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Exhibit R-2, RDT&E Budget Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0604653N / JT Cntr Radio Controlled IED Elec War (JCREW)
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COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
Total Program Element	213.604	14.987	3.790	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	232.381
3177: <i>Joint Counter Radio-Controlled IED Elec Warfare</i>	213.604	14.987	3.790	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	232.381

A. Mission Description and Budget Item Justification

Provides for the research and development of EW systems, equipment, procedures, and tactical aids for all military services against the threat posed by Radio-Controlled Improvised Explosive Devices (RCIEDs) and to prevent initiation of RCIEDs across the spectrum of Joint military operations. Utilize Joint requirements to provide a system of systems approach for a suite of equipment for mounted, dismounted, and fixed site operations; provide Joint CREW development of equipment, procedures, and tactical aids to make rapid improvements to performance, supportability and affordability, while maintaining pace with an evolving global threat.

PE 0604653N consolidated into PE 0603654N FY 2017 and out.

B. Program Change Summary (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Previous President's Budget	15.197	3.817	5.444	-	5.444
Current President's Budget	14.987	3.790	0.000	-	0.000
Total Adjustments	-0.210	-0.027	-5.444	-	-5.444
• Congressional General Reductions	-	-0.027			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.210	0.000			
• Program Adjustments	0.000	0.000	-5.444	-	-5.444

Change Summary Explanation

PE 0604653N consolidated into PE 0603654N FY 2017 and out.

Technical: Not applicable.

Schedule: Not applicable.

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy										Date: February 2016		
Appropriation/Budget Activity 1319 / 4					R-1 Program Element (Number/Name) PE 0604653N / JT Cntr Radio Controlled IED Elec War (JCREW)				Project (Number/Name) 3177 / Joint Counter Radio-Controlled IED Elec Warfare			
COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
3177: Joint Counter Radio-Controlled IED Elec Warfare	213.604	14.987	3.790	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	232.381
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Provides for the research and development of EW systems, equipment, procedures, and tactical aids for all military services against the threat posed by Radio-Controlled Improvised Explosive Devices (RCIEDs) and to prevent initiation of RCIEDs across the spectrum of Joint military operations. Utilizes Joint requirements to provide a System of Systems (SoS) approach for a suite of equipment for mounted, dismounted, and fixed site operations; provides for Joint Counter Radio Controlled Improvised Explosive Device Electronic Warfare (JCREW) system development and equipment, procedures, and tactical aids to make rapid improvements to performance, supportability and affordability, while maintaining pace with a evolving global threat.

The JCREW system, Increment 1 Block 1 (I1B1) is the next generation of counter RCIED systems. This family of systems includes fixed site, mounted and dismounted units, which provide countermeasures against the global RCIED threat. Key system design features include significant performance increases over current legacy systems, a modular open-architecture system to address current and future advanced threats, robust information assurance and security, and is net-capable for improved Communications and Control (C2). JCREW I1B1 supports global deployment and sustainment for all combatant commands providing increased protection to Warfighter against the evolving worldwide RCIED threats.

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

	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Title: Joint Counter Radio-Controlled IED Elec Warfare	14.987	3.790	0.000	0.000	0.000
Articles:	-	-	-	-	-
Description: Supports the effort required for the design, engineering, development, fabrication and test of contractor's development models for in-house verification and validation for governmental developmental testing for JCREW System of Systems (SoS) to include the Engineering Manufacturing and Development (EMD) Phase. The JCREW SoS approach includes three distinct capabilities that shall be developed and will utilize common component, software, and hardware solutions for an open, flexible, and compatible system design approach that is modular. These capabilities are: mobile dismounted operations, mobile ground, combat systems (mounted) and semi-permanent geographical area (fixed) systems.					
FY 2015 Accomplishments:					

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Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0604653N / JT Cntr Radio Controlled IED Elec War (JCREW)	Project (Number/Name) 3177 / Joint Counter Radio-Controlled IED Elec Warfare

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Conducted Initial Operational Test and Evaluation (IOT&E) and completed productionization Engineering Change Proposal (ECP). FY 2016 Plans: Initiate Technology Refresh and transition of technologies developed under ONR Technology Transition Agreements (TTAs). FY 2017 Base Plans: N/A FY 2017 OCO Plans: N/A					
Accomplishments/Planned Programs Subtotals	14.987	3.790	0.000	0.000	0.000

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
• OPN/5509: <i>Explosive Ordnance Disposal Equip</i>	107.466	2.929	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	214.325

Remarks
PE 0604653N consolidated into PE 0603654N FY17 and out.

D. Acquisition Strategy
FY15 LRIP will support IOC, setup and maintain warm Production Line and OEM Depot Line until FRP decision in FY16. FRP Production Line Start Up and Ramp Up and FRP Organic Depot Line Startup and Ramp Up in FY17. Spares support and OEM Depot will be utilized during LRIP phase. Establishment of Organic Depot capability during LRIP phase in support of FRP Decision Review with Weapons System Support Center Mechanicsburg as Primary Inventory Control Activity (PICA). Full Rate Production contract will be full and open competition using LRIP final Tech Data Package (TDP) with unlimited data rights.

E. Performance Metrics
LRIP contract awarded September 2015. Validated Technical Data Package (TDP) for Full Rate Production (FRP). Request for Proposal (RFP) will release in June 2016.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Navy **Date:** February 2016

Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0604653N / JT Cntr Radio Controlled IED Elec War (JCREW)	Project (Number/Name) 3177 / Joint Counter Radio-Controlled IED Elec Warfare
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Product Development (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Primary Hardware Development	Various	Exelis : NJ	12.137	0.000		0.000		0.000		-		0.000	0.000	12.137	Continuing
Software Development	Various	Exelis : NJ	10.515	0.000		0.000		0.000		-		0.000	0.000	10.515	Continuing
Systems Engineering	Various	Exelis : NJ	7.200	0.000		0.000		0.000		-		0.000	0.000	7.200	Continuing
System Integration	Various	Exelis : NJ	3.965	0.000		0.000		0.000		-		0.000	0.000	3.965	Continuing
Primary Hardware Development	Various	NGC : CA	29.703	1.015	Nov 2014	0.303	Nov 2015	0.000		-		0.000	0.000	31.021	Continuing
Software Development	Various	NGC : CA	16.129	0.505	Nov 2014	0.152	Nov 2015	0.000		-		0.000	0.000	16.786	Continuing
Systems Engineering	Various	NGC : CA	15.223	0.379	Nov 2014	0.152	Nov 2015	0.000		-		0.000	0.000	15.754	Continuing
ILS	Various	NGC : CA	7.626	0.000		0.000		0.000		-		0.000	0.000	7.626	Continuing
System Integration	Various	NGC : CA	8.816	0.468	Nov 2014	0.152	Nov 2015	0.000		-		0.000	0.000	9.436	Continuing
Loadset Development	Various	NGC : CA	5.282	0.000		0.000		0.000		-		0.000	0.000	5.282	Continuing
Subtotal			116.596	2.367		0.759		0.000		-		0.000	0.000	119.722	-

Remarks
Contract type is hybrid CPIF and CPAF.

Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Loadset Development	FFRDC	JHU/APL, MITRE : Laurel, MD	4.212	0.922	Nov 2014	0.500	Nov 2015	0.000		-		0.000	0.000	5.634	Continuing
Systems Engineering	WR	NSWC : Various	5.962	1.854	Nov 2014	1.606	Nov 2015	0.000		-		0.000	0.000	9.422	Continuing
Program Management Support	WR	IHEODTD : Indian Head, MD	12.446	1.317	Nov 2014	0.431	Nov 2015	0.000		-		0.000	0.000	14.194	Continuing
System Integration	WR	NSWC : Various	2.313	0.724	Nov 2014	0.000		0.000		-		0.000	0.000	3.037	Continuing
Training Development	C/CPFF	SDI, GOV'T SOLUTIONS : LaPlata, MD	4.403	0.000		0.000		0.000		-		0.000	0.000	4.403	Continuing

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Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Integrated Logistics Support	WR	NSWC : Various	10.432	1.976	Nov 2014	0.000		0.000		-		0.000	0.000	12.408	Continuing
Configuration Management	WR	NSWC : Various	3.971	0.593	Nov 2014	0.000		0.000		-		0.000	0.000	4.564	Continuing
Technical Data	WR	NSWC : Various	6.156	0.889	Nov 2014	0.000		0.000		-		0.000	0.000	7.045	Continuing
Subtotal			49.895	8.275		2.537		0.000		-		0.000	0.000	60.707	-

Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Development Test & Evaluation	WR	NSWC : Various	33.133	0.000	Dec 2014	0.000		0.000		-		0.000	0.000	33.133	Continuing
Operational Test & Evaluation	MIPR	Various : Various	8.675	3.553	Dec 2014	0.000		0.000		-		0.000	0.000	12.228	Continuing
Subtotal			41.808	3.553		0.000		0.000		-		0.000	0.000	45.361	-

Management Services (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Program Management Support	C/CPFF	Cydecor : Various	0.000	0.592	Nov 2014	0.250	Nov 2015	0.000		-		0.000	0.000	0.842	Continuing
Miscellaneous	WR	NSWC : Various	5.305	0.200	Nov 2014	0.244	Nov 2015	0.000		-		0.000	0.000	5.749	Continuing
Subtotal			5.305	0.792		0.494		0.000		-		0.000	0.000	6.591	-

			Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			213.604	14.987	3.790	0.000	-	0.000	0.000	232.381	-

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2017 Navy		Date: February 2016
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0604653N / JT Cntr Radio Controlled IED Elec War (JCREW)	Project (Number/Name) 3177 / Joint Counter Radio-Controlled IED Elec Warfare

	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021			
	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	4
JCREW I1B1																												
IOT&E																												
LRIP Contact																												
TECH REFRESH																												
Tech Refresh Analysis of Alternatives																												
Tech Refresh Development																												
CREW MEU																												
Government Developmental Testing (First Article)																												
Production																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2017 Navy		Date: February 2016
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0604653N / JT Cntr Radio Controlled IED Elec War (JCREW)	Project (Number/Name) 3177 / Joint Counter Radio-Controlled IED Elec Warfare

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 3177				
JCREW I1B1	1	2015	4	2016
IOT&E	2	2015	3	2015
LRIP Contract	4	2015	4	2016
TECHNOLOGY REFRESH (I)	1	2016	4	2016
Tech Refresh Analysis of Alternatives (I)	1	2016	3	2016
Tech Refresh Development (I)	4	2016	4	2016
CREW MEU	1	2015	4	2016
Government Developmental Testing (First Article)	1	2015	3	2015
Production	4	2015	4	2016

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