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

<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 0604212N / <i>Other Helicopter Development</i>
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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	813.810	34.436	11.101	6.268	-	6.268	10.104	12.066	7.046	4.135	Continuing	Continuing
1109: <i>CH/MH-53</i>	48.184	2.634	2.672	4.922	-	4.922	8.793	10.718	5.712	2.783	Continuing	Continuing
2415: <i>H-60 Development</i>	740.886	25.386	5.150	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	771.422
2460: <i>VH-3/VH-60</i>	24.740	6.416	3.279	1.346	-	1.346	1.311	1.348	1.334	1.352	Continuing	Continuing

**Program MDAP/MAIS Code:** 282

**Note**

Proj: 2415 H-60 Development Service Life Assessment Program (SLAP) commenced in this PE in FY 2015 but moves to PE 0702207N in FY 2017.

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

This Program Element includes funding for the development support for improvements to current systems for CH/MH-53, MH-60 development, VH-3/VH-60. The H-53 is the premier heavy lift helicopter for the Marine Corps and the only operational airborne mine sweeping platform for the Navy. H-53 RDT&E efforts focus on trade studies and risk reduction measures to identify candidate survivability, safety, avionics, cargo handling, cockpit and other airframe specific improvements to extend the service life. The MH-60S Helicopter has three primary mission areas; Combat Support, Armed Helo which includes the Fast Attack Craft/Fast Inshore Attack Craft (FAC/ FIAC) threat response capabilities and Airborne Mine Countermeasures. The VH-3/VH-60 is required to provide safe and timely transportation for the President and Vice President of the United States, heads of state and others as directed by the White House Military Office.

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

	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017 Base</u>	<u>FY 2017 OCO</u>	<u>FY 2017 Total</u>
Previous President's Budget	35.099	11.101	4.092	-	4.092
Current President's Budget	34.436	11.101	6.268	-	6.268
Total Adjustments	-0.663	0.000	2.176	-	2.176
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.663	0.000			
• Program Adjustments	0.000	0.000	1.032	-	1.032
• Rate/Misc Adjustments	0.000	0.000	1.144	-	1.144

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<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 0604212N / <i>Other Helicopter Development</i>
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**Change Summary Explanation**

Technical:

2460 VH-3/VH-60: Not Applicable

Schedule:

1109 CH/MH-53: Not Applicable

2415 AMCM: Initial Operational Test & Evaluation (IOT&E) extended into FY 2016 for Littoral Combat Ship and updated delivery schedule.

2415 Forward Firing Weapon: Removed Service Life Assessment Program from schedule.

2460 VH-3/VH-60: Not Applicable

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Navy										<b>Date:</b> February 2016		
<b>Appropriation/Budget Activity</b> 1319 / 5					<b>R-1 Program Element (Number/Name)</b> PE 0604212N / <i>Other Helicopter Development</i>				<b>Project (Number/Name)</b> 1109 / <i>CH/MH-53</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
1109: <i>CH/MH-53</i>	48.184	2.634	2.672	4.922	-	4.922	8.793	10.718	5.712	2.783	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

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

The H-53 helicopter is the premier heavy lift helicopter for the Marine Corps and the only operational airborne mine sweeping platform for the Navy. Through FY2021, H-53 efforts will continue to develop and qualify components, prior to production and approval decisions, in order to replace obsolete system components. Emphasis will be placed on supportability improvement modifications that will sustain the H-53 aircraft until the transition of the H-53K is complete. These efforts combined, will significantly improve the readiness of the H-53 fleet while reducing long term operational and supportability costs. Survivability efforts to address improved situational awareness to pilots will include improved Digital Interoperability and improve Degraded Visual Environment Awareness. Modeling and simulation will be used to the maximum practical extent throughout this effort. Manned Flight Simulator will be utilized to develop, install and test interim modifications to existing H-53 legacy avionics, while maintaining the original basic system footprint and functionality. As a part of this effort, a complete Electro Magnetic Vulnerability assessment will be required for the affected and/or modified systems.

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

	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
<b>Title:</b> H-53 Avionics	0.729	0.810	1.847	0.000	1.847
<b>Articles:</b>	-	-	-	-	-
<b>FY 2015 Accomplishments:</b>					
Integrate software applique for cockpit and avionics improvements, to include the development of new sensors. Develop flight control computer and test set design modifications to address anticipated obsolescence issues. Conduct Business Case Analyses to determine impact of high Operation and Support cost drivers and address alternatives to mitigate identified issues.					
<b>FY 2016 Plans:</b>					
Integrate software applications for cockpit and avionics improvements, to include the development of new sensors. Investigate solutions to address the degraded visual environment. Develop flight control computer and test set design modifications to address anticipated obsolescence issues. Conduct Business Case Analyses to determine impact of high Operation and Support cost drivers and address alternatives to mitigate identified issues.					
<b>FY 2017 Base Plans:</b>					
Integrate software applications for cockpit and avionics improvements, to include the development of new sensors. Investigate solutions to address the degraded visual environment. Develop flight control computer and					

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Navy		<b>Date:</b> February 2016
<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604212N / <i>Other Helicopter Development</i>	<b>Project (Number/Name)</b> 1109 / CH/MH-53

<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
test set design modifications to address anticipated obsolescence issues. Conduct Business Case Analyses to determine impact of high Operation and Support cost drivers and address alternatives to mitigate identified issues. Initiate improved Degraded Visual Environmental Awareness to include coupled flight control capability. <b>FY 2017 OCO Plans:</b> N/A					
<b>Title:</b> H-53 Survivability  <b>FY 2015 Accomplishments:</b> Perform trade studies, risk reduction, design, development, model, integration and test activities for H-53 survivability systems to include effectiveness of the ballistic vulnerability (armor) package. <b>FY 2016 Plans:</b> Perform trade studies, risk reduction, design, development, model, integration and test activities for H-53 survivability to include increased situational awareness via digital interoperability. <b>FY 2017 Base Plans:</b> Perform trade studies, risk reduction, design, development, model, integration and test activities for H-53 survivability to include increased situational awareness via digital interoperability. <b>FY 2017 OCO Plans:</b> N/A	0.565	0.583	0.440	0.000	0.440
<b>Articles:</b>	-	-	-	-	-
<b>Title:</b> H-53 Propulsion  <b>FY 2015 Accomplishments:</b> Provide in-house, field activity, and contractor support of IPTs to allow for studies and analyses, preparation of acquisition documentation and examination of equipment and avionics for the H-53. Efforts include, but are not limited to, government development support, engineering support, product management support, system engineering and logistics support, and travel for the H-53 program. <b>FY 2016 Plans:</b> Conduct Business Case Analyses to determine impact of high Operation and Support Propulsion cost drivers and address alternatives to mitigate. <b>FY 2017 Base Plans:</b>	0.301	0.300	0.433	0.000	0.433
<b>Articles:</b>	-	-	-	-	-

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Navy			<b>Date:</b> February 2016			
<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604212N / <i>Other Helicopter Development</i>	<b>Project (Number/Name)</b> 1109 / CH/MH-53				
<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>						
		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Conduct Business Case Analyses to determine impact of high Operation and Support Propulsion cost drivers and address alternatives to mitigate, as well as addressing proposed solutions to the risk associated with #2 engine fires.						
<b>FY 2017 OCO Plans:</b> N/A						
<b>Title:</b> Project Management Support		0.715	0.697	0.726	0.000	0.726
	<b>Articles:</b>	-	-	-	-	-
<b>FY 2015 Accomplishments:</b> Provide in-house, field activity, and contractor support of IPTs to allow for studies and analyses, preparation of acquisition documentation and examination of equipment and avionics for the H-53. Efforts include, but are not limited to, government development support, engineering support, product management support, system engineering and logistics support, and travel for the H-53 program.						
<b>FY 2016 Plans:</b> Provide in-house, field activity, and contractor support of IPTs to allow for studies and analyses, preparation of acquisition documentation and examination of equipment and avionics for the H-53. Efforts include, but are not limited to, government development support, engineering support, product management support, system engineering and logistics support, and travel for the H-53 program.						
<b>FY 2017 Base Plans:</b> Provide in-house, field activity, and contractor support of IPTs to allow for studies and analyses, preparation of acquisition documentation and examination of equipment and avionics for the H-53. Efforts include, but are not limited to, government development support, engineering support, product management support, system engineering and logistics support, and travel for the H-53 program.						
<b>FY 2017 OCO Plans:</b> N/A						
<b>Title:</b> H-53 Airframe		0.324	0.282	1.476	0.000	1.476
	<b>Articles:</b>	-	-	-	-	-
<b>FY 2015 Accomplishments:</b>						

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Navy		<b>Date:</b> February 2016
<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604212N / <i>Other Helicopter Development</i>	<b>Project (Number/Name)</b> 1109 / <i>CH/MH-53</i>

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

	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Perform trade studies, risk reduction, design, development, integration and test activities for the H-53 airframe to include, but not limited to, main rotor head, cowlings, aircraft structure, drive train, and various dynamic components					
<b><i>FY 2016 Plans:</i></b> Continue to develop and qualify components, prior to production and approval decisions, in order to replace obsolete system components. Perform trade studies, risk reduction, design, development, integration and test activities for the H-53 airframe to include, but not limited to, main rotor head, cowlings, aircraft structure, drive train, and various dynamic components.					
<b><i>FY 2017 Base Plans:</i></b> Develop software tool to support aircraft diagnostics, health monitoring and Fatigue Life Estimating (FLE) which will interface with Naval Enterprise Logistics Support Systems. Continue to develop tools to study/analyze and qualify components, prior to production and approval decisions, in order to replace obsolete system components. Perform trade studies, risk reduction, design, development, integration and test activities for the H-53 airframe to include, but not limited to, main rotor head, cowlings, aircraft structure, drive train, and various dynamic components.					
<b><i>FY 2017 OCO Plans:</i></b> N/A					
<b>Accomplishments/Planned Programs Subtotals</b>	2.634	2.672	4.922	0.000	4.922

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

<u>Line Item</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017 Base</u>	<u>FY 2017 OCO</u>	<u>FY 2017 Total</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• APN/0528: <i>H-53 Series</i>	36.152	36.000	46.095	-	46.095	32.559	26.147	34.466	37.096	177.772	1,890.013

**Remarks**

**D. Acquisition Strategy**

This is a non-ACAT program. H-53 RDT&E efforts will focus on trade studies and risk reduction measures to identify candidate survivability, interoperability, safety, avionics, cargo handling, cockpit and other airframe specific improvements to extend the service life.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Navy		<b>Date:</b> February 2016
<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604212N / <i>Other Helicopter Development</i>	<b>Project (Number/Name)</b> 1109 / <i>CH/MH-53</i>

**E. Performance Metrics**

Successfully perform studies, analysis and develop software to address emergent H-53 issues. Successfully support developmental and operation test activities to qualify aircraft modifications/upgrades.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Navy												Date: February 2016			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)					Project (Number/Name)						
1319 / 5				PE 0604212N / Other Helicopter Development					1109 / CH/MH-53						
<b>Product Development (\$ in Millions)</b>				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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	NAWC AD : Patuxent River, MD	3.671	0.621	Nov 2014	0.661	Nov 2015	1.464	Nov 2016	-		1.464	Continuing	Continuing	Continuing
Systems Engineering Contract	C/CPFF	Sikorsky : Stratford, CT	0.000	0.231	Feb 2015	0.251	Feb 2016	0.981	Feb 2017	-		0.981	0.000	1.463	1.463
Systems Engineering	WR	Various : Various	0.000	0.000		0.000		0.344	Nov 2016	-		0.344	Continuing	Continuing	Continuing
Prior Year Prod Dev no longer funded in the FYDP	TBD	TBD : TBD	19.475	0.000		0.000		0.000		-		0.000	0.000	19.475	-
<b>Subtotal</b>			23.146	0.852		0.912		2.789		-		2.789	-	-	-
<b>Support (\$ in Millions)</b>				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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
Software Development	Various	Various : Various	2.697	0.560	Mar 2015	0.670	Mar 2016	0.787	Mar 2017	-		0.787	Continuing	Continuing	Continuing
GFE	Various	NAWC AD : Patuxent River, MD	2.886	0.245	Nov 2014	0.450	Nov 2015	0.319	Nov 2016	-		0.319	Continuing	Continuing	Continuing
<b>Subtotal</b>			5.583	0.805		1.120		1.106		-		1.106	-	-	-
<b>Test and Evaluation (\$ in Millions)</b>				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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
Developmental Test & Evaluation	Various	Various : Various	7.113	0.599	Mar 2015	0.268	Mar 2016	0.407	Mar 2017	-		0.407	Continuing	Continuing	Continuing
<b>Subtotal</b>			7.113	0.599		0.268		0.407		-		0.407	-	-	-

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

<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604212N / <i>Other Helicopter Development</i>	<b>Project (Number/Name)</b> 1109 / <i>CH/MH-53</i>
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<b>Management Services (\$ in Millions)</b>				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			
Government Engineering Support	WR	NAWC AD : Patuxent River, MD	5.863	0.326	Nov 2014	0.325	Nov 2015	0.538	Nov 2016	-		0.538	Continuing	Continuing	Continuing
Travel	Various	Various : Various	1.805	0.052	Oct 2014	0.047	Oct 2015	0.082	Oct 2016	-		0.082	Continuing	Continuing	Continuing
Prior Year Mgmt no longer funded in the FYDP	Various	Various : Various	4.674	0.000		0.000		0.000		-		0.000	0.000	4.674	-
<b>Subtotal</b>			12.342	0.378		0.372		0.620		-		0.620	-	-	-

	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>		48.184	2.634	2.672	4.922	-	-	-	-

**Remarks**  
 Affordability Initiative added to FY17 \$1.174M to support Interactive Electronic Technical Manuals (IETMS) conversion of CH-53 tech pubs into electronic format and integration into current support processes for CH-53K.  
 Added FY17 \$1.100M for upgrading the CH-53E to provide additional cueing and situational awareness to pilots when operating in reduced visibility conditions.

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**Exhibit R-4, RDT&E Schedule Profile: PB 2017 Navy**

**Date:** February 2016

**Appropriation/Budget Activity**  
1319 / 5

**R-1 Program Element (Number/Name)**  
PE 0604212N / *Other Helicopter Development*

**Project (Number/Name)**  
1109 / *CH/MH-53*

CH/MH-53	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
<b>Acquisition Milestones</b>																												
<b>Engineering Milestones</b>																												
	Obsolence Issues/Studies																											
	Survivability Analysis																											
	Legacy P3I Efforts																											
	Safety Upgrades																											
<b>Test &amp; Evaluation</b>																												
<b>Production Milestones</b>																												
<b>Deliveries</b>																												

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2017 Navy		<b>Date:</b> February 2016
<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604212N / <i>Other Helicopter Development</i>	<b>Project (Number/Name)</b> 1109 / <i>CH/MH-53</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>CH/MH-53</b>				
Engineering Milestones: - Obsolescence Issues/Studies	1	2015	4	2021
Engineering Milestones: - Survivability Analysis	1	2015	4	2021
Engineering Milestones: - Legacy P3I Efforts	1	2015	4	2021
Engineering Milestones: - Safety Upgrades	1	2015	4	2021

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Navy										<b>Date:</b> February 2016		
<b>Appropriation/Budget Activity</b> 1319 / 5					<b>R-1 Program Element (Number/Name)</b> PE 0604212N / <i>Other Helicopter Development</i>				<b>Project (Number/Name)</b> 2415 / <i>H-60 Development</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
2415: <i>H-60 Development</i>	740.886	25.386	5.150	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	771.422
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

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

The Helicopter Combat Support mission provides organic fleet Armed Helo Fast Attack Craft/Fast Inshore Attack Craft (FAC/FIAC) threat response, maintains forward deployed fleet sustainability through rapid airborne delivery of materials and personnel and supports amphibious operations through search and rescue coverage. The aircraft conduct vertical replenishment, day/night ship-to-ship, ship-to-shore, and shore-to-ship external transfer of cargo; internal transport of passengers, mail and cargo, vertical on board delivery; airhead operations, and day/night search and rescue. Armed Helo and Airborne Mine Countermeasures (AMCM) were added as primary mission areas for the MH-60S as block upgrades to the platform. The MH-60S Operational Requirements Document (ORD) was modified in May 2000 to add AMCM as a primary mission for the MH-60S. ORD Change II was validated and approved by the Joint Requirements Oversight Council on 15 February 2008 updating key performance parameters. AMCM provides an organic capability for the Littoral Combat Ship Mine Countermeasures Mission Package. Armed Helo provides Special Warfare Support, Combat Search and Rescue, Surface Warfare and Maritime Interdiction Operations capability with Link 16 and Forward Firing Weapons (FFW) which includes rockets and anti-swarm weapons to address the FAC/FIAC threat. Aircraft secondary roles include torpedo and drone recovery, noncombatant evacuation operations, and SEAL team and Explosive Ordnance Disposal support. Additionally, a Service Life Assessment Program (SLAP), trade studies, and analysis efforts to develop and qualify components to replace obsolete system components commences in FY 2015. These efforts will continue in PE 0702207N in FY 2017.

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

	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
<b>Title:</b> MH-60S Airframe Development and Integration	1.550	0.000	0.000	0.000	0.000
<b>Articles:</b>	-	-	-	-	-
<b>Description:</b> The effort includes analysis, design, integration, test, and support for FFW/Rockets to include Advanced Precision Kill Weapon System (APKWS) and Digital Rocket Launcher with mixed loads and enhanced targeting capability with the Helmet Display Targeting System (HDTs). FFW training development to include situational analysis and Instructional System Development documentation. Conduct SLAP, trade studies and analysis, develop and qualify components in order to replace obsolete system components on the MH-60S. Accomplishments include design, development, integration, correction of deficiencies and support of the AMCM unique items into the MH-60S airframe; Test and Evaluation on AMCM Mission Kits for the sensor/weapon systems integration on the MH-60S; and AMCM training development.					
<b>FY 2015 Accomplishments:</b> Continue to analyze, design, integrate, and support follow-on Forward Firing Weapons (FFW)/Rockets capability to include Digital Rocket Launcher with mixed loads and training development of FFW capability. Complete					

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Navy			<b>Date:</b> February 2016		
<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604212N / <i>Other Helicopter Development</i>	<b>Project (Number/Name)</b> 2415 / <i>H-60 Development</i>			
<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>					
	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Airborne Mine Countermeasures (AMCM) sensor/weapon system integration. Conduct SLAP and obsolescence trade studies and analysis.  <b>FY 2016 Plans:</b> N/A  <b>FY 2017 Base Plans:</b> N/A  <b>FY 2017 OCO Plans:</b> N/A					
<b>Title:</b> MH-60S Avionics Development and Integration  <b>Description:</b> This effort includes developmental efforts on the avionics architecture and systems of the MH-60S helicopter. Limited software development/improvements for targeting to support Forward Firing Weapons (FFW) /Rockets integration to include Advanced Precision Kill Weapon System (APKWS) and Digital Rocket Launcher (DRL) with mixed loads. Training development to include situational analysis, instructional analysis and training updates for FFW,Rockets and various Airborne Mine Countermeasures (AMCM) sensors. Development of the operator consoles, as well as software modifications/improvements, to support AMCM systems. Link 16 software development/upgrades and test for AMCM messages.  <b>FY 2015 Accomplishments:</b> Complete the FFW/Rockets integration of DRL with mixed loads. Continue the limited avionics hardware and software improvements/enhancements for enhanced targeting capability with the Helmet Display Targeting System (HDTS). Complete AMCM test efforts.  <b>FY 2016 Plans:</b> N/A  <b>FY 2017 Base Plans:</b> N/A  <b>FY 2017 OCO Plans:</b> N/A	<b>Articles:</b>	10.208	0.000	0.000	0.000
	-	-	-	-	-
<b>Title:</b> MH-60S Test, Engineering, Logistics, Management Support	13.628	5.150	0.000	0.000	0.000

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Navy		<b>Date:</b> February 2016
<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604212N / <i>Other Helicopter Development</i>	<b>Project (Number/Name)</b> 2415 / <i>H-60 Development</i>

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

	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
<b>Articles:</b>	-	-	-	-	-
<p><b>Description:</b> Navy field activity systems engineering, logistics support, management and travel for the FFW/Rockets integration to include Advanced Precision Kill Weapon System (APKWS), Digital Rocket Launcher (DRL) with mixed loads and AMCM MH-60S Sensor/Weapon Systems Integration team for airframe and avionics. Support/conduct MH-60S aircraft integration testing for Forward Firing Weapons (FFW)/Rockets and enhanced targeting capability with the Helmet Display Targeting System (HDTS). Airborne Mine Countermeasures (AMCM) sensor/weapon system integration testing and support. Additionally, provide support to a service life assessment program and trade studies and analysis efforts.</p> <p><b>FY 2015 Accomplishments:</b> Continue FFW/Rockets integration/testing for Digital Rocket Launcher (DRL) with mixed loads, FFW and HDTS enhancements and AMCM sensor/weapon system integration.</p> <p><b>FY 2016 Plans:</b> Complete FFW/Rockets integration/testing for DRL with mixed loads, FFW and HDTS enhancements. Commence support for a service life assessment program and trade studies and analysis efforts</p> <p><b>FY 2017 Base Plans:</b> N/A</p> <p><b>FY 2017 OCO Plans:</b> N/A</p>					
<b>Accomplishments/Planned Programs Subtotals</b>	25.386	5.150	0.000	0.000	0.000

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

<b>Line Item</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
• APN1/017900: <i>MH-60S</i>	182.140	28.232	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	6,772.544
• APN5/053000: <i>H-60 MODS</i>	23.605	36.858	34.939	3.000	37.939	31.535	38.046	38.797	40.916	154.406	636.885

**Remarks**

APN5/053000 reflects only MH-60S specific OSIPS 016-04 and 09-07 funding.

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy		Date: February 2016
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604212N / Other Helicopter Development	Project (Number/Name) 2415 / H-60 Development

**D. Acquisition Strategy**

Armed Helo and AMCM are elements of the existing MH-60S ACAT IC Program. MH-60S employed an evolutionary acquisition approach via the MH-60S Block Upgrades. This allowed for modification of systems still in early development. The block upgrades maximize commonality across all MH-60S missions and all Armed Helo/AMCM weapon systems, including logistics, training and maintenance. The MH-60S block upgrades are as follows:

- Block 1 - Combat Support Helicopter
- Block 2 - Organic Airborne Mine Countermeasures
- Block 3 - Armed Helo

Block 2 aircraft are being upgraded to include Armed Helo Capability.

**E. Performance Metrics**

Successfully complete FFW/ Rockets Developmental/Operational Testing. Successfully achieve Initial Operational Capability for Airborne Mine Countermeasures and Littoral Combat Ship Mine Countermeasures Mission Package.

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

<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604212N / <i>Other Helicopter Development</i>	<b>Project (Number/Name)</b> 2415 / <i>H-60 Development</i>
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<b>Product Development (\$ in Millions)</b>				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 Hdw Dev - Airframe*	SS/CPIF	Sikorsky : Stratford, CT	170.465	0.300	Mar 2015	0.000		0.000		-		0.000	0.000	170.765	170.765
Primary Hdw Dev - Airframe FFW	SS/CPFF	Sikorsky : Stratford, CT	11.490	1.250	Aug 2015	0.000		0.000		-		0.000	0.000	12.740	12.740
Primary Hdw Dev - Avionics*	SS/CPIF	Lockheed Martin : Owego, NY	223.885	1.000	Mar 2015	0.000		0.000		-		0.000	0.000	224.885	224.885
Primary Hdw Dev - Avionics*FFW	SS/CPIF	Lockheed Martin : Owego, NY	7.319	2.001	Mar 2015	0.000		0.000		-		0.000	0.000	9.320	9.320
Primary Hdw Dev - Avionics*FFW	MIPR	Army, DOTC : Picatinny, NJ	2.650	3.060	Nov 2014	0.000		0.000		-		0.000	0.000	5.710	-
Primary Hdw Dev - Avionics*FFW	TBD	Raytheon : TBD	0.000	2.622	Mar 2015	0.000		0.000		-		0.000	0.000	2.622	2.622
Primary Hdw Dev - CSTRS	WR	NSWC : Panama City, FL	23.022	0.000		0.000		0.000		-		0.000	0.000	23.022	-
Primary Hdw Dev - CSTRS	MIPR	CECOM : APG, MD	13.629	0.000		0.000		0.000		-		0.000	0.000	13.629	-
Primary Hdw Dev - Training	TBD	TBD : TBD	0.000	1.150	Feb 2015	0.000		0.000		-		0.000	0.000	1.150	-
Primary Hdw Dev - Avionics FFW	Various	Various : China Lake, CA	0.000	0.375	Dec 2014	0.000		0.000		-		0.000	0.000	0.375	-
Prior year Product Dev cost no longer funded in the FYDP	Various	Various : Various	51.554	0.000		0.000		0.000		-		0.000	0.000	51.554	-
<b>Subtotal</b>			504.014	11.758		0.000		0.000		-		0.000	0.000	515.772	-

**Remarks**  
 Remarks: FY05-FY12 SS/CPIF  
 FY12-FY14 Primary Hdw Dev- Avionics - Lockheed Martin includes Progress Payments aligned to Fixed Price CLIN only.

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

<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604212N / <i>Other Helicopter Development</i>	<b>Project (Number/Name)</b> 2415 / <i>H-60 Development</i>
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<b>Support (\$ in Millions)</b>				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			
ILS - MSS (Non FFRDC)	Various	Various : Various	3.301	0.150	Dec 2014	0.266	Dec 2015	0.000		-		0.000	0.000	3.717	-
Integrated Logistics Support	WR	Various : Various	7.527	0.450	Dec 2014	0.000		0.000		-		0.000	0.000	7.977	-
Prior year Support cost no longer funded in the FYDP	Various	Various : Various	8.589	0.000		0.000		0.000		-		0.000	0.000	8.589	-
<b>Subtotal</b>			19.417	0.600		0.266		0.000		-		0.000	0.000	20.283	-

<b>Test and Evaluation (\$ in Millions)</b>				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			
Dev Test & Evaluation	WR	NAWCAD : Patuxent River, MD	54.444	4.000	Dec 2014	2.506	Dec 2015	0.000		-		0.000	0.000	60.950	-
Dev Test & Evaluation	WR	Various : Various	26.110	0.200	Dec 2014	0.820	Dec 2015	0.000		-		0.000	0.000	27.130	-
Operational Test & Evaluation	WR	OPTEVFOR : Norfolk, VA	5.927	3.725	Dec 2014	0.000		0.000		-		0.000	0.000	9.652	-
Prior year T&E cost no longer funded in the FYDP	Various	Various : Various	6.159	0.000		0.000		0.000		-		0.000	0.000	6.159	-
<b>Subtotal</b>			92.640	7.925		3.326		0.000		-		0.000	0.000	103.891	-

<b>Management Services (\$ in Millions)</b>				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			
Eng & Tech Svc (Non FFRDC)	Various	Various : Various	22.309	1.581	Dec 2014	0.193	Nov 2015	0.000		-		0.000	0.000	24.083	-
Government Engineering Support	WR	NAWCAD : Patuxent River, MD	17.237	1.374	Dec 2014	0.805	Dec 2015	0.000		-		0.000	0.000	19.416	-
Government Engineering Support	WR	NSWC : Panama City, FL	34.307	0.500	Dec 2014	0.000		0.000		-		0.000	0.000	34.807	-



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**Exhibit R-4, RDT&E Schedule Profile: PB 2017 Navy** **Date:** February 2016

<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604212N / <i>Other Helicopter Development</i>	<b>Project (Number/Name)</b> 2415 / <i>H-60 Development</i>
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Airborne Mine Countermeasures	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021			
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
<b>Acq Milestones</b>																												
Milestones								IOC ▲																				
<b>Test &amp; Evaluation</b>																												
MH-60S AMCM	IOT&E																											
<b>Production Milestones</b>																												
<b>Deliveries</b>																												
	FY12				FY13				FY14																			

2017PB - 0604212N - 2415

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**Exhibit R-4, RDT&E Schedule Profile: PB 2017 Navy** **Date:** February 2016

<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604212N / <i>Other Helicopter Development</i>	<b>Project (Number/Name)</b> 2415 / <i>H-60 Development</i>
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	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021			
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
<b>Fixed Forward Firing Weapon</b>																												
<b>Rockets</b>																												
System Integration	System Integration																											
Reviews																												
<b>Test and Evaluation</b>																												
DT																												
OT																												

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<b>Exhibit R-4A, RDT&amp;E Schedule Details: PB 2017 Navy</b>		<b>Date:</b> February 2016
<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604212N / <i>Other Helicopter Development</i>	<b>Project (Number/Name)</b> 2415 / <i>H-60 Development</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Airborne Mine Countermeasures</i></b>				
Acq Milestones: Milestones: - Initial Operational Capability-AMCM	4	2016	4	2016
Test & Evaluation: MH-60S AMCM: Initial Operational Test and Evaluation (IOT&E)	1	2015	2	2016
Deliveries: - Production Delivery (AMCM Ancillary Kits-FY12)	1	2015	1	2016
Deliveries: - Production Delivery (AMCM Ancillary Kits-FY13)	3	2015	1	2016
Deliveries: - Production Delivery (AMCM Ancillary Kits-FY14)	3	2016	2	2017
<b><i>Fixed Forward Firing Weapon</i></b>				
Rockets: System Integration: System Integration	1	2015	4	2016
Test and Evaluation: Developmental Testing (DT) (FFW)	1	2015	3	2015
Test and Evaluation: Operational Testing (OT) (FFW)	4	2015	2	2016

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

<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604212N / <i>Other Helicopter Development</i>	<b>Project (Number/Name)</b> 2460 / <i>VH-3/VH-60</i>
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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
2460: <i>VH-3/VH-60</i>	24.740	6.416	3.279	1.346	-	1.346	1.311	1.348	1.334	1.352	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

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

Marine Helicopter Squadron One (HMX-1) is required to provide safe and timely transportation for the President and Vice President of the United States, heads of state and others as directed by the White House Military Office. Currently two Type, Model, Series aircraft are used by HMX-1 for the Presidential support mission - the VH-3D and the VH-60N. This project currently funds the VH Executive Helicopter's Aircraft Life Management Program.

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

	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
<b>Title:</b> VH Executive Helicopter Aircraft Life Management Program	6.416	3.279	1.346	0.000	1.346
<b>Articles:</b>	-	-	-	-	-
<b>Description:</b> VH Executive Helicopter Aircraft Life Management Program: Provides for management and improvement of all Executive Helicopter systems readiness including safety, operational weight, mission availability, structural integrity, component reliability, maintainability, software, and obsolescence issues as they arise.					
<b>FY 2015 Accomplishments:</b> Provide government support and contract awards for efforts associated with the Aircraft Life Management Program for VH Executive Helicopters. Support design, integration, and test of a WBLoS System for Executive Lift Platforms. The majority of the RDT&E, N WBLoS hardware and software integration work is in FY 2015 using the VH software support activity.					
<b>FY 2016 Plans:</b> Provide initial capability of Phase II WBLoS into 1st VH-3D Executive helicopter, to include installation, testing and verification actions associated with performance, drawings, and schematics. Support software development and testing of 1st VH60N aircraft OFP as well as initial aircraft installation design efforts. Complete software testing of the Phase II WBLoS software OFP, and begin the effort of Phase III of the WBLoS system.					
<b>FY 2017 Base Plans:</b> Provide government program management and engineering support for efforts associated with the Aircraft Life and Management Program ensuring aircraft availability and mission readiness to the VH Executive Helicopters.					
<b>FY 2017 OCO Plans:</b>					

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Navy		<b>Date:</b> February 2016
<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604212N / <i>Other Helicopter Development</i>	<b>Project (Number/Name)</b> 2460 / <i>VH-3/VH-60</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
N/A					
<b>Accomplishments/Planned Programs Subtotals</b>	6.416	3.279	1.346	0.000	1.346

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

<u>Line Item</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017 Base</u>	<u>FY 2017 OCO</u>	<u>FY 2017 Total</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• APN/056600: <i>Executive Helicopters Series</i>	68.128	66.624	66.835	-	66.835	61.638	50.275	19.225	18.092	Continuing	Continuing

**Remarks**

Results of the Aircraft Life Management Program trade studies and risk reduction efforts will lead to modifications to be addressed through the program's Obsolescence Management Program and VH Comm Suite Upgrade Operational Safety and Improvement Programs as directed by the Deputy Secretary of Defense.

**D. Acquisition Strategy**

VH Executive Helicopter ALMP will include trade studies and risk reduction efforts necessary to address safety, operational weight, mission availability, structural integrity, component reliability, maintainability, software, and obsolescence issues as they arise.

**E. Performance Metrics**

Completion of VH Executive Helicopter Aircraft Life Management Program efforts.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Navy												Date: February 2016			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)					Project (Number/Name)						
1319 / 5				PE 0604212N / Other Helicopter Development					2460 / VH-3/VH-60						
Product Development (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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	SS/CPFF	Sikorsky : Stratford, CT	8.675	0.000		0.000		0.000		-		0.000	7.206	15.881	15.881
Primary HW Development	TBD	Sikorsky : Stratford, CT	0.000	0.899	Dec 2014	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Software Development	SS/FFP	Rockwell Collins : Cedar Rapids, IA	0.000	2.422	Dec 2014	0.000		0.000		-		0.000	0.000	2.422	2.627
Systems Engineering	WR	NAWCAD : Patuxent River, MD	0.000	1.218	Dec 2014	0.768	Dec 2015	0.000		-		0.000	0.000	1.986	-
Prior Year Prod Dev no longer funded in the FYDP	Various	Various : Various	5.321	0.000		0.000		0.000		-		0.000	0.000	5.321	-
<b>Subtotal</b>			13.996	4.539		0.768		0.000		-		0.000	-	-	-
Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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
Development Test & Evaluation-WBLoS	WR	NAWCAD : Patuxent River, MD	0.000	1.168	Dec 2014	1.688	Nov 2015	0.499	Nov 2016	-		0.499	Continuing	Continuing	Continuing
<b>Subtotal</b>			0.000	1.168		1.688		0.499		-		0.499	-	-	-
Management Services (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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
Government Engineering Support	WR	NAWCAD : Patuxent River, MD	9.493	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Program Management Support	WR	NAWCAD : Patuxent River, MD	0.765	0.555	Dec 2014	0.793	Nov 2015	0.814	Nov 2016	-		0.814	Continuing	Continuing	Continuing
System Engineering	SS/CPFF	NAVSEA : Washington Navy Yard, DC	0.255	0.100	Feb 2015	0.000		0.000		-		0.000	0.000	0.355	0.355



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**Exhibit R-4, RDT&E Schedule Profile: PB 2017 Navy** **Date:** February 2016

<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604212N / <i>Other Helicopter Development</i>	<b>Project (Number/Name)</b> 2460 / <i>VH-3/VH-60</i>
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VH-3/VH-60	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021					
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q		
<b>Engineering Milestones</b>	VH ALMP																													
Systems Development	VH Comms Upgrade Aircraft Prototype Engineering																													
	VH Comms Upgrade System Integration																													
	VH Comms Upgrade Software Integration																													

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2017 Navy		<b>Date:</b> February 2016
<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604212N / <i>Other Helicopter Development</i>	<b>Project (Number/Name)</b> 2460 / <i>VH-3/VH-60</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>VH-3/VH-60</i></b>				
Engineering Milestones: VH-3D / VH-60N ALMP	1	2015	4	2021
Engineering Milestones: Systems Development: VH Comms Upgrade Aircraft Prototype Engineering and Flight Test	1	2015	2	2017
Engineering Milestones: Systems Development: VH Comms Upgrade System Integration	1	2015	2	2017
Engineering Milestones: Systems Development: VH Comms Upgrade Software Integration	1	2015	4	2016

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