-2 security, T-3 aircraft, test labs, and facilities. FY 2014 Accomplishments: - The Joint Test Force and test labs supported the CNU, BNAU, MACC and PME DMS retrofits. - The test labs assisted in the evaluation of the IR7 software release. - Retained the T-3 test aircraft. FY 2015 Plans: N/A FY 2016 Base Plans: N/A FY 2016 OCO Plans: N/A		17.258	-	-	-	-
Accomplishments/Planned Programs Subtotals		27.308	-	-	-	-

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

<u>Line Item</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u> <u>Base</u>	<u>FY 2016</u> <u>OCO</u>	<u>FY 2016</u> <u>Total</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• APAF: BA05: Line Item # E00800: <i>E-8</i>	56.501	-	18.001	-	18.001	6.300	10.800	-	-	Continuing	Continuing

Remarks

E. Acquisition Strategy

Most major programs will be sole source to Northrop Grumman Corp. in Melbourne, Florida and Norwalk, Connecticut. Trainer programs are sole source to Rockwell Collins in Sterling, Virginia.

F. 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 2016 Air Force												Date: February 2015		
Appropriation/Budget Activity 3600 / 7						R-1 Program Element (Number/Name) PE 0207581F / Joint Surveillance/Target Attack Radar System (JSTARS)				Project (Number/Name) 670003 / JSTARS				

Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Spiral Development	Various	NGC : Melb, FL	-	0.031	Nov 2013	-		-		-		-	Continuing	Continuing	-
JSTARS GMTI Risk Reduction Activities	Various	Various : ,	-	10.050	May 2014	-		-		-		-	Continuing	Continuing	-
Subtotal			-	10.081		-		-		-		-	-	-	-

Remarks
Where Various Contract Method & Types take place, earliest date funds will be obligated is noted.

Support (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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			-	-		-		-		-		-	-	-	-

Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
E-8C JSTARS Ext. Test Spt (JETS), T-3 Retention	SS/FFP	NGC : Melb, FI	-	13.865	Apr 2014	-		-		-		-	Continuing	Continuing	-
JTF Test Ops/Support	Various	JTF : Melb, FI	-	1.480	Nov 2013	-		-		-		-	Continuing	Continuing	-
Subtotal			-	15.345		-		-		-		-	-	-	-

Remarks
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Management Services (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	Various	Various : Bedford, MA	-	1.882	Nov 2013	-		-		-		-	Continuing	Continuing	-	
Subtotal			-	1.882		-		-		-		-	-	-	-	

Remarks
Where Various Contract Method & Types take place, earliest date funds will be obligated is noted.

			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	27.308	-	-	-	-	-	-	-

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Air Force			Date: February 2015		
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	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Joint STARS Radar Modernization (JSRM)																												
JSTARS Ground Moving Target Indicator (GMTI) Risk Reduction Activities																												
Communications Network Upgrade																												
Prime Mission Equipment-Diminishing Manufacturing Sources (PME-DMS) Production and Installation																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Air Force			Date: February 2015
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Joint STARS Radar Modernization (JSRM)	1	2014	1	2014
JSTARS Ground Moving Target Indicator (GMTI) Risk Reduction Activities	3	2014	2	2015
Communications Network Upgrade	1	2014	4	2014
Prime Mission Equipment-Diminishing Manufacturing Sources (PME-DMS) Production and Installation	1	2014	4	2018