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**Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy** **Date:** March 2014

<b>Appropriation/Budget Activity</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy / BA 5: System Development &amp; Demonstration (SDD)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0604274N / <i>Next Generation Jammer (NGJ)</i>
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COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	350.277	153.369	157.796	246.856	-	246.856	471.805	509.078	562.830	328.539	1,263.333	4,043.883
0557: <i>Next Generation Jammer</i>	350.277	153.369	157.796	246.856	-	246.856	453.805	493.078	550.830	303.539	262.629	2,972.179
3380: <i>Next Generation Jammer Inc II</i>	0.000	-	-	-	-	-	18.000	16.000	12.000	25.000	1,000.704	1,071.704

**MDAP/MAIS Code:** P445

# The FY 2015 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.

**B. Program Change Summary (\$ in Millions)**

	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015 Base</u>	<u>FY 2015 OCO</u>	<u>FY 2015 Total</u>
Previous President's Budget	187.024	257.796	328.746	-	328.746
Current President's Budget	153.369	157.796	246.856	-	246.856
Total Adjustments	-33.655	-100.000	-81.890	-	-81.890
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-100.000			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-5.068	-			
• Program Adjustments	-	-	-0.707	-	-0.707
• Rate/Misc Adjustments	0.001	-	-81.183	-	-81.183
• Congressional General Reductions Adjustments	-8.588	-	-	-	-
• Congressional Directed Reductions Adjustments	-20.000	-	-	-	-

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<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2015 Navy		<b>Date:</b> March 2014
<b>Appropriation/Budget Activity</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy / BA 5: System Development &amp; Demonstration (SDD)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0604274N / <i>Next Generation Jammer (NGJ)</i>	
<b><u>Change Summary Explanation</u></b> Technical: Not applicable.  Schedule: Schedule has shifted by six to nine months due to Technology Development (TD) Award protest. TD Award occurred in 4th Qtr 2013, while protest delayed commencement of the TD period of performance to early 2nd Qtr 2014. Major Milestone Shifts: Milestone B from 3rd Qtr FY15 to 2nd Qtr FY16. Milestone C from 2nd Qtr FY18 to 2nd Qtr FY19.		

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**Exhibit R-2A, RDT&E Project Justification:** PB 2015 Navy **Date:** March 2014

<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604274N / Next Generation Jammer (NGJ)	<b>Project (Number/Name)</b> 0557 / Next Generation Jammer
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COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
0557: Next Generation Jammer	350.277	153.369	157.796	246.856	-	246.856	453.805	493.078	550.830	303.539	262.629	2,972.179
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

# The FY 2015 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 2013	FY 2014	FY 2015
<p><b>Title:</b> Next Generation Jammer</p> <p align="right"><b>Articles:</b></p> <p><b>FY 2013 Accomplishments:</b> Completed Technology Maturation efforts and achieved Milestone A decision. Award Technology Development contracts.</p> <p><b>FY 2014 Plans:</b> Plans moved to new accomplishment - Next Generation Jammer Primary Hardware Development.</p> <p><b>FY 2015 Plans:</b> N/A</p>	152.719	-	-
<p><b>Title:</b> Next Generation Jammer Primary Hardware Development</p> <p align="right"><b>Articles:</b></p> <p><b>FY 2013 Accomplishments:</b> N/A</p> <p><b>FY 2014 Plans:</b> Continue Technology Development Efforts in support of Milestone B decision. Perform concept exploration 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.</p> <p><b>FY 2015 Plans:</b></p>	-	43.055	123.691

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2015 Navy		<b>Date:</b> March 2014		
<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604274N / Next Generation Jammer (NGJ)	<b>Project (Number/Name)</b> 0557 / Next Generation Jammer		
<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>		<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>
Continue Technology Development phase and continue development of Pod Prime Hardware.				
<b>Title:</b> Capability Development Document (CDD)				
<b>Articles:</b>		0.650	-	-
		-	-	-
<b>FY 2013 Accomplishments:</b> Obtained CDD approval.				
<b>FY 2014 Plans:</b> N/A				
<b>FY 2015 Plans:</b> N/A				
<b>Title:</b> Next Generation Jammer Systems Engineering				
<b>Articles:</b>		-	52.273	53.405
		-	-	-
<b>FY 2013 Accomplishments:</b> N/A				
<b>FY 2014 Plans:</b> Perform System Engineering efforts in support of continued Next Generation Jammer Increment 1 development and Increment 2 Concept Exploration.				
<b>FY 2015 Plans:</b> Perform System Engineering efforts in support of continued Next Generation Jammer Increment 1 development and Increment 2 Concept Exploration.				
<b>Title:</b> Next Generation Jammer Aircraft Integration				
<b>Articles:</b>		-	57.960	65.703
		-	-	-
<b>FY 2013 Accomplishments:</b> N/A				
<b>FY 2014 Plans:</b> Perform Aircraft/Software Integration efforts to support Next Generation platform integration and meet IOC.				
<b>FY 2015 Plans:</b> Perform Aircraft/Software Integration efforts to support Next Generation platform integration and meet IOC.				
<b>Title:</b> Next Generation Jammer Support & Management Services				
<b>Articles:</b>		-	4.508	4.057
		-	-	-

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2015 Navy		<b>Date:</b> March 2014
<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604274N / <i>Next Generation Jammer (NGJ)</i>	<b>Project (Number/Name)</b> 0557 / <i>Next Generation Jammer</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>
<b><i>FY 2013 Accomplishments:</i></b> N/A			
<b><i>FY 2014 Plans:</i></b> Provide Support and Management Services associated with the Next Generation Jammer Program.			
<b><i>FY 2015 Plans:</i></b> Provide Support and Management Services associated with the Next Generation Jammer Program.			
<b>Accomplishments/Planned Programs Subtotals</b>	153.369	157.796	246.856

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

<u>Line Item</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015 Base</u>	<u>FY 2015 OCO</u>	<u>FY 2015 Total</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• MCN/00620258: <i>Next Generation Jammer</i>	-	-	-	-	-	4.400	-	-	-	-	4.400
• APN/0591: <i>Next Generation Jammer</i>	-	-	-	-	-	-	6.174	218.046	462.289	3,328.979	4,015.488
• APN/0605: <i>Spares and Repair Parts</i>	-	-	-	-	-	-	-	28.735	36.385	274.100	339.220

**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 development strategies in preparation for Milestone B in FY16.

**E. Performance Metrics**

To obtain sufficient technology demonstration to obtain favorable Milestone B decisions for continued program development.

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Navy** **Date:** March 2014

<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604274N / Next Generation Jammer (NGJ)	<b>Project (Number/Name)</b> 0557 / Next Generation Jammer
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<b>Product Development (\$ in Millions)</b>				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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- Technology Development/Engineering Manufacturing Development	C/CPIF	Raytheon : El segundo, CA	0.000	60.000	Jul 2013	43.055	Mar 2014	123.691	Nov 2014	-		123.691	1,110.565	1,337.311	1,337.311
Primary Hardware Development- Technology Maturation	C/CPFF	ITT : Clifton, NJ	61.199	1.475	Dec 2012	-		-		-		-	-	62.674	62.674
Primary Hardware Development- Technology Maturation	C/CPFF	BAE : Nashua, NH	62.345	-		-		-		-		-	-	62.345	62.345
Primary Hardware Development- Technology Maturation	C/CPFF	Raytheon : El Segundo, CA	60.687	2.600	Dec 2012	-		-		-		-	-	63.287	63.287
Primary Hardware Development- Technology Maturation	C/CPFF	Northrop Grumman : Bethpage, NY	60.676	1.521	Dec 2012	-		-		-		-	-	62.197	62.197
Primary Hardware Development	SS/CPFF	Northrop Grumman Space & Mission Systems Corp. : Herndon, VA	1.765	-		-		-		-		-	-	1.765	1.765
Systems Engineering	WR	NAWCAD : Patuxent River, MD	28.689	15.638	Dec 2012	19.380	Nov 2013	19.649	Nov 2014	-		19.649	236.605	319.961	-
Systems Engineering	WR	NAWCWD : Pt. Mugu, CA	13.427	13.210	Dec 2012	11.837	Nov 2013	12.002	Nov 2014	-		12.002	143.724	194.200	-
Systems Engineering	WR	NSWC Crane : Crane, IN	12.291	4.381	Dec 2012	6.000	Nov 2013	6.224	Nov 2014	-		6.224	76.639	105.535	-
Systems Engineering	WR	NSWC Dahlgren : Dahlgren, VA	1.097	0.846	Dec 2012	0.870	Nov 2013	0.903	Nov 2014	-		0.903	14.163	17.879	-
Systems Engineering	SS/CPFF	Johns Hopkins University Applied Physics Lab : Laurel, MD	10.238	3.455	Aug 2013	5.930	Nov 2013	6.108	Nov 2014	-		6.108	20.526	46.257	46.257

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Navy** **Date:** March 2014

<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604274N / Next Generation Jammer (NGJ)	<b>Project (Number/Name)</b> 0557 / Next Generation Jammer
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<b>Product Development (\$ in Millions)</b>				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Systems Engineering	WR	Naval Research Laboratory : Washington, DC	0.729	0.775	Dec 2012	0.803	Nov 2013	0.842	Nov 2014	-		0.842	5.158	8.307	-
Systems Engineering	Various	Various : Various	9.349	6.004	Apr 2013	7.453	Nov 2013	7.677	Nov 2014	-		7.677	34.601	65.084	-
Aircraft Integration	WR	NAWCWD : China Lake, CA	3.624	3.168	Dec 2012	14.824	Nov 2013	25.194	Nov 2014	-		25.194	138.397	185.207	-
Aircraft Integration- Loads Aircraft	Various	The Boeing Company : St. Louis, MO	0.000	10.343	May 2013	7.990	Dec 2013	4.080	Dec 2014	-		4.080	-	22.413	22.413
Aircraft Integration	SS/FFP	Harris Corporation : Palm Bay, FL	4.609	6.099	Mar 2013	-		-		-		-	-	10.708	10.708
Aircraft Integration	TBD	The Boeing Company : St. Louis, MO	0.000	10.000	Jul 2013	13.846	Dec 2013	19.754	Dec 2014	-		19.754	120.200	163.800	163.800
Software Integration- Systems Integration Lab	SS/FFP	Northrop Grumman : Bethpage, NY	1.682	8.094	Aug 2013	12.900	Jul 2014	4.475	Jul 2015	-		4.475	15.600	42.751	42.751
Software Integration	TBD	NAWCWD : Pt. Mugu, CA	0.000	-		8.400	Dec 2013	12.200	Dec 2014	-		12.200	132.300	152.900	-
SBIR Assessment	SS/FFP	Various : Various	1.995	-		-		-		-		-	-	1.995	1.995
<b>Subtotal</b>			334.402	147.609		153.288		242.799		-		242.799	2,048.478	2,926.576	-

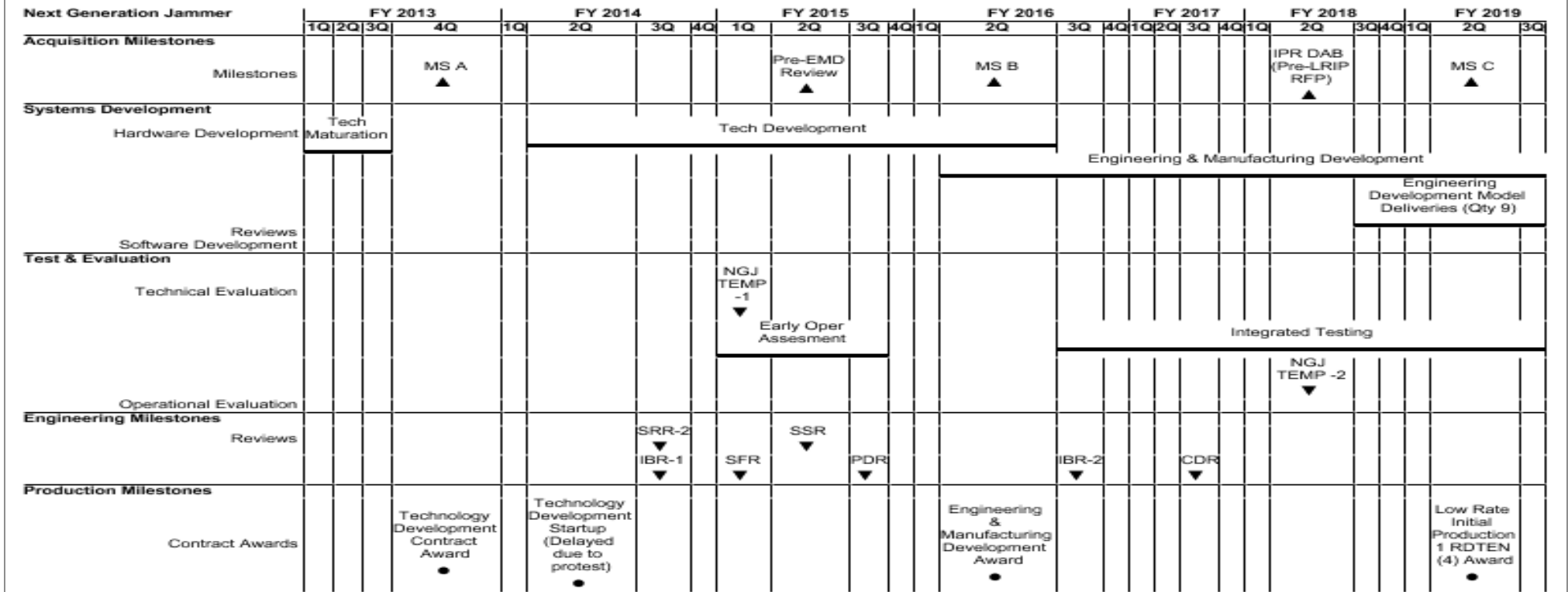
<b>Support (\$ in Millions)</b>				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Eng& Tech Srvc (Non FFRDC)	SS/FFP	NSMA : Arlington, VA	4.255	0.430	Sep 2013	0.400	Jun 2014	0.350	Jun 2015	-		0.350	-	5.435	5.435
Eng& Tech Srvc (Non FFRDC)	Various	Various : Various	6.429	2.229	Dec 2012	1.993	Dec 2013	1.803	Dec 2014	-		1.803	9.847	22.301	22.301
Studies & Analysis (Non- FFRDC)	SS/CPFF	Mantech Systems Engineering Corp. : Fairfax, VA	1.571	0.750	Dec 2012	0.582	Dec 2013	-		-		-	-	2.903	2.903



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**Exhibit R-4, RDT&E Schedule Profile: PB 2015 Navy** **Date:** March 2014

<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604274N / Next Generation Jammer (NGJ)	<b>Project (Number/Name)</b> 0557 / Next Generation Jammer
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2015PB - 0604274N - 0557

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Exhibit R-4, RDT&E Schedule Profile: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604274N / Next Generation Jammer (NGJ)	Project (Number/Name) 0557 / Next Generation Jammer



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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2015 Navy		<b>Date:</b> March 2014
<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604274N / <i>Next Generation Jammer (NGJ)</i>	<b>Project (Number/Name)</b> 0557 / <i>Next Generation Jammer</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Next Generation Jammer</i></b>				
Acquisition Milestones: Milestones: Milestone A	4	2013	4	2013
Acquisition Milestones: Milestones: Milestone B	2	2016	2	2016
Acquisition Milestones: Milestones: IPR DAB 2-LRIP Pre-RFP Release	2	2018	2	2018
Acquisition Milestones: Milestones: Milestone C	2	2019	2	2019
Acquisition Milestones: Milestones: Pre-EMD Review	2	2015	2	2015
Systems Development: Hardware Development: Technology Maturation	1	2013	3	2013
Systems Development: Hardware Development: Technology Development	2	2014	2	2016
Systems Development: Hardware Development: Engineering & Manufacturing Development	2	2016	4	2019
Systems Development: Hardware Development: Engineering Development Model Deliveries	3	2018	3	2019
Test & Evaluation: Technical Evaluation: NGJ Test & Evaluation Master Plan -1	1	2015	1	2015
Test & Evaluation: Technical Evaluation: Early Operational Assesment	1	2015	3	2015
Test & Evaluation: Technical Evaluation: Integrated Testing	3	2016	3	2019
Test & Evaluation: Technical Evaluation: NGJ Test & Evaluation Master Plan -2	2	2018	2	2018
Engineering Milestones: Reviews: Software Specification Review	2	2015	2	2015
Engineering Milestones: Reviews: System Readiness Review-2	3	2014	3	2014
Engineering Milestones: Reviews: Integrated Baseline Review-1	3	2014	3	2014
Engineering Milestones: Reviews: System Functional Review	1	2015	1	2015
Engineering Milestones: Reviews: Preliminary Design Review	3	2015	3	2015
Engineering Milestones: Reviews: Integrated Baseline Review-2	3	2016	3	2016
Engineering Milestones: Reviews: Critical Design Review	3	2017	3	2017

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**Exhibit R-4A, RDT&E Schedule Details:** PB 2015 Navy **Date:** March 2014

<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604274N / <i>Next Generation Jammer (NGJ)</i>	<b>Project (Number/Name)</b> 0557 / <i>Next Generation Jammer</i>
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<b>Events by Sub Project</b>	<b>Start</b>		<b>End</b>	
	<b>Quarter</b>	<b>Year</b>	<b>Quarter</b>	<b>Year</b>
Production Milestones: Contract Awards: Technology Development Contract Award	4	2013	4	2013
Production Milestones: Contract Awards: Technology Development Startup	2	2014	2	2014
Production Milestones: Contract Awards: Engineering & Manufacturing Development Contract Award	2	2016	2	2016
Production Milestones: Contract Awards: Low Rate Initial Production 1 RD TEN Contract Award	2	2019	2	2019

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2015 Navy										<b>Date:</b> March 2014		
<b>Appropriation/Budget Activity</b> 1319 / 5					<b>R-1 Program Element (Number/Name)</b> PE 0604274N / <i>Next Generation Jammer (NGJ)</i>				<b>Project (Number/Name)</b> 3380 / <i>Next Generation Jammer Inc II</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015 Base</b>	<b>FY 2015 OCO #</b>	<b>FY 2015 Total</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
3380: <i>Next Generation Jammer Inc II</i>	-	-	-	-	-	-	18.000	16.000	12.000	25.000	1,000.704	1,071.704
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

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

**A. Mission Description and Budget Item Justification**

The NGJ Increment 2 (Inc 2) Development Project Unit addresses the mission need for a robust radar and communications jamming capability from an airborne platform that will require capabilities beyond the currently deployed system. More specifically, the NGJ will provide Airborne Electronic Attack (AEA) capabilities against advanced threats. The development of the NGJ is being conducted in three increments of capability with each increment addressing AEA capability needs within specific "bands" of frequency coverage. Increment 2 provides capability in "Low Band". This incremental developmental approach allows for the development and fielding of the most critical capability first, with further capabilities (e.g. Inc 2 and Inc 3) incrementally developed and fielded in order of priority.

**B. Accomplishments/Planned Programs (\$ in Millions)**

N/A

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

N/A

**Remarks**

**D. Acquisition Strategy**

Next Generation Jammer Increment 2 is a prospective Major Defense Acquisition Program (MDAP) with activity focused on identification of requirements and available technologies.

**E. Performance Metrics**

Utilize studies and prototyping efforts to obtain sufficient information to develop system requirements prior to Milestone A and initiation of the Technology Development phase.



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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2015 Navy		<b>Date:</b> March 2014
<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604274N / <i>Next Generation Jammer (NGJ)</i>	<b>Project (Number/Name)</b> 3380 / <i>Next Generation Jammer Inc II</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Next Generation Jammer Inc 2</i></b>				
Acquisition Milestones: Milestone A	3	2019	3	2019
Contracting Milestones: Concept Exploration Activity (CEA) Award	2	2016	2	2016
Contracting Milestones: Concept Exploration Activity (CEA)	2	2016	3	2018