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Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Air Force **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0305887F: <i>Electronic Combat Intelligence Support</i>
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COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	8.994	14.547	13.357	-	13.357	14.047	13.521	14.121	14.367	Continuing	Continuing
670374: <i>Electronic Combat Spt, C3 Protection/Multi-Mission, Technology and Spt</i>	8.994	14.547	13.357	-	13.357	14.047	13.521	14.121	14.367	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

This program expedites information and cyberspace superiority capabilities from laboratory, industry, and academia to operational platforms including the Network Attack System (NAS) via studies, rapid prototyping, technology demonstrations and other Research, Development, Testing and Evaluation (RDT&E) efforts. Program efforts provide advanced cyber warfare capabilities to the 24th Air Force in direct support of US CYBERCOM and other combatant commanders. Program efforts also directly support the AF Information Operations Capability Plan (IOCP) and the National Military Strategy for Cyberspace Operations (NMS-CO). The program office investigates and selects the highest potential cyber and Information Operations (IO) technologies to meet specific shortfalls, deficiencies, and requirements documented by major commands (MAJCOMs), unified commands, and IO agencies in Mission Area Plans (MAPs) and capabilities documents. In accordance with AF Policy, the information and cyberspace superiority core capability areas to be considered are influence operations, electronic warfare operations and network warfare operations. Planned areas of study, prototyping, and technology demonstration will be used to provide warfighters access, platforms, Offensive Cyber Operations (OCO) production (e.g. test and budgets), infrastructure (e.g. mission planning, intelligence, command and control), and tools needed to exploit enemy networks, telephony, Integrated Air Defense Systems (IADS), electronic warfare operations and Command and Control (C2) systems. These advancements will be used to develop and deliver cutting edge technologies to the warfighter. The program office works directly with labs, industry, and warfighters to set priorities and find synergistic combinations of new technology, doctrine and training via multiple Network Warfare Operations Capability (NWOC) contract awards to deliver state of the art cyber and IO applications to the warfighter as well as to engineer key upgrades and modifications to the NAS. Program funds Cyber C2 efforts to provide development of C2 capabilities across the entire spectrum of air, space, and cyber operations from strategic to tactical level for planning, executing and assessing theater-wide air, space and cyber operations. Program efforts will be prioritized and guided by the Air Force Space Command Situation Awareness and Command and Control (AFSPC SA&C2) and Cyber Warfare Capability Teams in support of the AF IOCP and other applicable requirements documents. Activities performed include those designed to identify, analyze, test, rapidly acquire, and integrate emerging cyber technologies into all regions of the Global Information Grid. Activities also include studies and analysis to support both current program planning and execution and future program planning. Program activities are protected under AF Network Warfare Special Access Program(s).

This program is in Budget Activity 7, Operational System Development, these budget activities include development efforts to upgrade systems currently fielded or has 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 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	5.512	14.736	14.710	-	14.710
Current President's Budget	8.994	14.547	13.357	-	13.357
Total Adjustments	3.482	-0.189	-1.353	-	-1.353
• Congressional General Reductions	-	-0.189			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	3.724	-			
• SBIR/STTR Transfer	-0.149	-			
• Other Adjustments	-0.093	-	-1.353	-	-1.353

Change Summary Explanation

In FY11, \$1.053M was added via a Below Threshold Reprogramming (BTR) along with \$2.67M added via an Above Threshold Reprogramming (ATR) for the advancement of in-theater warfighter operational requirements. Funds will provide Network Warfare Operations capabilities that continue the disruption of worldwide adversary networks, thereby advancing our global information dominance. (Additional details are classified at higher levels.)

FY11 Congressional General Reduction of 0.093M in Other Adjustment row.

FY12 Congressional General Reduction (FFRDC, Sec 8023) of 0.189M.

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2011	FY 2012	FY 2013
Title: NAS	3.326	7.196	6.574
Description: NAS - Network Attack System Modifications/Upgrades			
FY 2011 Accomplishments: This effort continued to maintain the current operational system via necessary upgrades and modifications. Increased funding is due to greater anticipated equipment obsolescence requiring replacement via upgrades, modifications, market research, integration and follow-on Computer Network Attack (CNA) platform(s). This funding continued to provide the program office manpower required for oversight of numerous acquisition programs. These activities are protected under AF Network Warfare Special Access Program(s).			
FY 2012 Plans: This effort continues maintaining the current operational system via necessary upgrades and modifications. Increased funding is due to greater anticipated equipment obsolescence requiring replacement via upgrades, modifications, market research,			

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2011	FY 2012	FY 2013
integration and follow-on CNA platform(s). This funding also continues to provide the program office manpower required for oversight of numerous acquisition programs. These activities are protected under AF Network Warfare Special Access Program(s). FY 2013 Plans: This effort will continue to maintain the current operational system via necessary upgrades, modifications and equipment obsolescence requiring replacement via upgrades, modifications, market research, integration and follow-on CNA platform(s). This funding will also continue to provide the program office manpower required for oversight of numerous acquisition programs. These activities are protected under AF Network Warfare Special Access Program(s).				
Title: NWOC Description: NWOC - Network Warfare Operations Capability Studies & Technology FY 2011 Accomplishments: This effort continued transition of IO technologies to meet current capability gaps required by major commands, unified commands, and capabilities documents. FY11 funding increase due to reprogramming efforts to support CENTCOM Joint Urgent Operational Need (JUON) and AFSPC Urgent Operational Need (UON) efforts. These activities are protected under AF Network Warfare Special Access Program(s). FY 2012 Plans: FY12 efforts continues support to United States (U.S.) Central Command (CENTCOM) JUON, Weapons System(s) modernization and AFSPC UON and continues transition of IO technologies to meet current capability gaps required by major commands, unified commands, and capabilities documents. Increase in funding is due to current operational requirements. These activities are protected under AF Network Warfare Special Access Program(s). FY 2013 Plans: FY13 will continue support of anticipated CENTCOM JUON(s), CYBERCOM JUON(s), Weapons System(s) modernization and AFSPC UON(s) and Cyber Need Forms and will continue transition of IO technologies to meet capability gaps required by major commands, unified commands, and capabilities documents. These activities are protected under AF Network Warfare Special Access Program(s).		4.559	5.926	5.353
Title: T&E Description: Test & Evaluation (46 Det 2) FY 2011 Accomplishments:		1.109	1.425	1.430

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2011	FY 2012	FY 2013
Funding continued to provide the required developmental testing for new tool development prior for future fielding to the operational platform. This funding provided the secure environment for such testing. FY 2012 Plans: Funding continues to provide the required developmental testing for new tool development prior for future fielding to the operational platform. This funding provides the secure environment for such testing. FY 2013 Plans: Funding will continue to provide the required developmental testing for new tool development prior for future fielding to the operational platform. This funding will provide the secure environment for such testing.			
Accomplishments/Planned Programs Subtotals	8.994	14.547	13.357

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

<u>Line Item</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u> <u>Base</u>	<u>FY 2013</u> <u>OCO</u>	<u>FY 2013</u> <u>Total</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• PE 0305887F, Info Assurance O&M: O&M	4.725	5.676	4.650	0.000	4.650	4.887	5.183	5.331	5.424	Continuing	Continuing

E. Acquisition Strategy

For the NAS, the acquisition strategy is a sole source award using multiple types of contracts; a Firm Fixed Priced contract for sustainment and hardware/software patches; a Cost Plus Fixed Fee contract for enhancements and upgrades. The strategy for NAS follow-on or new capabilities is to use a Broad Agency Announcement (BAA) which will deliver capabilities to include sustainment, incremental releases, and minor enhancements to the currently fielded system in annual spiral upgrades.

For the follow-on CNA platform effort, the acquisition strategy is a sole source award using multiple types of contracts; a Firm Fixed Priced contract for sustainment and hardware/software patches; a Cost Plus Fixed Fee contract for enhancements and upgrades. The strategy for the follow-on CNA platform effort is to transition technology from Air Force Research Laboratory (AFRL) to the System Program Office (SPO) for further development, test, fielding and sustainment.

NWOC tools are acquired through another BAA, which allows us to constantly accept, analyze, and acquire promising new commercial capabilities to enhance our arsenal of network warfare tools.

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-4, RDT&E Schedule Profile: PB 2013 Air Force		DATE: February 2012
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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Air Force		DATE: February 2012
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
IO Technologies	1	2011	4	2017
NWOC - Network Warfare Operations Capability Studies and Technology	1	2011	4	2017
NAS - Network Attack System Modifications/Upgrades	1	2011	4	2017
CNA Platform	2	2011	4	2017