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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2017 Office of the Secretary Of Defense **Date:** February 2016

<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide I BA 4: Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0603923D8Z / <i>Coalition Warfare</i>
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COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
Total Program Element	31.545	9.974	10.330	10.126	-	10.126	10.822	11.115	11.266	11.486	Continuing	Continuing
P923: <i>Coalition Warfare</i>	31.545	9.974	10.330	10.126	-	10.126	10.822	11.115	11.266	11.486	Continuing	Continuing

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

The Coalition Warfare Program (CWP) supports DoD organizations that: 1) work with foreign partners to collaboratively address strategic technology gaps for current and future missions; 2) develop interoperability solutions for coalition operations; and 3) develop and strengthen defense relationships. CWP is the only Office of the Secretary of Defense (OSD) program with this mission. Coalition warfare and multinational operations are fundamental features of the U.S. national security strategy. Coalitions provide a broad base of technological, operational, and logistical support for military operations and ease the U.S. financial and manpower burdens associated with meeting military goals and objectives. Coalitions and relationships with international partners are high priorities for the nation and the Department of Defense.

CWP supplements a U.S. Government proponent's funding for cooperative efforts, ensuring U.S. funds are sufficient to complete the engagement with the foreign partner(s). When CWP funds are used to help fund a cooperative project, that project leverages technical and financial contributions of the foreign partner(s) and speeds up the development and delivery of technical solutions to the warfighter. In its fifteen-year history, CWP has leveraged \$4 of foreign partner funding from 76 foreign partners and \$3 of other U.S. Government funding for every \$1 CWP has invested in cooperative projects. CWP funding enables DoD project teams to move a technology into the next stage of development or to complete and transition a technology to operational forces. These projects may also form the basis for future cooperation with international partners.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Previous President's Budget	10.125	10.350	10.432	-	10.432
Current President's Budget	9.974	10.330	10.126	-	10.126
Total Adjustments	-0.151	-0.020	-0.306	-	-0.306
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.004	-0.020			
• SBIR/STTR Transfer	-0.147	-			
• Baseline program adjustments	-	-	-0.035	-	-0.035
• Efficiency Reduction	-	-	-0.191	-	-0.191
• Economic Assumptions Adjustment	-	-	-0.080	-	-0.080

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**Appropriation/Budget Activity**  
0400: *Research, Development, Test & Evaluation, Defense-Wide / BA 4:  
Advanced Component Development & Prototypes (ACD&P)*

**R-1 Program Element (Number/Name)**  
PE 0603923D8Z / *Coalition Warfare*

**Change Summary Explanation**

Program baseline reduced to fund other department priorities.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Office of the Secretary Of Defense										<b>Date:</b> February 2016		
<b>Appropriation/Budget Activity</b> 0400 / 4					<b>R-1 Program Element (Number/Name)</b> PE 0603923D8Z / <i>Coalition Warfare</i>				<b>Project (Number/Name)</b> P923 / <i>Coalition Warfare</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
P923: <i>Coalition Warfare</i>	31.545	9.974	10.330	10.126	-	10.126	10.822	11.115	11.266	11.486	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

The Coalition Warfare Program (CWP) supports DoD organizations that: 1) work with foreign partners to collaboratively address strategic technology gaps for current and future missions; 2) develop interoperability solutions for coalition operations; and 3) develop and strengthen defense relationships. CWP is the only Office of the Secretary of Defense (OSD) program with this mission. Coalition warfare and multinational operations are fundamental features of the U.S. national security strategy. Coalitions provide a broad base of technological, operational, and logistical support for military operations and ease the U.S. financial and manpower burdens associated with meeting military goals and objectives. Coalitions and relationships with international partners are high priorities for the nation and the Department of Defense.

CWP supplements a U.S. Government proponent's funding for cooperative efforts, ensuring U.S. funds are sufficient to complete the engagement with the foreign partner(s). When CWP funds are used to help fund a cooperative project, that project leverages technical and financial contributions of the foreign partner(s) and speeds up the development and delivery of technical solutions to the warfighter. In its fifteen-year history, CWP has leveraged \$4 of foreign partner funding from 76 foreign partners and \$3 of other U.S. Government funding for every \$1 CWP has invested in cooperative projects. CWP funding enables DoD project teams to move a technology into the next stage of development or to complete and transition a technology to operational forces. These projects may also form the basis for future cooperation with international partners.

**B. Accomplishments/Planned Programs (\$ in Millions)**

	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
<b>Title:</b> Previous Year Continuing Projects	8.509	5.017	0.913
<b>Description:</b> Program provided additional funding to projects that began in earlier selection cycles. Currently funded portfolio includes projects with 16 different foreign partners.			
<b>FY 2015 Accomplishments:</b> Continuation of efforts that will result in improved real-time communications in urban settings and improved detection of biological agents.			
<b>FY 2016 Plans:</b> Completion of efforts that will result in improved submarine force network interoperability, improved standoff detection of explosives, and non-lethal options for disabling maritime vessels.			
<b>FY 2017 Plans:</b>			

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Completion of efforts that will enhance detection, classification and mapping of underwater munitions and mines and increase underwater power to sensors in marine environments.				
<p><b>Title:</b> Advanced Solid Fuel Ramjet Ground Demonstrator for Air-Launched Tactical Missile Systems</p> <p><b>Description:</b> US Navy project to increase stand-off range of air- and surface-launched missiles by developing and demonstrating solid fuel ramjet technologies.</p> <p><b>FY 2016 Plans:</b> Define system technical design and requirements; evaluate alternate system design options, and select optimum design.</p> <p><b>FY 2017 Plans:</b> Perform subscale fuel performance testing; complete subsystem components and mechanical hardware design and analysis; test subsystem/components and verify design functionality and performance.</p>		-	0.280	0.672
<p><b>Title:</b> Chemical Agent Detector-Kit Colorimetric Reader</p> <p><b>Description:</b> US Army project to improve warfighters' ability to determine whether it is safe to unmask in an environment where chemical warfare agent might be present by developing a prototype color reader accessory for the M256A2 Chemical Agent Detector Kit.</p> <p><b>FY 2017 Plans:</b> Test breadboard prototype against threat chemical agents.</p>		-	-	0.200
<p><b>Title:</b> Coalition ISR Asset Interoperability</p> <p><b>Description:</b> US Army project that will enable autonomous cross-cueing and shared control of intelligence, surveillance, and reconnaissance (ISR) assets on the ground and various mobile platforms through development of open standard architecture for autonomous plug-and-play interoperability of fixed and mobile coalition ISR assets.</p> <p><b>FY 2016 Plans:</b> Develop operational concepts and conduct initial tests.</p> <p><b>FY 2017 Plans:</b> Modify software and conduct additional tests. Update architecture and develop draft standardization specification.</p>		-	0.366	0.544
<p><b>Title:</b> Compact Wide-band Optics for Multispectral Infrared Imaging System</p> <p><b>Description:</b> US Navy project to reduce the size, weight, power and cost of imaging sensors on weight-sensitive platforms by developing compact wide-band infrared imaging lens system.</p> <p><b>FY 2016 Plans:</b></p>		-	0.328	0.522

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Measure physical and optical properties of initial prototypes. <b>FY 2017 Plans:</b> Complete construction of initial prototypes.				
<b>Title:</b> Directed Energy Power Systems <b>Description:</b> US Navy project to improve directed energy weapons interface with ship's electrical power by combining flywheel technology with advanced power system control techniques. <b>FY 2016 Plans:</b> Prepare test site, and develop test plans. Establish concept of operations and mission objectives. <b>FY 2017 Plans:</b> Perform advanced controls research, development, and experiments.		-	0.285	0.530
<b>Title:</b> Deny the Enemy through Electromagnetic Cavity Tracking <b>Description:</b> Combating Terrorism Technical Support Office project to improve subterranean detection. <b>FY 2016 Plans:</b> Bi-static system prototype design, enhancement, and fabrication; test and evaluation support.		-	0.676	-
<b>Title:</b> Micro-Layered Transparent Armor <b>Description:</b> US Navy project to obtain a two-fold reduction in transparent armor weight through use of revolutionary micro-layer transparent armor. <b>FY 2016 Plans:</b> Set up and calibrate facility. Begin modeling of micro-layer armor. <b>FY 2017 Plans:</b> Scale up and conduct ballistic testing.		-	0.269	0.474
<b>Title:</b> Enhanced Maritime Domain Awareness Utilizing Multi-Input Multi-Output Enabled 2-D Over the Horizon Radar <b>Description:</b> US Navy project to improve persistent, long-range maritime surveillance by implementing improvements to over the horizon radar. <b>FY 2016 Plans:</b> Conduct initial system level data collection and preliminary analysis. <b>FY 2017 Plans:</b>		-	0.575	0.467

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Conduct additional data collection, process collected data and conduct analysis. Evaluate effectiveness and analyze impact of practical implementation.				
<p><b>Title:</b> Optoelectronic Oscillator Frequency Comb as a GPS-alternative for assured Positioning, Navigation, Timing</p> <p><b>Description:</b> US Army project to maintain warfighters' access to position, navigation, and timing signals when GPS is jammed or unavailable by creating an alternative system for the transmission of synchronization signals.</p> <p><b>FY 2016 Plans:</b> Construct free-space frequency transfer system in a controlled environment.</p> <p><b>FY 2017 Plans:</b> Collect environmental data and conduct field tests.</p>		-	0.150	0.170
<p><b>Title:</b> Space Situational Awareness Nanosat Development</p> <p><b>Description:</b> US Air Force project to improve tracking of space objects and debris in real-time.</p> <p><b>FY 2016 Plans:</b> Collaboration of space-situational awareness (SSA) payload.</p> <p><b>FY 2017 Plans:</b> Completion of brassboard SSA payload and flight unit.</p>		-	0.118	0.118
<p><b>Title:</b> High Altitude Long Endurance Solar Powered UAS</p> <p><b>Description:</b> US Navy project to provide enduring airborne intelligence, surveillance, and reconnaissance (ISR) capability by developing an ultra-lightweight and low power communications and ISR relay platform and integrating onto solar power UAS airframe.</p> <p><b>FY 2015 Accomplishments:</b> Payload design. Hardware purchase and testing.</p> <p><b>FY 2016 Plans:</b> Prototype payload development.</p> <p><b>FY 2017 Plans:</b> Payload integration with airframe.</p>		0.450	0.460	0.421
<p><b>Title:</b> Tasked Target Text Data Web Features Services</p> <p><b>Description:</b> US Air Force project to automate transfer of information from Air Operations Center to tactical units.</p>		-	0.303	0.260

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
<p><b>FY 2016 Plans:</b> Adapt current tools to automatically push and receive data.</p> <p><b>FY 2017 Plans:</b> Conduct integration testing and initial prototype testing.</p>				
<p><b>Title:</b> High Efficiency, Ultra-Thin Silicon Solar Cells for Expeditionary Power</p> <p><b>Description:</b> US Marine Corps project to increase mission endurance by creating a lightweight, man-portable solar array.</p> <p><b>FY 2016 Plans:</b> Testing and characterization of ultra thin Si Wafers.</p> <p><b>FY 2017 Plans:</b> Production of improved design and characterization of Si solar cells. Fabrication and testing.</p>		-	0.220	0.380
<p><b>Title:</b> Coalition Undersea Power and Data Station for Autonomous Vehicle Charging</p> <p><b>Description:</b> US Navy project to autonomously transfer wireless energy to undersea vehicles.</p> <p><b>FY 2016 Plans:</b> Technical analysis and engineering. Equipment purchase.</p> <p><b>FY 2017 Plans:</b> System development and integration.</p>		-	0.162	0.380
<p><b>Title:</b> Automated/Cooperative Navigation &amp; Control of Multiple Unmanned Maritime Vehicles From Single Unmanned Surface Vehicle</p> <p><b>Description:</b> US Navy project to enable simultaneous control of multiple UUVs by developing prototype navigation and localization systems.</p> <p><b>FY 2017 Plans:</b> Conduct site survey and develop test plan and procedures for sea trial.</p>		-	-	0.206
<p><b>Title:</b> Project Selections</p> <p><b>Description:</b> Program will conduct competitive nomination process to identify new projects.</p> <p><b>FY 2017 Plans:</b></p>		-	-	2.846

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Projects selected based on Combatant Command, Service, Joint Staff, OSD, and DoD Agency priorities and requirements.				
<p><b>Title:</b> Coalition Warfare Program (CWP) Support</p> <p><b>Description:</b> Program funds contractors to support CWP program management, which includes: ensuring CWP projects are consistent with the policies and principles articulated in Department of Defense directives and regulations; monitoring project progress toward goals and objectives to include tracking project budget execution; providing assessments of program status and risk to higher authorities; briefing and providing recommendations to the Director, International Cooperation concerning new and continuing CWP projects; supporting periodic meetings to foster international cooperation and improve U.S. interoperability with foreign partners; supporting CWP proposal selection process and coordinating financial activities at the OUSD(AT&amp;L) level; briefing program stakeholders on the status of CWP projects and interoperability initiatives; educating Combatant Command, Service, Agency, and OSD personnel about the CWP and the opportunity to improve coalition interoperability.</p> <p><b>FY 2015 Accomplishments:</b> Contractor provides management support of the CWP, to include evaluating proposals for FY16 funding, attends RDT&amp;E meetings and events, and monitors and manages projects' technical and financial performance.</p> <p><b>FY 2016 Plans:</b> Contractor provides management support of the CWP, to include evaluating proposals for FY17 funding, attends RDT&amp;E meetings and events, and monitors and manages projects' technical and financial performance.</p> <p><b>FY 2017 Plans:</b> Contractor provides management support of the CWP, to include evaluating proposals for FY18 funding, attends RDT&amp;E meetings and events, and monitors and manages projects' technical and financial performance.</p>		0.531	0.541	0.552
<p><b>Title:</b> Interoperability and Collaboration Initiatives</p> <p><b>Description:</b> Program provides funds in support of new or planned acquisition programs with the aim of 1) promoting coalition interoperability early in the requirements or technical development phases, 2) harmonizing common goals between U.S. and foreign partners, 3) improving management of collaborative efforts. Funds support workshops, risk reduction efforts, standards development, architecture analysis, and information management initiatives.</p> <p><b>FY 2015 Accomplishments:</b> Program funds efforts aimed at building partnerships, improving U.S. interoperability with foreign partners and improving collaborative project processes.</p> <p><b>FY 2016 Plans:</b></p>		0.484	0.580	0.471

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Office of the Secretary Of Defense	<b>Date:</b> February 2016
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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	FY 2015	FY 2016	FY 2017
<p>Program will fund efforts aimed at building partnerships, improving U.S. interoperability with foreign partners and improving collaborative project processes.</p> <p><b>FY 2017 Plans:</b> Program will fund efforts aimed at building partnerships, improving U.S. interoperability with foreign partners and improving collaborative project processes.</p>			
<b>Accomplishments/Planned Programs Subtotals</b>	9.974	10.330	10.126

**C. Other Program Funding Summary (\$ in Millions)**

N/A

**Remarks**

**D. Acquisition Strategy**

The Combatant Commands, Services, Defense Agencies, and the Office of the Secretary of Defense nominate candidate projects on an annual basis. CWP provides selected projects up to three years of funding. The Program selects projects that address DoD priorities and meet the needs and requirements specified by the Joint Staff and the Combatant Commanders. Projects have equitable contributions from international partners, strong potential for transition, and contribute to allied interoperability and/or meet a user need.

**E. Performance Metrics**

After successful completion of the competitive nomination process, initial project funding is dependent on receipt of project documentation, which includes financial information, project plan, description of project team, etc. Continued project funding is dependent on compliance with CWP requirements, which include: adequate progress toward each project's stated goals, timely reporting on financial status and project activities, provision of updated project plans and charts, and progress towards transition goals.

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Office of the Secretary Of Defense** **Date:** February 2016

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<b>Product Development (\$ in Millions)</b>				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Coalition Warfare Program Project Product Development Costs	Various	Various : Various	20.804	7.279		8.239		7.760		-		7.760	-	-	-
<b>Subtotal</b>			20.804	7.279		8.239		7.760		-		7.760	-	-	-

<b>Test and Evaluation (\$ in Millions)</b>				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Coalition Warfare Program Project Test and Evaluation Costs	Various	Various : Various	5.963	1.894		1.296		1.556		-		1.556	-	-	-
<b>Subtotal</b>			5.963	1.894		1.296		1.556		-		1.556	-	-	-

<b>Management Services (\$ in Millions)</b>				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Coalition Warfare Program Project Management Services Costs	Various	Various : Various	4.778	0.801		0.795		0.810		-		0.810	-	-	-
<b>Subtotal</b>			4.778	0.801		0.795		0.810		-		0.810	-	-	-

	Prior Years	FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>		31.545	9.974		10.330		10.126		-	10.126	-	-	-

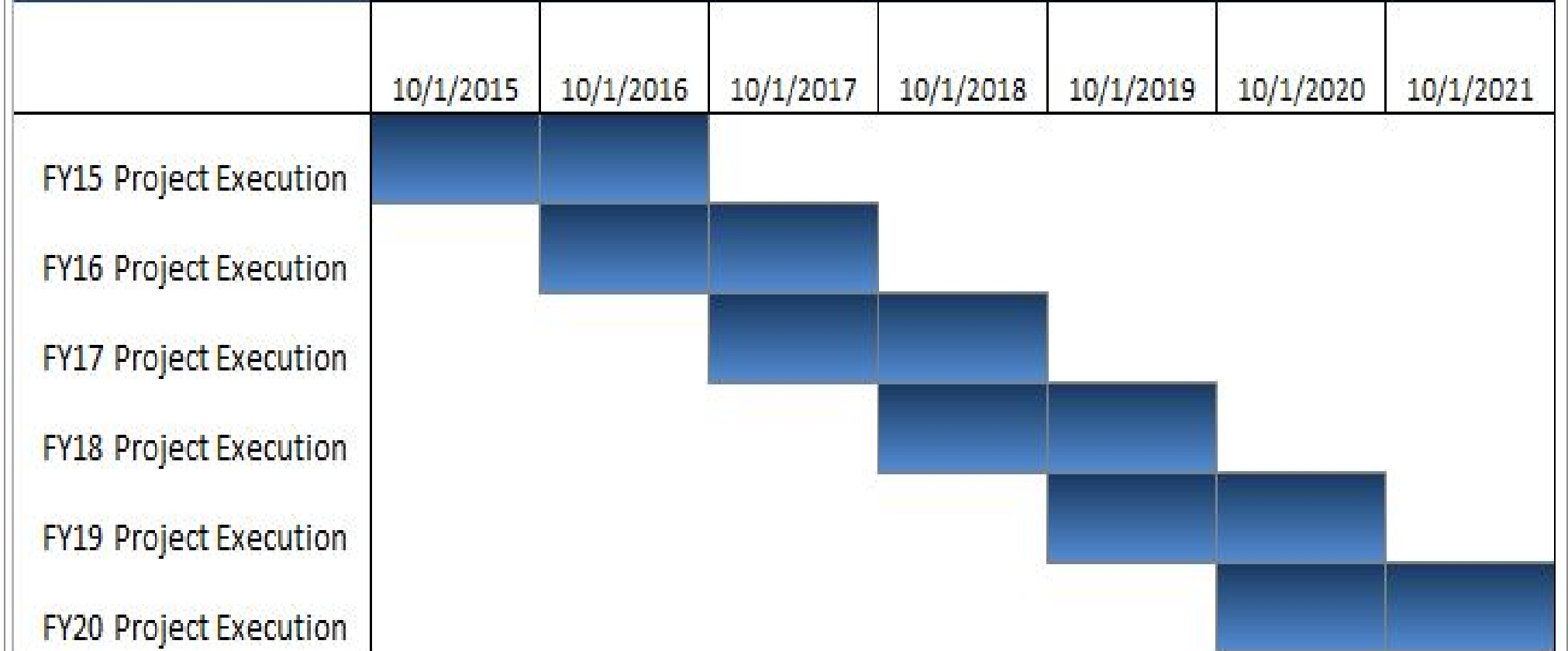
**Remarks**

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**Exhibit R-4, RDT&E Schedule Profile:** PB 2017 Office of the Secretary Of Defense **Date:** February 2016

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## CWP Project Plan



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**Exhibit R-4A, RDT&E Schedule Details:** PB 2017 Office of the Secretary Of Defense **Date:** February 2016

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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
FY15 CWP Project Execution	1	2015	4	2016
FY16 CWP Project Execution	1	2016	4	2017
FY17 CWP Project Execution	1	2017	4	2018
FY18 CWP Project Execution	1	2018	4	2019
FY19 CWP Project Execution	1	2019	4	2020
FY20 CWP Project Execution	1	2020	4	2021