Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Navy		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603261N: *Tactical Airborne Reconnaissance*	

COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	9.605	6.452	5.978	-	5.978	5.997	6.098	6.207	6.286	Continuing	Continuing
2467: *UAV Conops*	5.910	4.791	4.405	-	4.405	4.397	4.469	4.540	4.597	Continuing	Continuing
2910: *Joint Tech Center/System Integ Lab*	1.703	1.661	1.573	-	1.573	1.600	1.629	1.667	1.689	Continuing	Continuing
9999: *Congressional Adds*	1.992	-	-	-	-	-	-	-	-	0.000	1.992

A. Mission Description and Budget Item Justification

This program element funds efforts to develop Concept of Operations in support of the Navy's overall Unmanned Aircraft System (UAS) strategy integrating UASs into the Chief of Naval Operations Navy Vision of Sea Power 21 (Sea Shield, Sea Strike, Sea Basing, and FORCEnet). Also funds Navy's contribution supporting the Joint Technology Center/System Integration Laboratory providing experimentation for Unmanned Aerial Vehicle technology assessment, insertion, demonstration, transfer, as well as simulation and exercise support.

B. Program Change Summary ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	9.662	6.452	6.522	-	6.522
Current President's Budget	9.605	6.452	5.978	-	5.978
Total Adjustments	-0.057	-	-0.544	-	-0.544
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Program Adjustments	-	-	-0.493	-	-0.493
• Section 219 Reprogramming	-0.052	-	-	-	-
• Rate/Misc Adjustments	-	-	-0.051	-	-0.051
• Congressional General Reductions Adjustments	-0.005	-	-	-	-

Congressional Add Details ($ in Millions, and Includes General Reductions)	FY 2010	FY 2011
Project: 9999: *Congressional Adds*		
Congressional Add: *Precision Engagement Technologies for Unmanned Systems*	1.992	-

Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Navy	DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	**R-1 ITEM NOMENCLATURE** PE 0603261N: *Tactical Airborne Reconnaissance*

Congressional Add Details ($ in Millions, and Includes General Reductions)	FY 2010	FY 2011
Congressional Add Subtotals for Project: 9999	1.992	-
Congressional Add Totals for all Projects	1.992	-

Change Summary Explanation

Technical: Not applicable.

Schedule: Not applicable.

Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603261N: *Tactical Airborne Reconnaissance*	PROJECT 2467: *UAV Conops*	

COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
2467: *UAV Conops*	5.910	4.791	4.405	-	4.405	4.397	4.469	4.540	4.597	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

The Naval Unmanned Aircraft Systems (UAS) Strategy employs a family of UASs to perform tactical, persistent and - penetrating Intelligence, Surveillance, and Reconnaissance in support of Naval and Joint missions from forward bases/platforms and naval ships.

In support of the Navy's overall UAS strategy, this program develops Concept of Operations (CONOPS) that integrate UASs into the Chief of Naval Operations Navy Vision of Sea Power 21 (Sea Shield, Sea Strike, Sea Basing, and FORCEnet). By providing fleet input based on current operations with UASs in a simulated combat environment, this CONOPS development investment is the foundation of how the Carrier Strike Group and the Expeditionary Strike Group will operate a combined Manned and Unmanned Naval Air Force. This program establishes the common architecture, including Command & Control, for all unmanned systems to support and inform CONOPS development. This effort provides for a cross-program view of Naval Unmanned Systems and is the entry point for OSD and other services for commonality and interoperability. Specifically:

- Provides studies and demonstrations in support of the Naval UAS Family of Systems (FoS) CONOPS development.
- Horizontally integrates across the Naval UAS FoS for the Naval Aviation Enterprise through interoperability and common system solutions.
- Develops the Naval UAS FoS Architecture to support integration into the Naval Unmanned Systems Cross Functional Team.
- Provides Naval support for development of Standards across Department of Defense (DoD) UASs and North Atlantic Treaty Organization (NATO), emphasizing standardization and interoperability.
- Conducts CONOPS studies, demonstrations, and exercises for Vehicle Control, Targeting, and weapons, sensor, and payload employment.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
Title: Studies and Demonstrations	0.659	0.885	0.602
Articles:	0	0	0
Description: Studies and demonstrations to develop CONOPS for manned-unmanned integration of UAS and aircraft systems. Build a UAS simulation environment for Modeling and Simulation and a repository of common UAS components in representative battlespace architectures.			
FY 2010 Accomplishments: Built a UAS simulation environment for Modeling and Simulation and initiated a repository of common UAS components in representative battlespace architectures.			
FY 2011 Plans:			

Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603261N: *Tactical Airborne Reconnaissance*	PROJECT 2467: *UAV Conops*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
Continue development of the UAS simulation environment. ***FY 2012 Plans:*** Continue development of the UAS simulation environment.			
Title: Shipboard CONOPS ***Articles:*** ***Description:*** Conduct studies, demonstrations, and exercises for data relay, comm relay, targeting, vehicle control, and weapons, sensor, and payload employment. ***FY 2010 Accomplishments:*** Completed studies and demonstrations for common vehicle control, sensor and payload employment. ***FY 2011 Plans:*** Conduct studies, demonstrations, and exercises to validate the common Naval Unmanned Systems control system strategy (CCS) and Navy Interoperability profiles. ***FY 2012 Plans:*** Conduct studies, demonstrations, and exercises to validate the common Naval Unmanned Systems CCS and Navy Interoperability profiles.	1.310 0	0.500 0	0.500 0
Title: Engineering and Program Support ***Articles:*** ***Description:*** Provide government engineering support, program office travel, and contract support services for Naval Unmanned Systems Cross Functional Team, OSD UAS task force and other services on common UAS solutions. ***FY 2010 Accomplishments:*** Provided government engineering support, program office travel, and contract support services for OSD UAS task force and other services on common UAS solutions. ***FY 2011 Plans:*** Provide government engineering support, program office travel, and contract support services for OSD UAS task force and other services on common UAS solutions. ***FY 2012 Plans:***	0.875 0	0.943 0	0.915 0

Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603261N: *Tactical Airborne Reconnaissance*	PROJECT 2467: *UAV Conops*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
Provide government engineering support, program office travel, and contract support services for Naval Unmanned Systems Cross Functional Team, OSD UAS task force and other services on common UAS solutions.			
Title: NATO Standardization Agreements (STANAG) and Interoperability	1.158	1.163	1.161
Articles:	0	0	0
Description: Conduct CONOPS studies for interoperability and development of standards across Naval Unmanned Systems and NATO emphazing standardization and interoperability. Continue to develop Unmanned System Interoperability profiles and Navy implementation conventions for Naval UAS FoS Architecture. ***FY 2010 Accomplishments:*** Developed Navy inputs for Unmanned Systems Interoperability Profile and follow-on revisions. Unmanned Systems Interoperability Profile accepted into DoD Information Technology Standards and Profile Registry and standardized processes used by UAS programs. Supported NATO STANAG Interoperability revisions, configuration management and provided leadership for standards development and generation of STANAG products. ***FY 2011 Plans:*** Continue CONOPS studies for interoperability and development of standards across Naval Unmanned Systems and NATO emphazing standardization and interoperability. Continue to develop Unmanned System Interoperability profiles and Navy implementation conventions for Naval UAS FoS Architecture. ***FY 2012 Plans:*** Continue with ongoing FY11 efforts.			
Title: Architecture Support /Common Ground Station	1.908	1.300	1.227
Articles:	0	0	0
Description: Develop a Joint Service revision and configuration management of UAS interoperability profiles and Joint Common Ground Station Architecture and related government engineering support. ***FY 2010 Accomplishments:*** Supported the revision and configuration management of interoperability profiles and efforts to support development of a common ground station architecture. ***FY 2011 Plans:***			

Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603261N: *Tactical Airborne Reconnaissance*	PROJECT 2467: *UAV Conops*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
Support the revision and configuration management of UAS interoperability profiles and Joint Common Ground Station Architecture and related government engineering support. ***FY 2012 Plans:*** Continue with ongoing FY11 efforts.			
Accomplishments/Planned Programs Subtotals	5.910	4.791	4.405

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

The program office will leverage existing Government facilities (e.g., Joint Technology Center/System Integration Laboratory (JTC/SIL)) and Naval UAS Program of Record assets (as available) to develop and demonstrate Naval UAS CONOPS. Government engineering support will be used for Modeling and Simulation efforts.

E. Performance Metrics

UAS operations and interoperability for systems delivered to the warfighter are continually improved upon increasing the level of integration, standardization and effective employment in maritime battle space dominance.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603261N: *Tactical Airborne Reconnaissance*	PROJECT 2467: *UAV Conops*

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2011 Cost	FY 2011 Award Date	FY 2012 Base Cost	FY 2012 Base Award Date	FY 2012 OCO Cost	FY 2012 OCO Award Date	FY 2012 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Primary Hardware Development	SS/FP	AAI:Hunt Valley, MD	2.800	-		-		-		-	0.000	2.800	2.800
Ship Integration	C/CPFF	L-3 Titan:Marlton, NJ	6.230	0.782	Jan 2011	0.807	Jan 2012	-		0.807	0.000	7.819	7.819
Systems Engineering	WR	NAWCAD:Pax River, MD	2.042	0.290	Nov 2010	0.179	Dec 2011	-		0.179	Continuing	Continuing	Continuing
		Subtotal	11.072	1.072		0.986		-		0.986			

Remarks

Primary Hardware Development contract type is SS/FP.

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2011 Cost	FY 2011 Award Date	FY 2012 Base Cost	FY 2012 Base Award Date	FY 2012 OCO Cost	FY 2012 OCO Award Date	FY 2012 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Development Support	Various	Various:Various	12.932	0.433	Dec 2010	0.357	Jan 2012	-		0.357	Continuing	Continuing	Continuing
Software Development	MIPR	JTC/SIL:Redstone Arsenal, AL	4.158	1.300	Mar 2011	1.227	Mar 2012	-		1.227	Continuing	Continuing	Continuing
Studies & Analysis	WR	NAWCWD:China Lake, CA	2.085	0.351	Dec 2010	0.394	Dec 2011	-		0.394	Continuing	Continuing	Continuing
Studies & Analysis	WR	NAWCAD:Pax River, MD	2.578	0.403	Dec 2010	0.178	Dec 2011	-		0.178	Continuing	Continuing	Continuing
		Subtotal	21.753	2.487		2.156		-		2.156			

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2011 Cost	FY 2011 Award Date	FY 2012 Base Cost	FY 2012 Base Award Date	FY 2012 OCO Cost	FY 2012 OCO Award Date	FY 2012 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Interoperability	WR	NAWCWD:China Lake, CA	2.182	0.220	Dec 2010	0.225	Dec 2011	-		0.225	Continuing	Continuing	Continuing
		Subtotal	2.182	0.220		0.225		-		0.225			

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603261N: *Tactical Airborne Reconnaissance*	PROJECT 2467: *UAV Conops*

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2011 Cost	FY 2011 Award Date	FY 2012 Base Cost	FY 2012 Base Award Date	FY 2012 OCO Cost	FY 2012 OCO Award Date	FY 2012 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Government Engineering Support	Various	Various:Various	4.571	0.625	Dec 2010	0.437	Dec 2011	-		0.437	Continuing	Continuing	Continuing
Program Management Support	Various	Various:Various	2.093	0.367	Dec 2010	0.559	Dec 2011	-		0.559	Continuing	Continuing	Continuing
Travel	WR	NAVAIR HQ:Pax River, MD	0.399	0.020	Oct 2010	0.042	Nov 2011	-		0.042	Continuing	Continuing	Continuing
		Subtotal	7.063	1.012		1.038		-		1.038			

Remarks

Travel contract type is TO.

	Total Prior Years Cost	FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	42.070	4.791		4.405		-		4.405			

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2012 Navy		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	**R-1 ITEM NOMENCLATURE** PE 0603261N: *Tactical Airborne Reconnaissance*	**PROJECT** 2467: *UAV Conops*

Exhibit R-4A, RDT&E Schedule Details: PB 2012 Navy		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	**R-1 ITEM NOMENCLATURE** PE 0603261N: *Tactical Airborne Reconnaissance*	**PROJECT** 2467: *UAV Conops*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
UAV CONOPS				
Unmanned Aircraft System (UAS) Targeting: Unmanned Aircraft System (UAS) Targeting	1	2010	2	2011
Weapons and Payload Employment: Weapons and Payload Employment	1	2010	4	2011
Task and Manning Assessment: Task and Manning Assessment	1	2010	4	2011
Standards Based Interoperability: Standards Based Interoperability	1	2010	4	2016
UASs Family of Systems and Shipboard Interoperability: UASs Family of Systems and Shipboard Interoperability	1	2010	4	2016

Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603261N: *Tactical Airborne Reconnaissance*	PROJECT 2910: *Joint Tech Center/System Integ Lab*	

COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
2910: *Joint Tech Center/System Integ Lab*	1.703	1.661	1.573	-	1.573	1.600	1.629	1.667	1.689	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

Joint Technology Center/Systems Integration Laboratory (JTC/SIL) is a center of technical excellence to support Unmanned Aircraft Systems (UAS) programs within the services. The mission includes Service-specific and Joint Command, Control, Communications, Computers and Intelligence, Surveillance, and Reconnaissance (C4ISR) programs throughout Department of Defense (DoD). JTC/SIL provides a Government test bed for interoperability, rapid prototyping, technology insertion and transition, systems engineering, modeling/simulation, training and C4ISR optimization. The cornerstone of JTC/SIL's diverse tool set is the Multiple Unified Simulation Environment (MUSE), which is the DoD's simulation/training system of choice for many UAS and Intelligence Surveillance and Reconnaissance (ISR) systems, and to some degree, surrogate UAS ground stations, when actual UAS ground stations are unavailable.

The Services and Warfighting Commanders have a requirement for the capability to train with a system that provides a real-time simulation environment containing multiple intelligence systems that can be integrated with larger force-on-force simulations. The MUSE creates a realistic operational environment which supports the ability to assess military utility, architecture and Concept of Operations (CONOPS) development, and Tactics, Techniques, and Procedures (TTP) refinement, conduct emerging concepts experimentation, and optimize C4ISR within warfighting exercises and experiments. It is the preferred simulation system used by the Combat Commanders and Joint Services to support command and battle staff C4ISR training, there is no better alternative to satisfy those requirements.

The MUSE also creates a realistic operational environment that supports: an embedded training capability for multiple Program Managers, tools to minimize acquisition and life cycle cost and schedule impacts, the ability to conduct emerging concepts experimentation, future systems exploration, systems integration, and technology insertion, applications for Joint and Service-specific warfighting exercises and C4ISR optimization.

MUSE is currently in use within all services and most unified commands simulating Predator, Global Hawk (RQ-4), Extended Range Multi-Purpose, Hunter, and Shadow (RQ-7) UAS, national and commercial satellite collectors, P-3, Joint Surveillance Target Attack Radar, and the U-2. During warfighting exercises, the JTC/SIL integrates imagery simulations with associated C4ISR systems to support execution of critical imagery processes. For those assets normally not available for training, the JTC/SIL provides surrogate systems and interfaces. Distributed training environments, virtually linking participants from various locations worldwide, are routinely supported within the MUSE architecture. The MUSE is also used as a mission rehearsal tool for current, on-going military combat operations.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
Title: MUSE Development	0.831	0.779	0.777
Articles:	0	0	0

Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603261N: *Tactical Airborne Reconnaissance*	PROJECT 2910: *Joint Tech Center/System Integ Lab*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
Description: MUSE creates a realistic operational environment which supports the ability to assess military utility, architecture and CONOPS development, TTP refinement, conduct emerging concepts experimentation, and C4ISR optimization within warfighting exercises and experiments. ***FY 2010 Accomplishments:*** Developed multi-echelon MUSE UAS and manned ISR integrated training environments that incorporate command and staff and initial qualification and proficiency trainers. Maintained MUSE simulation capability to support major exercises and demonstrations, completed integration of Tactical Exploitation of National Capabilities simulation into a PC-based MUSE, continued development of Laser Designator, Laser Range finding, Autotrack, Weaponization, enhanced Synthetic Aperture Radar, and Ground Moving Target Indicator capability, upgraded National Space Assets enhancements, Command, Control, Communications, Computers and Intelligence enhancements, and enhancements to the Vignette Planning and Rehearsal Software. ***FY 2011 Plans:*** Continues those efforts ongoing but not yet completed from FY10. ***FY 2012 Plans:*** Continues those efforts ongoing but not yet completed from FY11.			
Title: Engineering and Maintenance ***Articles:*** ***Description:*** Maintenance, Licenses and Equipment Purchases to include the day-to-day maintenance of laboratory equipment, license maintenance and license renewals from vendors for individual pieces of equipment, purchases of equipment to support the MUSE, and purchases to upgrade the MUSE capability. ***FY 2010 Accomplishments:*** Provided for the continued maintenance and required equipment purchases and upgrades to support the MUSE. ***FY 2011 Plans:*** Continues the maintenance and upkeep of the MUSE facility. ***FY 2012 Plans:*** Continues the maintenance and upkeep of the MUSE facility.	0.500 0	0.500 0	0.500 0
Title: Program Management ***Articles:***	0.372 0	0.382 0	0.296 0

Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603261N: *Tactical Airborne Reconnaissance*	PROJECT 2910: *Joint Tech Center/System Integ Lab*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
Description: Includes government management, contracts administration, cost accounting, configuration management, laboratory administrative support, MUSE architecture development, property management/accountability, and equipment procurement. ***FY 2010 Accomplishments:*** Provided for the continued Laboratory Sustainment with government management and overhead support services, architecture development and equipment purchases. ***FY 2011 Plans:*** Continues Laboratory Sustainment with government management and overhead support services, architecture development and equipment purchases. ***FY 2012 Plans:*** Continues Laboratory Sustainment with government management and overhead support services, architecture development and equipment purchases.			
Accomplishments/Planned Programs Subtotals	1.703	1.661	1.573

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

Established for the DoD family of UASs as a center of technical excellence for tactical, medium altitude endurance and future UASs to provide a cost-effective testbed for UAS technology assessment, insertion, demonstration, and transfer. JTC/SIL technical experts serve as facilitators of action for Program Executive Offices and UAS Program Managers as well as the respective users and prime contractors.

E. Performance Metrics

Improve the assessment of military utility, Tactics, Techniques and Procedures and C4ISR optimization through realistic training of command and battle staffs.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603261N: *Tactical Airborne Reconnaissance*	PROJECT 2910: *Joint Tech Center/System Integ Lab*	

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2011 Cost	FY 2011 Award Date	FY 2012 Base Cost	FY 2012 Base Award Date	FY 2012 OCO Cost	FY 2012 OCO Award Date	FY 2012 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Software Development	MIPR	JTC/SIL:Redstone Arsenal, AL	1.343	1.279	Mar 2011	1.277	Mar 2012	-		1.277	Continuing	Continuing	Continuing
		Subtotal	1.343	1.279		1.277		-		1.277			

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2011 Cost	FY 2011 Award Date	FY 2012 Base Cost	FY 2012 Base Award Date	FY 2012 OCO Cost	FY 2012 OCO Award Date	FY 2012 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Government Engineering Support	MIPR	JTC/SIL:Redstone Arsenal, AL	0.360	0.382	Nov 2010	0.296	Dec 2011	-		0.296	Continuing	Continuing	Continuing
		Subtotal	0.360	0.382		0.296		-		0.296			

	Total Prior Years Cost	FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	1.703	1.661		1.573		-		1.573			

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2012 Navy		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	**R-1 ITEM NOMENCLATURE** PE 0603261N: *Tactical Airborne Reconnaissance*	**PROJECT** 2910: *Joint Tech Center/System Integ Lab*

Exhibit R-4A, RDT&E Schedule Details: PB 2012 Navy		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	**R-1 ITEM NOMENCLATURE** PE 0603261N: *Tactical Airborne Reconnaissance*	**PROJECT** 2910: *Joint Tech Center/System Integ Lab*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Joint Tech Center/System Integ Lab				
Multiple Unified Simulation Environment Support to Unmanned Aircraft System Developers:	1	2010	4	2016

Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603261N: *Tactical Airborne Reconnaissance*	PROJECT 9999: *Congressional Adds*	

COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
9999: *Congressional Adds*	1.992	-	-	-	-	-	-	-	-	0.000	1.992
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

Congressional Add. Support development of the Precision Engagement Technologies Required for Unmanned Systems (PETRUS). The intent of PETRUS is to develop and implement the technologies required to compress the timeline associated with Finding, Fixing, Tracking, Targeting, Engaging and Assessing targets of interest.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011
Congressional Add: Precision Engagement Technologies for Unmanned Systems	1.992	-
FY 2010 Accomplishments: Develop, integrate, and demonstrate the necessary enabling technologies that will permit compression of the find and fix timeline. These technologies include: georegistration (high fidelity coordinates), sensor advancement, target tracking and targeting algorithms, system miniaturization and micro-munitions integration.		
Congressional Adds Subtotals	1.992	-

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

Not required for Congressional Adds.

E. Performance Metrics

Not required for Congressional Adds.