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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Defense Advanced Research Projects Agency	DATE: February 2011
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APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE							
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 6: <i>RDT&E Management Support</i>				PE 0305103E: <i>CYBER SECURITY INITIATIVE</i>							
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	49.791	10.000	10.000	-	10.000	10.000	-	-	-	Continuing	Continuing
CYB-01: <i>CYBER SECURITY INITIATIVE</i>	49.791	10.000	10.000	-	10.000	10.000	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

The National Cyber Security Initiative will foster a revolution in the Nation's ability to protect and defend its cyber operations. DARPA's responsibility as part of the overall Cyber Security Initiative (CSI) is to create a cyber test range that will become a National resource for testing the resiliency of cyber programs in the face of hostile action. The Cyber Range will be capable of supporting multiple, simultaneous, segmented tests in realistically configured or simulated testbed environments.

B. Program Change Summary (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	49.791	10.000	10.000	-	10.000
Current President's Budget	49.791	10.000	10.000	-	10.000
Total Adjustments	-	-	-	-	-
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			

Change Summary Explanation

Not applicable.

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012
Title: Cyber Security Initiative	49.791	10.000	10.000
Description: The goal of the Cyber Security Initiative is to revolutionize the Nation's ability to conduct cyber operations by developing a persistent and cost-effective cyber testing environment. The National Cyber Range (NCR) program will develop a network testbed that will allow for research experimentation on diverse hardware and software topologies to produce qualitative and quantitative assessments of cyber security research and development programs through a safe, instrumented experimentation environment. The range will replicate complex, heterogeneous networks. It will revolutionize cyber testing to			

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APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 6: <i>RDT&E Management Support</i>		R-1 ITEM NOMENCLATURE PE 0305103E: <i>CYBER SECURITY INITIATIVE</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2010	FY 2011	FY 2012
<p>enable efficient cyber experimentation and facilitate realistic testing of tools and techniques to enable high fidelity assessments of cyber tools and techniques and the rapid transition of research programs to operations. This program will transition to a DoD agency in FY 2012 and will be available for leverage or use by all Federal Government organizations.</p> <p><i>FY 2010 Accomplishments:</i></p> <ul style="list-style-type: none"> - Continued development of the prototype range and demonstration technologies. - Continued development of key technologies relevant to cyber testing. - Transitioned range automation software tools to the Air Force and SOCOM. <p><i>FY 2011 Plans:</i></p> <ul style="list-style-type: none"> - Complete NCR prototype development. - Commence NCR prototype cyber experiments. - Initiate the development of a business model to operate the NCR prototypes. <p><i>FY 2012 Plans:</i></p> <ul style="list-style-type: none"> - Continue to develop and test relevant technologies to improve the functionality of the NCR. - Develop plans to scale the NCR. - Complete transition of the National Cyber Range to a DoD customer and the transition of NCR technologies to government customers. 				
Accomplishments/Planned Programs Subtotals		49.791	10.000	10.000
D. Other Program Funding Summary (\$ in Millions) N/A				
E. Acquisition Strategy N/A				
F. Performance Metrics Specific programmatic performance metrics are listed above in the program accomplishments and plans section.				

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