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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> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0603727D8Z: <i>Joint Warfighting</i>
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COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	10.244	11.045	10.966	0.000	10.966	11.074	11.202	11.384	11.588	Continuing	Continuing
P727: <i>Joint Warfighting</i>	10.244	11.045	10.966	0.000	10.966	11.074	11.202	11.384	11.588	Continuing	Continuing

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

The OSD Joint Warfighting Program (JWP) account supports two related activities supporting the Department's Joint Experimentation. The Joint Advanced Warfighting Program (JAWP) captures lessons learned and assessments from contingency operations to inform resource allocation, and Combatant Command Experimentation Cells which enable Combatant Commands to examine operational needs and capability gap alternatives via limited objective experiments and concept development.

The Joint Advanced Warfighting Program (JAWP) is supported by the Office of the Secretary of Defense (OSD) Policy and AT&L, with the continuing concurrence of the Joint Staff (J7) to serve as a catalyst for critical analysis and development of innovative concepts on an accelerated basis. The JAWP provides an independent capability for joint warfare analysis and bridges operational lessons learned in the Combatant Commands with joint experimentation conducted at US Joint Forces Command and the other Combatant Commands. This program fuses a team of civilian operational analysis experts with mid-grade and senior military officers to provide first-hand research into topics of pivotal importance to current and future joint campaigns. These analyses serve as a basis for formulation and assessment of advanced concepts and capabilities, identifying enabling technologies and operational integration options for the Department. Resultant concepts drive changes in the doctrine, organization, training, materiel, leadership, personnel, and facilities (DOTMLPF) of the Services. The JAWP serves an essential, expert, and independent feedback role in identifying, exploring and evaluating breakthrough war fighting capabilities. It captures and builds on lessons learned from joint contingency operations and earlier joint and Service experimentation. From that foundation, it identifies and helps formulate advanced joint concepts, explores their effectiveness by recommending design and conduct of joint experiments, and helps streamline implementation processes. Its work complements and supports the activities of Joint Forces Command, the Joint Staff, CoComs and OSD.

The Combatant Command Experimentation Cells activity invigorates Combatant Command staffs participation in joint experimentation as a fundamental element of joint capability development. In this activity, JWP underwrites small grants to joint Combatant Commands to invigorate employment of experimentation and analyses, and stimulate participation in the larger Joint Experimentation Enterprise. This activity assists CoComs to specify operational needs and examine capability gap alternatives. Through this activity, JWP also directly funds CoComs specific operational needs and examines capability gap alternatives. The process assesses military contingency operations and formulates advanced joint concepts to be tested and refined via experiments, doctrine development, and demonstrations. The JWP directly enfranchises the CoComs to employ capabilities for mission needs analysis and joint experimentation. It aims to reinvigorate CoCom staff capabilities to employ rigorous analysis and experimentation methodologies in support of their specific mission assignments. By empowering CoCom staffs to critically assess their own needs and examine viable capability gap solutions, the JWP aims to focus larger research and development investments, like Joint Experimentation and Joint

**UNCLASSIFIED**

R-1 Line Item #48

Page 1 of 8

**UNCLASSIFIED**

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<b>APPROPRIATION/BUDGET ACTIVITY</b>	<b>R-1 ITEM NOMENCLATURE</b>
0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i>	PE 0603727D8Z: <i>Joint Warfighting</i>
BA 3: <i>Advanced Technology Development (ATD)</i>	

Capability Technology Demonstrations to specific warfighter requirements. The JWP enables joint commanders to conduct limited objective experiments in theater that explore capability gaps and potential capability solutions unique to their mission set. The JWP is intended to be seed funding encouraging leveraged employment of existing defense analysis and experimentation infrastructure such as networked access to the centralized Joint Futures Laboratory facilities at U.S. Joint Forces Command. This approach minimizes redundant investment, strengthens the relevance of defense analysis and experimentation projects, and diversifies the range of solutions considered for pursuit by the department.

**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	11.098	11.135	0.000	0.000	0.000
Current President's Budget	10.244	11.045	10.966	0.000	10.966
Total Adjustments	-0.854	-0.090	10.966	0.000	10.966
• 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	-0.517	0.000			
• SBIR/STTR Transfer	-0.337	0.000			
• Other Program Adjustments	0.000	-0.090	10.966	0.000	10.966

**UNCLASSIFIED**

R-1 Line Item #48

Page 2 of 8

**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 3: <i>Advanced Technology Development (ATD)</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0603727D8Z: <i>Joint Warfighting</i>				<b>PROJECT</b> P727: <i>Joint Warfighting</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>P727: Joint Warfighting</i>	10.244	11.045	10.966	0.000	10.966	11.074	11.202	11.384	11.588	Continuing	Continuing

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

The OSD Joint Warfighting Program (JWP) account supports two related activities supporting the Department's Joint Experimentation. The Joint Advanced Warfighting Program (JAWP) captures lessons learned and assessments from contingency operations to inform resource allocation, and Combatant Command Experimentation Cells which enable Combatant Commands to examine operational needs and capability gap alternatives via limited objective experiments and concept development.

The Joint Advanced Warfighting Program (JAWP) is supported by the Office of the Secretary of Defense (OSD) Policy and AT&L, with the continuing concurrence of the Joint Staff (J7) to serve as a catalyst for critical analysis and development of innovative concepts on an accelerated basis. The JAWP provides an independent capability for joint warfare analysis and bridges operational lessons learned in the Combatant Commands with joint experimentation conducted at US Joint Forces Command and the other Combatant Commands. This program fuses a team of civilian operational analysis experts with mid-grade and senior military officers to provide first-hand research into topics of pivotal importance to current and future joint campaigns. These analyses serve as a basis for formulation and assessment of advanced concepts and capabilities, identifying enabling technologies and operational integration options for the Department. Resultant concepts drive changes in the doctrine, organization, training, materiel, leadership, personnel, and facilities (DOTMLPF) of the Services. The JAWP serves an essential, expert, and independent feedback role in identifying, exploring and evaluating breakthrough war fighting capabilities. It captures and builds on lessons learned from joint contingency operations and earlier joint and Service experimentation. From that foundation, it identifies and helps formulate advanced joint concepts, explores their effectiveness by recommending design and conduct of joint experiments, and helps streamline implementation processes. Its work complements and supports the activities of Joint Forces Command, the Joint Staff, CoComs and OSD.

The Combatant Command Experimentation Cells activity invigorates Combatant Command staffs participation in joint experimentation as a fundamental element of joint capability development. In this activity, JWP underwrites small grants to joint Combatant Comands to invigorate employment of experimentation and analyses, and stimulate participation in the larger Joint Experimentation Enterprise. This activity assists CoComs to specify operational needs and examine capability gap alternatives. Through this activity, JWP also directly funds CoComs specific operational needs and examines capability gap alternatives. The process assesses military contingency operations and formulates advanced joint concepts to be tested and refined via experiments, doctrine development, and demonstrations. The JWP directly enfranchises the CoComs to employ capabilities for mission needs analysis and joint experimentation. It aims to reinvigorate CoCom staff capabilities to employ rigorous analysis and experimentation methodologies in support of their specific mission assignments. By empowering CoCom staffs to critically assess their own needs and examine viable capability gap solutions, the JWP aims to focus larger research and development investments, like Joint Experimentation and Joint Capability Technology Demonstrations to specific warfighter requirements. The JWP enables joint commanders to conduct limited objective experiments in theater that explore capability gaps and potential capability solutions unique to their mission set. The JWP is intended to be seed funding encouraging leveraged employment

**UNCLASSIFIED**

R-1 Line Item #48

Page 3 of 8

**UNCLASSIFIED**

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<p>of existing defense analysis and experimentation infrastructure such as networked access to the centralized Joint Futures Laboratory facilities at U.S. Joint Forces Command. This approach minimizes redundant investment, strengthens the relevance of defense analysis and experimentation projects, and diversifies the range of solutions considered for pursuit by the department.</p> <p>Centralized funding for Defense Joint Experiment (JE) was established in FY 2000 in Navy PE 060372N. US Joint Forces Command (USJFCOM) was designated as executive agent for this funding. A smaller residual analysis and experimentation support account for was deliberately maintained under the aegis of the Office of the Director, Defense Research &amp; Engineering (DDR&amp;E) to provide leverage over the larger USJFCOM account, and to establish an independent capability for joint warfare analysis. This OSD Joint Warfighting Program (JWP) account supports the Joint Advanced Warfighting Program (JAWP) and directly empowers joint commanders' ability to conduct analysis and experimental concept development.</p> <p>The Joint Advanced Warfighting Program (JAWP) is strongly supported by the OSD Policy and AT&amp;L, with the continuing concurrence of the Joint Staff (J7) to serve as a catalyst for critical analysis and development of innovative concepts on an accelerated basis. This program fuses a team of civilian operational analysis experts with mid-grade and senior military officers to provide first-hand research into topics of pivotal importance to current and future joint campaigns. These analyses serve as a basis for formulation and assessment of advanced concepts and capabilities, identifying enabling technologies and operational integration options for the department. Resultant concepts drive changes in the doctrine, organization, training, materiel, leadership, personnel, and facilities (DOTMLPF) of the Services. The JAWP serves an essential, expert, and independent feedback role in identifying, exploring and evaluating breakthrough war fighting capabilities. It captures and builds on lessons learned from joint contingency operations and earlier joint and Service experimentation. From that foundation, it identifies and helps formulate advanced joint concepts, explores their effectiveness by recommending design and conduct of joint experiments, and helps streamline implementation processes. Its work complements and supports the activities of Joint Forces Command, the Joint Staff, CoComs, and the OSD.</p> <p>An invigorated defense enterprise for joint experimentation is a fundamental element of joint capability development. Elements of the JWP assist CoComs to specify operational needs and examine capability gap alternatives. The JWP also directly funds CoComs experimentation cells to address specific operational needs and examine capability gap alternatives. The processes assess military contingency operations and formulate advanced joint concepts to be tested and refined via experiments, doctrine development, and demonstrations. The JWP directly enfranchises the CoComs to employ capabilities for mission needs analysis and joint experimentation. It aims to reinvigorate CoCom staff capabilities to employ rigorous analysis and experimentation methodologies in support of their specific mission assignments. By empowering CoCom staffs to critically assess their own needs and examine viable capability gap solutions, the JWP aims to focus larger research and development investments, like Joint Experimentation and Joint Capability Technology Demonstrations to specific warfighter requirements. The JWP enables joint commanders to conduct limited objective experiments in theater that explore capability gaps and potential capability solutions unique to their mission set. The JWP is intended to be seed funding encouraging leveraged employment of existing defense analysis and experimentation infrastructure such as networked access to the centralized Joint Futures Laboratory facilities at U.S. Joint Forces Command. This approach minimizes redundant investment, strengthens the relevance of defense analysis and experimentation projects, and diversifies the range of solutions considered for pursuit by the department.</p>		

**UNCLASSIFIED**

R-1 Line Item #48

Page 4 of 8







**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>
and effect resource allocation and acquisition. It will continue efforts to align department processes in ways that make them more responsive to the needs of CoComs and their subordinate forces and coalition partners.						
Accomplishments/Planned Programs Subtotals		10.244	11.045	10.966	0.000	10.966
<b>C. Other Program Funding Summary (\$ in Millions)</b> N/A						
<b>D. Acquisition Strategy</b> N/A						
<b>E. Performance Metrics</b> Performance of Joint Experimentation systems is measured through metrics including (1) objective validation of enhanced CoCom capabilities to perform joint missions in their assigned theaters and areas of responsibility, (2) documented delivery effective joint operational concepts, (3) confirmed production of refined and validated capability descriptions.						

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