

UNCLASSIFIED

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

APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMENCLATURE							
1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>					PE 0603654N: <i>JT Service Explosive Ordn Dev</i>							
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: <i>JT Service Expl Ord Disp System</i>	300.419	17.762	27.536	19.047	-	19.047	13.422	12.648	12.937	13.135	Continuing	Continuing
1317: <i>EOD Diving System</i>	95.023	3.005	4.340	2.607	-	2.607	2.640	4.593	4.699	4.770	Continuing	Continuing
3177: <i>Joint Counter Radio-Controlled IED Elec Warfare</i>	0.000	0.000	4.600	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	4.600
4023: <i>VSW MCM/Force Protection UUV</i>	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

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

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.

UNCLASSIFIED

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

APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603654N: <i>JT Service Explosive Ordn Dev</i>
---	---

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.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: 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			
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												
## The FY 2014 OCO Request will be submitted at a later date												
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) Articles: 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.									4.389	6.150	6.055	
									0	0	0	
Title: HIGH FIDELITY WEAPONS MASS DESTRUCTION (WMD) IDENTIFICATION AND DETECTION Articles: FY 2012 Accomplishments:									4.401	7.702	1.929	
									0	0	0	

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: 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		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
Developed a family of systems to address the capabilities gaps in detection and identification of Weapons Mass Destruction (WMD) threats. FY 2013 Plans: Continue development and testing of systems within a family of systems addressing capability gaps associated with identification and detection of WMD. FY 2014 Plans: Continue to develop Weapons Mass Destruction (WMD) family of systems focused on development of the Explosives Identification Kit (ID).				
Title: EOD ROBOTICS Articles: FY 2012 Accomplishments: Continued development of Advanced EOD Robot System and developed improved capabilities for existing EOD robot configurations. FY 2013 Plans: Continue development of a family of Advanced EOD Robotic of Systems to fill capability gaps and develop improved capabilities for existing EOD Robotic platforms. FY 2014 Plans: Continue development of Advanced EOD Robotic Systems Increments 1,2 and 3 to fill capability gap and to replace existing EOD Robotic Platforms.		5.063 0	11.547 0	9.633 0
Title: TCM AN/PLT-XXX SYSTEMS Articles: FY 2012 Accomplishments: Continued project development capabilities to determine the state of (or neutralize) Electronic Safe/Arm Fuzes for EOD purpose. FY 2013 Plans: Continue improvements to loadsets for fielded EOD TCM systems based upon changing threats and continue monitoring and development of capabilities to determine the state of and defeat electronic safe-arm fuzes. FY 2014 Plans: Continue upgrades to EOD TCM loadsets to account for continually changing threats.		1.741 0	2.137 0	1.430 0
Title: UNMANNED AERIAL SYSTEMS		0.668	0.000	0.000

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy										DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>					R-1 ITEM NOMENCLATURE PE 0603654N: <i>JT Service Explosive Ordn Dev</i>			PROJECT 0377: <i>JT Service Expl Ord Disp System</i>			

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
Articles:		0		
<i>FY 2012 Accomplishments:</i> Continued development of Unmanned Aerial Systems Capabilities for the EOD community.				
Articles:		1.500 0	0.000	0.000
<i>FY 2012 Accomplishments:</i> 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)											
Line Item	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
• OPN/5509: <i>EOD Equipment (VN075)</i>	2.500	0.000	8.080		8.080	22.822	12.676	4.966	7.281	0.000	65.628
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 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.											

UNCLASSIFIED

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 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	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 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
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 (\$ 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
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			

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>						R-1 ITEM NOMENCLATURE PE 0603654N: <i>JT Service Explosive Ordn Dev</i>						PROJECT 0377: <i>JT Service Expl Ord Disp System</i>			
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
Program Management 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			
			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			300.419	17.762		27.536		19.047		0.000		19.047			
Remarks															

UNCLASSIFIED

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

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

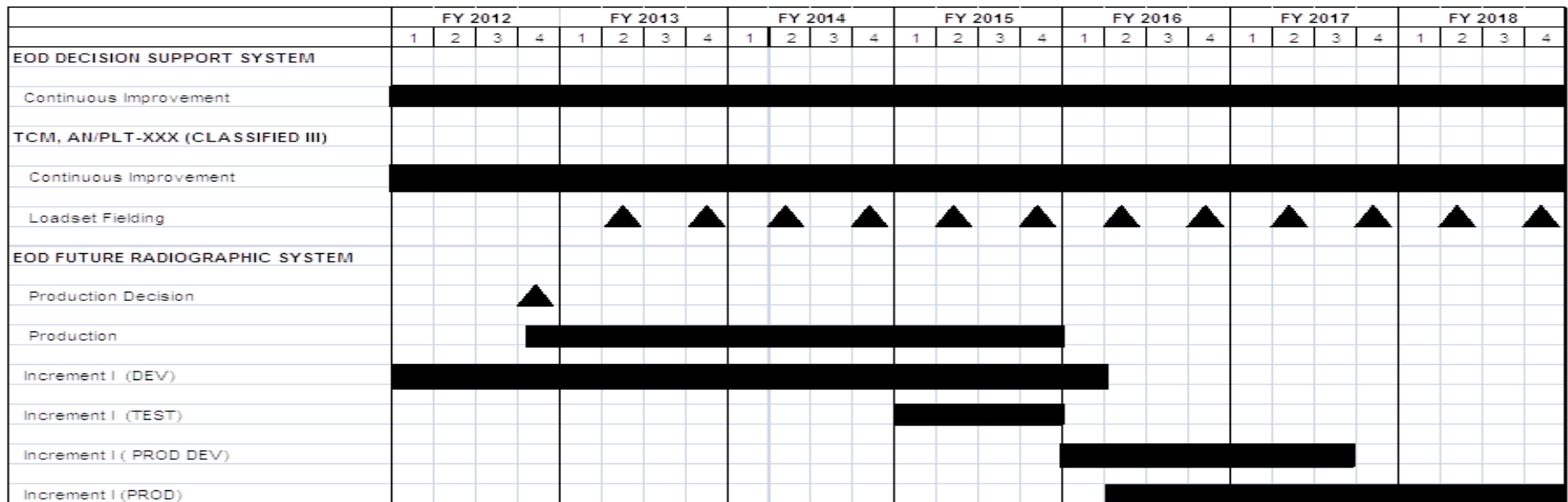
1319: *Research, Development, Test & Evaluation, Navy*
BA 4: *Advanced Component Development & Prototypes (ACD&P)*

R-1 ITEM NOMENCLATURE

PE 0603654N: *JT Service Explosive Ordn Dev*

PROJECT

0377: *JT Service Expl Ord Disp System*



UNCLASSIFIED

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

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

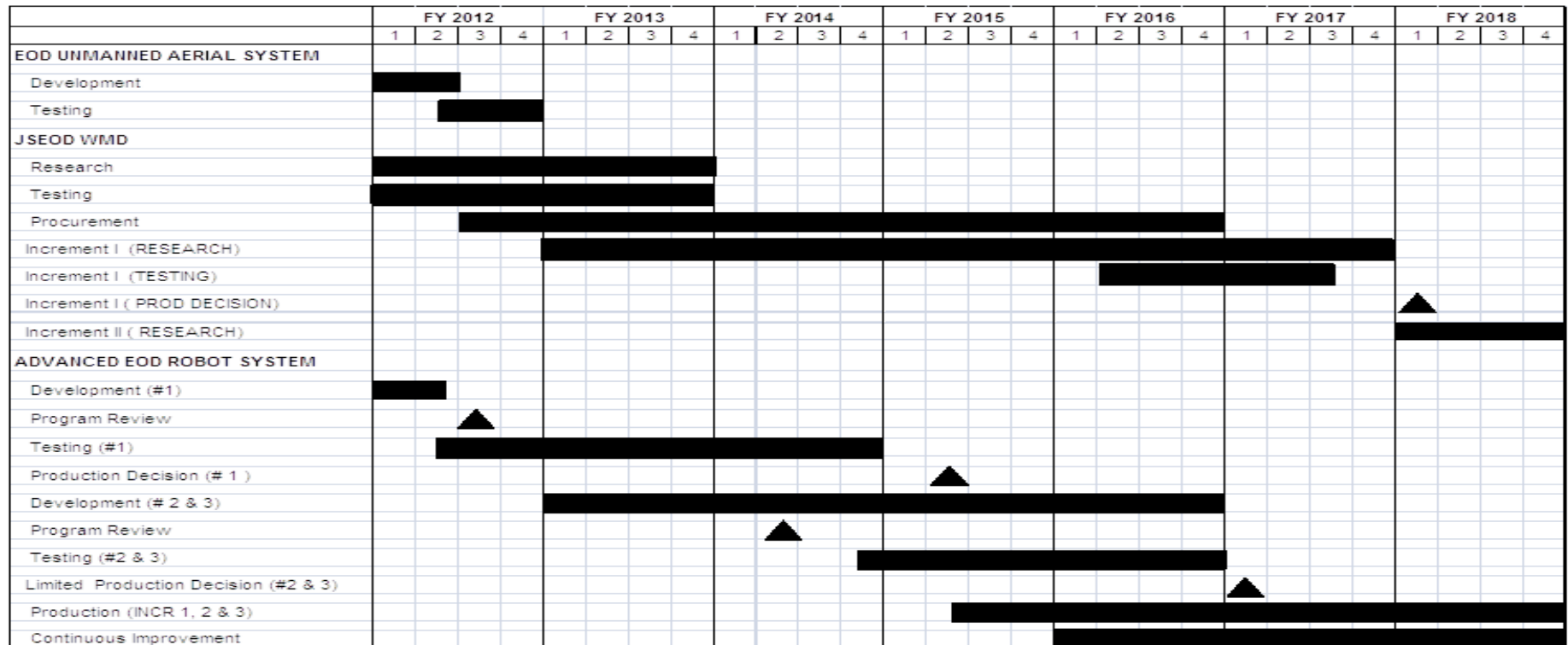
1319: Research, Development, Test & Evaluation, Navy
BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

PE 0603654N: JT Service Explosive Ordn
Dev

PROJECT

0377: JT Service Expl Ord Disp System



UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603654N: <i>JT Service Explosive Ordn Dev</i>	PROJECT 0377: <i>JT Service Expl Ord Disp System</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 0377				
Title: EOD DECISION SUPPORT SYSTEM	1	2012	4	2018
Continuous Improvement 1	1	2012	4	2018
Title: TCM, AN/PLT-XXX (CLASSIFIED III)	1	2012	4	2018
Continuous 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

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: 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
		Start		End
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

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: 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			
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												
## The FY 2014 OCO Request will be submitted at a later date												
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 Articles:									1.630	2.118	1.056	
									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 Articles:									1.125	1.461	0.901	
									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).												

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: 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			
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2012	FY 2013	FY 2014
FY 2012 Accomplishments: Conducted testing of diver held sensors. As part of a Continuous Improvement Program (CIP) developed and tested technologies for integration into DHINS and UIS.											
FY 2013 Plans: Initiate an acquisition initiative to field the next generation EOD and UCMC diver based sensor and navigation system. Continue to upgrade DHINS with fleet recommended engineering changes.											
FY 2014 Plans: Initiate acquisition program to replace UIS based on Analysis of Alternatives (AOA) conducted in FY13. Continue CIP integration with DHINS.											
Title: ADVANCED FIRING SYSTEM									0.250	0.761	0.650
Articles:									0	0	0
Description: Develops new acquisitions and product improvements to existing systems for below and above water neutralization of underwater threats to support EOD and MDSU operations.											
FY 2012 Accomplishments: Conducted Analysis Of Alternative (AOA). Developed improvements to AFS to increase system performance and capabilities.											
FY 2013 Plans: Continue implementing upgrades in accordance with OPNAV approved requirements and validate system performance.											
FY 2014 Plans: Field miniaturized AFCT to meet approved inventory objectives.											
Accomplishments/Planned Programs Subtotals									3.005	4.340	2.607
C. Other Program Funding Summary (\$ in Millions)											
Line Item	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
• OPN/0977a: Underwater EOD Program (Cost Code UQ034)	4.800	5.000	6.175		6.175	6.292	4.002	3.652	1.540	0.000	42.561
• 0340: PANMC	0.505	0.326	0.000		0.000	0.000	1.593	0.000	0.000	0.000	2.640
• OPN/0977b: UW EOD (UQ036)	1.200	0.000	2.000		2.000	1.200	1.700	2.400	3.083	0.000	11.583
Remarks											

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603654N: <i>JT Service Explosive Ordn Dev</i>	PROJECT 1317: <i>EOD Diving System</i>
<u>D. Acquisition Strategy</u> 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.		
<u>E. Performance Metrics</u> Research and Develop technologies for the design of Diver Safety Systems, Advanced Diver Integrated Sensors and Advanced Underwater Firing Systems used to render safe, recover, exploit, and dispose of sea limpet mines and unexploded ordnance.		

UNCLASSIFIED

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 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	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 Complete	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			

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>						R-1 ITEM NOMENCLATURE PE 0603654N: <i>JT Service Explosive Ordn Dev</i>						PROJECT 1317: <i>EOD Diving System</i>			
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
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	0.613		0.944		0.572		0.000		0.572			
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
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 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			95.023	3.005		4.340		2.607		0.000		2.607			
Remarks															

UNCLASSIFIED

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

DATE: April 2013

[illegible]

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*[illegible]

UNCLASSIFIED

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

Schedule Details

Events by Sub Project	Start		End	
	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

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>					R-1 ITEM NOMENCLATURE PE 0603654N: <i>JT Service Explosive Ordn Dev</i>				PROJECT 3177: <i>Joint Counter Radio-Controlled IED Elec Warfare</i>			
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: <i>Joint Counter Radio-Controlled IED Elec Warfare</i>	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 ^{##} The FY 2014 OCO Request will be submitted at a later date												
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 Articles:										0.000	4.600 0	0.000
FY 2013 Plans: OCO:OCO: JOINT CREW - New techniques and threat loads will be needed to support delivered systems in order to address in-theater 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												
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.												

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603654N: <i>JT Service Explosive Ordn Dev</i>	PROJECT 3177: <i>Joint Counter Radio-Controlled IED Elec Warfare</i>
E. Performance Metrics Threat prototyping, characterization, procurement, and sustainment of threats for testing, coalition coordination and support, generation of EME scripts for testing, protocol development.		

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy													DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>							R-1 ITEM NOMENCLATURE PE 0603654N: <i>JT Service Explosive Ordn Dev</i>					PROJECT 3177: <i>Joint Counter Radio-Controlled IED Elec Warfare</i>			

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
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	

	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	0.000	4.600	0.000	0.000	0.000	0.000	4.600	

Remarks

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: 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 4023: VSW MCM/Force Protection UUV			
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
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
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												
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, expenditary 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												

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy							DATE: April 2013				
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>				R-1 ITEM NOMENCLATURE PE 0603654N: <i>JT Service Explosive Ordn Dev</i>			PROJECT 4023: <i>VSW MCM/Force Protection UUV</i>				
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)							FY 2012	FY 2013	FY 2014		
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 requirements. 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)											
<u>Line Item</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u> <u>Base</u>	<u>FY 2014</u> <u>OCO</u>	<u>FY 2014</u> <u>Total</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• OPN/0977: <i>Underwater EOD Program (Cost Code UQ034)</i>	6.271	17.874	14.400		14.400	12.552	22.674	23.885	25.188	0.000	131.194
Remarks											
D. Acquisition Strategy											
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											

UNCLASSIFIED

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

UNCLASSIFIED

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 4023: VSW MCM/Force Protection UUV					
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	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 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
Technical Support	C/CPFF	ITT:ARLINGTON, VA	3.641	0.432	Oct 2011	0.450	Oct 2012	0.505	Oct 2013	-		0.505	Continuing	Continuing	Continuing
Subtotal			3.641	0.432		0.450		0.505		0.000		0.505			
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
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
Operational Test & Evaluation	WR	EODTECHDIV:IH, MD	1.424	0.000	Oct 2011	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Subtotal			8.070	2.806		5.400		4.402		0.000		4.402			

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>							R-1 ITEM NOMENCLATURE PE 0603654N: <i>JT Service Explosive Ordn Dev</i>					PROJECT 4023: <i>VSW MCM/Force Protection UUV</i>			

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
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			

	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	41.979	12.245		20.455		16.768		0.000		16.768			

Remarks

UNCLASSIFIED

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

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

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

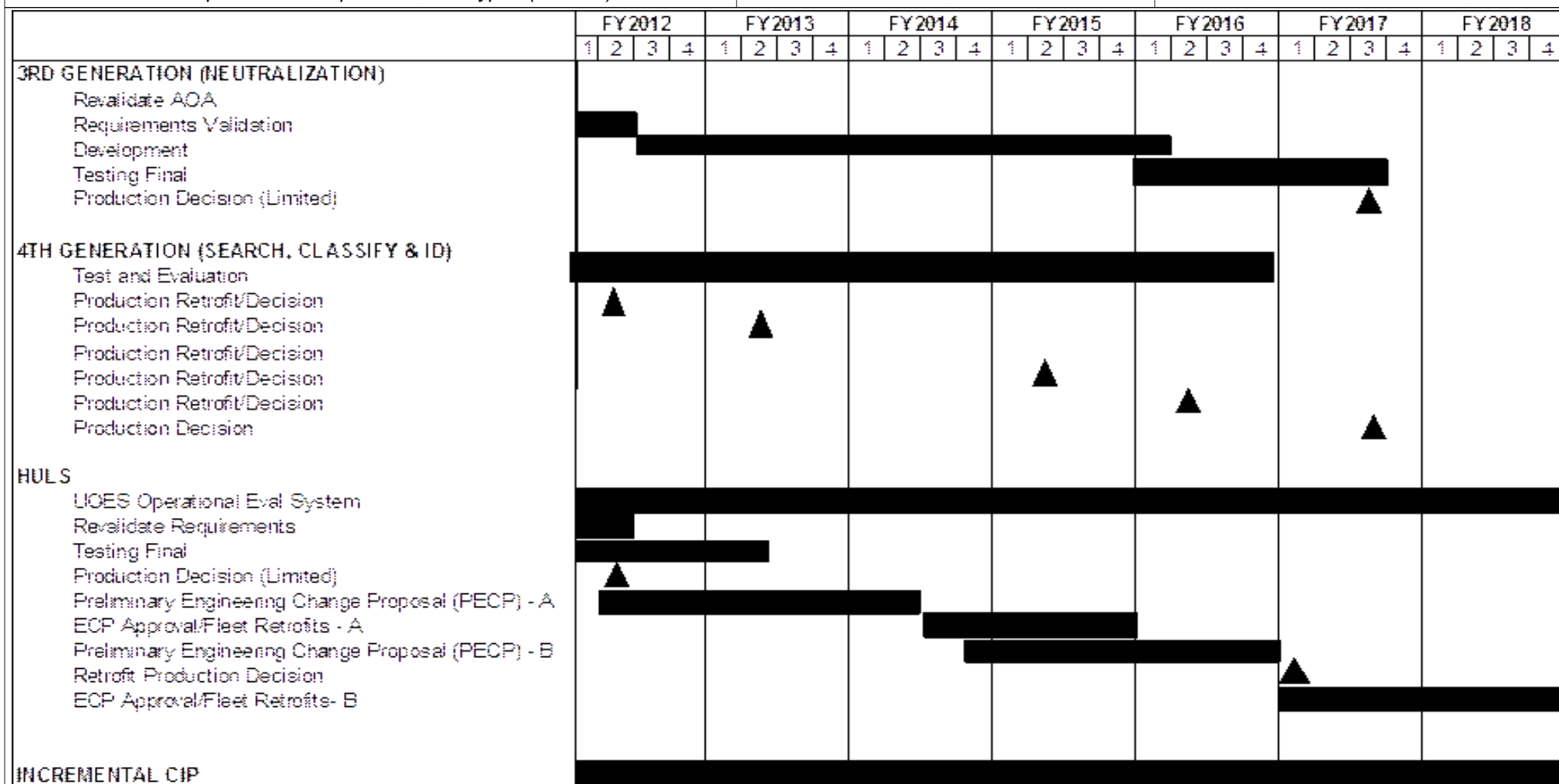
R-1 ITEM NOMENCLATURE

PE 0603654N: JT Service Explosive Ordn

Dev

PROJECT

4023: VSW MCM/Force Protection UUV



UNCLASSIFIED

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

Schedule Details

Events by Sub Project	Start		End	
	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

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: 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 4023: VSW MCM/Force Protection UUV
		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