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| Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Office of Secretary Of Defense | DATE: April 2013 |
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|---|---|
| APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i> | R-1 ITEM NOMENCLATURE PE 0603923D8Z: <i>Coalition Warfare</i> |
|---|---|

| COST (\$ in Millions) | All Prior Years | FY 2012 | FY 2013 [#] | FY 2014 Base | FY 2014 OCO ^{##} | FY 2014 Total | FY 2015 | FY 2016 | FY 2017 | FY 2018 | Cost To Complete | Total Cost |
|--------------------------------|-----------------|---------|----------------------|--------------|---------------------------|---------------|---------|---------|---------|---------|------------------|------------|
| Total Program Element | - | 11.389 | 11.398 | 9.842 | - | 9.842 | 12.438 | 12.359 | 11.927 | 12.158 | Continuing | Continuing |
| P923: <i>Coalition Warfare</i> | - | 11.389 | 11.398 | 9.842 | - | 9.842 | 12.438 | 12.359 | 11.927 | 12.158 | Continuing | Continuing |

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

^{##} The FY 2014 OCO Request will be submitted at a later date

Note

CWP Budget rephased, with \$1.53M moved out of the FY14 budget and into the FY15 and FY16 budgets.

A. Mission Description and Budget Item Justification

Current U.S. military strategy and the global security environment make coalition warfare and multinational operations 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. U.S. strategic guidance confirms that coalitions and relationships with international partners are high priorities for the nation and the Department of Defense.

The Coalition Warfare Program (CWP) responds to this guidance while striving to deliver new and improved capabilities to the warfighter. CWP provides seed funding to DoD organizations to conduct cooperative research, development, test, and evaluation (RDT&E) projects with foreign government partners. It is the only Office of the Secretary of Defense (OSD) program dedicated to initiating cooperative RDT&E projects with allied and partner nations. CWP seed funding is leveraged against funding from other U.S. government sponsors and foreign partners. In its twelve-year history, CWP has leveraged \$3.1 of other U.S. funding for every \$1 it has invested in cooperative projects and \$4.4 of foreign partner funding for every \$1 investment.

CWP projects enable Project Teams to move a technology into the next stage of development or prepare for transition to operational forces. These projects may also form the basis for future cooperation with our international partners. CWP projects support DoD acquisition by helping program offices convert U.S.-only projects into coalition solutions for the U.S. warfighter, influencing coalition interoperability in major programs that will have far-reaching use by U.S. forces, addressing requirements of combined operations early in a program's development cycle to avert risks to joint/coalition operations and avoid costs associated with adding requirements later in the acquisition process, enabling U.S. DoD access to leading-edge global technology, and providing significant cost savings to the DoD while maintaining a strong research and development base.

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| Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Office of Secretary Of Defense | | | | DATE: April 2013 | |
| APPROPRIATION/BUDGET ACTIVITY | | R-1 ITEM NOMENCLATURE | | | |
| 0400: Research, Development, Test & Evaluation, Defense-Wide | | PE 0603923D8Z: Coalition Warfare | | | |
| BA 4: Advanced Component Development & Prototypes (ACD&P) | | | | | |
| B. Program Change Summary (\$ in Millions) | FY 2012 | FY 2013 | FY 2014 Base | FY 2014 OCO | FY 2014 Total |
| Previous President's Budget | 12.434 | 11.398 | 11.495 | - | 11.495 |
| Current President's Budget | 11.389 | 11.398 | 9.842 | - | 9.842 |
| Total Adjustments | -1.045 | 0.000 | -1.653 | - | -1.653 |
| • Congressional General Reductions | - | - | | | |
| • Congressional Directed Reductions | - | - | | | |
| • Congressional Rescissions | - | - | | | |
| • Congressional Adds | - | - | | | |
| • Congressional Directed Transfers | - | - | | | |
| • Reprogrammings | - | - | | | |
| • SBIR/STTR Transfer | - | - | | | |
| • Adjustments | -1.045 | - | -1.653 | - | -1.653 |
| Change Summary Explanation | | | | | |
| The FY 2014 decrease was due to funding other higher priority programs within AT&L. | | | | | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2014 Office of Secretary Of Defense | | | | | | | | | | DATE: April 2013 | | |
| APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 4: Advanced Component Development & Prototypes (ACD&P) | | | | | R-1 ITEM NOMENCLATURE PE 0603923D8Z: Coalition Warfare | | | | PROJECT P923: Coalition Warfare | | | |
| COST (\$ in Millions) | All Prior Years | FY 2012 | FY 2013 [#] | FY 2014 Base | FY 2014 OCO ^{##} | FY 2014 Total | FY 2015 | FY 2016 | FY 2017 | FY 2018 | Cost To Complete | Total Cost |
| P923: Coalition Warfare | - | 11.389 | 11.398 | 9.842 | - | 9.842 | 12.438 | 12.359 | 11.927 | 12.158 | Continuing | Continuing |
| Quantity of RDT&E Articles | | | | | | | | | | | | |
| # FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012 | | | | | | | | | | | | |
| ## The FY 2014 OCO Request will be submitted at a later date | | | | | | | | | | | | |
| A. Mission Description and Budget Item Justification | | | | | | | | | | | | |
| Current U.S. military strategy and the global security environment make coalition warfare and multinational operations 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. U.S. strategic guidance confirms that coalitions and relationships with international partners are high priorities for the nation and the Department of Defense. | | | | | | | | | | | | |
| The Coalition Warfare Program (CWP) responds to this guidance while striving to deliver new and improved capabilities to the warfighter. CWP provides seed funding to DoD organizations to conduct cooperative research, development, test, and evaluation (RDT&E) projects with foreign government partners. It is the only Office of the Secretary of Defense (OSD) program dedicated to initiating cooperative RDT&E projects with allied and partner nations. CWP seed funding is leveraged against funding from other U.S. government sponsors and foreign partners. In its twelve-year history, CWP has leveraged \$3.1 of other U.S. funding for every \$1 it has invested in cooperative projects and \$4.4 of foreign partner funding for every \$1 investment. | | | | | | | | | | | | |
| CWP projects enable Project Teams to move a technology into the next stage of development or prepare for transition to operational forces. These projects may also form the basis for future cooperation with our international partners. CWP projects support DoD acquisition by helping program offices convert U.S.-only projects into coalition solutions for the U.S. warfighter, influencing coalition interoperability in major programs that will have far-reaching use by U.S. forces, addressing requirements of combined operations early in a program's development cycle to avert risks to joint/coalition operations and avoid costs associated with adding requirements later in the acquisition process, enabling U.S. DoD access to leading-edge global technology, and providing significant cost savings to the DoD while maintaining a strong research and development base. | | | | | | | | | | | | |
| B. Accomplishments/Planned Programs (\$ in Millions) | | | | | | | | | | FY 2012 | FY 2013 | FY 2014 |
| Title: Previous Year Continuing Projects | | | | | | | | | | 9.420 | 5.130 | 0.000 |
| Description: Program provided additional funding to projects that began in earlier selection cycles. | | | | | | | | | | | | |
| FY 2012 Accomplishments: | | | | | | | | | | | | |
| Projects completed efforts in areas such as: a physics-based mission planning tool to direct the selection and placement of electromagnetic sensors for tunnel detection: an extensible capability of performing distributed federated query and information dissemination across a network of distributed, disparate data and information sources; and a hybrid power source capable of | | | | | | | | | | | | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2014 Office of Secretary Of Defense | | DATE: April 2013 | | |
| APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 4: Advanced Component Development & Prototypes (ACD&P) | | R-1 ITEM NOMENCLATURE PE 0603923D8Z: Coalition Warfare | | PROJECT P923: Coalition Warfare |
| B. Accomplishments/Planned Programs (\$ in Millions) | | FY 2012 | FY 2013 | FY 2014 |
| producing 150 watts of continuous power for powering military devices and charging military rechargeable batteries in a small, lightweight package. FY 2013 Plans: Continuation of efforts that will result in delivery of: an improved small directional battlefield antenna; a portable power system utilizing renewable energy; fused data from sensor networks to characterize the ionosphere over the African continent; and a satellite angular mapping tool to characterize coastlines for targeting and for shore assault operations technologies. | | | | |
| Title: FY14 Project Selections Description: Program will conduct competitive nomination process to identify new projects. FY 2014 Plans: FY14 projects will be selected based on COCOM, Service, Joint Staff, OSD, and DoD Agency priorities and requirements. | | 0.000 | 0.000 | 5.500 |
| Title: Blast Propagation Through Failed Blast Door in Tunnel Description: Develop and validate a new fast running model for blast propagation through failing blast doors in tunnels to be used to predict weapons effects beyond blast doors (BDs) in tunnels FY 2013 Plans: Development of the fast running model (FRM) for blast doors using high fidelity physics based (HFPB) calculations to scope the test event, and run an array of HFPB calculations to form a computational database from which to develop the FRM. FY 2014 Plans: Validating fast running model. | | 0.000 | 0.500 | 0.500 |
| Title: Coalition Wideband Waveform Development Description: A multinational project to procure a secure wideband networking waveform, modify it as needed to meet the agreed upon specification, and deliver this waveform on a radio platform that coalition partners can test against to verify interoperability as they port to their own national Software Defined Radios (SDRs). FY 2013 Plans: Creation of Coalition Wideband Waveform Crypto Algorithm. FY 2014 Plans: Waveform/Crypto Integration, COTS Waveform assessment. | | 0.000 | 0.800 | 0.250 |
| Title: Dualband Pointer and Illuminator System | | 0.600 | 0.000 | 0.000 |

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| B. Accomplishments/Planned Programs (\$ in Millions) | | FY 2012 | FY 2013 | FY 2014 |
| Description: To develop a near infrared (NIR) and shortwave infrared (SWIR) Dualband Pointer and Illuminator System that will complement the Clip-On Shortwave Imager (COSI), for augmented night vision goggle applications. FY 2012 Accomplishments: Requirements analysis and prototype development. | | | | |
| Title: International Collaborative Development of Enhanced (ICODE) Maritime Domain Awareness (MDA) Description: ICODE-MDA will confront maritime threats to the U.S. and coalition allies by developing an open source library of advanced analysis tools ("software widgets") that will work in concert with established MDA portals and Common Operating Pictures. FY 2013 Plans: Collaboratively develop and test tools for the analysis of MDA data, including but not limited to: automated imagery analysis, anomaly detection and behavioral analysis, data fusion, and monitoring, control and surveillance automation. FY 2014 Plans: Further develop and test tools and integrate them into web-portals. Conduct collaborative sea tests to evaluate and update tools accordingly. | | 0.000 | 0.500 | 0.500 |
| Title: Nonlinear Energy Harvester for Low Frequency Vibrations Embedded in Low Frequency Background Noise Description: Develop Micro Electrical Mechanical Systems (MEMS) which is a micro-scale vibrational energy harvester capable of operating at low frequency in the presence of low frequency band-limited noise. FY 2013 Plans: Modeling of randomly driven nonlinear oscillators. Conducting simulations. Design of readout circuits and prototype(s) testing. | | 0.000 | 0.600 | 0.000 |
| Title: Incorporation of Magnesium Backing Plate for Improved Body Armor Description: This project will yield a body armor design with enhanced protection against small caliber threats as well as ergonomic improvements through the inclusion and integration of a lightweight, ultrahigh strength magnesium alloy backing plate. FY 2013 Plans: Purchase of materials, computational modeling, and ballistic testing of test panels. FY 2014 Plans: Purchase of additional material and additional ballistic testing. | | 0.000 | 0.275 | 0.275 |
| Title: Multi-functional Earpiece | | 0.225 | 0.225 | 0.000 |

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| APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i> | R-1 ITEM NOMENCLATURE PE 0603923D8Z: <i>Coalition Warfare</i> | PROJECT P923: <i>Coalition Warfare</i> | |
| B. Accomplishments/Planned Programs (\$ in Millions) | | FY 2012 | FY 2013 |
| Description: Provide a Soldier with a Multi-functional Earpiece that will mitigate hearing injuries, enhance situational awareness, and help identify potential harmful injuries due to blast or blunt exposure on the battlefield. FY 2012 Accomplishments: Design and development of the microelectromechanical systems accelerometer. FY 2013 Plans: Hearing protection testing and validation of amplification and acceleration monitor. | | | |
| Title: NASIC Project Description: An offline PED suite to process data. FY 2013 Plans: Develop hardware. FY 2014 Plans: Hardware validation | | 0.000 | 0.500 |
| Title: High-Fidelity RF-over-Fiber Link for Improved Interoperability of C4ISR Systems Description: Develop a radio frequency (RF)-over-fiber link fiber-optic cable prototype that suppresses optical noise effects so as to create a low-noise, broadband, and light-weight communications solution for C4ISR systems. FY 2013 Plans: Purchase equipment. Design, construct, and optimize prototype. FY 2014 Plans: Continued prototype development. Purchase additional equipment. | | 0.000 | 0.225 |
| Title: Solar Solutions for Soldier Nano-Grids Description: Advancement and integration of photovoltaic technology and conformal batteries with wearable energy harvesting and nano-grid platforms to produce an optimized, integrated platform to reduce the human and logistical burdens associated with soldier power mission requirements. FY 2012 Accomplishments: Prototype design. FY 2013 Plans: | | 0.100 | 0.110 |
| | | | 0.000 |

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| B. Accomplishments/Planned Programs (\$ in Millions) | | FY 2012 | FY 2013 | FY 2014 |
| Prototype testing. | | | | |
| Title: Submarine Anti-Jam GPS Enhancement Description: Provide GPS anti-jam antenna system for submarines to support missions dependent on GPS position and timing. FY 2012 Accomplishments: Initial design and development of production representative prototypes. FY 2013 Plans: Delivery of prototypes. Cooperative land, air, and sea testing. | | 0.150 | 0.410 | 0.000 |
| Title: Spectrum Management Interoperability and Electronic Warfare (EW) Analysis Description: Advance the spectrum data exchange mechanism and evaluate Electronic Warfare (EW) capabilities. FY 2013 Plans: Collaboratively define the interoperability spectrum data and begin development of the format for data exchange. FY 2014 Plans: Finalize the development of the data exchange software tool. Validate through simulations. | | 0.000 | 0.145 | 0.155 |
| Title: Small Scalable Kinetic Weapon Description: Conduct systems engineering trade study and hardware-in-the-loop ground test of integrated, unmanned aerial system launched, small, low collateral damage, munition with scalable effects warhead and an electro-optic seeker. FY 2013 Plans: Provide specifications and designs. Prepare the hardware-in-the-loop facility. FY 2014 Plans: Finish hardware-in-the-loop facility preparations and execute the test objectives. | | 0.000 | 0.500 | 0.500 |
| Title: Transatlantic Collaborative Biological Resiliency Demonstration (TaCBRD) Bio-detector Development (Test and Evaluation) Description: System maturation and testing of novel standoff biological agent detector that identifies the presence of multiple biological agents. FY 2013 Plans: Two chamber release tests to identify required system improvements. FY 2014 Plans: | | 0.000 | 0.150 | 0.150 |

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| B. Accomplishments/Planned Programs (\$ in Millions) | | FY 2012 | FY 2013 |
| Two field release tests and additional system improvements. | | | |
| Title: Coalition Warfare Program (CWP) Support Description: 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 as well as tracking project budget execution; providing assessment 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 CWP 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&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. FY 2012 Accomplishments: Contractor provided management support of the CWP, to include evaluating proposals for FY13 funding, attending RDT&E meetings and events, and monitoring and managing projects' technical and financial performance. On-site contractor support reduced by 33% due to Efficiency Defense-wide cut. FY 2013 Plans: Contractor will continue to provide management support of the CWP, to include evaluating proposals for FY14 funding, attending RDT&E meetings and events, and monitoring and managing projects' technical and financial performance. FY 2014 Plans: Contractor will continue to provide management support of the CWP, to include evaluating proposals for FY15 funding, attending RDT&E meetings and events, and monitoring and managing projects' technical and financial performance. | | 0.527 | 0.554 |
| Title: Interoperability and Collaboration Initiatives Description: 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. FY 2012 Accomplishments: Program funded efforts aimed at improving U.S. interoperability with foreign partners and improving collaborative project processes. FY 2013 Plans: | | 0.367 | 0.774 |
| | | | 0.718 |

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| APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i> | R-1 ITEM NOMENCLATURE PE 0603923D8Z: <i>Coalition Warfare</i> | PROJECT P923: <i>Coalition Warfare</i> | |
| B. Accomplishments/Planned Programs (\$ in Millions) | | FY 2012 | FY 2013 |
| Program will fund efforts aimed at improving U.S. interoperability with foreign partners and improving collaborative project processes. | | | |
| FY 2014 Plans: Program will fund efforts aimed at improving U.S. interoperability with foreign partners and improving collaborative project processes. | | | |
| Accomplishments/Planned Programs Subtotals | | 11.389 | 11.398 |
| 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 one to two 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 2014 Office of Secretary Of Defense **DATE:** April 2013

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| APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i> | R-1 ITEM NOMENCLATURE PE 0603923D8Z: <i>Coalition Warfare</i> | PROJECT P923: <i>Coalition Warfare</i> |
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| Product Development (\$ in Millions) | | | | FY 2012 | | FY 2013 | | FY 2014 Base | | FY 2014 OCO | | FY 2014 Total | | | |
|---|------------------------|--------------------------------------|-----------------|---------|------------|---------|------------|--------------|------------|-------------|------------|---------------|------------------|------------|--------------------------|
| Cost Category Item | Contract Method & Type | Performing Activity & Location | All Prior Years | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| Coalition Warfare Program Project Product Development Costs | Various | Various Activities:Various Locations | - | 7.660 | | 8.519 | | 5.863 | | - | | 5.863 | Continuing | Continuing | |
| Subtotal | | | 0.000 | 7.660 | | 8.519 | | 5.863 | | 0.000 | | 5.863 | | | |

Remarks

Typical costs include engineering services, hardware procurement and development, and software development.

| Support (\$ in Millions) | | | | FY 2012 | | FY 2013 | | FY 2014 Base | | FY 2014 OCO | | FY 2014 Total | | | |
|---|------------------------|--------------------------------------|-----------------|---------|------------|---------|------------|--------------|------------|-------------|------------|---------------|------------------|------------|--------------------------|
| Cost Category Item | Contract Method & Type | Performing Activity & Location | All Prior Years | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| Coalition Warfare Program Project Support Costs | Various | Various Activities:Various Locations | - | 0.215 | | 0.296 | | 0.088 | | - | | 0.088 | Continuing | Continuing | |
| Subtotal | | | 0.000 | 0.215 | | 0.296 | | 0.088 | | 0.000 | | 0.088 | | | |

Remarks

Typical costs include project management, program analysis and support, and strategic planning.

| Test and Evaluation (\$ in Millions) | | | | FY 2012 | | FY 2013 | | FY 2014 Base | | FY 2014 OCO | | FY 2014 Total | | | |
|--|------------------------|--------------------------------------|-----------------|---------|------------|---------|------------|--------------|------------|-------------|------------|---------------|------------------|------------|--------------------------|
| Cost Category Item | Contract Method & Type | Performing Activity & Location | All Prior Years | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| Coalition Warfare Program Project Test and Evaluations Costs | Various | Various Activities:Various Locations | - | 2.220 | | 1.427 | | 2.057 | | - | | 2.057 | Continuing | Continuing | |
| Subtotal | | | 0.000 | 2.220 | | 1.427 | | 2.057 | | 0.000 | | 2.057 | | | |

Remarks

Support and execution related to developmental test and evaluation, and related analysis.

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Office of Secretary Of Defense | | | | | | | | | | | | DATE: April 2013 | | |
| APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i> | | | | | | R-1 ITEM NOMENCLATURE PE 0603923D8Z: <i>Coalition Warfare</i> | | | | PROJECT P923: <i>Coalition Warfare</i> | | | | |

| Management Services (\$ in Millions) | | | | FY 2012 | | FY 2013 | | FY 2014 Base | | FY 2014 OCO | | FY 2014 Total | | | |
|---|------------------------------|--|--------------------|---------|---------------|---------|---------------|-----------------|---------------|----------------|---------------|------------------|---------------------|---------------|--------------------------------|
| Cost Category Item | Contract Method & Type | Performing Activity & Location | All Prior Years | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| Coalition Warfare Program Project Management Services Costs | Various | Various Activities:Various Locations | - | 1.294 | | 1.156 | | 1.834 | | - | | 1.834 | Continuing | Continuing | |
| Subtotal | | | 0.000 | 1.294 | | 1.156 | | 1.834 | | 0.000 | | 1.834 | | | |

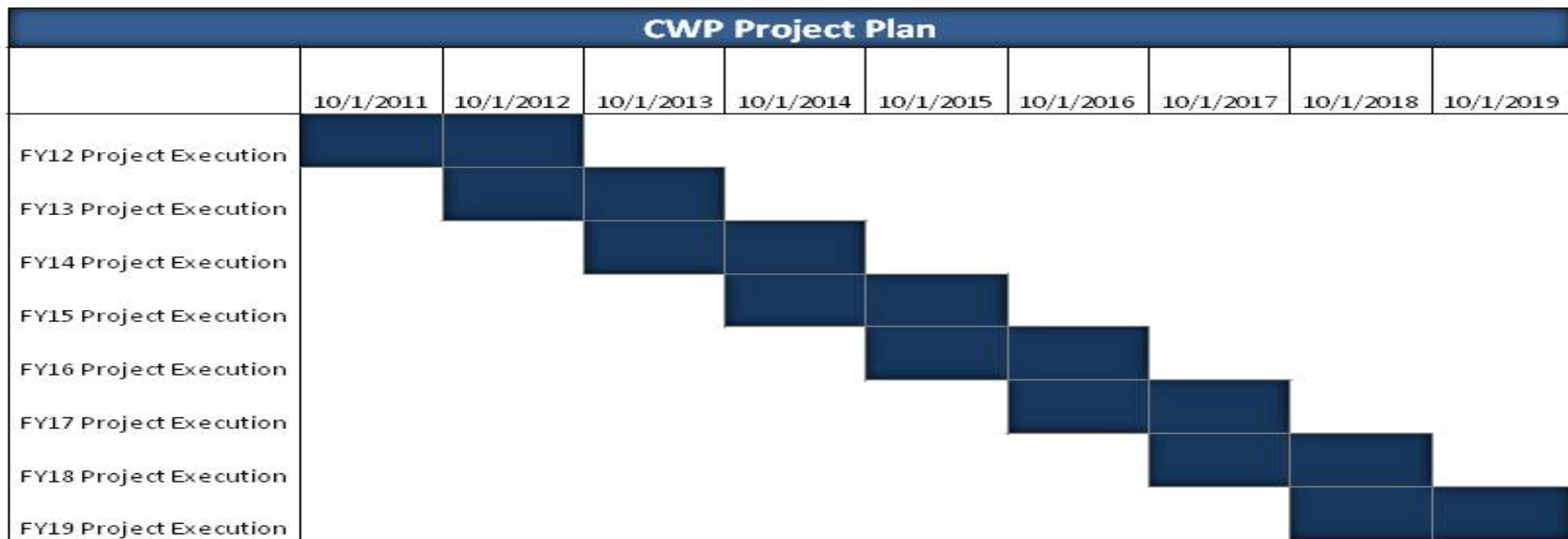
Remarks
Typical costs include government program management personnel and related contracted management support labor and related travel.

| | All Prior Years | FY 2012 | FY 2013 | FY 2014 Base | FY 2014 OCO | FY 2014 Total | Cost To Complete | Total Cost | Target Value of Contract |
|----------------------------|--------------------|---------|---------|-----------------|----------------|------------------|---------------------|---------------|--------------------------------|
| Project Cost Totals | 0.000 | 11.389 | 11.398 | 9.842 | 0.000 | 9.842 | | | |

Remarks

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| Exhibit R-4, RDT&E Schedule Profile: PB 2014 Office of Secretary Of Defense | | | | | | | DATE: April 2013 | | |
| APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i> | | | | R-1 ITEM NOMENCLATURE PE 0603923D8Z: <i>Coalition Warfare</i> | | | PROJECT P923: <i>Coalition Warfare</i> | | |



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| Exhibit R-4A, RDT&E Schedule Details: PB 2014 Office of Secretary Of Defense | | | DATE: April 2013 |
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Schedule Details

| Events | Start | | End | |
|--------------------|---------|------|---------|------|
| | Quarter | Year | Quarter | Year |
| FY11-FY12 Projects | 1 | 2012 | 4 | 2012 |
| FY12-FY13 Projects | 1 | 2012 | 4 | 2013 |
| FY13-FY14 Projects | 1 | 2012 | 4 | 2014 |
| FY14-FY15 Projects | 1 | 2013 | 4 | 2015 |
| FY15-FY16 Projects | 1 | 2014 | 4 | 2016 |
| FY16-FY17 Projects | 1 | 2015 | 4 | 2017 |
| FY17-FY18 Projects | 1 | 2016 | 4 | 2018 |