

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy										Date: March 2014		
Appropriation/Budget Activity 1319: Research, Development, Test & Evaluation, Navy / BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0604404N / (U)Unman Carrier Launch A/B Surv & Strk(UCLASS)Sys							
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	45.515	99.479	121.673	403.017	-	403.017	668.749	665.180	663.884	269.860	Continuing	Continuing
3278: UCLASS Development	45.515	99.479	121.673	403.017	-	403.017	668.749	665.180	663.884	269.860	Continuing	Continuing
MDAP/MAIS Code: P462												
# The FY 2015 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 Joint Requirements Oversight Council (JROC) endorsed the UCLASS ICD in April 2011 and formally approved it on 9 Jun 11 via JROCM 087-11. In support of affordability and adaptability directives, JROCMs 086-12 and 196-12 redefined the scope of JROCM 087-11 and affirmed the urgency for a 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 Department continues to assess the program and has issued JROCM 009-14, directing UCLASS Early Operational Capability (EOC) delivery within four to five years from Air Segment contract award. The Service approved a draft Capability Development Document (CDD) on 5 Apr 13.												
B. Program Change Summary (\$ in Millions)				FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total				
Previous President's Budget				122.481	146.683	522.497	-	522.497				
Current President's Budget				99.479	121.673	403.017	-	403.017				
Total Adjustments				-23.002	-25.010	-119.480	-	-119.480				
• Congressional General Reductions				-	-0.010							
• Congressional Directed Reductions				-	-25.000							
• Congressional Rescissions				-	-							
• Congressional Adds				-	-							
• Congressional Directed Transfers				-	-							
• Reprogrammings				-	-							
• SBIR/STTR Transfer				-2.868	-							
• Program Adjustments				-	-	-0.480	-	-0.480				
• Rate/Misc Adjustments				0.001	-	-119.000	-	-119.000				
• Congressional General Reductions				-0.135	-	-	-	-				
Adjustments												
• Congressional Directed Reductions				-20.000	-	-	-	-				
Adjustments												

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy I BA 5: System Development & Demonstration (SDD)</i>		R-1 Program Element (Number/Name) PE 0604404N I (U) <i>Unman Carrier Launch A/B Surv & Strk(UCLASS)Sys</i>
Change Summary Explanation Schedule: As a result of adjustments to the program's acquisition strategy, the program's plan was adjusted as follows: Acquisition Milestones - Milestone A moved from 1QTR15 to 3QTR15 System Preliminary Design Review (PDR) moved from 2QTR15 to 1QTR16. System Concept Design Review (CDR) moved from 2QTR16 to 1QTR17 System Flight Readiness Review (FRR) moved from 2QTR17 to 2QTR18 Systems Development - Preliminary Design Review contracts with Contractor (TBD 1), Contractor (TBD 2), Contractor (TBD 3), and Contractor (TBD 4) were renamed to Boeing, General Atomics, Lockheed Martin, and Northrop Grumman with start dates of 4QTR13 and end dates of 3QTR14 Final Design, Test Vehicle Fab/System Integration and AV Fabrication/Delivery were renamed to Final Air Vehicle Design, Fab, Sub-System Testing with a start date of 3QTR15 and end date of 3QTR18 Carrier (CVN) Control Station (CS) Delivery moved from 3QTR16 to 1QTR19 First Flight moved from 2QTR17 to 3QTR18 Test and Evaluation - Airworthiness/Envelope Expansion and Mission Testing were renamed to Airworthiness/Envelope Expansion/Mission Testing with a start date of 3QTR18 and an end date of 4QTR19 The start date of CVN Suit (Land) moved from 1QTR18 to 3QTR18		

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy										Date: March 2014		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0604404N / (U)Unman Carrier Launch A/B Surv & Strk(UCLASS)Sys				Project (Number/Name) 3278 / UCLASS Development			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
3278: UCLASS Development	45.515	99.479	121.673	403.017	-	403.017	668.749	665.180	663.884	269.860	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

Note

FY15 contains funding for Support, including efforts to identify fleet introduction and squadron manning requirements and associated training.

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 Joint Requirements Oversight Council (JROC) endorsed the UCLASS ICD in April 2011 and formally approved it on 9 Jun 11 via JROCM 087-11. In support of affordability and adaptability directives, JROCMs 086-12 and 196-12 redefined the scope of JROCM 087-11 and affirmed the urgency for a 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 Department continues to assess the program and has issued JROCM 009-14, directing UCLASS Early Operational Capability (EOC) delivery within four to five years from Air Segment contract award. The Service approved a draft Capability Development Document (CDD) on 5 Apr 13.

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. These segments will be overseen by the Government Lead System Integrator (LSI), providing government-led system of systems integration for the UCLASS Program. The LSI will coordinate across all segments and with external stakeholders to ensure program activities are synchronized. The UCLASS system will interface with existing ship and land-based command and control systems, including ISR Tasking, Processing, Exploitation, and Dissemination systems.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014		
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604404N / (U)Unman Carrier Launch A/B Surv & Strk(UCLASS)Sys	Project (Number/Name) 3278 / UCLASS Development		
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.				
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014	FY 2015
Title: Air Segment Product Development		37.594	55.072	259.233
Articles:		-	-	-
Description: Air Segment Product Development efforts include, but are not limited to, design, development, integration, fabrication, test and training to deliver a carrier-suitable, semi-autonomous, unmanned vehicle capable of sustained Intelligence, Surveillance, Reconnaissance, & Targeting (ISR&T) operations and strike capability. A prime contractor, selected following a full and open competition, will deliver the Air Segment products.				
FY 2013 Accomplishments: Initiated Air Segment design and integration activities. Established Air Segment interfaces across the UCLASS segments. Completed Broad Agency Announcement contracts. Awarded limited-source Preliminary Design Review (PDR) contracts.				
FY 2014 Plans: Continue Air Segment design and integration activities. Continue Air Segment interface activities. Conclude PDR contracts. Release Request for Proposal for full and open competition of the Air Vehicle contract and begin source selection activities.				
FY 2015 Plans: Award Air Segment contract and commence Air Vehicle design, fabrication and sub-system testing, to include acquisition of long-lead parts and finalization of sub-contractor agreements.				
Title: Control System & Connectivity (CS&C) Segment Product Development		34.741	38.798	90.680
Articles:		-	-	-
Description: CS&C Segment Product Development is a Government-led effort which includes, but is not limited to, the hardware, software and networks needed to establish interfaces and upgrades to existing ship and land-based command and control systems. Specifically, Intelligence, Surveillance, Reconnaissance and Targeting (ISR&T), Tasking, Processing, Exploitation, and Dissemination (TPED) systems will be utilized.				
FY 2013 Accomplishments:				

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014		
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604404N / (U)Unman Carrier Launch A/B Surv & Strk(UCLASS)Sys	Project (Number/Name) 3278 / UCLASS Development		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014	FY 2015
Continued CS&C integration activities. Continued CS&C hardware/software development. Delivered CS&C software development tools and documentation for design and integration activities. Established CS&C Segment interfaces across the UCLASS segments, while establishing landing system and data link interfaces. FY 2014 Plans: Continue CS&C Segment integration activities. Continue CS&C hardware/software development. Deliver CS&C software development tools and documentation for design and integration activities. FY 2015 Plans: Continue CS&C hardware/software development and integration. Fabricate and deliver prototype control station to UCLASS air segment vendor for system integration. Initiate development and fabrication of prototype Common Display Station (CDS) based control stations, to include the test-transportable control station and test-ashore control station, in order to meet timelines required to support integration and flight test. Complete development of CS&C software development tools and documentation for land-based and CVN-based control stations. Conduct control station requirements verification/validation activities in Government integration lab. Continue integration of Automated Digital Network System (ADNS) hardware/software components. Complete interface development to shipboard networks. Begin integration testing between control station with shipboard networks and data links.				
Title: Carrier (CVN) Segment Product Development Articles: Description: CVN Segment Product Development is a Government-led effort which includes, but is not limited to, upgrades to existing CVN infrastructure to support Unmanned Carrier-Launched Airborne Surveillance and Strike (UCLASS) capabilities. FY 2013 Accomplishments: Continued CVN Segment design and integration activities. Developed 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. Executed UCLASS ship integration activities with NAVSEA, SPAWAR, and PEO(CARRIERS). Completed shipboard network ECP planning. FY 2014 Plans: Continue CVN Segment design and integration activities. 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. FY 2015 Plans:		3.725 -	3.767 -	24.227 -

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014			
Appropriation/Budget Activity 1319 / 5		R-1 Program Element (Number/Name) PE 0604404N / (U)Unman Carrier Launch A/B Surv & Strk(UCLASS)Sys		Project (Number/Name) 3278 / UCLASS Development		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)				FY 2013	FY 2014	FY 2015
Continue engineering efforts in support of implementing ship change requests (SCDs) and Engineering Change Proposals (ECP) to modify CVNs for UCLASS hardware and software. Continue CVN ship integration activities and development of Concept of Operations in accordance with Naval Sea Systems Command (NAVSEA), Space and Naval Warfare Systems Command (SPAWAR), Program Executive Office, Aircraft Carriers (PEO(CARRIERS)) Commander Naval Air Forces (CNAF), and Operational Command Navy (OPNAV) processes. Begin development of UCLASS modifications to existing Program of Record shipboard systems needed to support the UCLASS capability to include required hardware for shipboard test and integration activities. Continue development of Navy Modernization Processes (NMP) supporting shipboard Configuration Management and Logistics.						
Title: Lead Systems Integrator (LSI) Product Development				12.210	12.096	11.993
Articles:				-	-	-
Description: The LSI task is a Government-led effort including, but not limited to, architecture development, interface definition, integration, system level test and evaluation, science and technology investments, roadmap refinement, and coordination of all Unmanned Carrier-Launched Airborne Surveillance and Strike (UCLASS) capabilities across system segments.						
FY 2013 Accomplishments:						
Continued UCLASS system cross-segment design trades and industry analyses, and efforts to implement an open system architecture across all UCLASS segments. Delivered segment developed tools and documentation for design and integration activities. Completed technology maturation assessments and transitions, and matured, as required, technologies into the UCLASS system. Established 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. Incorporate delivered software development tools and documentation for design and integration activities. Continue Air Segment, CS&C Segment, and Carrier Segment interface activities. Continue stand up of system integration laboratories and test facilities in support of government-led program activities, including implementation of open system architectures.						
FY 2015 Plans:						
Continue UCLASS efforts to implement an open system architecture across all UCLASS segments. Continue design and integration activities. Continue Air Segment, CS&C Segment, and Carrier Segment interface activities. 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				9.009	9.696	9.507
Articles:				-	-	-

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014		
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604404N / (U)Unman Carrier Launch A/B Surv & Strk(UCLASS)Sys	Project (Number/Name) 3278 / UCLASS Development		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014	FY 2015
<p>Description: Efforts include program, engineering, test, and logistics management.</p> <p>FY 2013 Accomplishments: Oversaw, coordinated, and managed UCLASS acquisition, system interface and integration activities. Continued logistics management tasks, including facilities, training, and manpower. Maintained security and program office environments. Conducted UCLASS system engineering reviews. Provided oversight of UCLASS contract activities. Developed requests for proposals, as necessary, to support UCLASS program activities. Oversaw award of Preliminary Design Review (PDR) contracts.</p> <p>FY 2014 Plans: Continue oversight, coordination, and management of UCLASS acquisition, system interface and integration activities. Provide oversight of UCLASS contract activities, including development of Air Segment Technology Development (TD) Phase Request for Proposal (RFP) and conduct source selection. Continue logistics management tasks. Continue to maintain security and program office environments.</p> <p>FY 2015 Plans: Continue oversight, coordination, and management of UCLASS acquisition, system interface and integration activities. Provide oversight of UCLASS contract activities, including execution of Air Segment TD Phase contract. Continue logistics management tasks. Continue to maintain security and program office environments. Conduct UCLASS System PDR to support key point decisions.</p>				
<p>Title: Test and Evaluation</p> <p>Articles:</p> <p>FY 2013 Accomplishments: Initiated test plan for surrogates. Established requirements for test facilities and ranges. Supported engineering events and program management activities.</p> <p>FY 2014 Plans: Continue test plans for surrogates, refine test facility, range and lab test requirements and support engineering events and program management activities.</p> <p>FY 2015 Plans: Continue test plans for surrogates, oversee implementation of test facility, range and lab test requirements and support engineering events and program management activities. Support test for Control System & Connectivity (CS&C) and Carrier (CVN) Segments.</p>		2.200 -	2.244 -	6.934 -
<p>Title: Support</p> <p>Articles:</p>		- -	- -	0.443 -

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014	
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604404N / (U)Unman Carrier Launch A/B Surv & Strk(UCLASS)Sys	Project (Number/Name) 3278 / UCLASS Development	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014
Description: Efforts include studies, analyses and training development support. FY 2013 Accomplishments: N/A FY 2014 Plans: N/A FY 2015 Plans: Initiate logistics supportability studies and analyses, modeling and simulation, and development of manpower and training assessments.			
Accomplishments/Planned Programs Subtotals		99.479	121.673
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			
D. Acquisition Strategy			
<p>The Government will act as the system integrator across all Unmanned Carrier-Launched Airborne Surveillance and Strike (UCLASS) segments, including Air Segment, CS&C Segment, and CVN Segment. The UCLASS Program will leverage existing Navy information dissemination and Department infrastructures, as the government-led system of systems integration is accomplished across all segments. The Government will manage the system level architecture and interfaces, and foster efficient data exchanges and integration. Specifically, the Control System & Connectivity Segment and Carrier (CVN) segments will be organically managed by the Government Lead System Integrator and will modify existing systems via the effected system's Engineering Change Proposal (ECP) and configuration management processes. These integration tasks include successful demonstration of integration with the CVN landing system, integration of control system, and integration with the Tasking, Collecting, Processing, Exploitation, Dissemination (TCPED) interfaces to include successful transmission of mission system data. The Government will develop and award contracts as required to support program activities, including limited source Firm Fixed Price contracts to mature designs to the Preliminary Design Review level of maturity, followed by a full and open competition to select one prime contractor. The Government's acquisition strategy was approved on 7 Jun 13. Acquisition and contracting strategies comply with current statutes, regulations, and instructions.</p>			
E. Performance Metrics			
Meet Navy operational requirements as defined in requirements documents.			

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Navy												Date: March 2014			
Appropriation/Budget Activity 1319 / 5						R-1 Program Element (Number/Name) PE 0604404N / (U)Unman Carrier Launch A/B Surv & Strk(UCLASS)Sys				Project (Number/Name) 3278 / UCLASS Development					
Product Development (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Air Segment (Primary Hardware Development)	SS/FFP	Boeing : St. Louis, MO	0.000	6.250	Aug 2013	8.750	Dec 2013	-		-		-	-	15.000	15.000
Air Segment (Primary Hardware Development)	SS/FFP	General Atomics : Poway, CA	0.000	6.250	Aug 2013	8.750	Dec 2013	-		-		-	-	15.000	15.000
Air Segment (Primary Hardware Development)	SS/FFP	Lockheed Martin : Palmdale, CA	0.000	6.250	Aug 2013	8.750	Dec 2013	-		-		-	-	15.000	15.000
Air Segment (Primary Hardware Development)	SS/FFP	Northrop Grumman : El Segundo, CA	0.000	6.250	Aug 2013	8.750	Dec 2013	-		-		-	-	15.000	15.000
Air Segment (Primary Hardware Development)	C/CPIF	TBD : TBD	0.000	-		-		238.050	Jun 2015	-		238.050	Continuing	Continuing	Continuing
Air Segment - Systems Engineering	WR	NAWCAD : Patuxent River, MD	1.796	12.383	Dec 2012	19.408	Dec 2013	20.453	Dec 2014	-		20.453	Continuing	Continuing	Continuing
Air Segment - Systems Engineering	Various	Various : Various	0.204	0.211	Dec 2012	0.664	Dec 2013	0.730	Dec 2014	-		0.730	Continuing	Continuing	Continuing
CS&C Segment	WR	NAWCAD : Patuxent River, MD	4.236	10.752	Dec 2012	22.014	Dec 2013	38.081	Dec 2014	-		38.081	Continuing	Continuing	Continuing
CS&C Segment	Various	Various : Various	3.362	4.912	Dec 2012	7.901	Dec 2013	19.568	Dec 2014	-		19.568	Continuing	Continuing	Continuing
CS&C Segment	Various	NSMA : Arlington, VA	4.726	0.860	Jan 2013	0.960	Dec 2013	0.978	Dec 2014	-		0.978	Continuing	Continuing	Continuing
CS&C Segment	C/CPFF	COLSA Corporation : Huntsville, AL	1.365	6.248	Dec 2012	-		-		-		-	-	7.613	7.613
CS&C Segment	WR	NAWCWD : China Lake, CA	3.524	3.540	Dec 2012	1.520	Dec 2013	-		-		-	-	8.584	8.584
CS&C Segment	WR	NAWCWD : Point Mugu, CA	0.000	4.879	Dec 2012	2.803	Dec 2013	2.323	Dec 2014	-		2.323	Continuing	Continuing	Continuing
CS&C Segment	WR	SPAWAR : San Diego, CA	1.072	3.550	Dec 2012	3.600	Dec 2013	13.846	Dec 2014	-		13.846	Continuing	Continuing	Continuing
CS&C Segment (CDS)	TBD	TBD : TBD	0.000	-		-		15.884	Mar 2015	-		15.884	Continuing	Continuing	Continuing
Carrier Segment (Ship Integration)	Various	Various : Various	2.796	0.107	Dec 2012	0.105	Dec 2013	0.679	Dec 2014	-		0.679	Continuing	Continuing	Continuing
Carrier Segment (Ship Integration)	WR	NAWCAD : Patuxent River, MD	4.283	3.618	Dec 2012	3.662	Dec 2013	23.548	Dec 2014	-		23.548	Continuing	Continuing	Continuing

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Navy												Date: March 2014			
Appropriation/Budget Activity 1319 / 5						R-1 Program Element (Number/Name) PE 0604404N / (U)Unman Carrier Launch A/B Surv & Strk(UCLASS)Sys					Project (Number/Name) 3278 / UCLASS Development				
Product Development (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
LSI - Risk Reduction (Primary Hardware Development)	Various	Various : Various	2.244	2.541	Feb 2013	-		-		-		-	-	4.785	4.785
LSI - Mission Effectiveness Analyses (Primary Hardware Development)	Various	Various : Various	1.440	4.269	Dec 2012	4.805	Dec 2013	1.402	Dec 2014	-		1.402	Continuing	Continuing	Continuing
LSI - Mission Effectiveness Analyses (Primary Hardware Development)	WR	NAWCAD : Patuxent River, MD	1.166	2.117	Dec 2012	1.674	Dec 2013	1.825	Dec 2014	-		1.825	Continuing	Continuing	Continuing
LSI - Mission Effectiveness Analyses (Primary Hardware Development)	WR	NAWCWD : China Lake, CA	2.043	1.686	Dec 2012	1.115	Dec 2013	1.215	Dec 2014	-		1.215	Continuing	Continuing	Continuing
LSI - Systems Engineering	Various	Various : Various	0.994	1.051	Dec 2012	1.490	Dec 2013	3.937	Dec 2014	-		3.937	Continuing	Continuing	Continuing
LSI - Systems Engineering	WR	NAWCAD : Patuxent River, MD	0.513	0.546	Dec 2012	3.012	Dec 2013	3.614	Dec 2014	-		3.614	Continuing	Continuing	Continuing
Prior year Prod Dev costs no longer funded in the FYDP	Various	Various : Various	5.026	-		-		-		-		-	-	5.026	5.026
Subtotal			40.790	88.270		109.733		386.133		-		386.133	-	-	-
Remarks Control System and Connectivity (CS&C) Segment Navy Systems Management Activity (NSMA) Common Display Station (CDS) Lead Systems Integrator (LSI)															
Support (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Manpower Studies & Analyses	Various	Various : Various	0.000	-		-		0.233	Jan 2015	-		0.233	Continuing	Continuing	Continuing

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Navy												Date: March 2014			
Appropriation/Budget Activity 1319 / 5						R-1 Program Element (Number/Name) PE 0604404N / (U)Unman Carrier Launch A/B Surv & Strk(UCLASS)Sys						Project (Number/Name) 3278 / UCLASS Development			
Support (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Training Development	WR	NAWCAD : Patuxent River, MD	0.000	-		-		0.210	Dec 2014	-		0.210	Continuing	Continuing	Continuing
Subtotal			0.000	-		-		0.443		-		0.443	-	-	-
Test and Evaluation (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	2.200	Dec 2012	2.244	Dec 2013	6.934	Dec 2014	-		6.934	Continuing	Continuing	Continuing
Subtotal			0.000	2.200		2.244		6.934		-		6.934	-	-	-
Management Services (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	0.274	0.815	Dec 2012	1.418	Dec 2013	1.545	Dec 2014	-		1.545	Continuing	Continuing	Continuing
Management	WR	NAWCAD : Patuxent River, MD	4.422	8.159	Dec 2012	8.205	Dec 2013	7.848	Dec 2014	-		7.848	Continuing	Continuing	Continuing
Management (Travel)	Various	NAVAIR : Patuxent River, MD	0.029	0.035	Oct 2012	0.073	Oct 2013	0.114	Oct 2014	-		0.114	Continuing	Continuing	Continuing
Subtotal			4.725	9.009		9.696		9.507		-		9.507	-	-	-
			Prior Years	FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			45.515	99.479		121.673		403.017		-		403.017	-	-	-
Remarks															

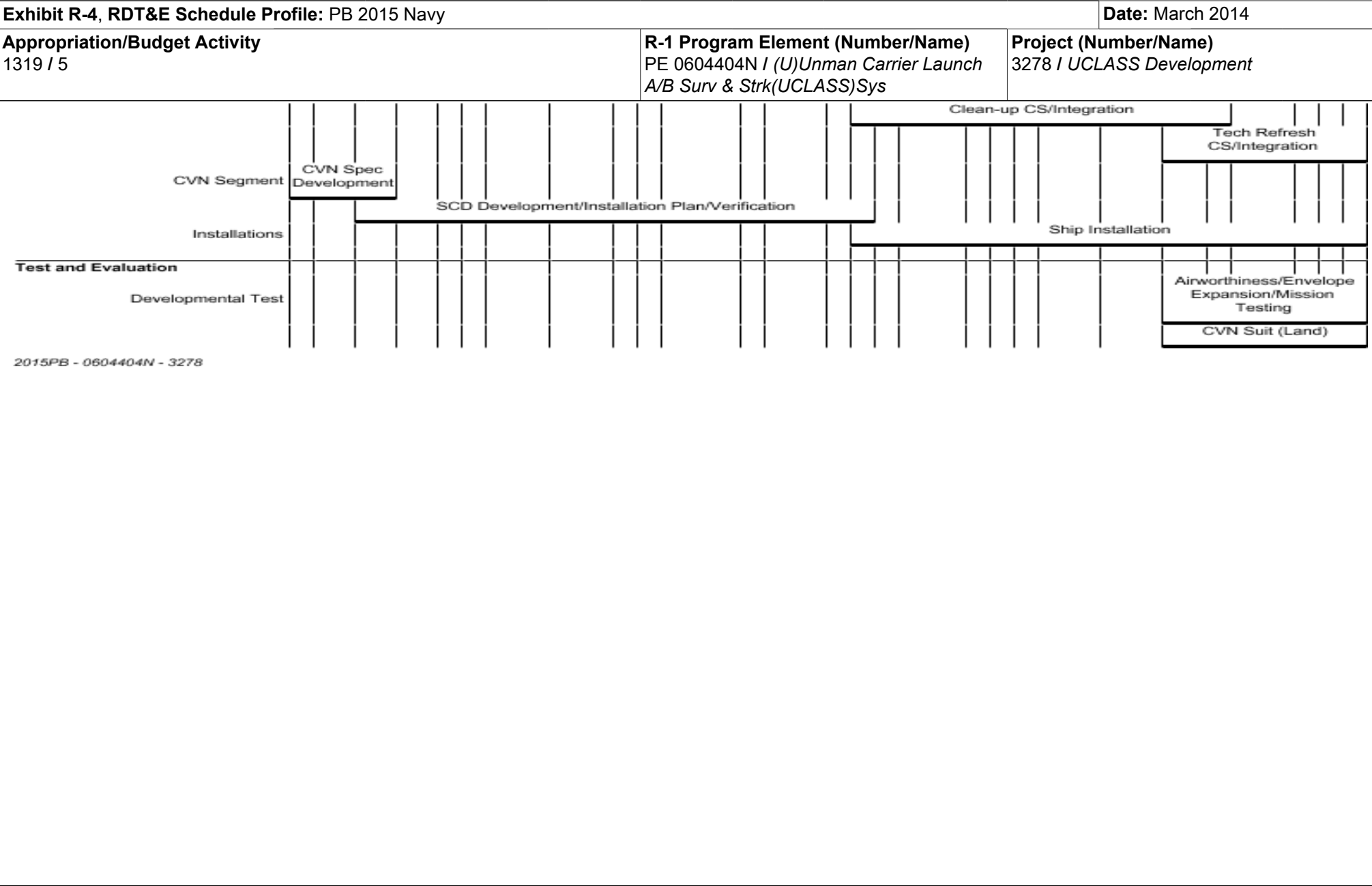
UNCLASSIFIED

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

R-1 Line #112

Unmanned Carrier-Launched Airborne Surveillance and Strike (UCLASS) System		FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019					
		1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q						
Acquisition Milestones																															
Milestones & Reviews		Draft CDD ▼	TDS ▼									Milestone A ▲		System PDR ■				System CDR ■					System TRR ■	System FRR ■							
Systems Development																															
UCLASS System Design & Integration		UCLASS Architecture Development and Integration																													
Air Segment		<div><div>RFP Preparation</div><div>BAA</div><div>PDR CA ●</div><div>Boeing</div><div>General Atomics</div><div>Lockheed Martin</div><div>Northrop Grumman</div><div>Post PDR RFP Release ▼</div><div>Source Selection</div><div>Air Segment CA ●</div><div>Final AV Design, Fab, Sub-System Testing</div><div>System Integration</div><div>First Flight ▼</div></div>																													
Control System and Connectivity (CS&C) Segment		<div><div>CS&C Design/Spec Development</div><div>Prototype CS/Integration</div><div>AV CS Delivery ▼</div><div>Land CS Development/Integration</div><div>Land CS Delivery ▼</div><div>CVN CS Delivery ▼</div></div>																													

UNCLASSIFIED



UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604404N / (U)Unman Carrier Launch A/B Surv & Strk(UCLASS)Sys	Project (Number/Name) 3278 / UCLASS Development	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Unmanned Carrier-Launched Airborne Surveillance and Strike (UCLASS) System</i>				
Acquisition Milestones: Milestones & Reviews: Milestone A	3	2015	3	2015
Acquisition Milestones: Milestones & Reviews: System Preliminary Design Review (PDR)	1	2016	1	2016
Acquisition Milestones: Milestones & Reviews: System Concept Design Review (CDR)	1	2017	1	2017
Acquisition Milestones: Milestones & Reviews: System Technical Readiness Review (TRR)	1	2018	1	2018
Acquisition Milestones: Milestones & Reviews: Flight Readiness Review (FRR)	2	2018	2	2018
Acquisition Milestones: Milestones & Reviews: Service Draft Capability Development Document (CDD)	2	2013	2	2013
Acquisition Milestones: Milestones & Reviews: Technology Development Strategy (TDS)	3	2013	3	2013
Acquisition Milestones: Milestones & Reviews: System Requirements Review (SRR)	3	2013	3	2013
Acquisition Milestones: Milestones & Reviews: In Progress Review (IPR) - Defense Acquisition Board (DAB)	3	2014	3	2014
Systems Development: UCLASS System Design & Integration: UCLASS Architecture Development and Integration	1	2013	4	2019
Systems Development: Air Segment: PDR Request For Proposal (RFP) Preparation	1	2013	3	2013
Systems Development: Air Segment: Broad Agency Announcement (BAA)	2	2013	4	2013
Systems Development: PDR Contract Award (CA)	4	2013	4	2013
Systems Development: Boeing	4	2013	3	2014
Systems Development: General Atomics	4	2013	3	2014
Systems Development: Lockheed Martin	4	2013	3	2014
Systems Development: Northrop Grumman	4	2013	3	2014

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2015 Navy				Date: March 2014	
Appropriation/Budget Activity 1319 / 5		R-1 Program Element (Number/Name) PE 0604404N / (U)Unman Carrier Launch A/B Surv & Strk(UCLASS)Sys		Project (Number/Name) 3278 / UCLASS Development	
		Start		End	
Events by Sub Project		Quarter	Year	Quarter	Year
Systems Development: Source Selection Activities		4	2014	2	2015
Systems Development: First Flight		3	2018	3	2018
Systems Development: Post-PDR RFP Release for Air Segment Contract Award		3	2014	3	2014
Systems Development: Air Segment Contract Award		3	2015	3	2015
Systems Development: Final Air Vehicle (AV) Design, Fab, Sub-System Testing		3	2015	3	2018
Systems Development: System Integration		3	2015	4	2019
Systems Development: Control System and Connectivity (CS&C) Segment: CS&C Segment Design/Spec Development		1	2013	3	2013
Systems Development: Control System and Connectivity (CS&C) Segment: Prototype Control Station (CS)/Integration		2	2013	3	2014
Systems Development: Control System and Connectivity (CS&C) Segment: AV CS Delivery		4	2014	4	2014
Systems Development: Control System and Connectivity (CS&C) Segment: Land/Carrier Vessel Nuclear (CVN) CS Development/Integration		2	2014	4	2016
Systems Development: Control System and Connectivity (CS&C) Segment: Land CS Delivery		1	2017	1	2017
Systems Development: Control System and Connectivity (CS&C) Segment: CVN CS Delivery		1	2019	1	2019
Systems Development: Control System and Connectivity (CS&C) Segment: Clean-up CS/Integration		3	2016	4	2018
Systems Development: Control System and Connectivity (CS&C) Segment: Technology Refresh CS/Integration		3	2018	4	2019
Systems Development: CVN Segment: CVN Spec Development		1	2013	3	2013
Systems Development: CVN Segment: Ship Change Document (SCD) Development/Installation Plan/Verification		3	2013	3	2016
Systems Development: Installations: Ship Installation		3	2016	4	2019
Test and Evaluation: Developmental Test: Airworthiness/Envelope Expansion/Mission Testing		3	2018	4	2019

UNCLASSIFIED

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

R-1 Line #112

	Start		End	
Events by Sub Project	Quarter	Year	Quarter	Year
Test and Evaluation: Developmental Test: CVN Suit (Land)	3	2018	4	2019