Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Air Force											Date: March 2014	
Appropriation/Budget Activity 3600: *Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development*					**R-1 Program Element (Number/Name)** PE 0207417F *I Airborne Warning and Control System (AWACS)*							
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
Total Program Element	3,706.552	47.171	148.369	180.804	-	180.804	124.987	125.375	85.471	82.751	Continuing	Continuing
67411L: *Airborne Warning & Control System (AWACS)*	3,706.552	47.171	148.369	180.804	-	180.804	124.987	125.375	85.471	82.751	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
MDAP/MAIS Code: 277												

\# The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

Mission: Airborne Warning and Control System (AWACS) is the premier airborne platform providing battle management (BM)/command and control (C2) for Commander In Chief and combatant commander tasking in joint, allied, and coalition operations, humanitarian relief, and homeland defense. AWACS provides a real-time picture of friendly, neutral, and hostile air activity. Its capabilities include all-altitude/all-weather surveillance of the battle space; early warning of enemy actions; a real-time ability to find, fix, track, and assess airborne or maritime threats; and detection, location, and identification of electronic emitters.

1. E-3 Block 40/45 is replacing AWACS 1970's vintage mission systems that are experiencing Diminishing Manufacturing Sources (DMS) issues, are difficult and expensive to upgrade, and limit overall AWACS system performance. The Block 40/45 upgrade will improve integration, quality and timeliness of sensor data to the shooter, improve Combat Identification (CID), improve AWACS contribution to Time Critical Targeting via Data Link Infrastructure (DLI), improve electronic support measures processing and enable more effective, faster upgrades via an open-system, Ethernet-based architecture. This upgrade also updates the ground support infrastructure, training systems [(Mission Crew Training Set (MCTS), Mission Computing Maintenance Trainer (MCMT) and the Airborne Training Set (ATS)], data links and the Avionics Integration Support Facility (AISF) all located at Tinker Air Force Base.

2. E-3 Next Generation Identification Friend or Foe (NGIFF) provides AWACS with enhanced IFF interrogator operation to add a more secure Mode 5 capability. The National Security Agency (NSA) declared IFF Mode 4 unsecure and obsolete on 5 Nov 2003. Joint Requirements Oversight Council Memo 047-07 requires IFF Mode 5 interrogation capability by FY14. The new Mode 5 interrogation capability extends the effective range of the AWACS interrogator, while helping discriminate against closely spaced cooperative targets. NGIFF developed and integrated a basic Mode 5 capability on Block 30/35 starting in FY09 and began developing a full Mode 5 capability on Block 40/45 in FY11. Hardware will be common between the Block 30/35 and Block 40/45 platforms. NGIFF will also integrate Mode S, a civilian air traffic control capability residing in the NGIFF hardware, as funding allows.

3. E-3 DMS Replacement of Avionics for Global Operations and Navigation (DRAGON) completes the FAA/International Civil Aviation Organization (ICAO)/ EUROCONTROL (European Organization for the Safety of Air Navigation) air traffic control mandated safety of flight capabilities. This program will provide the E-3 fleet with the flight instruments and other avionics for the Required Navigation Performance (RNP), and the surveillance and communication capabilities necessary to maintain continued critical unrestricted access to global airspace. Non-compliance will result in airspace restrictions and denials that will impact AWACS ability to support worldwide responses to situations requiring immediate on-scene Command and Control (C2) Battle Management (BM). The DRAGON modifications replace

Exhibit R-2, **RDT&E Budget Item Justification:** PB 2015 Air Force	**Date:** March 2014
Appropriation/Budget Activity 3600: *Research, Development, Test & Evaluation, Air Force I* BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 0207417F *I Airborne Warning and Control System (AWACS)*

the existing Diminishing Manufacturing Sources (DMS) Global Positioning System (GPS) Integrated Navigation System (GINS) with a modern Flight Management System (FMS) that will accommodate new capabilities including Mode 5 IFF and Joint Mission Planning System (JMPS). Also included as part of the modification is the addition of data link communications, voice and data link digital radios, and improved visual displays. Emphasis on employment of Commercial-Off-The-Shelf (COTS) avionics is expected to lower cost, reduce the tech refresh cycle, and enhance life cycle management. Replacement of critical avionics subsystems that became unsustainable beginning in 2010 is included in the DRAGON program. The Engineering and Manufacturing Development (EMD) phase of DRAGON is being executed as a Cooperative Program between the US and NATO.

4. E-3 Electronic Protection (EP): The EP program funds the development and retrofit of the E-3 AWACS radar processing capability including risk reduction and EMD activities. EP will provide improved radar processing in a specific flight environment to meet a classified requirement. Processing will initially address radar modes comprising 90% of operational AWACS radar usage. EP will install an adjunct processor that works in parallel with the current Radar System Improvement Program (RSIP) system. The EP-processed radar picture will appear on the operator screen in place of the current RSIP output when the EP radar modes are selected. The program will buy COTS equipment starting in FY17 including initial spares.

5. E-3 Training, Support, and Infrastructure (TSI) provides continuing system engineering and management support for AWACS modernization and enhancement. These activities include managing the AWACS developmental infrastructure, AWACS Development Integration Test Support (ADITS), support for equipment concurrency, modernization planning/analysis, trainer/simulator integration and concurrency, as well as the Avionics Integration Laboratory (AIL) and Advanced Development Lab #2 (ADL-2). The contractor maintained and operated E-3 Radar Systems Integration Lab/Software Development Facility (SIL/SDF) provides US, Foreign Military Sales (FMS), and international customers with a functioning E-3 radar configuration to support radar development, production, and sustainment programs. TSI efforts allow new support equipment technologies and test strategies to be analyzed to ensure concurrent capability to sustain existing, modified, and upgraded E-3 equipment. TSI supports trainer/simulator concurrency analysis and requirements definition to ensure trainers and simulators are kept current with the AWACS baseline. The overall Development Test and Evaluation (DT&E) test infrastructure supports development, production, and sustainment projects, and maintains facilities to support AWACS aircraft during system and sub-system testing at Boeing Field, WA. Funding is shared between Research, Development, Test, and Evaluation (RDT&E) and production funds. The TSI assets also support multiple international Airborne Early Warning and Control (AEW&C) projects on a maintenance fee basis, including projects for France, Saudi Arabia, United Kingdom, Japan, and North Atlantic Treaty (NATO) AEW&C efforts.

6. E-3 Command and Control, Intelligence, Surveillance, and Reconnaissance (C2ISR): C2ISR system improvements investigate and develop future capabilities E of the AWACS weapon system, or next C2ISR platform. These efforts also include investigation, analysis and development to ensure that AWACS successfully integrates with joint and coalition forces in a net-centric environment. C2ISR primarily supports pre-systems acquisition in the areas of material solution analysis and technology development. This is accomplished by prototyping and demonstrating capabilities required by the warfighter but also includes developing an E-3 Modernization & Sustainment Roadmap that projects user capability needs, as well as material solutions for the user needs.

7. E-3 Internet Protocol Enabled Communication (IPEC): IPEC will provide the Block 40/45 E-3 with a wideband communications capability to connect to the Global Information Grid and will support net-centric operations/warfare. The E-3 lacks an IP-enabled communication capability. As a result, the E-3 is not able to support a shortened digitized kill-chain of time sensitive targets. IPEC will provide a roll-on/roll-off IP-enabled communications package supporting warfighter identified requirements for higher bandwidth SIPRNet and multi-domain networks.

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Air Force	Date: March 2014
Appropriation/Budget Activity 3600: *Research, Development, Test & Evaluation, Air Force* I BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 0207417F *I Airborne Warning and Control System (AWACS)*

8. E-3 MIDS JTRS (Multifunctional Information Distribution System Joint Tactical Radio System) will use Link 16 to establish a digital kill chain with in-theater combat forces/shooters. Current 20 year old Class 2 terminal has sustainability/Dimishing Manufacturing Sources (DMS) issues; does not support mandated Crypto Mod (CM) & Freq Remap (FR). MIDS JTRS resolves DMS issues, provides CM & FR, Link 16 enhancements & growth for Next Gen Tactical Data Link (TDL).

9. AWACS current Combat Indentification (CID) capability has become unsustainable and requires update to stay current with current and evolving threats. AWACS will address C2 CID shortfalls by upgrading existing capability to provide a persistent Air Moving Target Indicator (AMTI) Battle Management Command and Control (BMC2) combat ID in support of the kill chain and decision superiority.

This program is in Budget Activity 7, Operational Systems Development, because 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 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	65.200	186.256	161.657	-	161.657
Current President's Budget	47.171	148.369	180.804	-	180.804
Total Adjustments	-18.029	-37.887	19.147	-	19.147
• Congressional General Reductions	-0.065	-			
• Congressional Directed Reductions	-16.300	-37.887			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-1.526	-			
• Other Adjustments	-0.138	-	19.147	-	19.147

Change Summary Explanation

FY13: Decrease in other adjustements due to sequestration, congressional directed reduction due to underexection.

FY14: Congressional directed reductions due to program decrease and Electronic Protection delays.

FY15: Funding added to acceleration of development activity on IPEC to meet warfighter requirements for secure chat capability.

C. Accomplishments/Planned Programs ($ in Millions)

	FY 2013	FY 2014	FY 2015
Title: E-3 Block 40/45	3.117	12.193	-
Description: E-3 Block 40/45			

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Air Force		Date: March 2014
Appropriation/Budget Activity 3600: *Research, Development, Test & Evaluation, Air Force I* BA 7: *Operational Systems Development*		**R-1 Program Element (Number/Name)** PE 0207417F *I Airborne Warning and Control System (AWACS)*

C. Accomplishments/Planned Programs ($ in Millions)	FY 2013	FY 2014	FY 2015
FY 2013 Accomplishments: E-3 Block 40/45: Completed development of Mission Crew Training Set (MCTS) and Mission Computing Maintenance Trainer (MCMT). Continued to develop the Airborne Training System (ATS) and Secure Iridium Communication (Legacy chat communications). Continued initial Avionics Integrated Support Facility (AISF) Upgrade. Continued development of Data Link Infrastructure (DLI) improvements for seamless transition from Block 30/35. *FY 2014 Plans:* E-3 Block 40/45: Deliver and Install Mission Crew Training Sets (MCTS) and Mission Computing Maintenance Trainers (MCMT) into gov't facility. Complete Initial Avionics Integrated Support Facility (AISF) development and then commence AISF follow-on activities. Complete development of Secure Iridium Communication. Continue to develop the Airborne Training System (ATS) and Data Link Infrastructue (DLI) improvements for seamless transition from Block 30/35. *FY 2015 Plans:* n/a			
Title: E-3 Next Generation Identification Friend or Foe (NGIFF) *Description:* E-3 Next Generation Identification Friend or Foe (NGIFF) *FY 2013 Accomplishments:* E-3 NGIFF: Continued resolving IFF 30/35 CAT 2 software deficiencies. Continued Block 40/45 EMD effort. *FY 2014 Plans:* E-3 NGIFF: Complete final system verification review for IFF 40/45. Conduct data analysis for IFF 40/45 flight test. Release IFF 40/45 Build 3.0 software. Complete verification of Technical Requirements Document (TRD) for IFF 40/45. Complete final Time Compliance Technical Orders (TCTO's) and TO's for IFF 40/45 *FY 2015 Plans:* E-3 NGIFF: Will complete force development evaluation.	6.226	22.273	1.541
Title: E-3 DMS Replacement of Avionics for Global Operations and Navigation (DRAGON) *Description:* E-3 DMS Replacement of Avionics for Global Operations and Navigation (DRAGON) *FY 2013 Accomplishments:* E-3 DRAGON: Submitted Preliminary Design Review (PDR) Assessment to the Milestone Decision Authority. Conducted Critical Design Reviews (CDR). Completed detailed drawings. Performed Handover Testing of NATO development test aircraft (N-1), transferred aircraft to Boeing (via DD Form 1149) and began the aircraft modification. Coordinated availability of major	23.975	97.162	129.150

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Air Force		Date: March 2014
Appropriation/Budget Activity 3600: *Research, Development, Test & Evaluation, Air Force I* BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 0207417F *I Airborne Warning and Control System (AWACS)*	

C. Accomplishments/Planned Programs ($ in Millions)	FY 2013	FY 2014	FY 2015
subcontractors' hardware (Group B) and installation readiness. Completed development labs Instal and Check-out (I&CO) and began lab testing of software. ***FY 2014 Plans:*** E-3 DRAGON: Coordinate availability of N-1 parts to support modification efforts. Complete lab software testing. Complete N-1 modification and initiate N-1 ground testing. ***FY 2015 Plans:*** E-3 DRAGON: Will Perform Handover Test of US development test aircraft (D-1), transfer aircraft to Boeing (via DD Form 1149) and begin the aircraft modification. Will start and complete the flight testing of the NATO developmental aircraft (N- 1). Will perform the Technical Order (TO) validation for N-1. Will start the Functional Configuration Audit (FCA) and Physical Configuration Audit (PCA) for N-1. Initiates development of Automatic Dependent Surveillance - Broadcast (ADS-B) Out capability to DRAGON in FY15.			
Title: E-3 Electronic Protection (EP) ***Description:*** E-3 Electronic Protection (EP) ***FY 2013 Accomplishments:*** N/A ***FY 2014 Plans:*** E-3 EP: Contract award in FY14. Begin development of classified technology solutions to mitigate issues/concerns identified under the risk management plan study. ***FY 2015 Plans:*** E-3 EP: Will continue development of classified technology solutions to mitigate issues/concerns identified under the Radar Modernization Program (RMP) study.	-	4.960	19.056
Title: E-3 Training, Support, and Infrastructure (TSI) ***Description:*** E-3 Training, Support, and Infrastructure (TSI) ***FY 2013 Accomplishments:*** E-3 TSI: Supported AWACS developmental and production programs lab integration efforts. Provided system lab support to Electronic Protection (EP), Block 40/45, Next Generation Identify Friend or Foe (NGIFF), Transitional Networking Capability (TNC), Situation Awareness Data Link (SADL), Command and Control Intelligence, Surveillance, and Reconnaissance (C2ISR), Japan and Royal Saudi Air Force (RSAF) radar improvement integration and test. Supported OSD mandated interoperability	6.402	9.551	10.496

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Air Force		Date: March 2014
Appropriation/Budget Activity 3600: *Research, Development, Test & Evaluation, Air Force I* BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 0207417F *I Airborne Warning and Control System (AWACS)*	

C. Accomplishments/Planned Programs ($ in Millions)	FY 2013	FY 2014	FY 2015
testing and supported mandatory E-3 Operational, Safety, Suitability, and Effectiveness program. Supported the E-3 AWACS Developmental Test and Evaluation (DT&E) Avionics Integration Lab (AIL). *FY 2014 Plans:* E-3 TSI: Support AWACS developmental and production programs lab integration efforts. Will provide system lab support to Electronic Protection (EP), Block 40/45, Diminishing Manufacturing Sources Replacement of Avionics DRAGON, Next Generation IFF, TNC, SADL, IPEC, Japan and RSAF radar improvement, integration and test. Will support AEW&C and other OSD mandated interoperability testing and support mandatory E-3 Operational, Safety, and Suitability and Effectiveness program. Support the E-3 AWACS Developmental Test and Evaluation Avionics Integration Laboratory (AIL). *FY 2015 Plans:* E-3 TSI: Will support AWACS developmental and production programs lab integration efforts. Will provide system lab support to EP, Block 40/45, DRAGON, Next Generation Indentify Friend or Foe (NGIFF), Transformational Networking Capability (TNC), Situational Awareness Data Link (SADL), Internet Protocol Enabled Communication (IPEC), Japan and Royal Saudi Air Force (RSAF) radar improvement, integration and test. Will support Airborne Early Warning and Control (AEW&C) and other Office of the Secretary of Defense (OSD) mandated interoperability testing and support mandatory E-3 Operational, Safety, and Suitability and Effectiveness program. Will support the E-3 AWACS Developmental Test and Evaluation Avionics Integration Laboratory (AIL).			
Title: E-3 Command and Control, Intelligence, Surveillance, and Reconnaissance (C2ISR) *Description:* E-3 Command and Control, Intelligence, Surveillance, and Reconnaissance (C2ISR) *FY 2013 Accomplishments:* E-3 C2ISR: Conducted engineering / integration studies to determine required modifications and associated costs to upgrade and support Risk Reduction activities for program planning including but not limited to Cooperative Engagement Capability (CEC), Electronic Protection (EP), and Internet Protocol Enabled Communication (IPEC). Continued to execute International Cooperative Research & Development (ICR&D). *FY 2014 Plans:* E-3 C2ISR: Conduct engineering / integration studies to determine required modifications and associated costs to upgrade and support Risk Reduction activities for program planning including but not limited to Cooperative Engagement Capability (CEC), Electronic Protection (EP), and Internet Protocol Enabled Communication (IPEC). Continue to execute International Cooperative Research & Development (ICR&D). *FY 2015 Plans:*	7.451	2.230	3.598

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Air Force		Date: March 2014
Appropriation/Budget Activity 3600: *Research, Development, Test & Evaluation, Air Force I BA 7:* *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 0207417F *I Airborne Warning and Control System (AWACS)*	

C. Accomplishments/Planned Programs ($ in Millions)	FY 2013	FY 2014	FY 2015
E-3 C2ISR: Will conduct engineering / integration studies to determine required modifications and associated costs to upgrade and support Risk Reduction activities for program planning including but not limited to Cooperative Engagement Capability (CEC), Electronic Protection (EP), and Internet Protocol Enabled Communication (IPEC), Combat ID System Mods, and Multifunctional Information Distribution System Joint Tactical Radio System (MIDS-JTRS). Will continue to execute International Cooperative Research & Development (IR&D).			
Title: E-3 Internet Protocol Enabled Communication (IPEC) *Description:* E-3 Internet Protocol Enabled Communication (IPEC) *FY 2013 Accomplishments:* N/A *FY 2014 Plans:* N/A *FY 2015 Plans:* Award Engineering and Manufacturing Development (EMD) contract to start multi-year development to achieve quick, low-cost, medium-bandwidth Internet Protocol (IP) capability to fill the gap between the current Transitional Networking Capability (TNC) / Secure Iridium Chat (SIC) and future Diminishing Manufacturing Sources (DMS) Replacement of Avionics for Global Operations and Navigation (DRAGON) Inmarsat systems.	-	-	16.963
Accomplishments/Planned Programs Subtotals	47.171	148.369	180.804

D. Other Program Funding Summary ($ in Millions)

Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
• APAF: BA05: Line Item # E00300: *E-3*	169.375	142.515	176.167	-	176.167	257.387	322.114	260.598	208.847	Continuing	Continuing
• APAF: BA06: Line Item # 000999: *Initial Spares/Repair Parts*	16.278	11.681	2.957	-	2.957	33.756	22.173	21.621	24.273	Continuing	Continuing

Remarks

E. Acquisition Strategy

Most major programs (E-3 Block 40/45, E-3 DRAGON, and lab support) will be sole source to the Boeing Corporation, Seattle, WA.

Exhibit R-2, **RDT&E Budget Item Justification:** PB 2015 Air Force		**Date:** March 2014
Appropriation/Budget Activity 3600: *Research, Development, Test & Evaluation, Air Force I* BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 0207417F *I Airborne Warning and Control System (AWACS)*	

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.

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Air Force												**Date:** March 2014		

Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0207417F *I Airborne Warning and Control System (AWACS)*	Project (Number/Name) 67411L *I Airborne Warning & Control System (AWACS)*

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
(U) E-3 Block 40/45	SS/CPIF	Boeing : Seattle, WA	1,103.029	2.977	Jan 2013	10.293	Jan 2014	-		-		-	-	1,116.299	TBD
(U) E-3 Next Generation Identification Friend or Foe (NGIFF)	SS/CPIF	Boeing : Seattle, WA	85.060	4.493	Jan 2013	21.590	Jan 2014	1.500	Oct 2014	-		1.500	Continuing	Continuing	TBD
(U) E-3 DMS Replacement of Avionics for Global Operations and Navigation (DRAGON)	SS/FPIF	Boeing : Seattle, WA	78.533	19.189	Jan 2013	92.131	Jan 2014	123.016	Jan 2015	-		123.016	Continuing	Continuing	TBD
(U) E-3 FPS	SS/FFP	Boeing : Seattle, WA	0.574	-		-		-		-		-	-	0.574	TBD
(U) E-3 Support the War Fighter (STWF)	Various	Various : Various, NA	14.870	-		-		-		-		-	-	14.870	TBD
(U) E-3 Command and Control, Intelligence, Surveillance, and Reconnaissance (C2ISR)	SS/ Various	Boeing : Seattle, WA	138.035	1.524	Oct 2012	-		-		-		-	Continuing	Continuing	TBD
(U) E-3 Electronic Protection (EP)	SS/FFP	Boeing : Seattle, WA	0.000	-		2.019	Jul 2014	16.687	Jan 2015	-		16.687	Continuing	Continuing	TBD
(U) E-3 Internet Protocol Enabled Communication (IPEC)	TBD	TBD : TBD,	0.000	-		-		14.301	Apr 2015	-		14.301	Continuing	Continuing	TBD
(U) Prior Platform Modifications	Various	Various : Various, NA	1,566.146	-		-		-		-		-	-	1,566.146	-
Subtotal			2,986.247	28.183		126.033		155.504		-		155.504	-	-	-

Remarks
 Total Program does not include NATO funds.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Air Force			Date: March 2014

Appropriation/Budget Activity 3600 I 7	R-1 Program Element (Number/Name) PE 0207417F I Airborne Warning and Control System (AWACS)	Project (Number/Name) 67411L I Airborne Warning & Control System (AWACS)

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
(U) Support/ITSP, MITRE, travel, other	Various	AWACS Program Office : Hanscom AFB, MA	76.378	8.717	Oct 2012	8.216	Oct 2013	8.462	Oct 2014	-		8.462	Continuing	Continuing	TBD
Subtotal			76.378	8.717		8.216		8.462		-		8.462	-	-	-

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
(U) E-3 AWACS Development Integration Test Support (ADITS) Contract / Other test activities	SS/ Various	Boeing : Seattle, WA	239.985	-		-		-		-		-	-	239.985	TBD
(U) E-3 Training, Support & Infrastructure (TSI)	SS/ Various	Boeing : Seattle, WA	35.551	4.539	Jan 2013	9.117	Jan 2014	10.122	Jan 2015	-		10.122	Continuing	Continuing	TBD
Joint Test Facility	Various	Multiple : ,	0.000	0.730	Oct 2012	0.933	Oct 2013	1.250	Oct 2014	-		1.250	Continuing	Continuing	TBD
Subtotal			275.536	5.269		10.050		11.372		-		11.372	-	-	-

Remarks
 In FY13, the remaining ADITS effort will be captured under Training, Support & Infrastructure (TSI). This effort includes the Avionics Integration Laboratory (AIL) and will continue through the FYDP.

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
(U) Program Management Administration (PMA)	Various	AWACS Program Office : Hanscom AFB, MA	368.391	5.002	Oct 2012	4.070	Oct 2013	5.466	Oct 2014	-		5.466	Continuing	Continuing	TBD
Subtotal			368.391	5.002		4.070		5.466		-		5.466	-	-	-

Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Air Force							**Date:** March 2014			
Appropriation/Budget Activity 3600 / 7				**R-1 Program Element (Number/Name)** PE 0207417F / Airborne Warning and Control System (AWACS)			**Project (Number/Name)** 67411L / Airborne Warning & Control System (AWACS)			
	Prior Years	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO**	**FY 2015 Total**	**Cost To Complete**	**Total Cost**	**Target Value of Contract**
Project Cost Totals	3,706.552	47.171	148.369	180.804	-	180.804	-	-	-

Remarks

Exhibit R-4, **RDT&E Schedule Profile:** PB 2015 Air Force		**Date:** March 2014
Appropriation/Budget Activity 3600 *I* 7	**R-1 Program Element (Number/Name)** PE 0207417F *I Airborne Warning and Control System (AWACS)*	**Project (Number/Name)** 67411L *I Airborne Warning & Control System (AWACS)*

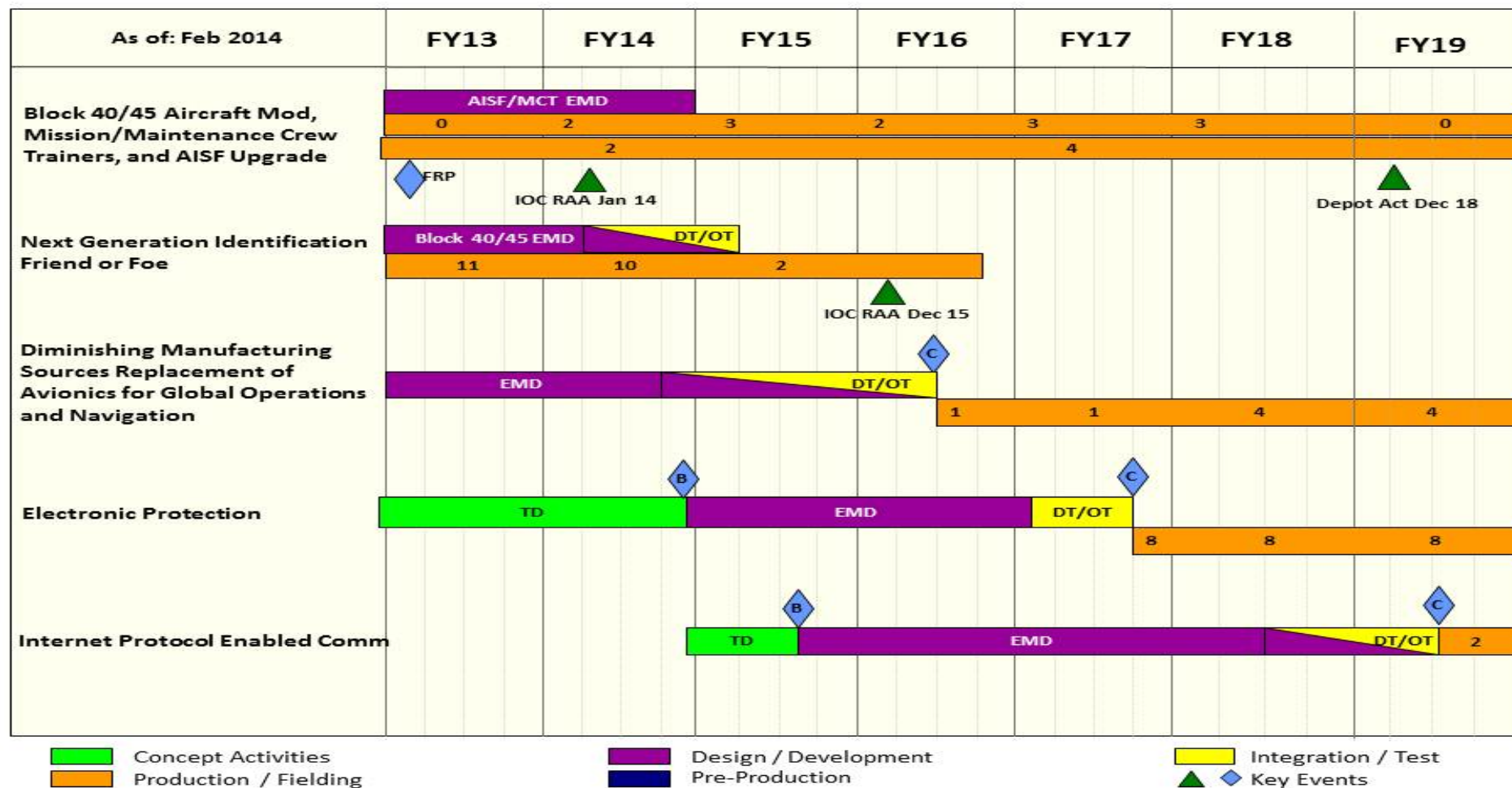| Exhibit R-4A, RDT&E Schedule Details: PB 2015 Air Force		Date: March 2014
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0207417F / Airborne Warning and Control System (AWACS)	Project (Number/Name) 67411L / Airborne Warning & Control System (AWACS)

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
40/45 MCT EMD	1	2013	4	2014
40/45 FRP Decision	1	2013	1	2013
40/45 IOC	3	2014	3	2014
NGIFF EMD (UPX-40 software and firmware development for Block 40/45)	1	2013	2	2015
NGIFF 40/45 DT	2	2014	1	2015
NGIFF 40/45 OT	2	2014	1	2015
NGIFF IOC	1	2016	1	2016
DRAGON EMD	1	2013	2	2016
DRAGON DT/OT	4	2014	2	2016
DRAGON Milestone C	2	2016	2	2016
EP Technology Development	1	2013	4	2014
EP Milestone B	4	2014	4	2014
EP EMD	1	2015	1	2017
EP Milestone C	3	2017	3	2017
EP DT/OT	1	2017	3	2017
IPEC Technology Development	1	2015	3	2015
IPEC Milestone B	3	2015	3	2015
IPEC EMD	3	2015	2	2019
IPEC DT/OT	2	2018	2	2019
IPEC Milestone C	3	2019	3	2019