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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 0207581F: Joint Surveillance/Target Attack Radar System (JSTARS)							
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	-	71.991	24.241	13.248	-	13.248	26.966	25.862	30.275	30.820	Continuing	Continuing
670003: JSTARS	-	71.991	24.241	13.248	-	13.248	26.966	25.862	30.275	30.820	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 Joint Surveillance Target Attack Radar System (JSTARS) is the world's premier airborne ground surveillance platform, meeting joint combat capability requirements. The 707-based E-8C Joint STARS 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 also helps achieve predictive battle space awareness.

This program element enhances the warfighter's ability to achieve the joint vision of combat operations. It develops 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 support continuous improvements in C2ISR, network centric operations capabilities, and interoperability with joint service, allied, and coalition systems.

This program element currently comprises: four development programs (JSTARS Modernization, Prime Mission Equipment-Diminishing Manufacturing Sources (PME-DMS), Communications and Networking Upgrades (CNU) and JSTARS Re-engining), as well as Test Infrastructure and Program Management Administration (PMA).

Activities also include studies and analyses to support both current program planning and execution and future program planning.

I. JSTARS Modernization:

The JSTARS modernization program consists of multiple efforts to develop and integrate platform wide system improvements. Future development efforts will depend on availability of funding. These include, but are not limited to Spiral Development and Avionics-Diminishing Manufacturing Sources (Av-DMS) for cockpit upgrades. These efforts are detailed below.

Spiral Development - The Spiral Development effort includes various technology development/insertion activities to enhance target identification, data processing & transmittal, and weapon control capabilities, such as JSTARS Net Enabled Weapons (JNEW) and Joint Surface Warfare (JSuW), JSTARS Radar Modernization

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(JSRM), Blue Force tracker (BFT), Battlefield Airborne Communication Node (BACN), combat identification and future program planning for Analysis of Alternatives recommendations. The JSuW-JNEW activities include participation in the JSuW Joint Capability Technology Demonstration (JCTD) and Engineering and Manufacturing Development (EMD) for Network Enabled Weapons (NEW) which includes, but is not limited to, Joint Air-to-Surface Standoff Missile-Air Surface Warfare-Anti-Surface Warfare (JASSM-ASuW). The JSRM activities apply multi-platform radar technology insertion program (MP-RTIP) technology to JSTARS. The MP-RTIP capability on the E-8C will provide the ability to detect, track, and identify both stationary and moving ground vehicles. Future program planning activities include, but are not limited to, modular equipment enclosure (MEE), automatic identification system (AIS), analyst support architecture (ASA) software, and common data link (CDL) integration. Spiral development efforts also support requirements for current and future Urgent Operational Needs (UON), quick reaction capabilities (QRCs), top-down directed efforts, requirements definition, capability gap analysis, pre-Milestone A (MS A) technical risk reduction activities, BFT, multi-agency communication capability (MACC) and the Air Force tactical receive system (AFTRS) radio replacement for the integrated broadcast service (IBS) data and other large airborne platform integration efforts including self-defense suite (SDS), and radar & aircraft performance improvements. Equipment developed under spiral development are procured under Kill Chain Enhancement-MN-38203. Avionics Diminishing Manufacturing Sources - The Av-DMS efforts include, but are not limited to, Aircraft Information Program (AIP), Ground Proximity Warning System (GPWS), Communications, Navigation, Surveillance and Air Traffic Management (CNS/ATM) upgrades, Control and Display Unit (CDU) Replacement, Emergency Locator Transmitter (ELT), Flight Data Recorder (FDR), Electronic Flight Bag (EFB), Mode 5 Identification Friend or Foe (IFF), Embedded GPS Inertial (EGI) with Selective Availability Anti-Spoofing Module (SAASM)/M-Code GPS, Digital Multi-Function Flight Display (Attitude Direction Indicator, Horizontal Situation Indicator and Attitude Heading Reference System), Automatic Dependent Surveillance-Broadcast (ADS-B), a new flight management system (FMS), flight director, Instrument Landing System (ILS) Marker Beacon multi-mode receiver (MMR), and digital engine instruments. Additional Modernization efforts include interoperability with manned and unmanned platforms; space data links; advanced Battle-Management Command and Control (BMC2) concepts; 8.33/25 kHz VHF Radio with Single Channel Ground and Airborne Radio System (SINCGARS) voice and data communication; ISR Constellation; Air Moving Target Indicator (AMTI); Advanced Radar Modes (ARM); Aided Target Recognition (ATR); Synthetic Aperture Radar (SAR)/Enhanced Synthetic Aperture Radar (ESAR); Network Centric Collaborative Targeting (NCCT); and Beyond-Line-of-Sight (BLOS) Network Architecture Upgrades (BNAU). Training and support systems upgrade modernization efforts include, 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. Prime Mission Equipment-Diminishing Manufacturing Sources: Diminishing Manufacturing Sources (DMS) issues are categorized as PME-DMS and Av-DMS issues and are top issues for fleet viability. The PME-DMS program will address hardware and software DMS issues and commercial-off-the-shelf (COTS) technology refresh for the operator work station (OWS), the central computing subsystem, and the Radar Airborne Signal Processor (RASP) subsystem.		

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III. Communications and Networking Upgrades: The multi-phased CNU program includes, but is not limited to, replacement of the E-8C Link 16 Tactical Data Link (TDL) equipment with National Security Agency (NSA) Cryptographic Modernization Program (CMP) compliant equipment, the Multi-functional Information Distribution System (MIDS) Joint Tactical Radio System (JTRS), IBS, the Family of Advanced Beyond-Line-of-Sight-Terminals (FAB-T), Advanced Tactical Data Links integration, airborne networking, and network centric operation enhancements. All development efforts are complete with the exception of a MIDS JTRS advanced capabilities study. IV. Re-engining: The JSTARS Re-Engining program is a System Design and Demonstration (SDD) program to replace legacy TF33-P102C engines with JT8D-219 engines. The JT8D-219 engines are predicted to provide the E-8C aircraft improved performance, including thrust, altitude capability, mission duration, time to climb, critical field length (i.e. takeoff performance), fuel efficiency, noise abatement, emissions, and reliability. It also adds the potential for additional electrical power generation for future system upgrades. SDD efforts include flight test, development of weapon system trainer modification hardware & software, technical orders (i.e. flight and maintenance manuals), technical data development, logistic development & analysis, technical analysis & evaluation, engineering support for MIL-STD airworthiness qualification, flight data analysis & upgrade of the T-3 test aircraft's Propulsion Pod System (PPS), and spare engines including upgrade of used JT8D-219 engines to make them production representative. A PPS consists of engines (4), pneumatic bleed air system, engine build up unit, thrust reversers, nacelles, plyons, exhaust ducts, controls, and instrumentation. With termination of the re-engining program, the AF completed a modified SDD. This consisted of pneumatic system design, flight manuals, airworthiness certification, and a successful flight test program. The remaining unfunded efforts to complete a full SDD are completion of all logistics development tasks and operational tests. V. Test and Infrastructure: The test infrastructure includes the JSTARS Extended Test Support (JETS), JSTARS Test Force (JTF), and C2 Enterprise Integration Facility (CEIF). All JSTARS efforts rely on the components of the test infrastructure to carry out RDT&E activities. The infrastructure includes but is not limited to a T-3 test aircraft, laboratories, support facilities, priority level (PL-2) security, information assurance, and range support. Due to the conclusion of developmental programs, the T-3 test aircraft will be put in preservation storage. VI. Program Management Administration: PMA supports JSTARS acquisition programs with administrative, engineering and technical activities required to support development, fielding, and installation of new and developing capabilities. 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.		

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B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	
Previous President's Budget	74.018	24.241	23.292	-	23.292	
Current President's Budget	71.991	24.241	13.248	-	13.248	
Total Adjustments	-2.027	0.000	-10.044	-	-10.044	
• 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	-2.027	0.000				
• Other Adjustments	0.000	0.000	-10.044	-	-10.044	
Change Summary Explanation FY 2012: SBIR Reduction of \$2.027M. FY 2014: Reduction for higher AF priorities.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2012	FY 2013	FY 2014
Title: Modernization				5.395	1.917	0.156
Description: Multiple efforts to develop and integrate system improvements, platform wide.						
FY 2012 Accomplishments: Completed JSRM radar receiver development and began flight demo, continued Av-DMS development and studies, completed BNAU design, began BNAU integration and test, and continued Flight Viability Board (FVB) mitigation, QRC efforts, and Spiral Development.						
FY 2013 Plans: Will complete JSRM radar receiver flight demo, will complete Av-DMS development and studies, will complete BNAU integration and test, and will continue FVB mitigation, QRC efforts, and Spiral Development.						
FY 2014 Plans: Will continue FVB mitigation, QRC efforts, and Spiral Development.						
Title: Prime Mission Equipment-Diminishing Manufacturing Sources				20.794	0.000	0.000
Description: Activity to replace hardware and software DMS.						
FY 2012 Accomplishments:						

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013	FY 2014
Successfully completed DT&E and OT&E milestones; completed PME DMS RASP and OWS SDD. FY 2013 Plans: N/A FY 2014 Plans: N/A				
Title: Communication and Networking Upgrades Description: Replacement and upgrade of communications and networks. FY 2012 Accomplishments: Completed CNU-JTRS SDD design, integrate, test and Link 16 Concurrent Multi-Netting (CMN)-4/2,Dynamic Net Management(DNM), and Link 16 Enhanced Throughput (LET) study. FY 2013 Plans: N/A FY 2014 Plans: N/A		0.026	0.000	0.000
Title: Re-Engining Description: Replaces legacy TF-33 PPS consisting of new engines, thrust reversers, nacelles, pylons, exhaust ducts, controls, instrumentation and all associated components. FY 2012 Accomplishments: Completed SDD activity including flight testing, flight manuals, pneumatic bleed air system, weapon system trainer, air worthiness qualification, production shutdown, and storage. FY 2013 Plans: N/A FY 2014 Plans: N/A		4.739	0.000	0.000
Title: Test and Infrastructure Description: Support 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.		33.838	18.149	10.718

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C. Accomplishments/Planned Programs (\$ in Millions)							FY 2012	FY 2013	FY 2014		
FY 2012 Accomplishments: The Joint Test force participated in the JSRM Test flight program, the Black Dart exercises and completed Re-Engining testing. The test lab supported the ELMM retrofit program. A major upgrade to T-3 was performed under the JETS contract.											
FY 2013 Plans: The Joint Test Force will support completion of the JSRM and PME DMS flight test programs. The Joint Test Force will also assist in the Enterprise Challenge exercises and the beginning of the BNAU and MACC flight tests. The test labs will support the CNU retrofit program.											
FY 2014 Plans: The Joint Test Force and test labs will support the CNU and PME DMS retrofit programs. The test labs will assist in the evaluation of the IR7 software release. The T-3 test aircraft will be maintained in preservation storage.											
Title: Program Management Administration							7.199	4.175	2.374		
Description: Supports activities required to field and install new and developing capabilities.											
FY 2012 Accomplishments: Supported activities required for the fielding and installation of new and developing capabilities. This included operational testing, technical interchange meetings and events incident to fielding both hardware and software products.											
FY 2013 Plans: Supports activities required for the fielding and installation of new and developing capabilities.											
FY 2014 Plans: Will support program activities required for fielding and installation of new and developing capabilities.											
Accomplishments/Planned Programs Subtotals							71.991	24.241	13.248		
D. 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: Line Item # E00800: E-8	22.558	59.320	57.472		57.472	29.757	1.455	0.805	0.000	Continuing	Continuing
Remarks											

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<u>E. Acquisition Strategy</u> Development efforts are performed in an incremental method. 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. <u>F. Performance Metrics</u> 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 0207581F: Joint Surveillance/Target Attack Radar System (JSTARS)				PROJECT 670003: JSTARS					
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
Spiral Development	Various	NGC:Melb, FL	-	1.404	Nov 2011	1.913	Nov 2012	0.156	Nov 2013	-		0.156	Continuing	Continuing	TBD
Communications & Network Upgrade (CNU) (Joint Tactical Radio System (JTRS))	SS/CPIF	NGC:Melb, FI	-	0.026	Nov 2011	0.000		0.000		-		0.000	0.000	0.026	7.697
ELMM/ARM	SS/CPIF	NGC:Melb, FI	-	0.000		0.000		0.000		-		0.000	0.000	0.000	96.545
PME DMS	SS/CPIF	NGC:Melb, FI	-	20.794	Nov 2011	0.000		0.000		-		0.000	0.000	20.794	157.958
JSRM	SS/CPIF	NGC:Melb, FI	-	3.056	Jan 2012	0.004	Nov 2012	0.000		-		0.000	Continuing	Continuing	80.839
Avionics DMS	SS/CPIF	NGC:Melb, FL	-	0.935	Nov 2011	0.000		0.000		-		0.000	Continuing	Continuing	2.268
Re-Engining	SS/CPIF	NGC:Melb, FI	-	4.739	Dec 2011	0.000		0.000		-		0.000	0.000	4.739	243.069
Subtotal			0.000	30.954		1.917		0.156		0.000		0.156			
Remarks Where Various Contract Method & Types take place, earliest date funds will be obligated is noted.															
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
E-8C JSTARS Ext. Test Spt (JETS)	SS/FFP	NGC:Melb, FI	-	29.528	Nov 2011	15.509	Nov 2012	8.058	Nov 2013	-		8.058	Continuing	Continuing	TBD
JTF Test Ops/Support	Various	JTF:Melb, FI	-	4.310	Nov 2011	2.640	Nov 2012	2.660	Nov 2013	-		2.660	Continuing	Continuing	TBD
Subtotal			0.000	33.838		18.149		10.718		0.000		10.718			

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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 0207581F: <i>Joint Surveillance/Target Attack Radar System (JSTARS)</i>				PROJECT 670003: <i>JSTARS</i>				

Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost To Complete	Total Cost	Target Value of Contract
Remarks Where Various Contract Method & Types take place, earliest date funds will be obligated is noted.																

Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost To Complete	Total Cost	Target Value of Contract
PMA	Various	Various:Bedford, MA	-	7.199	Nov 2011	4.175	Nov 2012	2.374	Nov 2013	-		2.374		Continuing	Continuing	TBD
Subtotal			0.000	7.199		4.175		2.374		0.000		2.374				
Remarks Where Various Contract Method & Types take place, earliest date funds will be obligated is noted.																

	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	71.991		24.241		13.248		0.000		13.248			
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

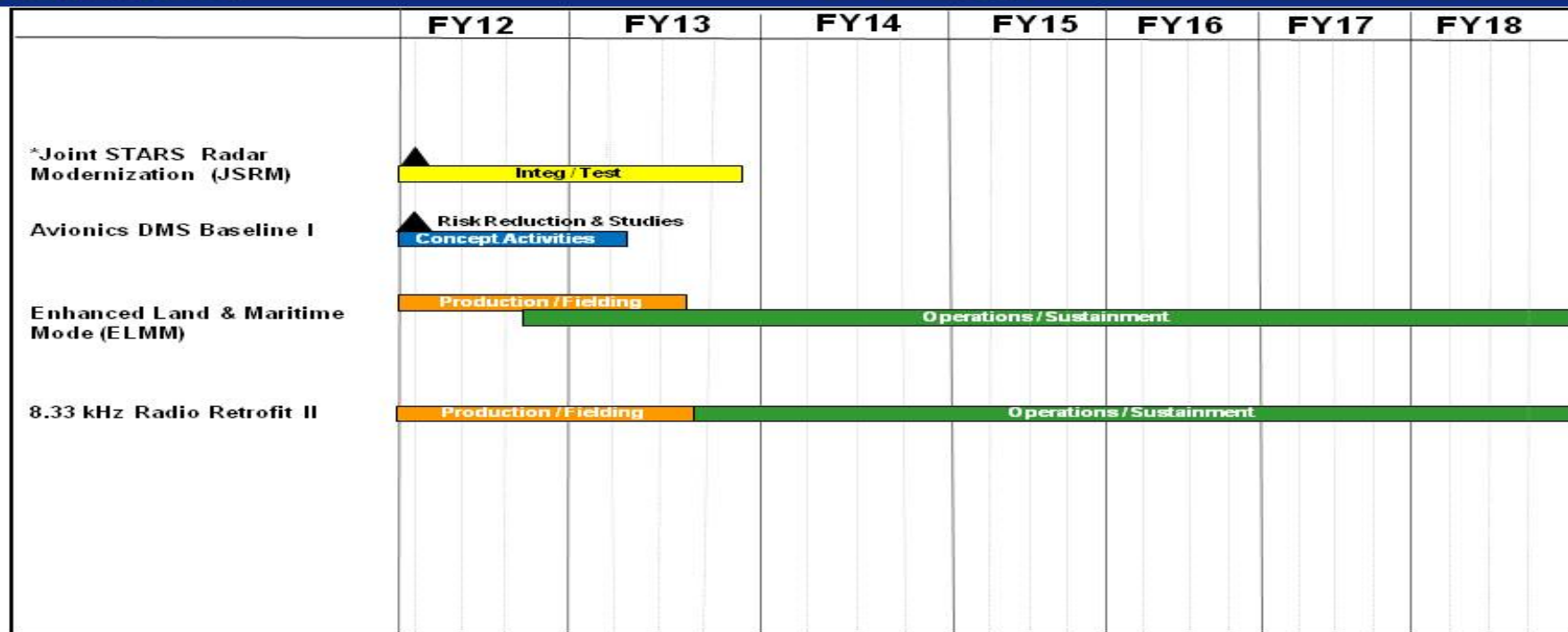
PE 0207581F: Joint Surveillance/Target
Attack Radar System (JSTARS)

PROJECT

670003: JSTARS



Joint STARS Modernization Program Schedule



■ Concept Activities
 ■ Production / Fielding
 ■ Design / Development
 ■ Operations / Sustainment
 ■ Integration / Test Task
 △ Plan
 ▲ Actual

*Demonstrations — no follow-on production

As of: 16 Jan 13

Acronyms: PDR — Preliminary Design Review IRR — Integration Readiness Review
 EMD — Engineering and Management Development
 CDR — Critical Design Review SIL — System Integration Lab

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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

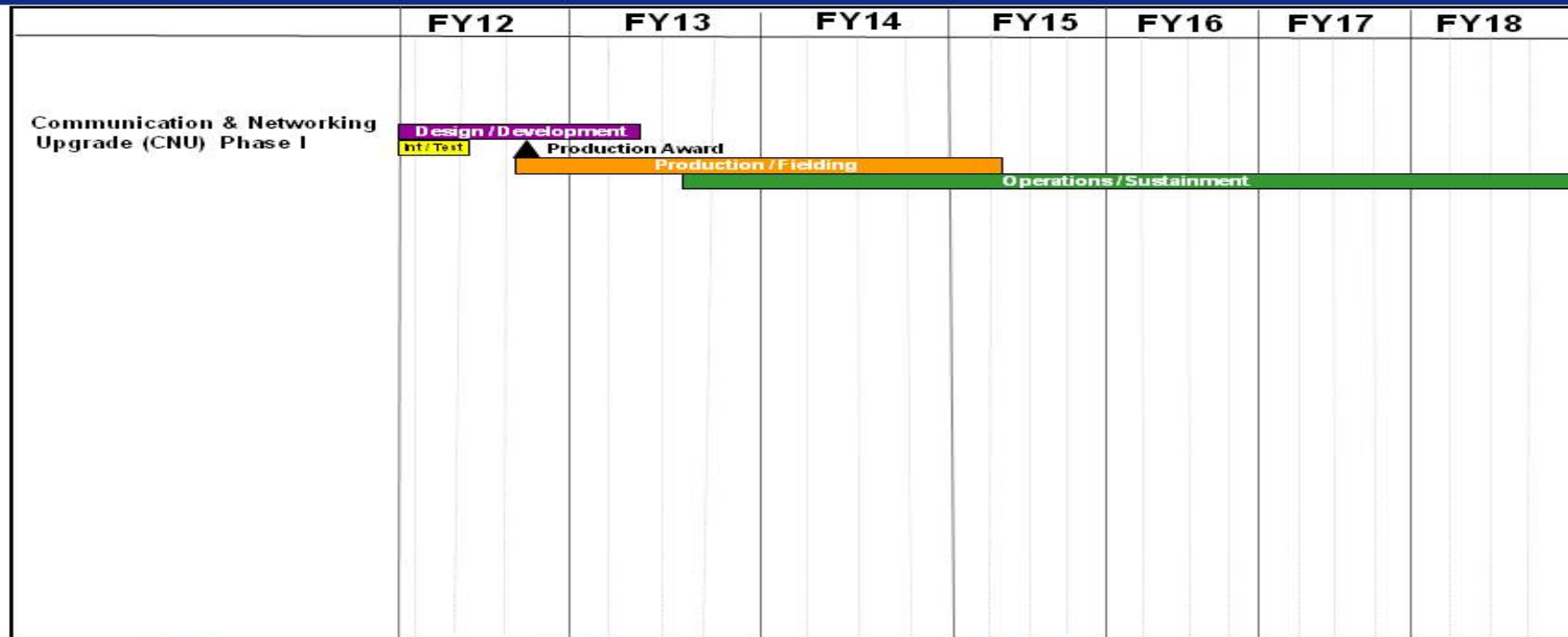
PE 0207581F: Joint Surveillance/Target
Attack Radar System (JSTARS)

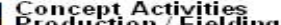
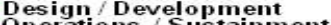
PROJECT

670003: JSTARS



Joint STARS CNU Program Schedule



 Concept Activities
 Production / Fielding
 Design / Development
 Operations / Sustainment
 Integration / Test Task
 Plan
 Actual

*Demonstrations – no follow-on production

As of: 16 Jan 13

Acronyms
 PDR – Preliminary Design Review
 EMD – Engineering and Management Development
 CDR – Critical Design Review
 IRR – Integration Readiness Review
 SIL – System Integration Lab

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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

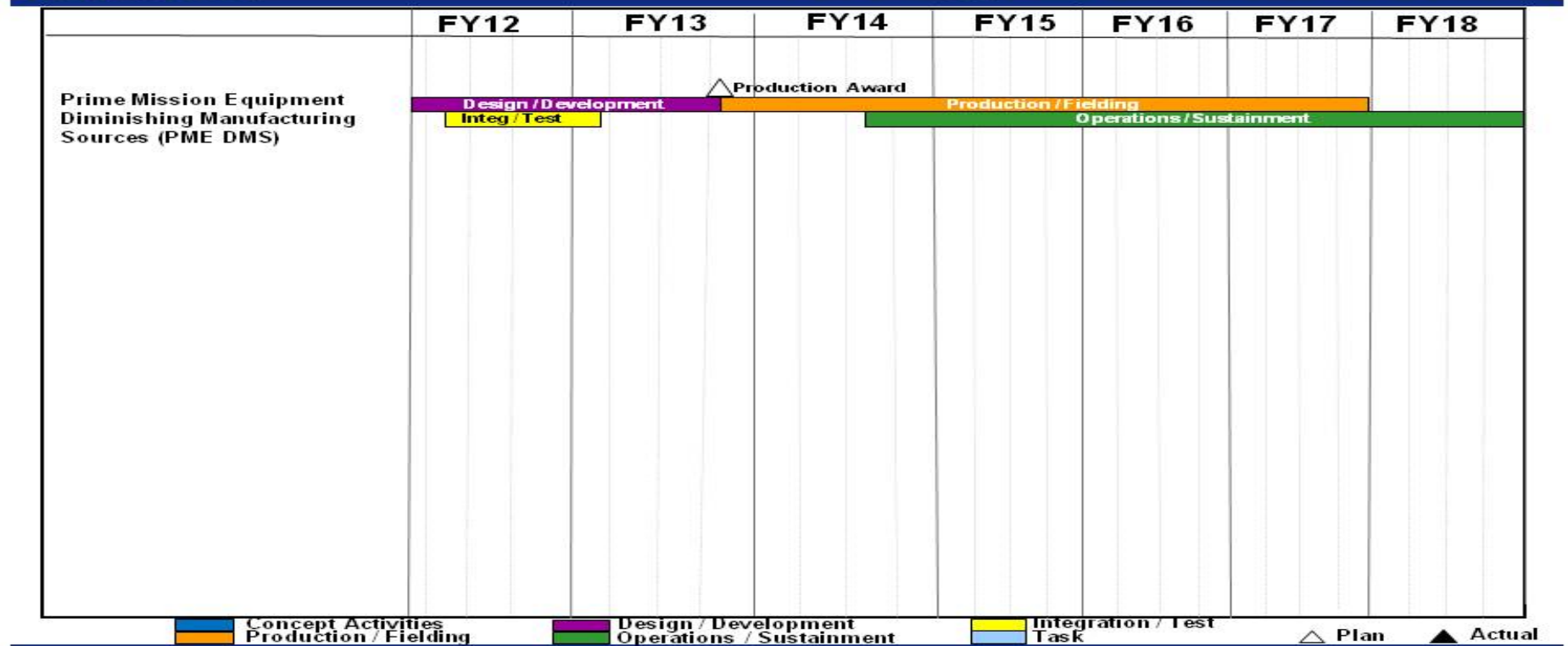
PE 0207581F: Joint Surveillance/Target
Attack Radar System (JSTARS)

PROJECT

670003: JSTARS



PME/DMS Program Schedule



*Demonstrations – no follow-on production

As of: 16 Jan 13

Acronyms
 PDR – Preliminary Design Review
 EMD – Engineering and Management Development
 CDR – Critical Design Review
 IRR – Integration Readiness Review
 SIL – System Integration Lab

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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

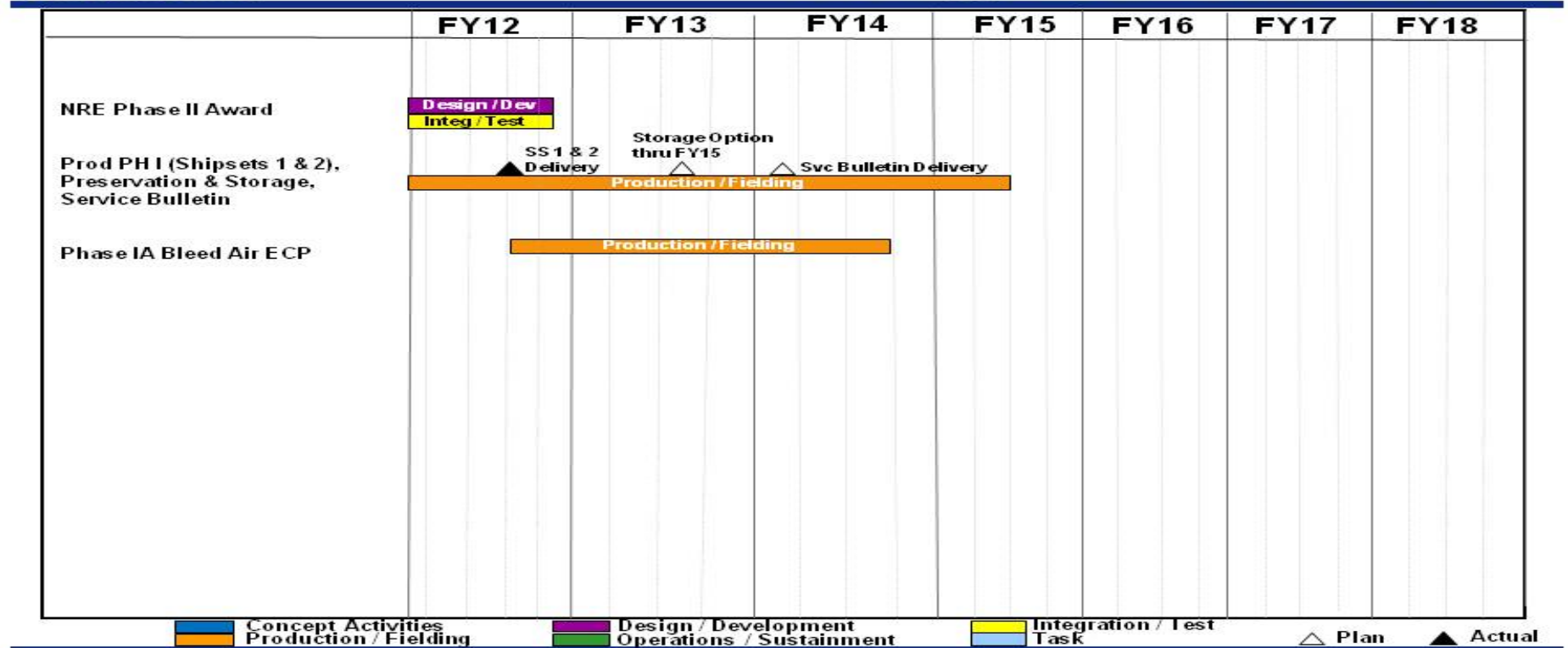
PE 0207581F: Joint Surveillance/Target
Attack Radar System (JSTARS)

PROJECT

670003: JSTARS



Joint STARS Re-engining Program Schedule



*Demonstrations – no follow-on production

As of: 16 Jan 13

Acronyms:
PDR – Preliminary Design Review
EMD – Engineering and Management Development
CDR – Critical Design Review
IRR – Integration Readiness Review
SIL – System Integration Lab

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Exhibit R-4A, RDT&E Schedule Details: 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 0207581F: *Joint Surveillance/Target Attack Radar System (JSTARS)*

PROJECT

670003: *JSTARS*

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Joint STARS Radar Modernization (JSRM) p.1 of 4	1	2012	4	2013
Avionics DMS Risk Reduction & Studies p.1 of 4	1	2012	2	2013
ELMM Retrofit Production p.1 of 4	1	2012	3	2013
ELMM Sustainment p.1 of 4	4	2012	4	2018
8.33/25 kHz Radio Retrofit p.1 of 4	1	2012	3	2013
8.33/25 kHz Radio Sustainment p.1 of 4	3	2013	4	2018
CNU Phase I Design/Development p.2 of 4	1	2012	2	2013
CNU Production p.2 of 4	4	2012	2	2015
CNU Sustainment p.2 of 4	3	2013	4	2018
PME DMS SDD p.3 of 4	1	2012	4	2013
PME DMS Production P.3 of 4	4	2013	4	2017
PME DMS Sustainment p.3 of 4	3	2014	4	2018
Re-Engine SDD Phase II p.4 of 4	1	2012	4	2012
Re-Engine Production Phase I Preservation & Storage, Service Bulletin p.4 of 4	1	2012	2	2015
Re-Engine Production Phase IA Bleed Air ECP p.4 of 4	3	2012	3	2014