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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2011 Office of Secretary Of Defense **DATE:** February 2010

<b>APPROPRIATION/BUDGET ACTIVITY</b>				<b>R-1 ITEM NOMENCLATURE</b>							
0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>				PE 0604787D8Z: <i>Joint Systems Integration Command</i>							
<b>COST (\$ in Millions)</b>	<b>FY 2009 Actual</b>	<b>FY 2010 Estimate</b>	<b>FY 2011 Base Estimate</b>	<b>FY 2011 OCO Estimate</b>	<b>FY 2011 Total Estimate</b>	<b>FY 2012 Estimate</b>	<b>FY 2013 Estimate</b>	<b>FY 2014 Estimate</b>	<b>FY 2015 Estimate</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
Total Program Element	18.083	19.585	19.413	0.000	19.413	19.561	19.767	20.067	20.365	Continuing	Continuing
P787: <i>Joint Systems Integration Command</i>	18.083	19.585	19.413	0.000	19.413	19.561	19.767	20.067	20.365	Continuing	Continuing

**A. Mission Description and Budget Item Justification**

The FY 2005 National Defense Authorization Act (NDAA) directed the transfer of U.S. Joint Forces Command (USJFCOM) RDT&E funding of joint warfare experimentation and training programs from Navy accounts to new Defense Wide RDT&E accounts beginning in FY 2007.

JSIC supports Joint Requirements Oversight Council Memoranda (JROCM) by conducting system interoperability assessments, by providing warfighter utility assessments addressing near-term joint capability shortfalls, and by developing solutions to improve integration of Service and Agency systems. JSIC is the U.S. Joint Forces Command (USJFCOM) and Chairman, Joint Chiefs of Staff (CJCS) capability for warfighter exploration, capability integration, and evaluation of Command and Control (C2) and Command, Control, Computer, Communication, Intelligence, Surveillance & Reconnaissance (C4ISR) capabilities. JSIC provides Combatant Commands with a laboratory and assessment environment for the warfighter and technologist. This environment provides for assessment of current and near-term joint operational capabilities. JSIC's Persistent Command and Control (C2) Environment accurately replicates an operational C2 architectures. With this capability, JSIC assesses operational, system of systems, technical, software, and procedural interoperability of new systems and programs to confirm readiness for initial acquisition and fielding of evolutionary improvements.

JSIC serves as the technical analysis and operational assessment activity in support of the Joint Staff capability-driven requirements process, the Joint Capabilities Integration and Development System (JCIDS). Through JSIC's analysis and assessment, systems are evaluated for "value-added" prior to employment in joint environments typical of deployed theaters of operation. JSIC also serves as a joint compliance activity for the milestone decision authorities/program managers, including the Command and Control Capability Integration Board (C2CIB) and associated, Functional Command and Control Board (FCB). The C2 Capability Portfolio Manager (C2 CPM) has tasked JSIC to provide analysis and assessment of C2 portfolio systems.

By establishing ground truth for interoperability, utility, and suggesting remedies for demonstrated shortfalls, JSIC is a forcing function for interoperable joint solutions and a means to foster rapid, near-term insertion of C4ISR technology by promoting the ability to meet the DoD direction for spiral development and evolutionary acquisition. JSIC's mission assignment is to provide for the fielding of warfighter C2 systems through rapid systems integration, technical tasking, and operational assessment using laboratory environments and field venues. In the world of C2 and ISR capability, performance in the field is the bottom line. In terms of investment, JSIC is the "ounce of prevention" that precludes a "pound" of mission failure and loss of life due to interoperability failures in actual military operations.

**UNCLASSIFIED**

R-1 Line Item #105

Page 1 of 22

**UNCLASSIFIED**

<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2011 Office of Secretary Of Defense	<b>DATE:</b> February 2010
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<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0604787D8Z: <i>Joint Systems Integration Command</i>
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**B. Program Change Summary (\$ in Millions)**

	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011 Base</u>	<u>FY 2011 OCO</u>	<u>FY 2011 Total</u>
Previous President's Budget	19.643	19.744	0.000	0.000	0.000
Current President's Budget	18.083	19.585	19.413	0.000	19.413
Total Adjustments	-1.560	-0.159	19.413	0.000	19.413
• Congressional General Reductions		0.000			
• Congressional Directed Reductions		0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds		0.000			
• Congressional Directed Transfers		0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-0.448	0.000			
• Other Program Adjustments	-1.112	-0.159	19.413	0.000	19.413

**UNCLASSIFIED**

R-1 Line Item #105

Page 2 of 22

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2011 Office of Secretary Of Defense								<b>DATE:</b> February 2010			
<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0604787D8Z: <i>Joint Systems Integration Command</i>				<b>PROJECT</b> P787: <i>Joint Systems Integration Command</i>			
<b>COST (\$ in Millions)</b>	<b>FY 2009 Actual</b>	<b>FY 2010 Estimate</b>	<b>FY 2011 Base Estimate</b>	<b>FY 2011 OCO Estimate</b>	<b>FY 2011 Total Estimate</b>	<b>FY 2012 Estimate</b>	<b>FY 2013 Estimate</b>	<b>FY 2014 Estimate</b>	<b>FY 2015 Estimate</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
<i>P787: Joint Systems Integration Command</i>	18.083	19.585	19.413	0.000	19.413	19.561	19.767	20.067	20.365	Continuing	Continuing
Quantity of RDT&E Articles											

**A. Mission Description and Budget Item Justification**

The FY 2005 National Defense Authorization Act (NDAA) directed the transfer of U.S. Joint Forces Command (USJFCOM) RDT&E funding of joint warfare experimentation and training programs from Navy accounts to new Defense Wide RDT&E accounts beginning in FY 2007.

JSIC supports Joint Requirements Oversight Council Memoranda (JROCM) by conducting system interoperability assessments, by providing warfighter utility assessments addressing near-term joint capability shortfalls, and by developing solutions to improve integration of Service and Agency systems. JSIC is the U.S. Joint Forces Command (USJFCOM) and Chairman, Joint Chiefs of Staff (CJCS) capability for warfighter exploration, capability integration, and evaluation of Command and Control (C2) and Command, Control, Computer, Communication, Intelligence, Surveillance & Reconnaissance (C4ISR) capabilities. JSIC provides Combatant Commands, at the joint force headquarters level, with a laboratory and assessment environment for the warfighter and technologist. This environment provides for assessment of current and near-term joint operational capabilities. JSIC's Persistent Command and Control (C2) Environment accurately replicates an operational C2 environment. With this capability, JSIC assesses operational, system of systems, technical, software, and procedural interoperability of new systems and programs to confirm readiness for initial acquisition and fielding of evolutionary improvements.

JSIC serves as the technical analysis and operational assessment activity in support of the Joint Staff capability-driven requirements process, the Joint Capabilities Integration and Development System (JCIDS). Through JSIC's analysis and assessment, systems are evaluated for "value-added" prior to employment in joint environments typical of deployed theaters of operation. JSIC also serves as a joint interoperability compliance activity for the milestone decision authorities/program managers, including the Command and Control Capability Integration Board (C2CIB) and associated, Functional Command and Control Board (FCB). The C2 Capability Portfolio Manager (C2 CPM) has tasked JSIC to provide analysis and assessment of C2 portfolio systems.

By establishing ground truth for interoperability and suggesting remedies for demonstrated shortfalls, JSIC is a forcing function for interoperable joint solutions and a means to foster rapid, near-term insertion of C4ISR technology by promoting the ability to meet the DoD direction for spiral development and evolutionary acquisition. JSIC's mission assignment is to provide for the fielding of warfighter C2 systems through rapid systems integration, technical assessment, and operational evaluation using laboratory environments and field venues. In the world of C2 and ISR interoperability, performance in the field is the bottom line. In terms of investment, JSIC is the "ounce of prevention" that precludes a "pound" of mission failure and loss of life due to interoperability failures in actual military operations.

**UNCLASSIFIED**

R-1 Line Item #105

Page 3 of 22

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2011 Office of Secretary Of Defense			<b>DATE:</b> February 2010			
<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0604787D8Z: <i>Joint Systems Integration Command</i>	<b>PROJECT</b> P787: <i>Joint Systems Integration Command</i>				
<b>B. Accomplishments/Planned Program (\$ in Millions)</b>						
		<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011 Base</b>	<b>FY 2011 OCO</b>	<b>FY 2011 Total</b>
<p>Interoperability Technology Demonstration Center (ITDC) and Interoperability Assessments (IA)</p> <p>Primary outcome (objective) for this effort is seamless interoperability between DoD systems supporting the warfighter. ITDC supports the interoperability assessment of systems in five categories: operational, system of systems, technical, software, and procedural. These assessments provide supporting justification for continued development of a program within the acquisition system.</p> <p><i>FY 2009 Accomplishments:</i></p> <p>Conducted the following interoperability demonstrations of C2 developmental systems/applications in support of Combatant Commanders, Services, and Agencies:</p> <p>Joint System Baseline Assessment 2009 (JSBA 09) - Conducted a technical interoperability and operational integration assessment of current and transitional C2 systems, C4 ingest of Battlespace Awareness data, joint targeting systems needed by conventional and irregular warfare forces and measured improvements to shortfalls discovered in JSBA 08.</p> <p>Coalition Warfare Interoperability Demonstration 2009 (CWID 09) Selected Trial Assessments - As directed, augmented the assessment of selected Trial Demonstrations by providing analysts for C4ISR technologies that show potential for near-term transition, as determined by the CWID Technology Transition Information Working Group and recommended assessment methodology improvements to further CWID effectiveness.</p> <p>My Internet Relay Chat (mIRC)/Extensible Messaging and Presence Protocol (XMPP) Based Persistent Chat Application (JABBER) – Provided USCENTCOM an analysis of the functional and technical differences between mIRC and the XMPP based persistent chat application, JABBER</p>		10.383	11.685	11.641	0.000	11.641

**UNCLASSIFIED**

R-1 Line Item #105

Page 4 of 22

















**UNCLASSIFIED**

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<b>B. Accomplishments/Planned Program (\$ in Millions)</b>								
				<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011 Base</b>	<b>FY 2011 OCO</b>	<b>FY 2011 Total</b>
<p>on quantified capability improvements; 3) Increased empirical data to support benefit-cost ratio improvements of JTF HQ investment decisions to ensure JTF HQs command and control (C2) capabilities are interoperable from technical and operational standpoints; 4) Increased number of assessments conducted that identify current force JTF HQs C2 systems that are interoperable and supported, that inform and recommend solutions to integrate, modify, or retire current force systems; 5) Increased number of assessment based recommendations of technology solutions that address the military utility of proposed and existing Service solutions; and 6) Increased number of solutions deployed with recognized DOTMLPF impacts.</p> <p>Program Management offices benefit because the JSIC program provides a venue for Military Utility Assessments (MUAs) of technologies before committing to implementation. The potential savings associated with finding existing commercial technologies to provide gap filler solutions, and avoid the fielding of systems that are not interoperable or that fail to meet warfighter needs, are difficult to quantify. Potentially life-threatening shortfalls are identified and fixed in advance of fielding. Services benefit directly by reduced Program Manager costs and by fielding systems that are interoperable and meet warfighter needs.</p> <p><i>FY 2009 Accomplishments:</i> Cross Domain Solutions (CDS) – In support of DoD’s Unified Cross Domain Management Office (UCDMO), conducted performance-based assessments of selected mature CDS technologies. These assessments are performed in a controlled, (non-dynamic) environment, exercising both technical/ interoperability and operational/utility assessment aspects. The assessment of one of two CDS technologies revealed a serious security concern and a “not ready for fielding” recommendation was provided.</p> <p>Command Post of the Future (CPoF) and Adobe Connect Pro 6 Capability Assessment - Conducted an analysis of Adobe Connect Pro 6 and CPoF to assess interoperability and evaluate information exchange capabilities between computers equipped with only the CPoF software, computers equipped</p>								

**UNCLASSIFIED**

R-1 Line Item #105

Page 13 of 22











**UNCLASSIFIED**

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<b>B. Accomplishments/Planned Program (\$ in Millions)</b>								
				<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011 Base</b>	<b>FY 2011 OCO</b>	<b>FY 2011 Total</b>
<p><i>FY 2011 Base Plans:</i> Continue FY2010 initiatives by engaging the Services and Communities of Interest (COI) to leverage the capabilities of the Persistent Command and Control environment by bringing joint solutions through JSIC's integration and operational assessment process. Also continue to expand existing relationships with Service and Coalition Labs and Engineering organizations.</p>								
Accomplishments/Planned Programs Subtotals				18.083	19.585	19.413	0.000	19.413
<b>C. Other Program Funding Summary (\$ in Millions)</b>								
N/A								
<b>D. Acquisition Strategy</b>								
JSIC supports interoperability of systems selected for acquisition, integration and fielding. JSIC is intended to be a forcing function to discover and provide interoperable joint solutions as a means to foster rapid, near-term insertion of C2 technology by promoting the ability to meet the DoD direction for spiral development and evolutionary acquisition. Services and Defense Agencies are responsible for conducting acquisition activities in Programs of Record (POR).								
<b>E. Performance Metrics</b>								
<p>FY09 Strategic Goals Supported: JC2 Existing Baseline: Number of FY 2008 Assessments/Interoperability Demonstrations/Capability Integrations Planned Performance Improvement / Requirement Goal: 5% increase in assessments, integrations &amp; demos Actual Performance Improvement: Achieved 29 of planned 21 assessments/demos Planned Performance Actual Performance Metric / Methods of Measurement: Number of assessments, integrations &amp; demos Actual Performance Metric / Methods of Measurement: Completed 29 assessments/demos</p> <p>FY10 Strategic Goals Supported: JC2 Existing Baseline: Number of FY 2009 Assessments/Interoperability Demonstrations/Capability Integrations Planned Performance Improvement / Requirement Goal: 5% increase in assessments, integrations &amp; demos</p>								

**UNCLASSIFIED**

R-1 Line Item #105

Page 19 of 22

**UNCLASSIFIED**

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<p>Actual Performance Improvement:            Planned Performance Actual Performance Metric / Methods of Measurement: Number of assessments, integrations &amp; demos            Actual Performance Metric / Methods of Measurement:</p> <p>Performance of Joint Systems Integration Command is measured by successful delivery of JSIC products to customers by required delivery dates. Notably FY09 productivity delivered included: Coalition Warrior Interoperability Demonstration (CWID) 2009 – Provided venue for 21 of 43 trials and assessment results for 5 promising technologies; Joint System Baseline Assessment (JSBA) 2009 – Conducted technical interoperability and operational integration assessment of current and transitional C2 systems, identified interoperability shortfalls and provided actionable recommendations to resolve critical system interoperability shortfalls; Tactical Cellular Network (TactiCell) – Integrated existing technologies to provide handheld wideband communications system for dismounted SOF teams; Transportation Visualization (TransViz) - Exercised virtual lab partnership with USSTRATCOM and USTRANSCOM to recommend improvements to TransViz tool supporting Time Phased Force Deployment Data (TPFDD) planning and validation; Tactical Service Provider (TSP) – Provided simulated COCOM node to assess the new 2-way Global Broadcast System (GBS) during the initial Limited Utility Assessment and other technical demonstrations.</p>		

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**Exhibit R-4, RDT&E Schedule Profile:** PB 2011 Office of Secretary Of Defense **DATE:** February 2010

<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0604787D8Z: <i>Joint Systems Integration Command</i>	<b>PROJECT</b> P787: <i>Joint Systems Integration Command</i>
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Event Name	FY 09				FY 10				FY 11				FY 12				FY 13				FY 14				FY 15			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
<b>Project Selection, Project Planning</b>																												
<b>Procurement</b>																												
<b>Testing/Integration/Assessment</b>																												
<b>Report/Findings</b>																												

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**Exhibit R-4A, RDT&E Schedule Details:** PB 2011 Office of Secretary Of Defense **DATE:** February 2010

<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0604787D8Z: <i>Joint Systems Integration Command</i>	<b>PROJECT</b> P787: <i>Joint Systems Integration Command</i>
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Schedule Details

Event	Start		End	
	Quarter	Year	Quarter	Year
Project Selection, Project Planning	1	2009	4	2012
Procurement	1	2009	4	2012
Testing/Integration/Assessment	1	2009	4	2012
Report/Findings	1	2009	4	2012

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