Exhibit R-2, **RDT&E Budget Item Justification:** PB 2014 Navy

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

1319: Research, Development, Test & Evaluation, Navy

PE 0603654N: JT Service Explosive Ordn Dev

BA 4: Advanced Component Development & Prototypes (ACD&P)

•												
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	437.421	33.012	56.931	38.422	-	38.422	28.229	32.461	33.208	33.715	Continuing	Continuing
0377: JT Service Expl Ord Disp System	300.419	17.762	27.536	19.047	-	19.047	13.422	12.648	12.937	13.135	Continuing	Continuing
1317: EOD Diving System	95.023	3.005	4.340	2.607	-	2.607	2.640	4.593	4.699	4.770	Continuing	Continuing
3177: Joint Counter Radio- Controlled IED Elec Warfare	0.000	0.000	4.600	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	4.600
4023: VSW MCM/Force Protection UUV	41.979	12.245	20.455	16.768	-	16.768	12.167	15.220	15.572	15.810	Continuing	Continuing

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

A. Mission Description and Budget Item Justification

This is a Joint Service Program. This program provides for the development of Explosive Ordnance Disposal tools and equipment for use by all military services. The responsibility is assigned to the Navy as single service manager, by Department of Defense Directive 5160.62 of 26 April 1989, for management of the Joint Service Explosive Ordnance Disposal Research and Development Program. Proliferation of sophisticated types of foreign and domestic ordnance and Improvised Explosive Devices necessitate a continuing development program to provide Explosive Ordnance Disposal personnel of all military services with the special equipment and tools required to support this mission. This program also provides life support related equipment necessary to support the performance of Navy Explosive Ordnance Disposal tasks underwater. This equipment must have inherently low acoustic and magnetic signatures in order to allow the Explosive Ordnance Disposal technician to safely approach, render-safe and dispose of sea mines and other underwater ordnance. This program also provides force protection of all military services against Radio Controlled Improvised Explosive Devices (RCIED) to prevent initiation. The Navy has been designated as DOD Executive Agent and Single Manager for Military Ground-Based Counter Radio-Controlled Improvised Explosive Electronic Warfare (CREW) Technology by DOD Directive 5101.14 of 11 June 2007, requiring RDT&E to develop capabilities that meet joint requirements.

PE 0603654N: JT Service Explosive Ordn Dev

Navy

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

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

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

1319: Research, Development, Test & Evaluation, Navy

PE 0603654N: JT Service Explosive Ordn Dev

DATE: April 2013

BA 4: Advanced Component Development & Prototypes (ACD&P)

B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	35.154	52.331	41.181	-	41.181
Current President's Budget	33.012	56.931	38.422	-	38.422
Total Adjustments	-2.142	4.600	-2.759	-	-2.759
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	_	-			
 Congressional Rescissions 	_	-			
 Congressional Adds 	_	-			
 Congressional Directed Transfers 	_	-			
Reprogrammings	-1.466	0.000			
SBIR/STTR Transfer	-0.676	0.000			
Program Adjustments	0.000	0.000	-0.297	-	-0.297
Rate/Misc Adjustments	0.000	4.600	-2.462	-	-2.462

Change Summary Explanation

Program Adjustments: FY14 \$0.677K in Program Adjustments and \$2.082M in Other Rate Adjustments.

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Exhibit R-2A, RDT&E Project Ju	ustification	: PB 2014 N	Navy					DATE: April 2013				
APPROPRIATION/BUDGET ACT		R-1 ITEM I	NOMENCL	ATURE	PROJECT	Т						
1319: Research, Development, T	PE 060365	54N: JT Ser	vice Explos	Service Expl Ord Disp System								
BA 4: Advanced Component Dev	elopment &	Prototypes	(ACD&P)		Dev							
COST (\$ in Millions)	All Prior			FY 2014	FY 2014	FY 2014					Cost To	Total

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
0377: JT Service Expl Ord Disp System	300.419	17.762	27.536	19.047	-	19.047	13.422	12.648	12.937	13.135	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

Accomplishments/Planned Programs (\$ in Millians, Article Quantities in Each)

A. Mission Description and Budget Item Justification

Provides Explosive Ordnance Disposal personnel of all military services with the specialized equipment and tools required to support their mission of detection/location, identification, render-safe, recovery, field and laboratory evaluation, and disposal of unexploded ordnance (UXO) that is a threat to military operations, installations, personnel, or material. UXO includes foreign and domestic, both conventional and non-conventional, including Improvised Explosive Devices (IEDs). High Fidelity Weapons Mass Destruction performs detection and identification of hazardous materials contained in devices using radiological and biological means. Advanced EOD Robot System (AEODRS) consists of multiple interoperable robot systems. The first class of robot and the architecture for the system will be developed first, then the other classes of robots will be developed. Project Unit 0377: FY12 OCO: Continuous Improvement for the MK1 & MK2 Joint Service EOD robots used by EOD technicians when responding to IED incidents in OIF and OEF.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Title: EOD FUTURE RADIOGRAPHIC SYSTEMS (FRS) AND EOD DECISION SUPPORT SYSTEMS (DSS)	4.389	6.150	6.055
Articles:	0	0	0
FY 2012 Accomplishments: Developed Continuous Improvements of incremental capabilities for JEOD Decision Support System (DSS) and continued development of Future Radiographic Systems (FRS).			
FY 2013 Plans: Continue development of increment one capabilities for Future Radiographic System (FRS) and incremental improvements to capability for the Decision Support System (DSS).			
FY 2014 Plans: Continue improvements to the JEOD Decision Support System (DSS) based upon user input, development of the Future Radiographic Systems (FRS) and provide Analysis of Alternatives for warfighter initiated improvements.			
Title: HIGH FIDELITY WEAPONS MASS DESTRUCTION (WMD) IDENTIFICATION AND DETECTION	4.401	7.702	1.929
Articles:	0	0	0
FY 2012 Accomplishments:			

PE 0603654N: JT Service Explosive Ordn Dev

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

	UNCLASSIFIED						
Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy			DATE: A	April 2013			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 ITEM NOMENCLATURE PE 0603654N: JT Service Explosive Ordn Dev	PROJECT 0377: JT Service Expl Ord Disp System					
B. Accomplishments/Planned Programs (\$ in Millions, Article Quant	ities in Each)		FY 2012	FY 2013	FY 2014		
Developed a family of systems to address the capabilities gaps in detecti (WMD) threats.	ion and identification of Weapons Mass Destruction						
FY 2013 Plans: Continue development and testing of systems within a family of systems and detection of WMD.	addressing capability gaps associated with identification	ation					
FY 2014 Plans: Continue to develop Weapons Mass Destruction (WMD) family of system Identification Kit (ID).	ns focused on development of the Explosives						
Title: EOD ROBOTICS		ticles:	5.063	11.547	9.633		
FY 2012 Accomplishments: Continued development of Advanced EOD Robot System and developed configurations.	d improved capabilities for existing EOD robot						
FY 2013 Plans: Continue development of a family of Advanced EOD Robotic of Systems for existing EOD Robotic platforms.	to fill capability gaps and develop improved capabil	ities					
FY 2014 Plans: Continue development of Advanced EOD Robotic Systems Increments 1 Robotic Platforms.	,2 and 3 to fill capability gap and to replace existing	EOD					
Title: TCM AN/PLT-XXX SYSTEMS	Ar	ticles:	1.741 0	2.137 0	1.430 0		
FY 2012 Accomplishments: Continued project development capabilities to determine the state of (or respectively).	neutralize) Electronic Safe/Arm Fuzes for EOD purp	ose.					
FY 2013 Plans: Continue improvements to loadsets for fielded EOD TCM systems based development of capabilities to determine the state of and defeat electronic		d					
FY 2014 Plans: Continue upgrades to EOD TCM loadsets to account for continually chan	nging threats.						
Title: UNMANNED AERIAL SYSTEMS			0.668	0.000	0.000		

PE 0603654N: JT Service Explosive Ordn Dev

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy											
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT									
1319: Research, Development, Test & Evaluation, Navy	PE 0603654N: JT Service Explosive Ordn	0377: JT Service Expl Ord Disp System									
BA 4: Advanced Component Development & Prototypes (ACD&P)	Dev										

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Articles:	0		
FY 2012 Accomplishments:			
Continued development of Unmanned Aerial Systems Capabilities for the EOD community.			
Title: EOD ROBOTICS OCO	1.500	0.000	0.000
Articles:	0		
FY 2012 Accomplishments:			
OCO:			
Joint Service EOD Robot Continuous Improvement - The MK 1 and MK 2 EOD robots are the primary tool used by EOD			
technicians when responding to IED incidents in OEF-A. There are unique tools for robot uses that need to be developed to			
counter emergent threats in both theaters (OED-A and OND) that are not part of the current program of record. Funding is			
required to provide for development of these theater specific tools.			
Accomplishments/Planned Programs Subtotals	17.762	27.536	19.047

C. Other Program Funding Summary (\$ in Millions)

			FY 2014	FY 2014	FY 2014					Cost To	
<u>Line Item</u>	FY 2012	FY 2013	Base	OCO	<u>Total</u>	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total Cost
OPN/5509: EOD Equipment	2.500	0.000	8.080		8.080	22.822	12.676	4.966	7.281	0.000	65.628
(VN075)											

Remarks

Navy

D. Acquisition Strategy

Analysis of Alternatives (AOA) studies are always conducted prior to the initiation of new subprojects. The AOA addresses and emphasizes acquisition strategies of the most cost-effective solution over the subprojects' life-cycle. The acquisition strategies observe the following hierarchy of alternatives: commercial item (including modification), non-developmental item (including modification), and lastly, developmental programs. Contracting for RDT&E, if required, is always competitive and when feasible, production options are included.

E. Performance Metrics

Conducted Electronic Safe/Arm Fuze IED/UXO Technology Development review and worked with contractors to explore technology options. Processed 111 Joint Service EOD Decision Support System (DSS) change requests resulting in the release of 2490 Mobile Field Kit and Publication Suite Software copies to the Joint Services including USN. Completed TCM, AN/PLT-5 loadset upgrade for EOD use in-theatre based upon new IED/UXO threats seen during operations. Completed JSEOD Weapons of Mass Destruction developmental testing of COTS systems resulting in the procurement of systems. Completed Advanced EOD Robotics Systems first of two Critical Design Reviews for Increment 1 and Test Readiness Review for Increment 1.

PE 0603654N: JT Service Explosive Ordn Dev

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

PE 0603654N: JT Service Explosive Ordn

Dev

PROJECT

0377: JT Service Expl Ord Disp System

Product Developme	ent (\$ in Mi	illions)		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	Total Cost	Target Value of Contract
Primary Hardware Development	WR	EODTD:Indian Head, MD	124.334	10.614	Oct 2011	16.886	Oct 2012	10.017	Oct 2013	-		10.017	Continuing	Continuing	Continuing
Software Development	WR	EODTD:Indian Head, MD	20.234	2.500	Oct 2011	3.600	Oct 2012	3.700	Oct 2013	-		3.700	Continuing	Continuing	Continuing
ILS	WR	EODTD:Indiah Head, MD	44.670	1.670	Oct 2011	1.000	Oct 2012	1.000	Oct 2013	-		1.000	Continuing	Continuing	Continuing
		Subtotal	189.238	14.784		21.486		14.717		0.000		14.717			

Support (\$ in Million	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	Total Cost	Target Value of Contract
Program Management Support	C/CPFF	ITT:Arlington, VA	6.271	0.176	Oct 2011	0.550	Oct 2012	0.500	Oct 2013	-		0.500	Continuing	Continuing	Continuing
		Subtotal	6.271	0.176		0.550		0.500		0.000		0.500			

Test and Evaluation	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	Total Cost	Target Value of Contract
Developmental Test & Evaluation	WR	EODTD:Indian Head, MD	70.647	2.202	Oct 2011	4.000	Oct 2012	2.630	Oct 2013	-		2.630	Continuing	Continuing	Continuing
Operation Test & Evaluation	WR	EODTD:Indian Head, MD	9.933	0.300	Oct 2011	0.500	Oct 2012	0.500	Oct 2013	-		0.500	Continuing	Continuing	Continuing
		Subtotal	80.580	2.502		4.500		3.130		0.000		3.130			

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy

R-1 ITEM NOMENCLATURE

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

PE 0603654N: JT Service Explosive Ordn

PROJECT

BA 4: Advanced Component Development & Prototypes (ACD&P)

Dev

0377: JT Service Expl Ord Disp System

Management Service	Management Services (\$ in Millions)					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
Program Manangement Support	WR	EODTD:Indian Head, MD	8.278	0.200	Oct 2011	0.675	Oct 2012	0.700	Oct 2013	-		0.700	Continuing	Continuing	Continuing
Miscellaneous	WR	EODTD:Indian Head, MD	16.052	0.100	Oct 2011	0.325	Oct 2012	0.000	Oct 2013	-		0.000	Continuing	Continuing	Continuing
		Subtotal	24.330	0.300		1.000		0.700		0.000		0.700			
															Target

	All Prior Years	FY 2	012	FY 2	013	FY 2 Ba	-	FY 2	-	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Tota	Is 300.419	17.762		27.536		19.047		0.000		19.047			

Remarks

PE 0603654N: *JT Service Explosive Ordn Dev* Navy

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

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

PE 0603654N: JT Service Explosive Ordn

Dev

PROJECT

0377: JT Service Expl Ord Disp System

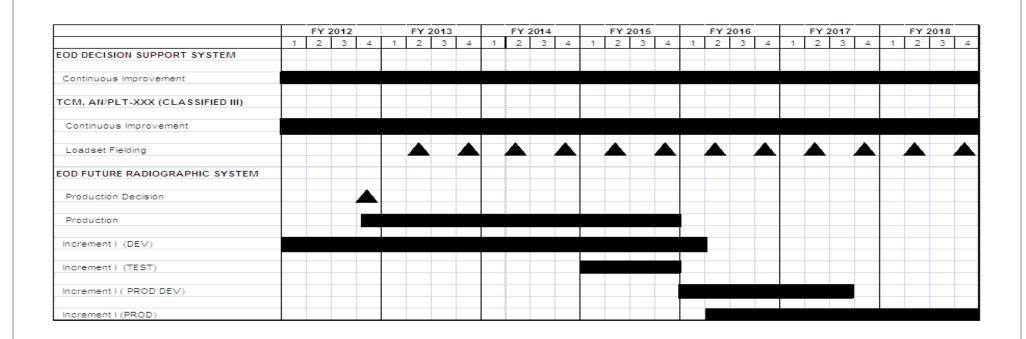


Exhibit R-4, RDT&E Schedule Profile: PB 2014 Navy

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

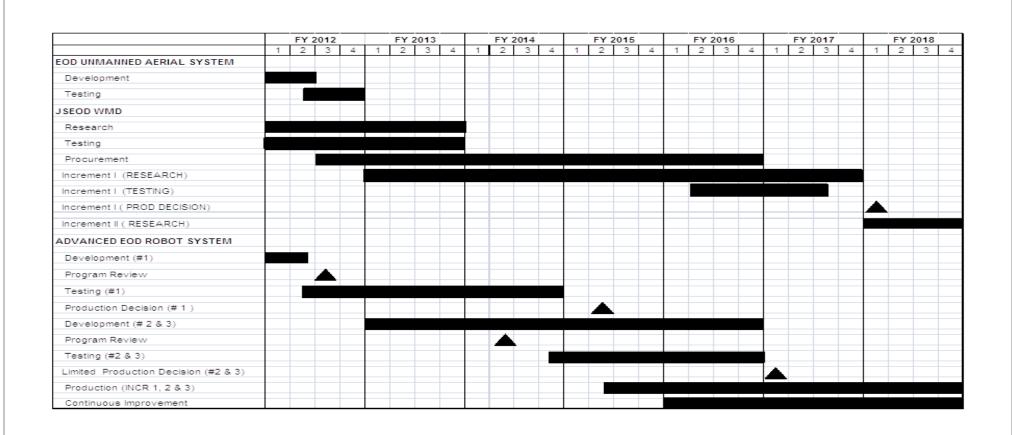
PE 0603654N: JT Service Explosive Ordn

Dev

PROJECT

0377: JT Service Expl Ord Disp System

DATE: April 2013



DATE: April 2013 Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE **PROJECT**

1319: Research, Development, Test & Evaluation, Navy PE 0603654N: JT Service Explosive Ordn

0377: JT Service Expl Ord Disp System BA 4: Advanced Component Development & Prototypes (ACD&P) Dev

Schedule Details

	Sta	art	End			
Events by Sub Project	Quarter	Year	Quarter	Year		
Proj 0377						
Title: EOD DECISION SUPPORT SYSTEM	1	2012	4	2018		
Continous Improvement 1	1	2012	4	2018		
Title: TCM, AN/PLT-XXX (CLASSIFIED III)	1	2012	4	2018		
Continous Improvement 2	1	2012	4	2018		
Loadset Fielding 1	2	2013	2	2013		
Loadset Fielding 2	4	2013	4	2013		
Loadset Fielding 3	2	2014	2	2014		
Loadset Fielding 4	4	2014	4	2014		
Loadset Fielding 5	2	2015	2	2015		
Loadset Fielding 6	4	2015	4	2015		
Loadset Fielding 7	2	2016	2	2016		
Loadset Fielding 8	4	2016	4	2016		
Loadset Fielding 9	2	2017	2	2017		
Loadset Fielding 10	4	2017	4	2017		
Loadset Fielding 11	2	2018	2	2018		
Loadset Fielding 12	4	2018	4	2018		
Title: EOD FUTURE RADIOGRAPHIC SYSTEM	1	2012	4	2018		
Production Decision	4	2012	4	2012		
Production	4	2012	4	2015		
Increment I (DEV)	1	2012	1	2016		
Increment I (TEST)	1	2015	4	2015		

PE 0603654N: JT Service Explosive Ordn Dev Navy

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

R-1 ITEM NOMENCLATURE

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 4: Advanced Component Development & Prototypes (ACD&P)

PE 0603654N: JT Service Explosive Ordn

PROJECT

0377: JT Service Expl Ord Disp System

Dev

	Sta	Start		
Events by Sub Project	Quarter	Year	Quarter	Year
Increment I (PROD DEV)	1	2016	3	2017
Increment I (PROD)	2	2016	4	2018
Title: EOD UNMANNED AERIAL SYSTEM	1	2012	4	2012
Development	1	2012	2	2012
Testing 1	2	2012	4	2012
Title: JS EOD WMD	1	2012	4	2018
Research	1	2012	4	2013
Testing 2	1	2012	4	2013
Procurement	3	2012	4	2016
Increment I (RESEARCH)	1	2013	4	2017
Increment I (TESTING)	2	2016	3	2017
Increment I (PROD DECISION)	1	2018	1	2018
Increment II (RESEARCH)	1	2018	4	2018
Title: ADVANCED EOD ROBOT SYSTEM	1	2012	4	2018
Development # 1	1	2012	2	2012
Program Review 1	3	2012	3	2012
Testing (#1)	2	2012	4	2014
Production Decision (#1)	2	2015	2	2015
Development (# 2 & 3)	1	2013	4	2016
Program Review 2	2	2014	2	2014
Testing (# 2 & 3)	4	2014	4	2016
Limited Production Decision (# 2 & 3)	1	2017	1	2017
Production 3 (INC 1, 2 & 3)	2	2015	4	2018
Continous Improvement 3	2	2016	4	2018

PE 0603654N: *JT Service Explosive Ordn Dev* Navy

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy
BA 4: Advanced Component Development & Prototypes (ACD&P)

COST (\$ in Millions)

All Prior

DATE: April 2013

R-1 ITEM NOMENCLATURE
PE 0603654N: JT Service Explosive Ordn
Dev

1317: EOD Diving System
Cost To Total

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
1317: EOD Diving System	95.023	3.005	4.340	2.607	-	2.607	2.640	4.593	4.699	4.770	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

A. Mission Description and Budget Item Justification

Provides for development of Diver Safety/Life Support Equipment, Advanced Diver Integrated Sensors and Advanced Firing Systems to support Navy Explosive Ordnance Disposal (EOD) underwater operations. The equipment must have inherently low acoustic and magnetic signatures in order to allow the EOD divers to safely approach, render-safe, recover, exploit, and dispose of underwater explosive threats to include sea mines, limpet mines and unexploded ordnance.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Title: DIVER SAFETY & LIFE SUPPORT SYSTEMS	1.630	2.118	1.056
Articles:	0	0	0
Description: Diver Safety & Life Support Systems: Develop diver safety tools to include more capable life support systems for EOD, and Mobile Diving & Salvage Units (MDSU) operations. Specific tools include but are not limited to Underwater Breathing Apparatus (UBA), specialized dive masks, heads-up displays, and emergency life support systems.			
FY 2012 Accomplishments: Initiated a VSW/MCM UBA program to develop modern and safer UBA. Developed and tested UW Lift System for EOD and VSW/MCM missions.			
FY 2013 Plans: Continue acquisition efforts to develop, test and field future EOD and Underwater Mine Countermeasures (UMCM) UBA in accordance with OPNAV approved requirements.			
FY 2014 Plans: Continue EOD UBA acquisition initiative.			
Title: ADVANCED DIVER INTEGRATED SENSORS	1.125	1.461	0.901
Articles:	0	0	0
Description: Develop Advanced Diver Integrated Sensors equipment to enhance EOD and MDSU ability to detect, neutralize and gather intelligence on underwater targets of interest. Requirements include Diver Hull Inspection Navigation System (DHINS) and improvements to the Underwater Imaging System (UIS).			

PE 0603654N: JT Service Explosive Ordn Dev

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

Exhibit R-2A, RDT&E Project Just	ification: PB	2014 Navy							DATE: A	pril 2013				
APPROPRIATION/BUDGET ACTIV 1319: Research, Development, Test BA 4: Advanced Component Develo	& Evaluation,)&P)		EM NOMEN 03654N: <i>JT</i>	_	losive Ordn		PROJECT 1317: EOD Diving System					
B. Accomplishments/Planned Pro	grams (\$ in N	Millions, Art	icle Quantit	ies in Each))				FY 2012	FY 2013	FY 2014			
FY 2012 Accomplishments: Conducted testing of diver held sens for integration into DHINS and UIS.	sors. As part	of a Continu	ous Improve	ement Progra	am (CIP) dev	eloped and	tested techn	ologies						
FY 2013 Plans: Initiate an acquisition initiative to fiel to upgrade DHINS with fleet recomn	•			∕l diver base	d sensor and	d navigation	system. Cor	ntinue						
FY 2014 Plans: Initiate acquisition program to replace with DHINS.	ce UIS based	on Analysis	of Alternative	es (AOA) co	nducted in F	Y13. Contin	ue CIP integ	ration						
Title: ADVANCED FIRING SYSTEM	Л							rticles:	0.250	0.761	0.650			
Description: Develops new acquisit of underwater threats to support EO FY 2012 Accomplishments: Conducted Analysis Of Alternative (A	D and MDSU	operations.												
FY 2013 Plans: Continue implementing upgrades in	,						·							
FY 2014 Plans: Field miniaturized AFCT to meet app	proved invent	ory objective	s.											
				Accon	nplishment	/Planned P	rograms Su	btotals	3.005	4.340	2.607			
C. Other Program Funding Summa	ary (\$ in Milli	ons)	FY 2014	FY 2014	FY 2014					Cost To				
<u>Line Item</u>	FY 2012	FY 2013	Base	OCO	Total	FY 2015	FY 2016	FY 201	7 FY 2018	Complete	Total Cos			
OPN/0977a: Underwater EOD Program (Cost Code UQ034)	4.800	5.000	6.175		6.175	6.292	4.002	3.65						
• 0340: <i>PANMC</i>	0.505	0.326	0.000		0.000	0.000	1.593	0.00						
• OPN/0977b: <i>UW EOD (UQ036)</i>	1.200	0.000	2.000		2.000	1.200	1.700	2.40	3.083	0.000	11.583			
Remarks														

PE 0603654N: JT Service Explosive Ordn Dev

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy			DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT		
1319: Research, Development, Test & Evaluation, Navy	PE 0603654N: JT Service Explosive Ordn	1317: <i>EOD</i>	Diving System	
BA 4: Advanced Component Development & Prototypes (ACD&P)	Dev			

D. Acquisition Strategy

Analysis of Alternatives (AOA) studies are always conducted prior to the initiation of new sub-projects. The AOA addresses and emphasizes acquisition strategies of the most cost-effective solution over the sub-projects life-cycle. The acquisition strategies observe the following hierarchy of alternatives: commercial item (including modification), non-developmental item (including modification), and lastly, developmental programs. Contracting for RDT&E, if required, is always competitive and when feasible, production options are included.

E. Performance Metrics

Research and Develop technologies for the design of Diver Safety Systems, Advanced Diver Integrated Sensors and Advanced Underwater Firing Systems us	ed to
render safe, recover, exploit, and dispose of sea limpet mines and unexploded ordnance.	

PE 0603654N: *JT Service Explosive Ordn Dev* Navy

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

PE 0603654N: JT Service Explosive Ordn

Dev

PROJECT

1317: EOD Diving System

Product Developmen	roduct Development (\$ in Millions)					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	Total Cost	Target Value of Contract
Primary Hardware Development	WR	EODTECHDIV:IH, MD	39.202	0.709	Oct 2011	1.079	Oct 2012	0.654	Oct 2013	-		0.654	Continuing	Continuing	Continuing
Software Development	WR	EODTECHDIV:IH MD	3.792	0.220	Oct 2011	0.359	Oct 2012	0.218	Oct 2013	-		0.218	Continuing	Continuing	Continuing
Systems Engineering	WR	EODTECHDIV:IH MD	8.228	0.000		0.000		0.000		-		0.000	0.000	8.228	
ILS	WR	EODTECHDIV:IH MD	11.916	0.000		0.000		0.000		-		0.000	0.000	11.916	
Systems Engineering	WR	NSWC:Panama City	1.070	0.231	Oct 2011	0.315	Oct 2012	0.191	Oct 2013	-		0.191	Continuing	Continuing	Continuing
Systems Engineering	WR	SPAWAR:San Diego	2.000	0.441	Oct 2011	0.629	Oct 2012	0.381	Oct 2013	-		0.381	Continuing	Continuing	Continuing
		Subtotal	66.208	1.601		2.382		1.444		0.000		1.444			

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	Total Cost	Target Value of Contract
Program Management Support1	C/CPFF	ITT:Arlington VA	3.537	0.000		0.000		0.000		-		0.000	0.000	3.537	
Program Management Support2	C/CPFF	ITT:Arlington VA	2.481	0.405	Oct 2011	0.364	Oct 2012	0.221	Oct 2013	-		0.221	Continuing	Continuing	Continuing
Integrated Logistics Support	WR	Not Specified:Not Specified	0.000	0.000		0.000		0.000		-		0.000	0.000	0.000	
Configuration Management	WR	Not Specified:Not Specified	0.000	0.000		0.000		0.000		-		0.000	0.000	0.000	
Technical Data	WR	Not Specified:Not Specified	0.000	0.000		0.000		0.000		-		0.000	0.000	0.000	
GFE	WR	Not Specified:Not Specified	0.000	0.000		0.000		0.000		-		0.000	0.000	0.000	
Award Fees	WR	Not Specified:Not Specified	0.000	0.000		0.000		0.000		-		0.000	0.000	0.000	
		Subtotal	6.018	0.405		0.364		0.221		0.000		0.221			

PE 0603654N: *JT Service Explosive Ordn Dev* Navy

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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

PE 0603654N: JT Service Explosive Ordn Dev 1317: EOD Diving System

BA 4: Advanced Component Development & Prototypes (ACD&P)

Test and Evaluation	(\$ in Milli	ions)		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	Total Cost	Target Value of Contract
Development Test & Evaluation	WR	EODTECHDIV:IH MD	5.688	0.613	Oct 2011	0.944	Oct 2012	0.572	Oct 2013	-		0.572	Continuing	Continuing	Continuing
Operational Test & Evaluation	WR	EODTECHDIV:IH MD	1.560	0.000		0.000		0.000		-		0.000	0.000	1.560	
	Subtotal 7.248					0.944		0.572		0.000		0.572			

Management Services (\$ in Millions)			FY 2	2012	FY 2013		FY 2014 Base		FY 2		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
Program Management Support	WR	EODTECHDIV:IH MD	8.763	0.312	Oct 2011	0.450	Oct 2012	0.274	Oct 2013	-		0.274	0.000	9.799	
Miscellaneous	WR	NSWC, Activities:Not Specified	6.773	0.074	Oct 2011	0.200	Oct 2012	0.096	Oct 2013	-		0.096	0.000	7.143	
Acquisition Workforce Fund	Various	Various:Various	0.013	0.000		0.000		0.000		-		0.000	0.000	0.013	
		Subtotal	15.549	0.386		0.650		0.370		0.000		0.370	0.000	16.955	

	All Prior Years	FY 2012	FY 2	2013	FY 2	FY 2	FY 2014 Total	Cost To	Total Cost	Target Value of Contract
						 	 	- cp.:c.tc		
Project Cost Totals	95.023	3.005	4.340		2.607	0.000	2.607			

Remarks

PE 0603654N: *JT Service Explosive Ordn Dev* Navy

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Navy					_	ATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (AC	D&P)		MENCLATURE : JT Service Ex		PROJECT 1317: EOD D	iving System	
	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Advanced Firing Systems Systems Integration/Testing Systems Integration/Testing (Continue) Production Decision/ECP Approval Production Decision/ECP Approval (Continue) Production/Fleet Retrafit Production/Fleet Retrafit (Continue)	•		A				
Diver Safety & Life Support Systems Integration/Testing Systems Integration/Testing (Continue) Production Decision/ECP Approval (Continue) Production Decision/ECP Approval (Continue) Production/Fleet Retrofit (Continue) Production/Fleet Retrofit (Continue)		A		A			
Advanced Diver Integrated Sensors Systems Integration/Testing Production Decision/ECP Approval (Continue) Production Decision/ECP Approval (Continue) Production/Fleet Retrofit Production/Fleet Retrofit (Continue)	A			Å			

PE 0603654N: *JT Service Explosive Ordn Dev* Navy

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DATE: April 2013 Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE

PROJECT 1319: Research, Development, Test & Evaluation, Navy PE 0603654N: JT Service Explosive Ordn

1317: EOD Diving System BA 4: Advanced Component Development & Prototypes (ACD&P) Dev

Schedule Details

	Sta	art	End		
Events by Sub Project	Quarter	Year	Quarter	Year	
Proj 1317					
Title: ADVANCED FIRING SYSTEMS	1	2012	4	2017	
System Integration/Testing 1	1	2012	4	2012	
System Integration/Testing (Continue)	1	2014	2	2014	
Production Decision/ECP Approval 1	4	2012	4	2012	
Production Decision/ECP Approval (Continue) 1	2	2014	2	2014	
Production/Fleet Retrofit (Continue) 1	1	2013	4	2013	
Production/Fleet Retrofit (Continue) 2	2	2014	4	2018	
Title: DIVER SAFETY & LIFE SUPPORT	1	2012	4	2017	
System Integration/Testing	1	2012	4	2014	
Systems Integration/Testing (Continue)	1	2015	4	2017	
Production Decision/ECP Approval (Continue)	4	2013	4	2013	
Production Decision/ECP Approval (Continue) 3	4	2015	4	2015	
Production/Fleet Retrofit (Continue) 3	1	2012	4	2012	
Production/Fleet Retrofit (Continue) 4	2	2014	4	2018	
Title: ADVANCED DIVER INTEGRATED SENSORS	1	2012	4	2017	
System Integration/Testing 3	1	2012	4	2017	
Production Decision/ECP Approval (Continue) 5	2	2012	2	2012	
Production Decision/ECP Approval (Continue) 6	2	2015	2	2015	
Production/Fleet Retrofit	1	2012	4	2013	
Production/Fleet Retrofit (Continue)	2	2015	4	2018	

PE 0603654N: JT Service Explosive Ordn Dev Navy

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DATE: April 2013 Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy **R-1 ITEM NOMENCLATURE** APPROPRIATION/BUDGET ACTIVITY **PROJECT** 1319: Research, Development, Test & Evaluation, Navy PE 0603654N: JT Service Explosive Ordn 3177: Joint Counter Radio-Controlled IED

Dev

BA 4: Advanced Component Development & Prototypes (ACD&P)

Elec Warfare

COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
3177: Joint Counter Radio- Controlled IED Elec Warfare	0.000	0.000	4.600	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	4.600
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

A. Mission Description and Budget Item Justification

Provides for the research, development, for all military services against Radio Controlled Improvised Explosive Devices (RCIED) to prevent initiation. The Navy has been designated as DOD Executive Agent and Single Manager for Military Ground-Based Counter Radio-Controlled Improvised Explosive Electronic Warfare (CREW) Technology by DOD Directive 5101.14 of 11 June 2007, requiring RDT&E to develop capabilities that meet joint requirements. Utilize Joint requirements to provide a system of systems approach for a suite of equipment for mounted, dismounted and fixed site operations. CREW development to make rapid improvements to performance, supportability and affordability.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Title: JOINT CREW OCO	0.000	4.600	0.000
Articles:		0	
FY 2013 Plans: OCO:OCO: JOINT CREW - New techniques and threat loads will be needed to support delivered systems in order to address intheater priority threats, including threat analysis, procurement of test assets, building of threat libraries, etc.			
Accomplishments/Planned Programs Subtotals	0.000	4.600	0.000

C. Other Program Funding Summary (\$ in Millions)

N/A

Navy

Remarks

D. Acquisition Strategy

Analysis of Alternatives (AOA) studies are always conducted prior to the initiation of new subprojects. The AOA addresses and emphasizes acquisition strategies of the most cost effective solution over subprojects' life-cycle. The acquisition strategies observe the following hierarchy of alternatives: commercial item (including modification), non-developmental item (including modification), and lastly, developmental programs. Contracting for RDT&E, if required, is always competitive and when feasible, production options are included. Procurements across the services will be combined to gain quantity discounts.

PE 0603654N: JT Service Explosive Ordn Dev

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

Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy										
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)	PE 0603654N: JT Service Explosive Ordn	PROJECT 3177: Joint Counter Radio-Controlled IED Elec Warfare								
	Dev	Elec Warfare								

PE 0603654N: JT Service Explosive Ordn Dev Navy

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)

PE 0603654N: JT Service Explosive Ordn

3177: Joint Counter Radio-Controlled IED

Dev

Elec Warfare

Product Developme	nt (\$ in M	illions)		FY 2	2012	FY 2	2013	FY 2 Ba	2014 ise	FY 2		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
Hardware Development	WR	EOD/CRANE:Indian Head, MD/Crane, IN	0.000	0.000		4.600	Jan 2013	0.000		-		0.000	0.000	4.600	
		Subtotal	0.000	0.000		4.600		0.000		0.000		0.000	0.000	4.600	
															Target

	All Prior Years	FY 2	2012	FY 2	013	FY 2 Bas	-	FY 2014 OCO	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	0.000		4.600		0.000		0.000	0.000	0.000	4.600	

Remarks

PE 0603654N: *JT Service Explosive Ordn Dev* Navy

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Exhibit K-ZA, KDT&ETTOject ot	astilication.	1 0 20171	vavy							DAIL: / \pi	11 20 10	
APPROPRIATION/BUDGET ACT	R-1 ITEM NOMENCLATURE PROJECT					•						
1319: Research, Development, Te	PE 0603654N: JT Service Explosive Ordn 4023: VSW MCM/Force Protection UUV						UUV					
BA 4: Advanced Component Deve		Dev										
COST (\$ in Millions)	All Prior Years	EV 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
	Icais	1 1 2012	1 1 2013	Dase	000	iotai	1 1 2013	1 1 2010	1 1 2017	1 1 2010	Complete	0031
4023: VSW MCM/Force	41.979	12.245	20.455	16.768	_	16.768	12.167	15.220	15.572	15.810	Continuing C	Continuing
Protection LILIV												

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Fyhibit R-24 RDT&F Project Justification: PB 2014 Navy

A. Mission Description and Budget Item Justification

Quantity of RDT&E Articles

Provides for development of affordable expeditionary, unmanned underwater systems to support Navy Expeditionary forces including Explosive Ordnance (EOD). Mobile Diving and Salvage Units, and Shallow Water (SW), Very Shallow Water (VSW) and Underwater Mine Countermeasures (UMCM) mission operations. The equipment must be highly portable in order to support the Navy EOD technician to safely approach, render safe, recover, exploit and dispose of underwater explosive threats to include sea mines, limpet mines and unexploded ordnance. Provides support for the Navy's high priority missions of Maritime Homeland Defense, MCM, including clandestine reconnaissance and mine clearance in support of amphibious operations. Development of Expeditionary UUV systems to support localization render-safe and detailed intelligence gathering of UXO including Underwater Improvised Explosive Devices. This project supports CNO N957 MCM UUV Roadmap.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Title: VSW MCM/Force Protection UUV	12.245	20.455	16.768
Articles:	0	0	0
Description: This program supports development, testing and Fleet approval for evolving generations of affordable, expenditionary Unmanned Underwater Vehicles (UUV), support equipment, and Common Operator Interface Navy (COIN) systems to address validated requirements in support of Expeditionary SW and VSW UMCM mission areas. Mission areas include: open and confined areas, hulls, piers and pilings to search, classify, map, re-acquire, identify, and neutralize sea and limpet mines and underwater improvised explosive devices. FY 2012 Accomplishments: Leveraged prior UOES testing and ONR Science and Technology (S&T) investments in standoff neutralization capabilities to initiate 1st increment of UUV-Neutralization (UUV-N) program to develop standoff neutralization capabilities to counter naval mines and other underwater explosive threats. Inserted mature technologies and validate system retrofit to UMCM UUV systems as incremental capability improvement packages to enhance performance in harsh environments in accordance with CNO/ONR technology transition agreements. Completed HULS validation testing to support fielding of baseline system. Begun development of technology in support of capability upgrades to UUV systems insertion retrofit to HULS and UUV-N systems as the next			

PE 0603654N: JT Service Explosive Ordn Dev

Navy

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DATE: April 2013

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^{*}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

Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy	DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
1319: Research, Development, Test & Evaluation, Navy	PE 0603654N: JT Service Explosive Ordn	4023: VSW MCM/Force Protection UUV
BA 4: Advanced Component Development & Prototypes (ACD&P)	Dev	

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increment capability improvement package to enhance performance in complex areas of ship hulls, piers and pilings and other certified areas. Continued to develop Common Operator Interface Navy (COIN).			
FY 2013 Plans: Continue to enhance both the HULS and UMCM UUV's with pre-planned product improvements to meet approved OPNAV operational requiremetns. UOES and RDT&E will be used to validate operational capabilities.			
FY 2014 Plans: Continue to develop, test and evaluate mature technology solutions to support integration into block upgrades via ECP retrofits to fielded MK 18 MOD 1, MOD 2, HULS UUV and Neutralization systems. Plan and execute structure UOES and requirements compliance testing and evaluation (RCT&E) to evaluate effectiveness, supportability and suitability of prototype block upgrade retrofit kits. Develop Joint Capability Integration Development System (JCIDS) documentation as required to support future MK 18 MOD 2 improvements. Conduct Analysis of next generation EOD UUV Expeditionary Mission module to replace the UUV Family of Systems (FOS) at the end of their service life beginning in FY14.			
Accomplishments/Planned Programs Subtotals	12.245	20.455	16.768

C. Other Program Funding Summary (\$ in Millions)

B. Accomplishments/Planned Programs (\$ in Millions. Article Quantities in Each)

			FY 2014	FY 2014	FY 2014					Cost To	
<u>Line Item</u>	FY 2012	FY 2013	Base	OCO	<u>Total</u>	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total Cost
OPN/0977: Underwater EOD	6.271	17.874	14.400		14.400	12.552	22.674	23.885	25.188	0.000	131.194

Program (Cost Code UQ034) Remarks

D. Acquisition Strategy

Navy

Analysis of Alternatives (AOA) studies are always conducted prior to the initiation of new sub-projects. The AOA addresses and emphasizes acquisitions strategies of the most cost-effective solution over the sub-projects' life -cycle. The acquisition strategies observe the following hierarchy of alternatives: commercial item (including modifications), non-developmental item (including modifications), and lastly, developmental programs. Contracting for RDT&E, if required is always competitive and when feasible, production options are included.

This ongoing program capitalizes on a User Operational Evaluation System (UOES) effort involving Fleet operators engaged in tactical experimentation with prototype UUVs prior to fielding baseline systems and capability improvement package increments. These UUV operators also participate in detailed requirements analyses and definition. Operational capabilities with UUV have been realized at designated operational units, with a competitive acquisition strategy. The addition of enhanced

PE 0603654N: JT Service Explosive Ordn Dev

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R-1 Line #54

FY 2012 | FY 2013 | FY 2014

Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
1319: Research, Development, Test & Evaluation, Navy	PE 0603654N: JT Service Explosive Ordn	4023: VSW MCM/Force Protection UUV
BA 4: Advanced Component Development & Prototypes (ACD&P)	Dev	
capabilities through an evolutionary acquisition approach to the UUV toolbox TTAs. Further improvements to the toolbox to add basic mine and underwater		
E. Performance Metrics		
Research and Develop technologies for the design of Unmanned Underwater and unexploded ordnance.	Systems to provide enhanced fleet capabilities	es to locate, classify, and neutralized mines

PE 0603654N: *JT Service Explosive Ordn Dev* Navy

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

R-1 ITEM NOMENCLATURE

PE 0603654N: JT Service Explosive Ordn

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DATE: April 2013

PROJECT

4023: VSW MCM/Force Protection UUV

0.000 Continuing Continuing Continuing

4.402

BA 4: Advanced Com		evelopment & Proto	•	D&P)		Dev			LAPIOOIV		1020.				
Product Developme	nt (\$ in M	illions)		FY 2	2012	FY 2	2013		2014 ase	FY 2	2014 CO	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	Total Cost	Target Value of Contract
Primary Hardware Development	WR	Multiple Activites:Not Specified	0.000	5.600	Oct 2011	5.159	Oct 2012	4.227	Oct 2013	-		4.227	0.000	14.986	
Systems Engineering	WR	NSWC, Activities:Not Specified	0.000	2.153	Oct 2011	4.858	Oct 2012	4.004	Oct 2013	-		4.004	0.000	11.015	
Primary Hardware Development	WR	EODTECHDIV:IH, MD	16.238	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Systems Engineering	WR	EODTECHDIV:IH, MD	11.026	0.236	Oct 2011	3.500	Oct 2012	2.893	Oct 2013	-		2.893	Continuing	Continuing	Continuing
		Subtotal	27.264	7.989		13.517		11.124		0.000		11.124			
Support (\$ in Million	ıs)			FY 2	2012	FY 2	2013		2014 ase	FY 2		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	Total Cost	Target Value of Contract
Technical Support	C/CPFF	ITT:ARLINGTON, VA	3.641	0.432		0.450		0.505		-			<u> </u>	Continuing	
·		Subtotal	3.641	0.432		0.450		0.505		0.000		0.505			
Test and Evaluation	(\$ in Milli	ons)		FY 2	2012	FY 2	2013		2014 ase	FY 2		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	Total Cost	Target Value of Contract
Developmental Test & Evaluation	WR	Multiple Activities:Not Specified	0.000	2.406	Oct 2011	3.700	Oct 2012	3.037	Oct 2013	-		3.037	0.000	9.143	
Operational Test & Evaluation	WR	NSWC, Activities:Not Specified	0.000	0.200	Oct 2011	0.900	Oct 2012	0.748	Oct 2013	-		0.748	0.000	1.848	
Developmental Test & Evaluation	WR	EODTECHDIV:IH, MD	6.646	0.200	Oct 2011	0.800	Oct 2012	0.617	Oct 2013	-		0.617	Continuing	Continuing	Continuing

PE 0603654N: *JT Service Explosive Ordn Dev* Navy

WR

EODTECHDIV:IH,

Subtotal

MD

1.424

8.070

0.000 Oct 2011

2.806

Operational Test &

Evaluation

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0.000

5.400

0.000

4.402

R-1 Line #54

0.000

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

PE 0603654N: JT Service Explosive Ordn

16.768

4023: VSW MCM/Force Protection UUV

16.768

BA 4: Advanced Component Development & Prototypes (ACD&P)

Project Cost Totals

41.979

12.245

Dev

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	Total Cost	Target Value of Contract
Program Management Support	WR	EODTECHDIV:IH, MD	1.843	0.618	Oct 2011	0.555	Oct 2012	0.460	Oct 2013	-		0.460	Continuing	Continuing	Continuing
Miscellaneous	WR	NSWC, Activities:Not Specified	1.143	0.400	Oct 2011	0.533	Oct 2012	0.277	Oct 2013	-		0.277	Continuing	Continuing	Continuing
DAWDF	Various	Not Specified:Not Specified	0.018	0.000		0.000		0.000		-		0.000	0.000	0.018	
		Subtotal	3.004	1.018		1.088		0.737		0.000		0.737			
													1		T1
		All Prior Years	FY 2	2012	FY 2	2013	FY 2 Ba	2014 ise	FY 2	2014 CO	FY 2014 Total	Cost To	Total Cost	Target Value of Contract	

20.455

Remarks

PE 0603654N: *JT Service Explosive Ordn Dev* Navy

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R-1 Line #54

0.000

Exhibit R-4, RDT&E Schedule Profile: PB 2014 Navy						PATE: April 2013	3	
APPROPRIATION/BUDGET ACTIVITY 319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (AC		OMENCLATUR 4N: <i>JT Service E</i>		PROJECT 4023: VSW MCM/Force Protection UUV				
	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	
3RD GENERATION (NEUTRALIZATION) Revalidate AOA Requirements Validation Development Testing Final Production Decision (Limited)	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 -	
4TH GENERATION (SEARCH, CLASSIFY & ID) Test and Evaluation Production Retroft/Decision Production Retroft/Decision Production Retroft/Decision	A	A				_		
Production Retroni/Decision Production Retrofit/Decision Production Retrofit/Decision Production Decision				•	•	•		
HULS UOES Operational Eval System Revalidate Requirements Testing Final Production Decision (Limited) Preliminary Engineering Change Proposal (PECP) - A ECP Approval/Fleet Retrofits - A	<u> </u>							
Preliminary Engineering Change Proposal (PECP) - B Retrofit Production Decision ECP Approval/Fleet Retrofits- B						A		

PE 0603654N: *JT Service Explosive Ordn Dev* Navy

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

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE PROJECT

1319: Research, Development, Test & Evaluation, Navy

PE 0603654N: JT Service Explosive Ordn 4023: VSW MCM/Force Protection UUV

BA 4: Advanced Component Development & Prototypes (ACD&P)

Dev

Schedule Details

	Sta	Start				
Events by Sub Project	Quarter	Year	Quarter	Year		
Proj 4023						
3RD GENERATION (NEUTRALIZATION)	1	2012	3	2017		
Requirements Validation	1	2012	2	2012		
Development	3	2012	1	2016		
Testing Final 1	1	2016	3	2017		
Production Decision (Limited) 1	3	2017	3	2017		
Title: 4th GENERATION (SEARCH-CLASSIFY & ID)	1	2012	3	2017		
Test & Evaluation	1	2012	4	2016		
Production/Retrofit Decision1	2	2012	2	2012		
Production/Retrofit Decision2	2	2013	2	2013		
Production/Retrofit Decision4	2	2015	2	2015		
Production/Retrofit Decision5	2	2016	2	2016		
Production Decision	3	2017	3	2017		
Title: HULS	1	2012	4	2017		
UOES Operational Eval System	1	2012	4	2017		
Revalidate Requirements	1	2012	2	2012		
Testing Final	1	2012	2	2013		
Production Decision (Limited)	2	2012	2	2012		
Preliminary Engineering Change Proposal (PECP) - A	2	2012	2	2014		
ECP Approval/Fleet Retrofits - A	3	2014	4	2015		
Preliminary Engineering Change Proposal (PECP) - B	4	2014	4	2016		
Retrofit Production Decision	1	2017	1	2017		

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DATE: April 2013 Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE **PROJECT**

PE 0603654N: JT Service Explosive Ordn

1319: Research, Development, Test & Evaluation, Navy 4023: VSW MCM/Force Protection UUV BA 4: Advanced Component Development & Prototypes (ACD&P)

Dev

	Start		End		
Events by Sub Project	Quarter	Year	Quarter	Year	
ECP Approval/Fleet Retrofits - B	1	2017	4	2017	
INCREMENTAL CIP	1	2012	4	2017	

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