

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Navy										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)					R-1 ITEM NOMENCLATURE PE 0604404N: (U)Unman Carrier Launch A/B Surv & Strk(UCLASS)Sys							
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	0.000	71.182	122.481	146.683	-	146.683	522.497	652.344	622.527	619.412	Continuing	Continuing
3278: UCLASS Development	0.000	71.182	122.481	146.683	-	146.683	522.497	652.344	622.527	619.412	Continuing	Continuing
MDAP/MAIS Code(s): P462												
[#] 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												
The Unmanned Carrier-Launched Airborne Surveillance and Strike (UCLASS) system will enhance carrier capability and versatility for the Joint Forces Commander through integration of a persistent and mission flexible unmanned aircraft into the Carrier Air Wing. The UCLASS Initial Capabilities Document (ICD) highlights the need for a persistent, survivable carrier-based Intelligence, Surveillance, and Reconnaissance (ISR) and precision strike asset. The UCLASS ICD was approved by the Joint Requirements Oversight Council (JROC) in April 2011. The JROC approved the UCLASS ICD on 9 Jun 11 via JROCM 087-11. JROCMs 086-12 and 196-12 affirmed the urgency for an affordable, adaptable platform that supports missions ranging from permissive counter-terrorism operations, to missions in low-end contested environments, to providing enabling capabilities for high-end denied operations, as well as supporting organic Naval missions.												
B. Program Change Summary (\$ in Millions)				FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total				
Previous President's Budget				75.700	122.481	144.134	-	144.134				
Current President's Budget				71.182	122.481	146.683	-	146.683				
Total Adjustments				-4.518	0.000	2.549	-	2.549				
• Congressional General Reductions				-	-							
• Congressional Directed Reductions				-	-							
• Congressional Rescissions				-	-							
• Congressional Adds				-	-							
• Congressional Directed Transfers				-	-							
• Reprogrammings				-3.013	0.000							
• SBIR/STTR Transfer				-1.505	0.000							
• Program Adjustments				0.000	0.000	-144.134	-	-144.134				
• Rate/Misc Adjustments				0.000	0.000	146.683	-	146.683				
Change Summary Explanation												
Schedule: As a result of adjustments to the program's acquisition strategy, the program's plan was adjusted, moving Milestone-A and contract award.												
Technical: Not Applicable.												

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APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)					R-1 ITEM NOMENCLATURE PE 0604404N: (U)Unman Carrier Launch A/ B Surv & Strk(UCLASS)Sys				PROJECT 3278: UCLASS Development			
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
3278: UCLASS Development	0.000	71.182	122.481	146.683	-	146.683	522.497	652.344	622.527	619.412	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

The Unmanned Carrier-Launched Airborne Surveillance and Strike (UCLASS) system will enhance carrier capability and versatility for the Joint Forces Commander through integration of a persistent and mission flexible unmanned aircraft into the Carrier Air Wing (CVW). The UCLASS Initial Capabilities Document (ICD) highlights the need for a persistent, survivable carrier-based Intelligence, Surveillance, and Reconnaissance (ISR) and precision strike asset. The UCLASS ICD was approved by the Joint Requirements Oversight Council (JROC) in April 2011. The JROC approved the UCLASS ICD on 9 Jun 11 via JROCM 087-11. JROCMs 086-12 and 196-12 affirmed the urgency for an affordable, adaptable platform that supports missions ranging from permissive counter-terrorism operations, to missions in low-end contested environments, to providing enabling capabilities for high-end denied operations, as well as supporting organic Naval missions.

The UCLASS system will provide persistent ISR with precision strike support in a range of missions including irregular warfare and major combatant operation environments. UCLASS will be a major step forward in achieving integration of manned and unmanned systems within the CVW and will contribute to increasing sea-based capacity across the spectrum of maritime and littoral missions. UCLASS will allow a CVW to provide continuous 24/7 ISR/strike capability. The UCLASS system will be sustainable onboard an aircraft carrier, as well as ashore, and will be designed to minimize increases in the logistics footprint of the current CVW.

The UCLASS system will have the ability to pass command and control information along with sensor data to other aircraft, naval vessels, and ground forces. Sensor data will be transmitted, in either raw or processed forms, at appropriate classification levels, to exploitation nodes afloat and ashore (e.g. Distributed Common Ground/ Surface System - Navy).

The UCLASS system will achieve these capabilities through the use of a carrier-suitable, semi-autonomous, unmanned Air Segment; a Control System and Connectivity Segment and; a Carrier Segment. The UCLASS system will interface with existing ship and land-based command and control systems, including ISR Tasking, Processing, Exploitation, and Dissemination systems.

The scope of the program includes, but is not limited to, system level requirements identification, allocation of requirements to segments and components, design, development, integration, fabrication, test, training, and support activities to provide the UCLASS capabilities. To accomplish these capabilities the UCLASS program will (as required) transition technologies from other programs and adapt them into the carrier environment. The UCLASS system will deliver the necessary air vehicles, command, control, connectivity, shipboard and land-based launch and recovery control systems, associated support systems, interfaces, and upgrades to other Navy systems (as required) to meet the required capabilities.

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
Title: Product Development		59.256	101.921	125.712
Articles:		0	0	0
Description: Product Development efforts include, but are not limited to, science and technology investments, design, development, integration, fabrication, test, and training for all Unmanned Carrier-Launched Airborne Surveillance and Strike (UCLASS) capabilities across system segments.				
FY 2012 Accomplishments: Initiated design and development of the UCLASS System. Provided government oversight of all UCLASS contract activities. Initiated Control System and Connectivity (CS&C) Segment interface and integration activities. Initiated CVN Segment interface and integration activities.				
FY 2013 Plans: Continue UCLASS system cross-segment design trades and industry analyses, and efforts to implement an open system architecture across all UCLASS segments. Initiate Air Segment design and integration activities. Continue CS&C hardware/software development. Deliver CS&C software development tools and documentation for design and integration activities. Establish Air Segment, CS&C Segment, and Carrier Segment interfaces, while establishing landing system and data link interfaces. Complete technology maturation assessments and transitions, and mature, as required, technologies into the UCLASS system. Develop ship change requests and Engineering Change Proposals (ECP) documentation in accordance with Naval Sea Systems Command (NAVSEA), Space and Naval Warfare Systems Command (SPAWAR), and Program Executive Office, Aircraft Carriers (PEO(CARRIERS)) processes. Execute UCLASS ship integration activities with NAVSEA, SPAWAR, and PEO(CARRIERS). Complete shipboard network ECP planning. Establish system integration laboratories in support of government-led open system architecture and program activities.				
FY 2014 Plans: Continue UCLASS efforts to implement an open system architecture across all UCLASS segments. Continue Air Segment design and integration activities. Continue CS&C hardware/software development. Deliver CS&C software development tools and documentation for design and integration activities. Continue Air Segment, CS&C Segment, and Carrier Segment interface activities, to include integrating landing system and data links. Begin implementation of ship change requests and Engineering Change Proposals (ECP), and ship integration activities in accordance with Naval Sea Systems Command (NAVSEA), Space and Naval Warfare Systems Command (SPAWAR), and Program Executive Office, Aircraft Carriers (PEO(CARRIERS)) processes. Continue stand up of system integration laboratories and test facilities in support of government-led program activities, including implementation of open system architectures.				
Title: Management		11.926	18.360	18.727
Articles:		0	0	0

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APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>System Development & Demonstration (SDD)</i>		R-1 ITEM NOMENCLATURE PE 0604404N: <i>(U)Unman Carrier Launch A/ B Surv & Strk(UCLASS)Sys</i>	PROJECT 3278: <i>UCLASS Development</i>
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013
Description: Efforts include program, engineering, test, and logistics management. FY 2012 Accomplishments: Conducted milestone preparation activities. Oversaw UCLASS System interface and integration activities. Initiated logistics management tasks including facilities, training, and manpower. Established and maintained security and program office environments. FY 2013 Plans: Oversee, coordinate, and manage UCLASS acquisition, system interface and integration activities. Continue logistics management tasks, including facilities, training, and manpower. Maintain security and program office environments. Conduct UCLASS system engineering reviews. Provide oversight of UCLASS contract activities. Develop requests for proposals and conduct source selections, as necessary, to support UCLASS program activities. Oversee award of Air Segment contracts. FY 2014 Plans: Continue oversight, coordination, and management of UCLASS acquisition, system interface and integration activities. Provide oversight of UCLASS contract activities. Continue logistics management tasks. Continue to maintain security and program office environments.			
Title: Test and Evaluation Articles: FY 2013 Plans: Initiate test plan for surrogates. Establish requirements for test facilities and ranges. Support engineering events and program management activities. FY 2014 Plans: Continue test plans for surrogates, refine test facility, range and lab test requirements and support engineering events and program management activities.		0.000	2.200 0
		2.244 0	
Accomplishments/Planned Programs Subtotals		71.182	122.481
C. Other Program Funding Summary (\$ in Millions)		146.683	
N/A Remarks			

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<u>D. Acquisition Strategy</u> The Government will act as the system integrator across all Unmanned Carrier-Launched Airborne Surveillance and Strike Segments. The Government will develop and award contracts as required to support program activities, including sole source Firm Fixed Price contracts to mature designs to the Program Design Review level of maturity, followed by a down-select to one prime contractor. The Government's acquisition strategy will be approved by Milestone-A. Acquisition and contracting strategies comply with current statutes, regulations, and instructions.		
<u>E. Performance Metrics</u> Meet Navy operational requirements as defined in requirements documents.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY						R-1 ITEM NOMENCLATURE					PROJECT				
1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)						PE 0604404N: (U)Unman Carrier Launch A/ B Surv & Strk(UCLASS)Sys					3278: UCLASS Development				
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
Primary Hardware Development (Risk Reduction)	Various	Various:Various	0.000	2.244	Aug 2012	17.288	May 2013	0.000		-		0.000	0.000	19.532	19.532
Primary Hardware Development (L/R Datalink)	Various	Various:Various	0.000	25.080	Jul 2012	0.000		0.000		-		0.000	0.000	25.080	25.080
Primary Hardware Development (Air Segment)	SS/FFP	TBD1:TBD	0.000	0.000		3.750	Aug 2013	12.517	Dec 2013	-		12.517	Continuing	Continuing	Continuing
Primary Hardware Development (Air Segment)	SS/FFP	TBD2:TBD	0.000	0.000		3.750	Aug 2013	12.517	Dec 2013	-		12.517	Continuing	Continuing	Continuing
Primary Hardware Development (Air Segment)	SS/FFP	TBD3:TBD	0.000	0.000		3.750	Aug 2013	12.517	Dec 2013	-		12.517	Continuing	Continuing	Continuing
Primary Hardware Development (Air Segment)	SS/FFP	TBD4:TBD	0.000	0.000		3.750	Aug 2013	12.517	Dec 2013	-		12.517	Continuing	Continuing	Continuing
Systems Engineering	Various	Various:Various	0.000	0.239	Feb 2012	5.011	Dec 2012	5.141	Dec 2013	-		5.141	Continuing	Continuing	Continuing
Systems Engineering	WR	NAWCAD:Patuxent River, MD	0.000	4.524	Jan 2012	6.989	Dec 2012	7.099	Dec 2013	-		7.099	Continuing	Continuing	Continuing
CS&C Segment	WR	NAWCAD:Patuxent River, MD	0.000	4.766	Jan 2012	11.556	Dec 2012	11.792	Dec 2013	-		11.792	Continuing	Continuing	Continuing
CS&C Segment	Various	Various:Various	0.000	2.155	Feb 2012	5.180	Dec 2012	5.286	Dec 2013	-		5.286	Continuing	Continuing	Continuing
CS&C Segment	Various	NSMA:Arlington, VA	0.000	4.726	Apr 2012	11.158	Dec 2012	11.386	Dec 2013	-		11.386	Continuing	Continuing	Continuing
CS&C Segment	WR	NAWCWD:China Lake, CA	0.000	4.994	Feb 2012	11.958	Dec 2012	12.202	Dec 2013	-		12.202	Continuing	Continuing	Continuing
Carrier Segment (Landing System)	Various	Various:Various	0.000	0.000		3.083	Dec 2012	5.952	Dec 2013	-		5.952	Continuing	Continuing	Continuing
Carrier Segment (Ship Integration)	Various	Various:Various	0.000	2.750	Feb 2012	4.409	Dec 2012	5.056	Dec 2013	-		5.056	Continuing	Continuing	Continuing
Carrier Segment (Ship Integration)	WR	NAWCAD:Patuxent River, MD	0.000	7.778	Jan 2012	10.289	Dec 2012	11.730	Dec 2013	-		11.730	Continuing	Continuing	Continuing

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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			0.000	59.256		101.921		125.712		0.000		125.712			
Remarks Launch and Recovery Datalink (L/R Datalink) Control System and Connectivity (CS&C) Segment Navy Systems Management Activity (NSMA)															
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
Test and Evaluation	Various	Various:Various	0.000	0.000		2.200	Dec 2012	2.244	Dec 2013	-		2.244	Continuing	Continuing	Continuing
Subtotal			0.000	0.000		2.200		2.244		0.000		2.244			
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
Management	Various	Various:Various	0.000	1.345	Feb 2012	1.836	Dec 2012	1.872	Dec 2013	-		1.872	Continuing	Continuing	Continuing
Management	WR	NAWCAD:Patuxent River, MD	0.000	6.000	Feb 2012	8.629	Dec 2012	8.802	Dec 2013	-		8.802	Continuing	Continuing	Continuing
Management	Various	NSMA:Arlington, VA	0.000	1.887	Feb 2012	5.508	Dec 2012	5.618	Dec 2013	-		5.618	Continuing	Continuing	Continuing
Management	WR	NAWCWD:China Lake, CA	0.000	2.694	Feb 2012	2.387	Dec 2012	2.435	Dec 2013	-		2.435	Continuing	Continuing	Continuing
Subtotal			0.000	11.926		18.360		18.727		0.000		18.727			
			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	71.182		122.481		146.683		0.000		146.683			
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Navy

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

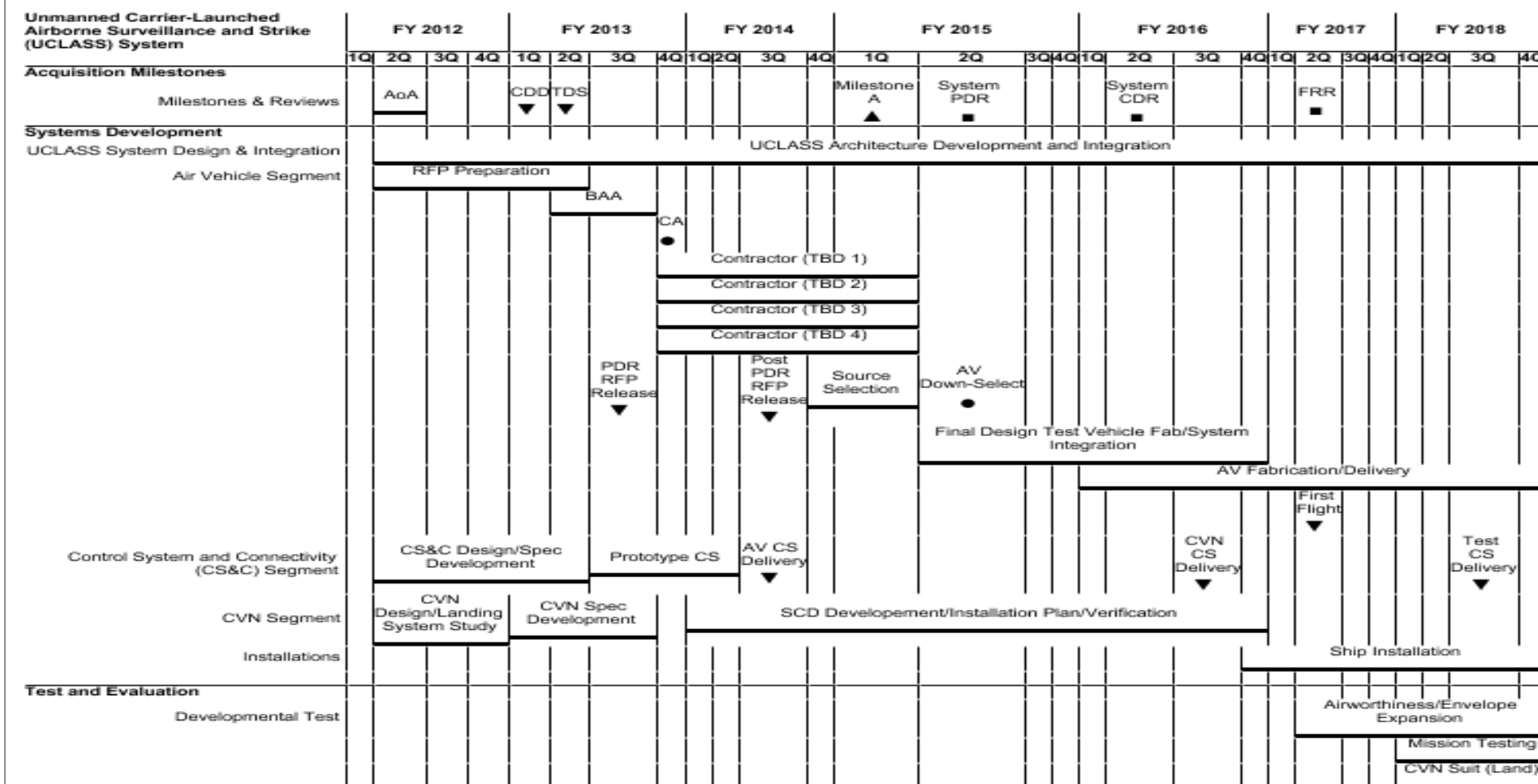
1319: Research, Development, Test & Evaluation, Navy
BA 5: System Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0604404N: (U)Unman Carrier Launch A/
B Surv & Strk(UCLASS)Sys

PROJECT

3278: UCLASS Development



2014PB - 0604404N - 3278

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Navy		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)	PE 0604404N: (U)Unman Carrier Launch A/ B Surv & Strk(UCLASS)Sys	3278: UCLASS Development

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy
BA 5: System Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0604404N: (U)Unman Carrier Launch A/
B Surv & Strk(UCLASS)Sys

PROJECT

3278: UCLASS Development

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Unmanned Carrier-Launched Airborne Surveillance and Strike (UCLASS) System				
Acquisition Milestones: Milestones & Reviews: Milestone A	1	2015	1	2015
Acquisition Milestones: Milestones & Reviews: UCLASS Analysis of Alternatives (AoA)	2	2012	2	2012
Acquisition Milestones: Milestones & Reviews: System Program Design Review (PDR)	2	2015	2	2015
Acquisition Milestones: Milestones & Reviews: System Concept Design Review (CDR)	2	2016	2	2016
Acquisition Milestones: Milestones & Reviews: Flight Readiness Review (FRR)	2	2017	2	2017
Acquisition Milestones: Milestones & Reviews: Capability Development Document (CDD)	1	2013	1	2013
Acquisition Milestones: Milestones & Reviews: Technology Development Strategy (TDS)	2	2013	2	2013
Systems Development: UCLASS System Design & Integration: UCLASS Architecture Development and Integration	2	2012	4	2018
Systems Development: Air Vehicle Segment: PDR Request For Proposal (RFP) Preparation	2	2012	2	2013
Systems Development: Air Vehicle Segment: Broad Agency Announcement (BAA)	2	2013	3	2013
Systems Development: Air Vehicle Contract Award	4	2013	4	2013
Systems Development: Contractor (TBD 1)	4	2013	1	2015
Systems Development: Contractor (TBD 2)	4	2013	1	2015
Systems Development: Contractor (TBD 3)	4	2013	1	2015
Systems Development: Contractor (TBD 4)	4	2013	1	2015
Systems Development: Source Selection Activities	4	2014	1	2015
Systems Development: PDR RFP Air Segment Contract Award	3	2013	3	2013
Systems Development: Post-PDR RFP Release for Air Segment Contract Award	3	2014	3	2014

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy			DATE: April 2013	
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		Start		End
Events by Sub Project		Quarter	Year	Quarter
				Year
Systems Development: Air Vehicle (AV) Contractor Down-Select		2	2015	2
Systems Development: Final Design Test Vehicle Fab/System Integration		2	2015	4
Systems Development: Air Vehicle (AV) Fabrication & Delivery		1	2016	4
Systems Development: First Flight		2	2017	2
Systems Development: Control System and Connectivity (CS&C) Segment: CS&C Segment Design/Spec Development		2	2012	2
Systems Development: Control System and Connectivity (CS&C) Segment: Prototype Control Station (CS)		3	2013	2
Systems Development: Control System and Connectivity (CS&C) Segment: AV CS Delivery		3	2014	3
Systems Development: Control System and Connectivity (CS&C) Segment: Land/Carrier Vessel Nuclear (CVN) CS Delivery		3	2016	3
Systems Development: Control System and Connectivity (CS&C) Segment: EOC CS Delivery		3	2018	3
Systems Development: CVN Segment: CVN Segment Design/Landing System Study		2	2012	4
Systems Development: CVN Segment: CVN Spec Development		1	2013	3
Systems Development: CVN Segment: Ship Change Document (SCD) Development/Installation Plan/Verification		1	2014	4
Systems Development: Installations: Ship Installation		4	2016	4
Test and Evaluation: Developmental Test: Airworthiness/Envelope Expansion		2	2017	4
Test and Evaluation: Developmental Test: Mission Testing		1	2018	4
Test and Evaluation: Developmental Test: CVN Suit (Land)		1	2018	4