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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Navy DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 0308601N: Modeling & Simulation Support
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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	7.963	8.072	5.908	5.116	-	5.116	5.489	5.542	5.766	5.870	Continuing	Continuing
2222: Modeling & Simulation	7.963	8.072	5.908	5.116	-	5.116	5.489	5.542	5.766	5.870	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

A. Mission Description and Budget Item Justification

This Program Element addresses projects under the Navy Modeling and Simulation (M&S) Office. It supports technical and management initiatives directed by Congress, Department of Defense (DOD), Secretary of the Navy (SECNAV), and Chief of Naval Operations (CNO) with the aim of bringing organization and focus to the development and use of M&S throughout the Navy and DoD. It provides a central agency for the formulation and implementation of policy and guidance in M&S, and represents Navy interests in Joint and other agency initiatives. It funds efforts to define and coordinate the corporate Navy M&S policy and guidance to evolve an interoperable and reusable core M&S capability consistent with the M&S technical framework prescribed by DOD. Efforts are organized around three product areas: (1) Core Services: This activity provides essential planning and coordination of M&S efforts with other Services, the Office of Secretary of Defense (OSD), the Joint Staff, and other agencies to develop policies and procedures necessary for M&S standards, visibility, and potential reuse across DoD. (2) Community Services: This activity provides M&S subject matter expert support embedded in the DON M&S Communities to recommend implementations for M&S policies, standards, VV&A, and reuse within their Community and to ensure that the wider DON and DoD are aware (visibility) of the M&S products and services, initiatives, processes, and standards. (3) Community Experiments and Prototypes: This activity conducts experiments and prototypes aimed at determining the feasibility and applicability of proposed standards or technical approaches to Navy M&S and investigates Service-unique requirements for standards or guidance to achieve M&S efficiencies.

B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	8.292	5.908	5.503	-	5.503
Current President's Budget	8.072	5.908	5.116	-	5.116
Total Adjustments	-0.220	0.000	-0.387	-	-0.387
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.220	0.000			
• Rate/Misc Adjustments	0.000	0.000	-0.387	-	-0.387

UNCLASSIFIED

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<u>Change Summary Explanation</u> Technical: Not applicable. Schedule: Not applicable.		

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy									DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development					R-1 ITEM NOMENCLATURE PE 0308601N: Modeling & Simulation Support				PROJECT 2222: Modeling & Simulation			
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
2222: Modeling & Simulation	7.963	8.072	5.908	5.116	-	5.116	5.489	5.542	5.766	5.870	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0		0	0	0	0	0		
# 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												
This Program Element addresses projects under the Navy Modeling and Simulation (M&S) Office. It supports technical and management initiatives directed by Congress, Department of Defense (DoD), Secretary of the Navy (SECNAV), and Chief of Naval Operations (CNO) with the aim of bringing organization, focus, and efficiency to the development and use of M&S throughout the Navy and DoD. It provides a central agency for the formulation and implementation of policy and guidance in M&S, and represents Navy interests in Joint and other Agency initiatives. It funds efforts to define and coordinate the corporate Navy M&S policy and guidance to evolve an interoperable and reusable core M&S capability consistent with the M&S technical framework prescribed by DoD. Efforts are organized around three product areas: (1) Core Services: This activity provides essential planning and coordination of M&S efforts with other Services, the Office of Secretary of Defense (OSD), the Joint Staff, and other agencies to develop policies and procedures necessary for M&S standards, visibility, and potential reuse across DoD. (2) Community Services: This activity provides M&S subject matter expert support embedded in the DON M&S Communities to recommend implementations for M&S policies, standards, VV&A, and reuse within their Community and to ensure that the wider DON and DoD are aware (visibility) of the M&S products and services, initiatives, processes, and standards. (3) Community Experiments and Prototypes: This activity conducts experiments and prototypes aimed at determining the feasibility and applicability of proposed standards or technical approaches to Navy M&S and investigates Service-unique requirements for standards or guidance to achieve M&S efficiencies.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2012	FY 2013	FY 2014	
Title: CORE SERVICES									1.294	1.353	1.408	
									0	0	0	
Description: This activity provides essential planning and coordination of M&S efforts with other Services, the Office of Secretary of Defense (OSD), the Joint Staff, and other agencies to develop policies and procedures necessary for M&S visibility and potential reuse across DoD. It provides updates to the DoD Enterprise Catalog, M&S Master Plan, and M&S Investment Strategy. This activity supports development of common services, tools, and databases to ensure the integration and connectivity of M&S products employed in Naval assessments, training, acquisition, and among operational communities. It manages and maintains the Navy M&S Information Service (NMSIS), the central Naval M&S information resource to support informed M&S investment decision making across DON. It implements and manages the Modeling and Simulation (M&S) Quality Assurance (VV&A) process and guidelines for implementing for modeling, simulation, and data. It reviews both new and legacy M&S VV&A												

UNCLASSIFIED

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013
plans and reports and develops and maintains the Naval M&S VV&A repository. It establishes and implements a VV&A training curriculum for developers and Accreditation Agents. <i>FY 2012 Accomplishments:</i> - Appointed Chair of the NATO M&S Data Visibility effort, MSG-100 M&S Resource Discovery. MSG-100 is the technical activity for developing discoverable metadata at the NATO level and includes participants from France, Germany, Turkey, and Canada. - Lead and coordinated a memorandum of understanding (MOU) between DISA and the Korean military which effectively allows sharing of M&S Metadata through DISA's Net-Centric Enterprise Services (NCES). - Created and lead the multi-Service opposition that successfully blocked another attempt by DoD to start a very expensive M&S program to create an new Live, Virtual and Constructive M&S environment. Their previous unsuccessful attempts, JWARS and JMASS, cost us over a billion dollars. - Responded to VV&A Help Desk inquiries, provided VV&A information, advice, and assistance, and collected VV&A documents for archiving, discovery, and sharing. - Provided the necessary inputs to allow DoDD 8320.02-G, Guidance for Implementing Net-Centric Data Sharing, April 12, 2006 to be updated to 8320.02-M and support a more bottom-up versus top-down approach to making data discoverable. - Led the Navy review - and provided inputs to - the draft of the Department of Defense Instruction (DoDI) Management of Modeling and Simulation Activities (5000.ww) and coordinated with SECNAV, OPNAV, and the Fleet in gathering, compiling, adjudicating, and reviewing inputs and proposed changes. - Provided input on DoD / M&S CO products including: Corporate and Crosscutting Business Plan (and Objectives), Net-Centric Environment Pilot Project Report, and Report on DoD Joint Wargaming Simulation Management. - Upgraded the Navy M&S Resource Registry (MSRR) by federating it with DoD's NCES Enterprise Catalog. - Coordinated and drafted a new version of SECNAVINST 5200.40A, Department of the Navy Verification, Validation, and Accreditation (VV&A) of Models and Simulations. - Began update of SECNAVINST 5200.38A (DON M&S Management) by reviewing the relevant DoD, DON, and OPNAV policy, defining content, and coordinating with stakeholders. - Researched M&S Standards issues and represented Navy in votes on NATO Standard Agreements and other M&S documents. - Continued the development, servicing and use of NMSIS as directed under applicable DoD Directives, SECNAVINST and OPNAVINST. - Provided substantive inputs to DoD plans, strategies, guidance, and definitions. Specific documents reviewed include: DoD M&S Enterprise Definition, DoD Enterprise Strategy (V1.1), DoD COI Operational Guidance, and the DoD Enterprise Data Strategy. As a result of these comments documents were streamlined, rationalized, and synchronized across DoD. - Created an M&S Policy and Practices (MSPP) extension to the DoD's M&S Community of interest Discovery Metadata Specification (MSCDMS) to enable the M&S community to effectively and efficiently find applicable plans, policies, and guidance			

UNCLASSIFIED

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
that impact their applications and initiatives. Current version of this extension has six major (meta) categories, twenty-three fields, defined data types, and many specifically enumerated lists. This extension has been uploaded to the DoD Enterprise Catalog. FY 2013 Plans: Continue FY-12 efforts FY 2014 Plans: Continue FY-13 efforts				
Title: COMMUNITY SERVICES Description: This activity provides M&S subject matter expert support embedded in the DON M&S Communities to recommend implementations for M&S policies and standards within their Community and to ensure that the wider Navy is aware of the M&S products and services, initiatives, processes, and standards (visibility). It promotes M&S reuse through cooperative Community M&S activities which identify and prioritize M&S capability requirements between and across Communities. It also provides an M&S degree program through the Naval Postgraduate School (NPS), Modeling Virtual Environments and Simulation (MOVES) curriculum which qualifies officers to fill 6202-P coded billets. Financial support for thesis and dissertation efforts done by the students is covered by this funding. Topics are broad M&S topics of concern which are prioritized based on how they meet the requirements across, between and within the M&S Communities. FY 2012 Accomplishments: - Worked with the MOVES Institute and the MOVES degree program at NPS to provide military relevant theses topics for the students. Also successfully negotiated USMC and US Army agreements to use MOVES as their primary post graduated education source to help minimize costs and maximize DoD M&S knowledge. - Conducted several M&S Forums across the Navy System Commands to coordinate, advise, inform, advocate, and implement M&S plans, strategies, goals, objectives and activities across the M&S acquisition, testing and experimentation communities. - Provided support to US Fleet Forces Command Training Directorate for development of Navy wide training policies and programs that facilitate effective force generation at lower costs through the effective use of M&S in the continued development of the Navy Continuous Training Environment and Fleet Synthetic Training Program. Key guidance developed includes the Fleet Training Continuum instruction and the Overarching Fleet Training Simulator Strategy. - Participated in DoD Service working groups and Joint reviews of M&S plans, programs, policies, and procedures, and publications. FY 2013 Plans:		Articles: 3.072 0	2.977 0	2.817 0

UNCLASSIFIED

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
Continue FY12 efforts				
FY 2014 Plans: Continue FY13 efforts				
Title: COMMUNITY EXPERIMENTS and PROTOTYPES		3.706	1.578	0.891
Articles:		0	0	0
Description: This activity conducts experiments and prototypes aimed at determining the feasibility and applicability of proposed standards or technical approaches to Navy M&S, and investigate Service-unique requirements for standards or guidance. Individual efforts focus on developing or evaluating approaches to optimize training, assessments and acquisition functional/mission objectives through more efficient development and use of M&S. This activity develops methodologies and standards that will result in model and data reusability and interoperability through the formulation of a technical framework. These standards support the full range of architecture and engineering design requirements across the Navy. This activity also supports Fleet exercises and experiments through the application of distributed simulations across a wide variety of warfighting and supporting communities. Specifically, it develops and integrates appropriate M&S into Fleet Synthetic Training (FST), and develops simulation efforts to test and evolve the standards for models, interfaces, and data. It supports development of tools necessary to enable the seamless access and use of operationally relevant M&S products to support Navy training, warfare assessments and acquisition requirements.				
FY 2012 Accomplishments: - Established, documented, and demonstrated a draft Government-owned, non-proprietary open architecture M&S integration environment. - Established a draft architecture to enable virtual environments to rapidly integrate and improve M&S, including: rapid validation of requirements, DOTMLPF solutions, design alternatives, operational planning, training environments, medical preparations, and just about every use of M&S. - Conducted an Interoperability Initiative which developed a standard process to structure analytical data for improved tractability, interoperability, and reuse for the development of future models and simulations. - Developed the Common Software Package (CSP) as a piece of distributable, government off the shelf (GOTS) software that will streamline the development of distributed training simulations across the Navy training enterprise. CSP provides the necessary interface for models to quickly and readily integrate into the Navy Continuous Training Environment (NCTE), which is the Navy distributed training infrastructure. - Developed the Navy Test Harness suite, an openly distributable GOTS suite of tools that facilitates interoperability testing of Navy training simulation with the NCTE. This capability will reduce simulation integration time and increase the ability to				

UNCLASSIFIED

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013
rapidly establish training federations by allowing system developers to test new software releases across the full range of NCTE interoperability requirements in the laboratory vice waiting until the integration period to identify items for correction. FY 2013 Plans: - Develop extensions for a Government-owned, non-proprietary open architecture M&S integration environment to accommodate tactical hardware devices and specialized stand-alone models. - Establish a meta-data schema for a standard analytical data structure. - Develop, validate, and demonstrate standard interfaces and methodologies for virtual environments to rapidly integrate and improve M&S, including: rapid validation of requirements, DOTMLPF solutions, design alternatives, operational planning, training environments, and medical preparations. FY 2014 Plans: Continue FY13 efforts			
Accomplishments/Planned Programs Subtotals		8.072	5.908
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			
D. Acquisition Strategy			
This is a non-ACAT program. The focus of the Navy Modeling and Simulation (M&S) Office is to facilitate and enable the efficient use of M&S by minimizing duplication of M&S efforts and maximize the reuse of M&S and data.			
E. Performance Metrics			
This program supports ongoing efforts to define, develop and utilize M&S technologies, standards and techniques in DoN and Joint programs across a wide range of disciplines and technical arenas. As such, performance metrics are specific to individual projects initiated under this program element. Representative examples of performance criteria for M&S support include the following: VV&A of deployed M&S systems to support Fleet and Force missions and assessments; degree of composability and adaptability of system architectures employed in M&S systems; ability of M&S systems to replicate and permit recreation of force or system interactions that otherwise would be performed by more labor-intensive or expensive personnel, forces or elements; degree to which M&S frameworks would permit rapid integration and employment of analytic capabilities for the analysis and documentation of warfighter missions, weapons systems or Tactics, Techniques and Procedures (TT&P); and ability of a specific M&S technology or technique to meet the requirements specified in an individual project supported by this program.			

UNCLASSIFIED

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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
DoD Support	WR	SPAWAR:Charleston, SC	0.000	0.000		0.303	Jan 2013	0.312	Jan 2014	-		0.312	Continuing	Continuing	Continuing
NMSO Director	WR	SPAWAR:Charleston, SC	0.275	0.252	Jan 2012	0.253	Jan 2013	0.261	Jan 2014	-		0.261	0.000	1.041	
NMSO Data Archiving Effort	WR	NAVAIR:Pax River, MD	0.159	0.067	Feb 2012	0.069	Feb 2013	0.071	Feb 2014	-		0.071	0.000	0.366	
DREN Connectivity	WR	SPAWAR:Charleston, SC	0.008	0.007	Jan 2012	0.007	Jan 2013	0.007	Jan 2014	-		0.007	0.000	0.029	
M & S Data Lead	WR	SPAWAR:Charleston, SC	0.152	0.171	Jan 2012	0.027	Jan 2013	0.017	Jan 2014	-		0.017	0.000	0.367	
NMSIS Web Presence	WR	SPAWAR:Charleston, SC	0.120	0.116	Jan 2012	0.127	Jan 2013	0.131	Jan 2014	-		0.131	0.000	0.494	
VV&A Standards & Support	WR	SPAWAR:Charleston, SC	0.253	0.191	Mar 2012	0.300	Mar 2013	0.309	Apr 2014	-		0.309	0.000	1.053	
Plans & Policies	WR	SPAWAR:Charleston, SC	0.324	0.334	Feb 2012	0.350	Feb 2013	0.361	Feb 2014	-		0.361	0.000	1.369	
Data Assistant	WR	SPAWAR:Charleston, SC	0.123	0.157	Jan 2012	0.182	Jan 2013	0.188	Jan 2014	-		0.188	0.000	0.650	
DON Mission Level Gap Analysis	WR	NAVAIR:Pax River, MD	1.100	0.000		0.000		0.000		-		0.000	0.000	1.100	
M&S Interopeperability Initiative	WR	NAVAIR:Pax River, MD	0.950	0.000		0.000		0.000		-		0.000	0.000	0.950	
M&S Interopeperability Initiative	WR	SPAWAR:Charleston, SC	0.649	0.000		0.000		0.000		-		0.000	0.000	0.649	
Navy Training Test Harness	WR	NAWC TSD:Orlando, FL	0.375	0.000		0.000		0.000		-		0.000	0.000	0.375	
CSP for NTI	WR	NAWC TSD:Olando, FL	0.247	0.000		0.000		0.000		-		0.000	0.000	0.247	
Navy STORM	WR	NAWC:Pax River, MD	0.500	0.000		0.000		0.000		-		0.000	0.000	0.500	
USMC STORM	WR	MCCDC:Qunatico, VA	0.250	0.000		0.000		0.000		-		0.000	0.000	0.250	

UNCLASSIFIED

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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
Subtotal			5.485	1.295		1.618		1.657		0.000		1.657			
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
RDA POC	WR	SPAWAR:Charleston, SC	0.108	0.111	Jan 2012	0.114	Jan 2013	0.118	Jan 2014	-		0.118	0.000	0.451	
RDA IDS (#1&3)	WR	SPAWAR:Charleston, SC	0.180	0.452	Jan 2012	0.454	Jan 2013	0.468	Jan 2014	-		0.468	0.000	1.554	
Training IDS (#1)	WR	NAVAIR:Pax River, MD	0.162	0.267	Feb 2012	0.275	Feb 2013	0.283	Jan 2014	-		0.283	0.000	0.987	
Training IDS (#2)	WR	SPAWAR:Charleston, SC	0.000	0.000		0.247	Apr 2013	0.254	Apr 2014	-		0.254	0.000	0.501	
Analysis IDS (#1)	WR	SPAWAR:Charleston, SC	0.000	0.000		0.000		0.000		-		0.000	0.000	0.000	
Analysis IDS (#2)	WR	SPAWAR:Charleston, SC	0.058	0.000		0.000		0.000		-		0.000	0.000	0.058	
IDS Training and Coordination	WR	SPAWAR:Charleston, SC	0.015	0.029	Jan 2012	0.000		0.000		-		0.000	0.000	0.044	
USMC IDS	WR	MCCDC:Quantico, VA	0.138	0.075	Jan 2012	0.142	Jan 2013	0.146	Jan 2014	-		0.146	0.000	0.501	
MOVES	WR	NPS:Monterrey, CA	0.822	0.847	Feb 2012	0.872	Feb 2013	0.898	Feb 2014	-		0.898	0.000	3.439	
RDA M&S Forum	WR	NAVAIR:Pax River, MD	0.375	0.375	May 2012	0.375	May 2013	0.375	May 2014	-		0.375	0.000	1.500	
NMSO Technical Support	WR	NAVAIR:Pax River, MD	0.000	0.483	Jun 2012	0.000		0.000		-		0.000	0.000	0.483	
Simulated Shipboard FMVS	TBD	NWDC:Norfolk, VA	0.000	0.365	Aug 2012	0.000		0.000		-		0.000	0.000	0.365	
Need Item Text	C/BA	Not Specified:Not Specified	0.000	0.000		0.000		0.000		-		0.000	0.000	0.000	

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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
Subtotal			1.858	3.004		2.479		2.542		0.000		2.542	0.000	9.883	
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
Standard Interfaces for Virtual World	WR	NAVAIR:Pax River, MD	0.620	1.037	Feb 2012	0.310	Feb 2013	0.300	Feb 2014	-		0.300	0.000	2.267	
Architecture Management Integration Environment	WR	NAVAIR:Pax River, MD	0.000	0.860	Feb 2012	0.320	Feb 2013	0.000		-		0.000	0.000	1.180	
Semantic and Structural Metedata Schema	WR	NAVAIR:Pax River, MD	0.000	0.475	Mar 2012	0.000		0.000		-		0.000	0.000	0.475	
Semantic and Structural Metedata Schema	WR	SPAWAR:Charleston, SC	0.000	0.201	May 2012	0.000		0.000		-		0.000	0.000	0.201	
Tactical Operational Software Environment (TOSEE)	WR	NAVAIR:TSD, Orlando	0.000	0.350	Mar 2012	0.300	Mar 2013	0.300	Mar 2014	-		0.300	0.000	0.950	
Cross Cultural Competence in OPS Environment	WR	NAVAIR:TSD, Orlando	0.000	0.350	Feb 2012	0.275	Feb 2013	0.148	Feb 2014	-		0.148	0.000	0.773	
Framework for Assessing Cost and Technology (FACT)	WR	MCCDC:Quantico, VA	0.000	0.500	Mar 2012	0.000		0.000		-		0.000	0.000	0.500	
Intergrated Air/Missile Defense IAMD	WR	NAVAIR:Pax River, MD	0.000	0.000		0.300	Feb 2013	0.055	Feb 2014	-		0.055	0.000	0.355	
Measuring Immersion Training	WR	MCCDC:Quantico, VA	0.000	0.000		0.306	Feb 2013	0.114	Feb 2014	-		0.114	0.000	0.420	
Subtotal			0.620	3.773		1.811		0.917		0.000		0.917	0.000	7.121	

UNCLASSIFIED

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	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	7.963	8.072		5.908		5.116		0.000		5.116				

Remarks