Exhibit R-2, RDT&E Budget Item Justification: PB 2013 The Joint Staff										DATE: February 2012	
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 6: *RDT&E Management Support*					**R-1 ITEM NOMENCLATURE** PE 0303166J: *Support to Information Operations Capability*						

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	-	-	8.238	-	8.238	8.394	8.552	8.713	8.876	Continuing	Continuing
001: *Information Operations Range*	-	-	8.238	-	8.238	8.394	8.552	8.713	8.876	Continuing	Continuing
Quantity of RDT&E Articles											

Note
In FY2013 funds transfer to the Joint Staff. For FY2012 and previous, refer to PE 0303166D8Z.

A. Mission Description and Budget Item Justification

The IO Range provides a secure, flexible, and seamless environment for the Military Services and Joint warfighters to test, train, develop tactics, and exercise selected IO/Cyber capabilities. The basis of the functional structure of the IO Range is the integration of existing ranges, laboratories, information warfare centers, and other Government facilities that currently support IO/Cyber test, training, exercise, and experimentation events. Capabilities at the selected sites are securely connected and integrated into the IO Range. A key feature of this concept is a persistent, secure connection that links the sites together, allowing the exchange of data and the visualization of effects as we employ capabilities. Creation of a "virtual range" based on persistent connections significantly reduces the amount of lead-time required to set up each new warfighter event. The long-term goal for the IO Range is to be a full spectrum IO/Cyber Range supporting: operations security (OPSEC), computer network operations (CNO), electronic warfare (EW), military information support operations (MISO), and military deception (MILDEC). This environment enables the warfighters to visualize non-kinetic weapons effects, understand the intricate and interactive effects generated by kinetic and non-kinetic weapons and achieve the same level of confidence and expertise in employing IO/Cyber capabilities as they have with kinetic capabilities.

B. Program Change Summary ($ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	-	-	8.238	-	8.238
Current President's Budget	-	-	8.238	-	8.238
Total Adjustments	-	-	-	-	-
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			

C. Accomplishments/Planned Programs ($ in Millions)	FY 2011	FY 2012	FY 2013
Title: IO Range	-	-	8.238

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C. Accomplishments/Planned Programs ($ in Millions)	**FY 2011**	**FY 2012**	**FY 2013**
FY 2013 Plans: • Expand national DoD and Inter-Agency awareness and support regarding IO and cyber related activities • Improve the threat representation and operational relevance of the network • Improve the integration of live, virtual, and constructive (LVC) simulations with other Joint training and testing communities and infrastructures • Develop a long term JIOR infrastructure development, operation and sustainment management plan that supports the application of user resources allocated by JIOR stakeholders to support user activities, to include JIOR expansion and modernization and interoperability with National and DoD Cyber Ranges • Improve capability to rapidly reset, regenerate, and adapt events • Improve capability to provide timely assessment for evaluation • Establish cost-reimbursable funding construct			
Accomplishments/Planned Programs Subtotals	-	-	8.238

D. Other Program Funding Summary ($ in Millions)

  N/A

E. Acquisition Strategy

  The Joint IO Range, under the JS Joint and Coalition Warfighting (JCW), manages the development and expansion of Joint IO Range capabilities to an increasing number of customers. Integration into the Joint Exercise program has allowed users to increase the use and capability of the range. Continued development of tools for the range will be required as adversarial capabilities improve.

F. Performance Metrics

  Performance metrics are measured through internal management controls and external assessments. Performance metrics include, but are not limited to time, money, realism, and fidelity as defined below:

  • Time – Will the effort enable the warfighter faster access to non-kinetic capabilities than current capabilities allow?

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• Money – Will the effort enable the warfighter to reduce duplication of effort and to prepare and execute events at a more effective and efficient cost than current capabilities allow?

• Realism – Will the effort enable the warfighter to create an environment that is closer to what he/she will operate in during real world operations than current capabilities allow?

• Fidelity – Will the effort ensure unity of efforts throughout the IO/CYBER Community?

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