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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Navy	DATE: April 2013
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APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>System Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604274N: <i>Next Generation Jammer (NGJ)</i>
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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	195.725	160.793	187.024	257.796	-	257.796	328.746	464.150	506.784	558.807	407.600	3,067.425
0557: <i>Next Generation Jammer</i>	195.725	160.793	187.024	257.796	-	257.796	328.746	464.150	506.784	558.807	407.600	3,067.425

MDAP/MAIS Code(s): P445

[#] 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 project develops new technology in a Next Generation Jammer (NGJ) capability system, with increased electronic radiation power generation to replace the existing ALQ-99 Tactical Jamming System. NGJ is required to keep pace with threat weapons systems advances and continuous expansion of the Airborne Electronic Attack (AEA) mission area. NGJ capabilities will address AEA capability gaps, AEA sufficiency gaps, and address ALQ-99 shortfalls in scalability, flexibility, supportability, interoperability, availability, and capability. NGJ will utilize an adaptable, modular, and open architecture philosophy to combat the increasing capability gap and enable future growth at a reduced operational and sustainment cost.

<u>B. Program Change Summary (\$ in Millions)</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014 Base</u>	<u>FY 2014 OCO</u>	<u>FY 2014 Total</u>
Previous President's Budget	170.910	187.024	269.916	-	269.916
Current President's Budget	160.793	187.024	257.796	-	257.796
Total Adjustments	-10.117	0.000	-12.120	-	-12.120
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-5.938	0.000			
• SBIR/STTR Transfer	-4.179	0.000			
• Program Adjustments	0.000	0.000	-64.106	-	-64.106
• Rate/Misc Adjustments	0.000	0.000	51.986	-	51.986

Change Summary Explanation

Technical: Not applicable.

Schedule: Since the previous President's Budget, NGJ has transitioned to an incremental approach, eliminating the requirement for additional milestones under the block approach. Specifically, Milestone B (Block 2), Technology Demonstration Awards (Blocks 2 & 3) and Engineering & Manufacturing Development (Block

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2) have been removed from the current R-4 and R-4A exhibits. Engineering Milestones have been added to the R-4 and R-4A exhibits to provide additional detail. System Functional Review is scheduled for 2nd QTR 2014. Preliminary Design Review is scheduled for 1st QTR 2015. Critical Design Review is scheduled for 3rd QTR 2016. Prototype Demonstration was removed as an individual event. This will be conducted as part of the Technology Demonstration Phase.		

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)					R-1 ITEM NOMENCLATURE PE 0604274N: Next Generation Jammer (NGJ)				PROJECT 0557: Next Generation Jammer			
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
0557: Next Generation Jammer	195.725	160.793	187.024	257.796	-	257.796	328.746	464.150	506.784	558.807	407.600	3,067.425
Quantity of RDT&E Articles	0	0	0	0		0	9	0	4	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												
This project develops new technology in a Next Generation Jammer (NGJ) capability required to replace the existing ALQ-99 Tactical Jamming System. NGJ is required to keep pace with threat weapons systems advances and continuous expansion of the Airborne Electronic Attack (AEA) mission area. NGJ capabilities will address AEA capability gaps, AEA sufficiency gaps and address ALQ-99 shortfalls in scalability, flexibility, supportability, interoperability, availability, and capability. NGJ will utilize an adaptable, modular, and open architecture philosophy to combat the increasing capability gap and enable future growth at a reduced operational sustainment cost.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)										FY 2012	FY 2013	FY 2014
Title: Next Generation Jammer Articles: FY 2012 Accomplishments: Continue technology maturation efforts, release Technology Development Request for Proposal, and develop products in support of Milestone A decision. FY 2013 Plans: Complete Technology Maturation efforts and achieve Milestone A decision. Award Technology Development contracts. FY 2014 Plans: Continue Technology Development Efforts in support of FY15 Milestone B decision. Perform risk reduction activities necessary to prepare for a NGJ Increment 2 Technology Development phase including technology studies, breadboard /demonstrator development and testing in laboratory and relevant environments.										159.693	186.374	257.796
										0	0	0
Title: Capability Development Document (CDD) Articles: FY 2012 Accomplishments: Update draft CDD and continue routing through Joint Capabilities Integration Development System process. FY 2013 Plans:										1.100	0.650	0.000
										0	0	

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)										FY 2012	FY 2013	FY 2014
Obtain CDD approval.												
Accomplishments/Planned Programs Subtotals										160.793	187.024	257.796
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	
• APN/0591: Next Generation Jammer	0.000	0.000	0.000		0.000	0.000	0.000	6.300	222.496	3,985.700	4,214.496	
• MCN/00620258: Next Generation Jammer	0.000	0.000	0.000		0.000	0.000	4.400	0.000	0.000	0.000	4.400	
• MCN/64482044: Construction (Planning and design)	0.000	0.000	0.110		0.110	0.110	0.000	0.000	0.000	0.000	0.220	
• APN/0605: Spares and Repair Parts	0.000	0.000	0.000		0.000	0.000	0.000	0.000	31.575	74.600	106.175	
Remarks												
D. Acquisition Strategy												
Next Generation Jammer is designated a Pre-Major Defense Acquisition Program (MDAP), with Pre-MDAP Program Number 445, and activity will focus on technology maturation to include technology development strategies in preparation for Milestone A in FY13 and Milestone B in FY15.												
E. Performance Metrics												
To obtain sufficient technology maturation and technology demonstration to obtain favorable Milestone A and Milestone B decisions for continued program development.												

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY						R-1 ITEM NOMENCLATURE						PROJECT			
1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)						PE 0604274N: Next Generation Jammer (NGJ)						0557: Next Generation Jammer			
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	TBD	Various:Various	0.000	0.000		112.828	Jul 2013	174.652	Dec 2013	-		174.652	1,104.602	1,392.082	1,389.657
Primary Hardware Development	C/CPFF	ITT:Clifton, NJ	35.737	25.965	Apr 2012	1.475	Dec 2012	0.000		-		0.000	0.000	63.177	63.177
Primary Hardware Development	C/CPFF	BAE:Nashua, NH	33.985	26.504	Apr 2012	0.000		0.000		-		0.000	0.000	60.489	60.489
Primary Hardware Development	C/CPFF	Raytheon:El Segundo, CA	34.219	25.721	Apr 2012	2.600	Dec 2012	0.000		-		0.000	0.000	62.540	62.540
Primary Hardware Development	C/CPFF	Northrop Grumman:Bethpage, NY	35.218	24.716	Apr 2012	1.521	Dec 2012	0.000		-		0.000	0.000	61.455	61.455
Primary Hardware Development	SS/CPFF	Sparta, Inc.:Lake Forest, CA	1.245	0.000		0.000		0.000		-		0.000	0.000	1.245	1.245
Primary Hardware Development	SS/CPFF	Northrop Grumman Space & Mission Systems Corp.:Herndon, VA	1.765	0.000		0.000		0.000		-		0.000	0.000	1.765	1.765
Studies & Analysis (Non-FFRDC)	SS/CPFF	Mantech Systems Engineering Corp.:Fairfax, VA	1.571	0.000		0.750	Dec 2012	0.582	Dec 2013	-		0.582	3.000	5.903	5.903
Studies & Analysis (Non-FFRDC)	Various	Various:Various	1.541	1.612	Dec 2011	2.070	Nov 2012	1.281	Nov 2013	-		1.281	6.000	12.504	12.504
Systems Engineering	WR	NAWCAD:Patuxent River, MD	16.741	16.591	Nov 2011	19.148	Dec 2012	19.380	Nov 2013	-		19.380	256.254	328.114	
Systems Engineering	WR	NAWCWD:Pt. Mugu, CA	3.472	11.435	Nov 2011	11.762	Dec 2012	11.837	Nov 2013	-		11.837	155.726	194.232	
Systems Engineering	WR	NSWC Crane:Crane, IN	9.017	4.754	Dec 2011	4.882	Dec 2012	6.000	Nov 2013	-		6.000	82.863	107.516	
Systems Engineering	WR	NSWC Dahlgren:Dahlgren, VA	0.000	1.097	Dec 2011	0.846	Dec 2012	0.870	Nov 2013	-		0.870	15.066	17.879	
Systems Engineering	SS/CPFF	Johns Hopkins University Applied	5.341	4.897	Dec 2011	5.757	Apr 2013	5.930	Dec 2013	-		5.930	26.634	48.559	48.559

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Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
		Physics Lab:Laurel, MD													
Systems Engineering	WR	Naval Research Laboratory:Washington, DC	0.000	0.729	Dec 2011	0.775	Dec 2012	0.803	Nov 2013	-		0.803	6.000	8.307	
Systems Engineering	SS/FFP	The Boeing Company:St. Louis, MO	0.000	4.609	May 2012	7.000	Mar 2013	9.500	Nov 2013	-		9.500	67.260	88.369	88.369
Systems Engineering	Various	Various:Various	8.433	4.078	Dec 2011	7.388	Apr 2013	7.453	Nov 2013	-		7.453	70.467	97.819	99.783
Aircraft Integration	WR	NAWCWD:China Lake, CA	0.000	3.624	Dec 2011	3.713	Dec 2012	14.824	Nov 2013	-		14.824	200.924	223.085	
SBIR Assessment	SS/FFP	Various:Various	0.000	0.750	Mar 2012	1.500	Apr 2013	2.000	Dec 2013	-		2.000	0.000	4.250	4.250
Subtotal			188.285	157.082		184.015		255.112		0.000		255.112	1,994.796	2,779.290	
Remarks Large Aircraft Integration increase from FY13 to FY14 due to additional integration support required following Technology Demonstration Contract Award.															
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
Eng& Tech Svc (Non FFRDC)	SS/FFP	NSMA:Arlington, VA	2.821	1.434	Dec 2011	0.000		0.000		-		0.000	0.000	4.255	4.255
Eng& Tech Svc (Non FFRDC)	Various	Various:Various	4.419	2.010	Dec 2011	2.659	Dec 2012	2.393	Dec 2013	-		2.393	12.000	23.481	23.481
Subtotal			7.240	3.444		2.659		2.393		0.000		2.393	12.000	27.736	27.736

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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	Various:Various	0.200	0.200	Dec 2011	0.206	Dec 2012	0.185	Dec 2013	-		0.185	1.100	1.891	
Travel	WR	Various:Various	0.000	0.067	Dec 2011	0.144	Dec 2012	0.106	Dec 2013	-		0.106	0.000	0.317	
Subtotal			0.200	0.267		0.350		0.291		0.000		0.291	1.100	2.208	

	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	195.725	160.793	187.024	257.796	0.000	257.796	2,007.896	2,809.234	

Remarks

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PE 0604274N: *Next Generation Jammer (NGJ)*
Navy

R-1 Line #97

R-1 ITEM NOMENCLATURE

PE 0604274N: *Next Generation Jammer (NGJ)*

0557: *Next Generation Jammer*

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

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

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

R-1 ITEM NOMENCLATURE

PE 0604274N: *Next Generation Jammer*
(NGJ)

PROJECT

0557: *Next Generation Jammer*

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Next Generation Jammer</i>				
Acquisition Milestones: Milestones: IPR DAB 1	3	2012	3	2012
Acquisition Milestones: Milestones: Milestone A	3	2013	3	2013
Acquisition Milestones: Milestones: Pre-EMD Review	2	2015	2	2015
Acquisition Milestones: Milestones: Milestone B	4	2015	4	2015
Acquisition Milestones: Milestones: IPR DAB 2	2	2017	2	2017
Acquisition Milestones: Milestones: Milestone C	2	2018	2	2018
Systems Development: Hardware Development: Technology Maturation	1	2012	3	2013
Systems Development: Hardware Development: Technology Development	3	2013	4	2015
Systems Development: Hardware Development: Engineering & Manufacturing Development	4	2015	4	2017
Systems Development: Hardware Development: Engineering Development Model Deliveries	4	2017	4	2018
Test & Evaluation: Technical Evaluation: NGJ Test & Evaluation Master Plan -1	3	2014	3	2014
Test & Evaluation: Technical Evaluation: Early Operational Assesment	1	2015	1	2015
Test & Evaluation: Technical Evaluation: Integrated Testing	3	2016	4	2017
Test & Evaluation: Technical Evaluation: NGJ Test & Evaluation Master Plan -2	3	2017	3	2017
Engineering Milestones: Reviews: System Readiness Review-1	2	2012	2	2012
Engineering Milestones: Reviews: System Readiness Review-2	4	2013	4	2013
Engineering Milestones: Reviews: Integrated Baseline Review-1	1	2014	1	2014
Engineering Milestones: Reviews: System Functional Review	2	2014	2	2014
Engineering Milestones: Reviews: Preliminary Design Review	1	2015	1	2015
Engineering Milestones: Reviews: Integrated Baseline Review-2	2	2016	2	2016

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy				DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)		R-1 ITEM NOMENCLATURE PE 0604274N: Next Generation Jammer (NGJ)		PROJECT 0557: Next Generation Jammer	
		Start		End	
Events by Sub Project		Quarter	Year	Quarter	Year
Engineering Milestones: Reviews: Critical Design Review		3	2016	3	2016
Production Milestones: Contract Awards: Technology Development Contract Award		3	2013	3	2013
Production Milestones: Contract Awards: Engineering & Manufacturing Development Contract Award		4	2015	4	2015
Production Milestones: Contract Awards: Low Rate Initial Production 1 RDTEN Contract Award		3	2018	3	2018