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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Air Force **DATE:** February 2011

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 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	6.080	5.512	14.736	-	14.736	14.710	15.380	14.690	15.412	Continuing	Continuing
670374: <i>Electronic Combat Spt, C3 Protection/Multi-Mission, Technology and Spt</i>	6.080	5.512	14.736	-	14.736	14.710	15.380	14.690	15.412	Continuing	Continuing

Note

The program funding includes reductions for Service Support Contractors efficiencies that are not intended to impact program content. The efficiencies reductions total \$00.028M in FY12.

A. Mission Description and Budget Item Justification

This program expedites Information Superiority (IS) Technology transition from laboratory, industry, and academia to operational platforms including the Network Attack System (NAS) via studies, rapid prototyping, technology demonstrations and other RDT&E efforts. Program efforts directly support the AF Information Operations Capability Plan (IOCP) and the DoD Information Operations (IO) Roadmap. The program office investigates and selects the highest potential 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 on IO, the IS core capability areas to be considered are influence operations, electronic warfare operations and network warfare operations. Planned areas of study, prototyping, and technology demonstration include, but are not limited to, exploitation of networks, telephony, Integrated Air Defense Systems (IADS), electronic warfare operations, Command and Control Systems (C2), and applying the latest advancements in emerging physics, electronic warfare, communications, directed energy, electronic sensors, and intelligence to IS. 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 IO tools 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 Information Operations Capabilities Team (IOCT) 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. Program activities are protected under the PANTHER DEN Special Access Program. This program is in Budget Activity 7, Operational System 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.

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B. Program Change Summary (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	5.220	5.512	2.474	-	2.474
Current President's Budget	6.080	5.512	14.736	-	14.736
Total Adjustments	0.860	-	12.262	-	12.262
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-0.022	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	1.039	-			
• SBIR/STTR Transfer	-0.157	-			
• Other Adjustments	-	-	12.262	-	12.262

Change Summary Explanation

Increase in FY12-15 funding provided to achieve AF Cyber Superiority priorities.

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force									DATE: February 2011		
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
670374: <i>Electronic Combat Spt, C3 Protection/Multi-Mission, Technology and Spt</i>	6.080	5.512	14.736	-	14.736	14.710	15.380	14.690	15.412	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 Superiority (IS) Technology transition from laboratory, industry, and academia to operational platforms including the Network Attack System (NAS) via studies, rapid prototyping, technology demonstrations and other RDT&E efforts. Program efforts directly support the AF Information Operations Capability Plan (IOCP) and the DoD Information Operations (IO) Roadmap. The program office investigates and selects the highest potential 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 on IO, the IS core capability areas to be considered are influence operations, electronic warfare operations and network warfare operations. Planned areas of study, prototyping, and technology demonstration include, but are not limited to, exploitation of networks, telephony, Integrated Air Defense Systems (IADS), electronic warfare operations, Command and Control Systems (C2), and applying the latest advancements in emerging physics, electronic warfare, communications, directed energy, electronic sensors, and intelligence to IS. 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 IO tools 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 Information Operations Capabilities Team (IOCT) 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. Program activities are protected under the PANTHER DEN Special Access Program. This program is in Budget Activity 7, Operational System 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. Accomplishments/Planned Programs (\$ in Millions)

	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Title: NAS	3.130	3.556	5.375	-	5.375
Description: NAS - Network Attack System Modifications/Upgrades					
FY 2010 Accomplishments:					

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
FY12 efforts will support CENTCOM JUON, Weapons System(s) modernization and AFSPC UON and will continue transition of IO technologies to meet current capability gaps required by major commands, unified commands, and capabilities documents. These activities are protected under the PANTHER DEN Special Access Program.					
<i>FY 2012 OCO Plans:</i>					
<i>Title:</i> T&E	0.428	0.499	0.600	-	0.600
<i>Description:</i> Test & Evaluation (46 Det 2)					
<i>FY 2010 Accomplishments:</i> Funding continued to provide the required developmental testing for new tool development for future fielding to the operational platform. This funding provided the secure environment for such testing.					
<i>FY 2011 Plans:</i> 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.					
<i>FY 2012 Base Plans:</i> 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.					
<i>FY 2012 OCO Plans:</i>					
Accomplishments/Planned Programs Subtotals	6.080	5.512	14.736	-	14.736

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012 Base</u>	<u>FY 2012 OCO</u>	<u>FY 2012 Total</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• PE 0305887F: <i>Info Assurance R&D O&M</i>	12.457	4.853	5.711	0.000	5.711	4.678	4.897	5.192	5.349	Continuing	Continuing

D. 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.

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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.

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 2012 Air Force **DATE:** February 2011

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Product Development (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
NAS Modifications/Upgrades	C/CPFF	General Dynamics:San Antonio, TX	0.782	0.367	Nov 2010	2.000	Nov 2011	-		2.000	Continuing	Continuing	TBD
NWOC Studies & Technology	C/CPFF	Various:Various,	4.128	1.457	Jan 2011	8.761	May 2012	-		8.761	Continuing	Continuing	TBD
Subtotal			4.910	1.824		10.761		-		10.761			

Support (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Acquisition Support	C/CPAF	Various:San Antonio, TX	2.661	1.139	Nov 2010	1.467	Nov 2011	-		1.467	Continuing	Continuing	TBD
Engineering Support	C/CPAF	Various:San Antonio, TX	2.657	2.050	Oct 2010	1.908	Oct 2011	-		1.908	Continuing	Continuing	TBD
Subtotal			5.318	3.189		3.375		-		3.375			

Test and Evaluation (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
46 Det 2 Test Squadron	C/CPAF	Northrup Grumman:San Antonio, TX	1.028	0.499	Mar 2011	0.600	Mar 2012	-		0.600	Continuing	Continuing	TBD
Subtotal			1.028	0.499		0.600		-		0.600			

Management Services (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Centralized PMA	C/CPAF	Various:Hanscom AFB, MA	0.075	-		-		-		-	Continuing	Continuing	0.000
Subtotal			0.075	-		-		-		-			0.000

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Air Force		DATE: February 2011
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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Air Force		DATE: February 2011
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
IO Technologies	1	2010	4	2016
NWOC - Network Warfare Operations Capability Studies and Technology	1	2010	4	2016
NAS - Network Attack System Modifications/Upgrades	1	2010	4	2016